true with animals.

that he can test out thousands greatly

nal breeder is testing out doz-

has far more opportunity of dis-

covering valuable new productive

Plant Breeding Methods.

The scope of this paper will no

plant breeding methods, how-

ever, I will say that the seed o

plants are tested out each year in separate rows, the seed of a

ows are again tested out against

each other the following year and

several, of these producing high quality and great yield during

the two preceding years are again

tested out the third year and the

during the preceding

and distribution. This

ourth year the one with the bes

three years is selected for fina

being applied to cotton, tobacco

eral other crops with significant

Every intelligent farmer should

visit some plant breeder from

time to time so that he may be

come familiar with this most im-

portant means of increasing farm

profits. If you will visit us

thousands of rows of cotton several varieties; each row plant-

In July we can show

ising new strains.

which will be found many prom-

tests of tobacco. Although w

value of different varieties

Governor Gardner.

You are fortunate in

group of the highest

w me to go into the details

Pellagra.

farmer could produce in abund-

The Balance of Trade.

conditions in order to pay for au-tomobiles, gasoline, radios, silk

stockings and cigarettes besides

present

Although this country

Presents to Farmers Some Essentials For the Restoration of Prosperity to Carolina Agriculture

By DAVID R. COKER.

Fellow Carolina Farmers, I am very much afraid that many of you have come here today under than twenty tons of a palatable. you have come here today under a misapprehension. Some kind of food? It is not difficult to raise friend has circulated a report that I produced four thousand bales of cotton on four thousand acres last year. With reference to selected and a good variety used that story I am very much in the position of the old negro who was accosted by a traveling man difficult to keep a crop of sweet who asked him to change a five potatoes if they are properly dollar bill. The old fellow took cured out as soon as dug and off his hat and bowed politely nearly every farmer in this secyour money but I thanks you for the compliment." During the past the compliment and distress that the complement is a solution of the complement in the comp two years we have had distres - good winter and spring market ing conditions in an area of four for potatoes, especially in a man-or five counties in eastern South ufacturing section. You need not Carolina. Only one farmer in that area that I know of has succeeded in making as much as one hundred bales on one hundred bales on one hundred bales on the bales of the bales hundred can be produced for less than 25 acres in that time and that was on one of our farms managed p.7 Mr. George Wilds, our head plant breeder, who produced one hundred and fifty, five hundred ble but valuable turnip and dozen pound bales on one hundred and ens of other health giving gar-forty-three acres. My section has been visited by such storms and excessive rainfall in these two years that few farmers have pro-duced even half their norms: food crops, however, without callyields. The rainfall at Hartsville ing your attention to the fact last year was a little over seventy-two inches and for the year greatest list of valuable food preceding practically the same.

If any of you are here for no other purpose than to hear me tell how I raised four thousand to be a control of the same.

If any of you are here for no other purpose than to hear me tell how I raised four thousand to perfection here but that nevertheless a large proportion of bales of cotton on four thousand. bales of cotton on four thousand our farm population is poverty acres you may now retire and stricken and are subsisting on

lacres you may how retire and stricken and are subsisting on such a limited and ill balanced that story.

I have been invited to Selma to speak to — today upon the essentials of successful cotton production but I am taking the liberty of broadening my subject and will attempt to outline to you what I consider the main essentials of agricultural success.

I stricken and are subsisting on such in such a limited and ill balanced diet that thousands are afflicted with pellagra. Without knowing the facts I will venture to guess that you have several hundred cases of pellagra right here in Johnston county (there are only a few counties in North or South Carolina which have fewer than one stalk per foot on any soil. Cotton should be thinned when three to six inches tall and great care should be taken to leave a sufficient stand. Immediately after chopping, an appliessentials of agricultural success one hundred cases). Fresh meats, milk and vegetables, which every

based largely upon cotton and ance, will drive away this curse. tobacco I must spend a considerable part of my time in disever, I would like to say in the beginning that I believe that few exist without cotton and tobacco and large sections did not only exist but prospered a hundred farmers can make a conspici-ous and permanent success if production of either, we they devote their time and acreage exclusively, or almost exclu- ing these crops under sively, to these so-called "money

One great trouble with the ag- the vast amount of food and riculture of the eastern South today is that it is not properly balday is that it is not properly ball-anced between food crops, feed crops and livestock on the one hand and the so-called money crops on the other. So I believe that the only sound basis for mortgaged our farms to pay for this things we could have done with-out or could have raised at general section lies in a sound out or could have raised at and sane diversification proand sane diversification program. Such a program will involve the production of some livestock and poultry on every farm; the raising of practically all of the food consumed by the mentioned say two and a half farm animals; the production of some mentioned say two and a half farm animals; the production of the food for the farm with the same of the food for the farm with the south Carolina farmers, especially as recent experiments in many places indicate that there were the control. I have devoted a large proportion of mylling up year by year an enough of the food for the farm with the cotton plant, but never plow deep after cotton begins to fruit.

We now come to the proposition of weevil control. I have devoted a large proportion of mylling up year by year an enough of the food for the farm with the cotton plant, but never plow deep after cotton begins to fruit.

We now come to the proposition of weevil control. I have devoted a large proportion of mylling up year by year an enough of the cotton plant, but never plow deep after cotton begins to fruit.

We now come to the proposition of weevil control. I have devoted a large proportion of mylling up year by year and south Carolina farmers, especially as recent experiments in many places indicate that there are several varieties producing these lengths which are fully as productive as any of the shorter varieties. most of the food for the farm family and farm laborers; the improvement of the soil by animal manures and rotation with leguminous crops and the growing of the main money crops only on soils in a good state of tilth.

million dollars per year, thus pilling up year by year an enorgance which is being largely carried on farm or factor which will produce maximum yields under weevil conditions. I have come to a few very definite conclusions on weevery definite conclusions on weensumption at home of greater will control. The most important by the produced by the production and consumption at home of greater will control. The most important by the produced by the production and consumption at home of greater will control. The most important by the produced by the production and consumption at home of greater will control. The most important by the production and consumption at home of greater will control. The most important by the production and thought during the past fifteen years to studying this problem and breeding varieties.

All of these new and desirable contons have been produced by scientific plant breeding. All of these new and desirable contons have been produced by scientific plant breeding.

at least equal importance in the economics of the farm. I have no regrets as to the time extended upon them. I will not go into great detail, however in discussing these crops. The soy bean which I presume is well known all over this section is, I believe, our greatest combination plant. We have got to reduce our cotage and soil improvement. The velvet bean is a close second.

Produce Acreage.

We now come to a discussion of a mixture of calcium armolasses and water two four times to the young cotation of a mixture of calcium armolasses and water two four times to the young cotation of an intervals of five to seven days beginning when the first small squares appear. We mix one pound of calcium armolasses. We have got to reduce our cotage very materially if we have got to reduce our cotage.

We now come to a discussion of a mixture of calcium armolasses and water two four times to the young cotation of a mixture of calcium armolasses and water two four times to the young cotation of a mixture of calcium armolasses and water two four times to the young cotation of a mixture of calcium armolasses and water two four times to the young cotation of a mixture of calcium armolasses and water two four times to the young cotation of a mixture of calcium armolasses and water two four times to the young cotation of a mixture of calcium armolasses and water two four times to the young cotation of a mixture of calcium armolasses and water two four times to the young cotation of a mixture of calcium armolasses and water two four times to the young cotation of a mixture of calcium armolasses and water two four times to the young cotation of a mixture of calcium armolasses and water two four times to the young cotation of a mixture of calcium armolasses and water two four times to the young cotation of a mixture of calcium armolasses and water two four times to the young cotation of times purpose to be the application of a mixture of calcium armolasses and water two to four times to the young cotation of times purpose to pour c at least equal importance in the

soils in this nutritious food crop. We should not hear so much about destitution and semi-star-vation among farm tenants, farm laborers and some farm families as well if every farm owner would see to it that there was attached to each crop a patch of cow peas, one of sweet potatoes and a well kept garden of at You need not try to find any expectations. The recent average forward bending over the cotton plants and smearing the tops and under sides of the leaves thus ably under one third bale per gatting some molasses on every acre which means that about plant. This is extremely important the operator then walks rapidly to operator then walks rapidly the operator the operator then walks rapidly the operator then walks rapidly the operator the operator then walks rapidly the operator then operator the operator that the operator then operator then operator the operator than the operator that the operator than the ope

cow peas, one of sweet potatoes and a well kept garden of at least one quarter acre.

The Sweet Potato.

Although the sweet potato is universally known throughout this section and was a staple food of the aborigines I do not believe that the majority of our farmers fully appreciate its possibilities or utilize it as they should under our present distressed agricultural conditions. I have with me a report of the South Carolina sweet potato contest of last year and of the one hundred and seventy contestants who passed in completed records only two reported a net loss and on the potator of the species of southern of found the sweetened poison fully and we have not foun

After providing simple acreage for food and feedstuffs, including a large and fertile garden spot the farmer should select as much (but no more) of his good land as he can properly fertilize, tend and manage for his other crops For cotton the soil should be wel prepared and laid off in row: about three feet wide. He should put down in furrow fifty to hundred pounds of three hundred bushels of sweet acid (equivalent of three to six potatoes per acre (which is nine tons) if the right sort of soil is hundred pounds of acid phos-phate), fifteen to twenty pounds of ammonia (equivalent of one seventy five pounds sulphate of fifty pounds cotton seed meal and twelve and a half to twenty-five pounds of potash (equivalent of one hundred to two hundred pounds kainit or twenty five to fifty pounds muriate or potof different soils vary greatly according to the type of soil and its previous treatment and your county agent should be asked to advise you on this subject. Your fertilizer should be thoroughly I could take the balance of stirred in the furrow with a small sweep or shovel before bedding. It is advisable to put fertilizer down ten days to three weeks before be settled by rains before planting. You should know that per-cent of germination of your standard germination. A dray or light harrow should be run over seed put in one to two inches insure prompt germination. It is

diately after chopping, an appli-cation of fifty to seventy five pounds of nitrate of soda should be made and upon lands inclined to rust an equal amount of kainor manure salts should be added. Two other applications total-ing for the three applications one hundred and fifty to two hundred where necessary the same amount

of kainit or manure salts) should be put down at intervals of ten days to two weeks. Cotton should be cultivated lightly as soon as practicable after every rain and up to the middle of June it is advisable to keep down open mid-dles in the cotton by the use of feedstuffs which we insist on buying from other sections. The shovel plows, for the purpose of

The cultivation of cotton should

be continued as long as a mule and plow can pass through the rows without serious damage to affords a big opportunity to North

the main money crops only on soils in a good state of tilth.

Grain and Forage Crops.

I have made during my long experience as a farmer almost as close a study of the grains and legume crops as I have of cotton and considering them as I do, of and considering them as I do, of the grains and considering them as I do, of the grains and legume crops as I have of cotton and considering them as I do, of the grains and legume crops as I have of cotton and considering them as I do, of the grains and legume crops as I have of cotton and considering them as I do, of the grains and legume crops as I have of cotton and considering them as I do, of the grains and legume crops as I have of cotton and considering them as I do, of the grains and legume crops as I have of cotton and considering them as I do, of the grains and legume crops as I have of cotton and considering them as I do, of the grains and legume crops as I have of cotton and considering them as I do, of the grains and legume crops as I have of cotton and considering the most important amounts of food, by the production and considering them of greater vil control. The most important amounts of food, by the production and considering them as I home of greater vil control. The most important amounts of the most recent beginning is kept up and reflected constantly into production by annual distributions of the most recent beginning is kept up and reflected constantly into production by annual distributions of the most recent beginning is kept up and reflected constantly into production by annual distributions of the most recent beginning is kept up and reflected constantly into production by annual distributions of the most recent beginning is kept up and reflected constantly into production by annual distributions of the most recent beginning in the production of the most recent beginning in the control is to descript types unless this breedamounts of food, by the production of the most important amounts of food, by the production of the most recent beginning

provement. The velvet bean is a close second.

The Cow Pea.

Most of us have greatly neglected the valuable cow pea in recent years and should go back to the system of planting a considerable acreage of our lighter soils in this nutritious food crop.

We should not hear so much we are to receive a profit out of A piece of burlap wrapped around the next crop and we should also the end of a stick, eighteen inhold down tobacco acreage. The other than the end of a stick, eighteen inhold down tobacco acreage. The out all lands which will not produce over one half bale of cotton or seven hundred pounds of tobacco per acre and plant it in soil improving and feed producting erops. The recent average forward bending over the cotton plants.

to crops before early perior individual plants produce August. Where the early poison program is properly carried out, other methods of control are often unnecessary, as the early poisoned crops will frequently in that he can test out thous show very little infestation until of plants each year where the time of general migration from unpoisoned crops, which in ens. The plant breeder therefore section usually takes about the middle of August. After migration sets in it is very diffi-cult or impossible to do effective oning of any kind.

Infestation and Dusting

Every farmer should carefulkeep up with boll weevil conthe season. After squares appear once a week in every field to determine percentages of punctured squares (your county agent will ods of making these counts). If more than ten per cent of the squares are found to be punctured the cotton should be immearsenate. We do not usually ap-(sometimes none). It will system with some variations often be found necessary, however, even with cotton which has corn the small grains and sev poisoned with molasses mixture in early season, to begin dusting in late July or early August. Our experience indicates that frequent dusting with large should be avoided where possible as we have often had serious trouble with plant lice after May we will show you hundred planting seed and plant not less than one bushel of seed germithan one bushel of seed germinating eighty to ninety per cent — more if the seed are sub-tandard germination. mediately consult your county all forms of smit. In Aug agent, who will probably tell you September we can show the beds before planting and the seed put in one to two inches deep at a time when temperature and moisture conditions will and lime, which he can instruct ed from the seed of a you how to prepare and apply.

Varieties and Lengths. During the past few years several varieties of cotton have ily in early season and usually make heavy yields, even in bad have been carrying on this worl boll weevil years if proper weevil for but two years we have dis control methods are used. Thes cottons, besides having demonstrated their ability to yield and have also found in the best heavily, have a staple averaging varieties, individual plants which from a full inch to an inch and produce much better yields and one sixteenth, which lengths are better quality than the average greatly desired by North and of the selected plants. In a plant South Carolina mills. Circular to-row test of the seed of differ-Number-42 of the Agronomy De- ent plants from one variety the partment of your State College highest yielding strain produced announces that in 1928 seventy- fifty five dollars and thirty fou nine per cent of the cotton pro-duced in North Carolina was next highest strain. seven-eighths inch or shorter and that during that year the mills of the state used only thirty per Carolina in having a governo cent of these lengths. Only twen- who thoroughly understands the y per cent of the cotton produc- underlying principles of success in the state that year stapled ful agriculture and who is exert fifteen sixteenths to one and ing himself in seeing that thes three thirty seconds while the principles are applied as widely mills used sixty one per cent of as possible. Your cooperative a these lengths, being forced to im- sociation is also extremely port these cottons from the wes- tunate in having as its officer tern part of the belt at an aver-age freight rate of seven dollars profit per acre is the goal which per bale. The production of cot-ton averaging from one to one

Produce Acreage.

for this purpose to be the appliwe now come to a discussion cation of a mixture of calcium arfarm crops has been one of the

effective after cotton begins in animal breeding the best of blooming.

Late Poisoning.

The few weevils which will survive will begin their work three or four weeks late and their progeny will not do any serious groups as an effective after cotton begins in animal breeding the best of the cotton growers in this paper.

The few weevils which will survive will begin their work three or four weeks late and their progeny will not do any serious groups as an effective after cotton begins in animal breeding the best of these men realize that standard lized varieties of high production in this paper.

Third—the use of an up to date system of fertilization, cultivation and combating the bell weevil.

Fourth—the use and renewal such lands as will make good that surveying as an effective after cotton begins in animal breeding the best of these men realize that standard points I have tried to bring out tooks and feeds.

Third—the use of an up to date system of fertilization, cultivation and combating the bell weevil.

Fourth—the use and renewal such lands as will make good that surveying as an effective after cotton begins in animal breeding the best of the cotton growers in this paper.

There we weevils which will survey with such region. They also realize that standard points I have tried to bring out the curtailment of acresities of money crops, planting only such lands as will make good weevil.

Fourth—the use of an up to date system of fertilization, cultivation and combating the boll weevil.

Fourth—the use of an up to date system of fertilization, cultivation and combating the boll weevil.

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Fourth—the use of an up to date system of fertilization, cultivation and combating the boll weevil.

Fourth—the use of an up to perior individual plants produce with such varieties in general a superior progeny, just as is the state that will turn out The plant breeder, however, has a great ad- smooth and uncut product, their vantage over the animal breeders problems of marketing will

> Southern Deliveries Contract. believe the present Southern which went into effect last fall most continual decline in the cotton market since last sun mer. This contract lacks two of commodity contracts should con-tain and I believe that as long form it will keep the market se eral cents below its legitimat level and will cost the Souther cotton growers many millions of dollars annually. It behooves a who are interested in growin or manufacturing cotton to care ully study this contract and ex

stituted for it one that is as fall the buyer as to the seller. In closing let me summarize th



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Second—the production of more livestock and the growing as ample amounts of food and feed crops to supply the farm and town human and animal populations and thus curtail the terrific will enable us to keep our expensive of many experted for panditures inside our revenues. drain of money exported for penditures inside our revenues

A Message to Senator Simmons' Supporters

In order that we may promptly and efficiently organize the many friends and supporters of Senator Simmons in Johnston County, we desirve an accurate mailing list of every man and woman in our County who expects to

VOTE FOR SENATOR SIMMONS IN THE JUNE PRIMARY

We shall thank every Simmons supporter-men and women-to mail us their name and address and the township in which they live. Please also send us the name and address of any of your relatives and neighbors who will VOTE FOR SENATOR SIMMONS.

We shall thank you to attend to this today so we may complete our township organizations without delay.

Mail your name and address to

Simmons Advisory Committee P. O. Box 516 Smithfield, N. C.



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