

SOUTHERN FARM NOTES.

TOPICS OF INTEREST TO THE PLANTER, STOCKMAN AND TRUCK GROWER.

Forage Plants in the South.

The Canebrake Experiment Station, located at Uniontown, Ala., has just issued an important bulletin on forage plants for the South. It would be well for farmers who are interested in questions relating to forage plants to write to Professor J. M. Richeson, at Uniontown, or to Professor J. F. Duggar, at Auburn, Ala., Director of the Experiment Station, for a copy of this bulletin.

The experiment station at Uniontown is located on an upland prairie soil, known as the canebrake. On this land alfalfa sown March 20, gave three cuttings of hay the same season, and would have made a fourth cutting had it not been for an untimely drouth in the fall of the year. Both Amber and Orange sorghum made enormous yields of fodder, and furnished two cuttings each. The Orange sorghum grew larger and made more fodder, but the smaller stems of the Amber sorghum made it more desirable than the other for forage. Sorghum led all of the forage crops in yield. Kaffir corn was not successful as a fodder crop. The same is true of pearl millet and teosinte. German millet did well, and is recommended for sowing with late sown cowpeas, thereby making the hay easier to cure.

One very important result of these experiments at Uniontown is the high yield of soy beans as compared with cowpeas. The writer has often suggested the advisability of giving the soy beans a trial in the Southern States, for the reason that when varieties of it are secured that are adapted to local conditions, it is a very large yielder, making at the Uniontown station thirty-four bushels of seed per acre, and it stands up so as to be easily harvested. The seed can also be saved at much less expense than is the case with cowpeas, and it is said to make good feed for cattle and hogs, though on account of its richness in nitrogen it should be mixed with such carbonaceous feeds as corn, Kaffir corn seed, etc. Upland rice would also be a good thing to mix with the seed of soy bean.

The hairy vetch proved a valuable plant for winter pasture. The Dwarf Essex rape was another plant which succeeded very well, and is recommended for hog pasture.—W. J. Spillman, Agrostologist, United States Department of Agriculture.

Anthracnose of the Bean.

This disease appears upon the bean in deep, dark pits. It very materially diminishes the amount of marketable beans. It spreads rapidly among the collected beans in the market. It is caused by the appearance of a fungus to be found upon the pods of beans. It is able to live through the winter, which it generally does in the bean itself. When the infected seeds are used they will either not grow at all, or, if they do grow, they will spread the disease to plants otherwise healthy. It is therefore of great importance to the grower that he does not at all allow these seeds to be planted, as in this way only can the disease be successfully combated. The infected seeds have a shriveled and discolored appearance by which they may be usually distinguished from the good seed. They should be rejected and only such seeds as are sound should be used for planting. Some successful experiments have been made in treating the seeds before planting. The seeds before planting should be soaked for an hour or two in a solution of three ounces of carbonate and one quart of ammonia to four and one-half of water. The plant will then be generally free from anthracnose. But plants from diseased seed not so treated will be sure to have anthracnose to a greater or less extent. It is very easy for one to use this solution, but it should not be stronger than indicated, as it may thus very easily be rendered dangerous to the seeds.

If the disease should still appear after planting, when these precautions are taken, perhaps the best remedy is to destroy the plants which are affected, and thus prevent its further spreading. If it becomes very destructive in its attacks one can hardly be too vigorous or too severe in his method of eradicating it.

Swine-Breeding in the South.

In the matter of climate the Southern farmer possesses a great advantage over his Northern neighbor in the profitable pursuit of hog raising.

While at the North one litter a year is the rule, owing to our mild winters two litters a year can be raised, and three each alternate year is a possibility. Grass, a very important ration in profitable swine breeding, holds out much later in the fall and comes much earlier in the spring with us.

Owing to our mild Southern winters shelters are much more easily and cheaply constructed.

Many sections of the middle South abound in many varieties of mast-bearing

ing trees, affording a great range for hogs, and obviating the necessity of feeding for several of the worst months in the year.

Furthermore the cured product finds a ready market right here at home, it being a well-known fact that Chicago's best market for her bacon is right here in the South.

Many of our Southern farmers already have awakened to this fact, and are turning their attention to hog raising, and within the present decade many more will have engaged in this profitable pursuit. In the State of Texas, for instance, there is a general spread of enthusiasm on the subject of swine-breeding, and many meetings have been held and organizations formed for the fostering of this industry. At Fort Worth two large packing plants have already been in operation several years.

All this is as it should be. Stock and crop growing should go hand in hand, and would you expect to find a prosperous and intelligent farming community go to that section where diversified agriculture is carried on.—Southern Agriculturist.

Why Peas Improve the Soil.

It is only the leguminous (pod-bearing) class of plants, such as peas, beans, the clovers, alfalfa, peanut, vetches, etc., that can use this free elementary nitrogen as it exists in the air, in their growth. On their roots will be found nodules, warts, or tubercles, and in these are large numbers of micro-organisms (minute forms of life, which can be seen only with the aid of a microscope), which have the power to put the free nitrogen of the air into such forms or combinations that these plants decay in or on the soil, through the nitrogen which they collected, through the aid of the micro-organisms, from the air is left in such condition that other agricultural plants can use it, and in this is the explanation of the improving and enriching power of the pea or similar crop. The cowpea takes nitrogen from the air, which most plants cannot do, and adds it in the decay of its roots and tops to the supply of combined nitrogen in the soil, while corn, cotton, oats, the grasses, etc., have to depend on the nitrogen already in the soil, or that which is supplied in the fertilizers and manure, or added in the leguminous crops. The importance of a full understanding of the foregoing fact and its meaning to improved agriculture cannot be too well understood.

We have thus discussed what is known as the free, uncombined or gaseous nitrogen of the air, the original and greatest of all sources of nitrogen. It can only be used first hand by one class of agricultural plants. The farmer should get all he can of this valuable and costly fertilizer constituent through these plants.—Progressive Farmer.

Weed Out the Scrubs.

Professor Soule, of the Tennessee Station, says in this farmer's bulletin (No. 186) that moderately good beef cattle, crossed with an improved strain of stock, should dress at least sixty per cent.

That scrub animals will waste large amounts of the farmer's feed stuffs is shown pointedly in a feeding test conducted at the Tennessee Station. A bunch of animals of good breed and antecedents were fed for beef and gained two and a half pounds per day, while so-called "scrubs" under the same conditions gained only one and one-half pounds per day, a difference of one pound per day. The effect of breeding, blood, conformation, etc., are instanced in another feeding test where certain beef steers gained only forty-five pounds in sixty days, while others under similar conditions gained 125 pounds in the same period. Which goes to show that it does not pay to feed a poor animal. Weed out the scrubs.

The Purpose in Training.

To secure a tree of a beautiful shape or symmetrical figure is the secondary object in training. One primary object is to supply a sufficiency of sunshine and fresh air to the leaves of the growing plant. The air moves in all directions, but the sunshine comes principally from only one side. And therefore, other things being equal, that tree is best trained which throws least shadow upon itself.

Another object of training is to secure an even distribution of sap throughout the branches. The principle upon which this operates is that the sap flows most easily through the upright branches. If a branch grows too slowly its rates may be increased by turning it upward. Similarly, the over luxuriant branch may be checked by being turned downward.

The tree should also be kept in equilibrium as to weight by a careful pruning and training.—R. D. Carmichael, Hartselle, Ala.

Minor Mention.

Statistics compiled by the Zemtvos of forty-nine provinces of European Russia showed that 891,000 peasant families, representing a population of perhaps 7,000,000, had only nine acres of land to the family, and that 2,219,444 peasant households, representing a population of about 18,000,000, had only twenty-one acres each, although hundreds of thousands of such households consisted of from eight to twenty-five members.

News of the Day.

In 1903 New Orleans exceeded New York by more than 1,000,000 bushels in the exportation of corn and wheat. New Orleans is now second of the country's cities in aggregate exports, ranking next to New York. Galveston was the fourth city in exports in 1903, exceeding all the country's Atlantic ports except New York and Boston. In 1904 it has passed Boston.

WHOLE SOUTH ENDORSES RHEUMACIDE

Thousands of cases of Rheumatism in the Southern States have been cured by Rheumacide, many of them after doctors and all other "remedies" had failed. So remarkable has been its record that it is now recognized as the

ONLY ABSOLUTE CURE FOR RHEUMATISM.

Here are five testimonials selected from hundreds of letters written to the proprietors, the Bobbitt Chemical Co. of Baltimore, by grateful patients who have been cured of severe cases by the remedy that "Gets at the Joints from the Inside."

MARYLAND.

Baltimore, Feb. 6, 1904.
Three years ago I was attacked with inflammatory rheumatism. During that time I suffered excruciating pain, principally in my lower body. My joints were stiff, swollen and inflamed. I could not straighten my limbs. Your wonderful cure—Rheumacide—was recommended to me, and I began to take it according to directions. In a short time I experienced the greatest relief. The soreness and stiffness was soon gone, and I certainly feel thankful. Rheumacide has done me more good than all the other medicines and doctors' prescriptions which I tried. I found that Rheumacide acted well on the kidneys and bowels, and I believe it will cure any case of rheumatism or blood disease. I now have perfect use of myself, and can work and walk as well as ever, and I attribute my cure entirely to the use of Rheumacide. My friends and neighbors marvel at the great change in my condition. Without solicitation, I send you this testimony of my own accord, and will cheerfully recommend your medicine to all who may write or call on me concerning this letter and the benefit I received. I am a widow, and reside at the address given below. Yours thankfully,
MRS. MARY BATES WEBB,
No. 407 W. Saratoga St.

VIRGINIA.

Norfolk, Va., Feb. 1, 1904.
I must write and tell you the benefit your medicine has been to my mother. She is an old lady, 78 last January, and has been so crippled with rheumatism that she could not walk a block without great suffering. One morning I saw your advertisement, and sent for a sample, and persuaded her to take it. I think the second or third dose began to do her good. After she took that I got her a large bottle, and she has continued to improve right along, and gets around as spry as a young woman. She is so glad that Rheumacide cured her that she tells all her acquaintances about it, and if she hears anyone complain of a pain, she tells them they must surely try Rheumacide. Respectfully,
MRS. F. M. SCARBOROUGH,
No. 310 N. Marshall Ave.

NORTH CAROLINA.

Raleigh, N. C.
I purchased a bottle of Rheumacide for a relative of mine who had been a great sufferer from rheumatism. For nearly a month she had not been able to walk without great effort and pain. In two weeks after she commenced taking Rheumacide she was able to walk, and in a short time had entirely recovered. I congratulate you on this great remedy, and trust all suffering with rheumatism may find in it similar relief.
N. B. BROUGHTON.
After being completely cured, I consider Rheumacide the only specific for rheumatism.
MARCELLUS RAND,
Banks, N. C.

SOUTH CAROLINA.

Greenwood, S. C.
Having been a sufferer with inflammatory rheumatism for 20 years, about a year and a half ago I was taken with a very severe attack, and my limbs were so swollen it was impossible for me to walk. After using one bottle of RHEUMACIDE I was entirely cured, and I have since recommended it to all my friends.
A. MCN. TURNER,
City Hotel.

Afflicted with rheumatism for more than 15 years, I was induced to try Rheumacide, and it has entirely cured me of rheumatism.
T. S. WILLIAMSON,
Doverville, S. C.

Among the cured: Col. G. B. Alford, Holly Springs; R. A. Lomax, Goldsboro; D. M. Albright, Mt. Airy; W. G. Perry, Lexington; Rev. J. L. Foster, Raleigh; B. A. Johnston, Winston, and hundreds of others.

"Gets At The Joints From The Inside."

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"BEGINS WORK WITH THE FIRST DOSE."

An Incurable Dog.

The intelligence of the dog suffered somewhat by an Athens narrative in which it is made to appear that an old dog owned by F. Holcomb recently engaged with a rattler on the low grounds near the town, and was severely bitten. Mr. Holcomb was familiar with the formula for snake bites. He had some of the medicine on hand, consisting of whisky and quinine mixed in quantities to suit. Opening the dog's jaws he turned a liberal dose down him. Two or three days elapsed during which the animal was unable to walk straight, yet he seemed not to have any pain, and in fact appeared to enjoy himself. But at last he was sober again. One would naturally think that having been bitten once he would have fought shy of the swamp afterward, but the moment he was able to navigate he was back among the boys again watching for more snakes. This is why he seems unintelligent.—Detroit (Mich.) Tribune.

Health Commissioner Darlington, of New York, in speaking of the alarming increase of pneumonia, says the prevalence of the disease is due in a large measure to expectoration in public places. Only another argument in favor of the enactment and enforcement of anti-spitting ordinances.

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Salzer's New National Oats yielded in 1903 in Mich. 249 bu.; in Mo., 255 bu.; in N. D., 310 bu., and in 39 other States from 150 to 300 bu. per acre. Now this oat is generally grown in 1904 will add millions of dollars to the farmer's purse. Try it for 1904. Largest Seed Potato and Alfalfa Clover growers in America. [A.C.L.]
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Henry Soule, of Pultney St., Hammondsport, N. Y., says: "For eight years I suffered constant agony from kidney complaint. I endured the worst torture from gravel and the kidney secretions were excessive and contained sediment like brick dust. I had to get out of bed from ten to twenty times a night and the loss of sleep wore me out. Indigestion came on, and the distress after eating was terrible. Doan's Kidney Pills effected a complete and lasting cure, and after the symptoms of kidney trouble were gone my stomach began to work as it should. This lasting cure, especially in a person of my age, proves the great value of Doan's Kidney Pills more convincingly than could any words of mine."

Doan's Kidney Pills sold by all druggists; price, 50 cents per box, or mailed on receipt of price by Foster-Milburn Co., Buffalo, N. Y. Write for free trial

A medical journal says that in the continued use of the eyes in such work as sewing, typesetting, book-keeping, reading and studying the saving point is looking up from the work at short intervals and looking around the room. This practiced every ten or fifteen minutes relieves the muscular tension and rests the eyes.

Biliousness

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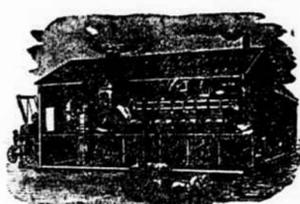
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