



FARM AND HOME

J. E. McINTIRE



SELECTION AND PREPARATION OF THE SOIL FOR SOYBEANS

Soy beans will grow on many kinds of soil, but grows best on mellow fertile loams and clays. They do fairly well on sandy soil that has some lime, this type will produce a large crop of silage, but not many seed. For best development soy beans need a well drained soil. Break the land early and break it deep, following with a thorough disking or harrowing. Have the soil loose for 3 or 4 inches.

INOCULATION OF SOIL FOR SOY BEANS

Soybeans take free nitrogen from the air. When growing the bean on soil for the first time it will pay to inoculate it either by using soil from an inoculated field or one of the commercial cultures. Bacteria is suitable in some sections of the state. Tests prove that an inoculated land shows 50 per cent more nitrogen than an uninoculated one.

SEEDING AND CULTIVATION

Soybeans may be seeded broadcast with a drill or put in rows for seed, use 1-2 bushel of seed per acre. Plant 2 to 4 inches apart in rows, cover with 1 to 1 1/2 inches of soil, do not pack. To broadcast, use 1 1/2 bu. per acre, covering with 1 to 1 1/2 inches of loose soil.

JEFFREY CARTER.

HARVESTING THE SOY BEAN FOR HAY

Harvesting of the soy bean should take place after the pods have formed, and filled out, but before they have fully matured. If left until maturity, the pods will shatter out, and leaves will fall off. There is a rapid decline in the feeding value of the stems of the plant as it reaches maturity. A mowing machine may be used for cutting with side delivery attachment. The vines should be cured in the swath or windrow. Expose the cut vines to the sunlight as little as possible after they have wilted in the swath. This will prevent the leaves falling off. After wilting, rake into windrows, let it remain for a day or so. If the weather has been favorable, they may go in piles and be capped. After remaining several weeks in the sun, the hay may be put into the barn.

Harvesting for Seed

The best time to harvest for seed is when about three fourths of the leaves have fallen and most of the pods are ripe, but before they have dried out too much, and begin to pop out. If left too long, the pods will scatter out while being cut. Therefore, if one of the commercial bean harvesters is to be used, they should be dry. If the plants are to be sent through a thresher later, they should be cut when slightly moist with dew.

Soy Beans for Soil Improvement

For improving the soil, the soy bean is of real value, but when it is removed, the soil is not in as good condition as it would have been if cow peas or clover had been planted. It has been estimated that the value of the bean when applied as green manure is \$2.44 per ton, as from 6 to 10 tons of green matter will be produced per acre, it can readily be seen what value this crop possesses for soil improvement. The estimated value of the soy bean as fertilizer is \$11.64 per ton. Soy bean seed contain 5.30 per cent nitrogen, 1.87 per cent phosphoric acid, and 1.99 per cent potash. Each bushel of

soybeans will be found to contain 75c worth of fertility.

Soy Beans for Soiling Purposes

For stockmen and dairymen soiling crops has become important. They have a high feeding value, and generally produce good results when fed properly. Planting at different dates, a succession of green forage may be secured for six to eight weeks, during the latter part of summer and early fall. Ten tons of green rich feed should be secured per acre. For soiling purposes the cutting should begin at flowering and may continue until the pods are three quarters grown,

WADE DAVID.

BIG YIELD OF HAY

Last Spring W. N. Pitts sowed three and one-half acres of land on his farm with Fulghum oats and Kobe lespedeza. It grew finely and the hay was cut, cured, baled and weighed. Mr. Pitts found he had seven tons, a yield of two tons per acre, which is some hay. The seed were bought in Zebulon from P. F. Massey's store.

ADVANTAGES TO THE SOY BEAN FARMERS

Due to their disease and insect resistance, soybeans are working their way to the top with other money crops. The soy bean can be grown with little cultivation and preparation, which lowers the cost of production. Among the oil bearing crops grown with greatest ease this bean ranks first. Its uses are numerous, and are increasing yearly. As its uses increase, so it is with the price trend.

The possibilities are brightened by its many uses. The bean may be grown almost anywhere. The roots, stalk, and bean are all utilized. The leguminous roots improve the soil. The leaves and part of the stalk are used for feeding livestock. In some countries, the stalk is used for fuel. In addition for being used for reproduction, the seeds have many uses which are included in the list below.

The plant proper is used for fuel, hay, silage, and soilage. Included in the uses of the bean are: meal, from the meal are manufactured celluloid substitutes, glue, fertilizer, plastics, water paints, and human foods, including: beer brewing, flour, seasoning powders, soy sauce and vegetable milk.

The uses from the oil are numerous and varied, a few being: candles, disinfectant, electrical insulation, enamels, food products, fuel, glycerin, insecticides, lubricants, oil cloth, paint, printing ink, rubber substitutes, soaps, varnishes, waterproofing, and lecithin, which includes, candies, chocolate, coco, emulsifier, margarine, medicines and textile dyeing.

The green bean may be canned, frosted, used as a green vegetable and salad.

Among the many uses of the dried bean are: baked, boiled, breakfast foods, feeds, flour, and from the flour comes: diabetic foods and health drinks, ice cream cones and powder, infant foods, macaroni. From the milk comes casein, condensed milk, foods and powder.

JOHN H. IHRIE, III

SECRETARY NAMES COMMITTEES TO REVIEW QUOTA

Committees made up of farmers to hear applications for review

of cotton and flue-cured tobacco marketing quotas in North Carolina have been announced by E. Y. Floyd, AAA executive officer at State College.

The committees, appointed by the Secretary of Agriculture, are composed of a chairman, vice-chairman, one other member and an alternate. Each committee will serve a county.

The establishment of review committees is authorized under the marketing quota provisions of the Agricultural Adjustment Act of 1938. It will be their duty to pass on applications for review of cotton and flue-cured tobacco marketing quotas, when properly presented, and to make correction in accordance with the Act should an error be found in the quota originally established for a farm.

The review committees in Wake, Johnston, Nash, and Franklin counties are composed of:

Wake—Kyle Harrington, R. 1, Broadway, chairman; W. T. Temple, Sanford, vice-chairman; S. H. Broadwell, R. 2, Angier, member; and E. W. Paschal, R. 3, Sanford, alternate.

Johnston—Russell Powell, R. 2, Raleigh, chairman; Kyle Harrington, R. 1, Broadway, vice-chairman; L. N. Rouse, R. 1, Holly Springs, member; and S. T. Davis, R. 2, Wendell, alternate.

Nash—R. Hunter Pope, Enfield, chairman; Robert Lee Corbett, Macclesfield, vice-chairman; H. G. Shelton, Speed, member; R. D. House, Scotland Neck, alternate.

Franklin—W. E. Turner, R. 2, Henderson, chairman; W. F. Woodruff, R. 1, Nashville, vice-chairman; C. J. Matthews, R. 2, Nashville, member, and A. S. Bugg, Warrenton, alternate.

BRIEF NEWS ITEMS

The value of crimson clover in improving the water holding capacity of soil has been demonstrated by F. A. Earnhardt of Concord, route 3, for the past two years. Cotton planted after the clover has withstood the dry weather without losing its fruit or leaves.

Lespedeza and superphosphate makes an excellent combination for corn, says B. F. Byrd of Swain county, who finds his crop following these two is 100 per cent better than it was before he applied the phosphate and grew the lespedeza.

SOW CABBAGE SEED

Cabbage seed may be sown in an outdoor bed for the early spring crop as early as October 1 in the tidewater and lower coastal plain section. For the upper coastal plain and lower piedmont section the earliest date is September 16. For the western part of the state, seeds are usually sown in cold-frames during January. In eastern and central North Carolina the frost-proof Jersey Wakefield and Charleston Wakefield varieties are the best.

PARADICHLOROBENZENE TO CONTROL BORERS

The treatment should be applied about the first of October in Western Carolina and about the middle of October in the eastern section. The crystals should be applied in a continuous band about an inch in width and care should be taken that the chemical should not be closer than one and one-half inches from the tree trunk. Smooth the surface about a foot from the tree before applying the crystals.

Several shovels of dirt should be placed on the ring in the form of a mound and packed down with a shovel. One-fourth to one-half ounce should be used for trees four to six years of age and one ounce for trees six years old or older.

SUPPLY OF PHOSPHATE

The AAA will not be able to accept any more orders for phosphate to be used this year in connection with the agricultural conservation program, E. Y. Floyd, AAA executive officer at State College, has announced.

Farmers in North Carolina and other States, showing a growing interest in soil improvement, have asked for more phosphate than the AAA will be able to secure from the Tennessee Valley Authority and other manufacturers.

Orders for 650 tons have been filled so far in this State, and an additional 300 tons can probably be delivered by the middle of October on orders that have been accepted already.

No more orders can be placed this year. Nevertheless, farmers who wish to apply phosphate to their legume crops and pastures in earning AAA payments can do so by purchasing the material from local dealers.

Under the agricultural conservation program, arrangements had been made for supplying growers with phosphate at a low cost and deducting a small amount from their AAA payments. The farmers responded to such an extent that there is not enough phosphate to supply the demand through

AAA sources.

Growers who don't buy phosphate this year can earn their conservation program payments by carrying out other soil-building practices such as seeding Austrian winter peas, vetch, and crimson clover.

LOUISBURG COLLEGE OPENS

Monday, September 5, was set for the arrival of freshmen at Louisburg College. On Sept. 7 the second year students arrived and when the registration was completed 390 had registered. The total registration will run over 400 within a weeks time.

Of these students 231 are Methodists; 91, Baptists; two, Catholic; 11 Episcopalians; 15 Presbyterians; seven belong to the Christian Church; one to the Lutheran Church; and 32 have no church connections.

The president of the college and the registrar report the outlook to be the best that Louisburg College has had in the century and a half of her history.

The first chapel was held at 9:30 o'clock on Thursday.

On Tuesday evening at 8 o'clock the faculty of Louisburg College received the freshmen in the faculty parlor.

On Saturday evening a picnic supper was served to faculty and students of the college by Miss Lydia Deyton, the college dietitian. This supper was served on the North campus and was a most delightful occasion.

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11:17 A. M. Lv. Elizabeth City	Ar. 3:02 P. M.
2:06 P. M. Lv. Washington	Ar. 11:50 A. M.
3:07 P. M. Lv. Greenville	Ar. 10:52 A. M.
3:32 P. M. Lv. Farmville	Ar. 10:18 A. M.
4:27 P. M. Lv. Wilson	Ar. 9:25 A. M.
5:26 P. M. Lv. Zebulon	Ar. 8:25 A. M.
5:36 P. M. Lv. Wendell	Ar. 8:15 A. M.
6:20 P. M. Lv. Raleigh	Lv. 7:30 A. M.

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