### THE LANCASTER NEWS. MARCH 10, 1916

### IMPROVING THE YIELD

# Address of Frank G. Tarbox, Jr.,

ed 1,975,000 acres in corn, pro-ducing 36,538,000 bushels, or an In ducing 36,538,000 bushels, or an average of 18.5 bu. per acre. The state of Wisconsin planted 1,-725,000 acres, producing 69,862,-000 bu. or an average of 40.5 bu. per acre. South Carolina plant- climatized. If the local corn is ed 250,000 acres more than Wis\_ very badly mixed, or is not very consin, and yet made 33,324,000 good then outside corn can be bu. less corn. There are prob- brought in to get a start, but ably several things which cause where possible a local strain such a difference, but those should be selected. We want a which are most important to us variety which will give us the are, the soil, the labor, and the most corn, whether it be a proseed.

make ours, and this one thing and stick to it. is probably the chief reason for the high yields made in that who do their selecting in the state. If we take fertilizers out field. Far too many of them of South Carolina where would take their seed from the crib. our farmers be? Our high yields We must remember that to breed are made by enrichening our good corn, and to make intelli-lands and by the intelligent use gent selections we must deal the past few years are the direct field, as there is the place to we discontinue the use of com- made before a single stalk of mercial fertilizers our state av-erage would scarcely be one half fodder has been pulled. This is

step then is to improve our land. dity and envionment. In mak-Cotton is our money crop, and ing crib selections we cannot tell should be stored in a dry, well strain. And so it is necessary it is but natural for this reason whether the ear is better on ac-ventilated, room out of reach of for us to keep one half of each given to that crop. We cannot whether that particular ear is borrow money on corn as we better because of inherited qual-do it no damage. It is well to yielding ears must be planted in can on cotton. The negro ten-ities. We want those ears, from ant knows it, and so why does the want to put in any extra time on his corn. The result is that the lost is that divertication of the the total of the the total of ting them away, and at inter-vals, if necessary, to keep out row, alternating one given to All selections should be made best land, from stalks frown under the best is cotton, the best land, from stalks frown under the Before planting time each ear the breeding patch be at least must be closely studied and all 40 rods from other corn, in orcotton, the best working, and the most form scales from an energy is the best working, and the most same conditions or as near to it as possible. When we select ears from good vigorous stalks in the field we know that they are good on account of their inherited qualities and not so much on account of their inherited qualities and not so much on account of environment. No set than surprised that our average yield per acre is no larger? Were all of our farmers white, then we could expect to see our yields increased. The state of Wisconsin has no negro farmer to consin has no negro farmer to con- poor stand, will make large ears. sufficient length to spread the to consideration. Enough plants sin has no negro farmer to con-tend with, and they pay more attention to the corn crop, both due to the environment of that these received to the avide variation. Enough plants the ease out in rows should be used. There will be a wide variation to consideration. Enough plants should be selected to furnish suf-ficient ears for the breeding the breeding as well as to seed selection. It more food, more sunlight, and is true that it is more of a sta-ple crop with them than with it will naturally produce larger en type more than possible. us. We should take steps to and better ears. make the negro farmer pay more Improving Corn by the Ear to to be considered. First, true- should have seed for sale. Each necessary we should see that he The importance of selecting gets good seed, plants it on well good seed corn and taking good prepared land, and then works care of it cannot be over estimacob; size and shape of the grain. rows should be selected for the The shape of the ear should be breeding patch. it as it should be. Moisture is the final controll-ing factor in crop production. The conditions will produce straight and with the least ing of one half of each row at ing factor in crop production. matic conditions will produce The most productive soils, no from 10 to 100 per cent. more amount of space between the least all the detasses amount of space between the least all the best way to rows. The length should be of obtain good seed. By this methhighly bred the corn, cannot average famer. Rich lands, make a crop without water. thorough preparation, and good a good average or better. The od we obtain seed which has not South Carolina as a rule has am-ple rain-fall to make a good crop but no soil will produce the best smooth dent rather rough or planted in the breeding patch grains should be wedge-shaped, been crossed by pollen from poor and as it is distributed through of our leading farmers have al- grains give the largest per cent is no chance of pollen from low shrunken. Ears with deep are high yielding ears and there out the season, so will the yield ready leaned to pay more atten-very. We, as a rule, have plenty tion to careful seed selection, are too sharply wedge-shaped w are usually loose on the cob. A glone will do a lot toward inof min and by building up our and have as a result of it insoils we can easily double our creased their yields. few grains should be taken from ceasing your yield but with a present yield. To be able to make the best more are very few varieties selections we must know someof corr in our state, that can thing of the parents of the ears, he main to be well bred. It takes or at least one of the parents. he mail to be well bred. It takes time end to here to be to be to be to be to be to be the best and give them be no one variety predominat-

for years without any effort at

for us to increase the yield of corn in South Carolina. For the past ten years our average yield per acre has been only 16.2 bushels. If this average was taken from our best farmers and our improved land then it would be wuch higher. There have, yields made by members of the corn clubs and others, all of them being made on improved land. To me the question of im-proving our corn yields at pres-ent lies much in soil impovement ent lies much in soil impovement

lific one or not. Once the vari-

Wisconsin has a rich glacial ety is chosen do not change. Desoil, far richer than we can ever cide on the variety, and the type,

There are very few farmers of commercial fertilizers. All with individuals. By this I of the high yields reported in mean individual plants in the result of improved soil condi-tions, and fertilizers. Should crib. All selections should be of what it now is. Our first necessary for two reasons, here-

ing in any one county. In a great most desirable characters. In Now comes the time to test OF CORN. many cases the variety is a lo-cal one, which has been grown larger and more vigorous litters ear should be numbered. The Seed Corn Selection Day, Lan-caster, Monday March 6, 1916. such sections we should develop than others, and the ears from the middle of the such sections we should develop than others, and the ears from the width of the rows and the Improving the Yield of Corn. It is hardly necessary for me to tell you how important it is for us to increase the yield of corn in South Carolina. For the riety of well bred corn. The small

more difficult to pull, as well as the parent ear which was

it has matured.

proving our corn yields at pres-ent lies much in soil impovement as in securing highly bred seed. Our improved soils will make from 35 to 50 bushels per acre now, without any better seed. Our soils, taken as a whole are poor, and unless we fertilized our crop the average yield would be only about one half of what it now is. In 1914 South Carolina plant-In 1914 South Carolina plant- look for good seed for that sec- er than narrow leaves, and ta- ising. At maturity each row pering gradually from the must be gathered separately and ground to the tassel. The shank weighed to see which row yieldshould be of medium size and ed best. Care should be taken just long enough to permit the that each row have the same ear to turn down as the enr ap- number of stalks otherwise one proaches maturity. Tall, weak is liable to misinterpret the retalks should be discarded, as sults. Only the highest yield. the ears on such stalks are us- ing rows are to be saved, and all ually high up, making the corn the cars of the row compared to tored making the stalk more easily away in the spring. As soon as blown down by the wind. An it has been determined which attempt should be made to se- rows gave the most satisfactory lect stalks with ears not more results both as to yield, uni-than shoulder high. One should formity and trueness to type not overlook the suckers. They then those cars from which the produce no corn worth while, seed came must be saved for hey merely use up food and planting, in an isolated place noisture which otherwise could next spring. The others may be to to increasing the vigor of thrown away or the seed saved he stalk and the size of the ear, from the highest yielding rows At least twice as much corn for the general crop.

should be selected than will be The object in saving half of eeded. If the corn is to be cut each ear is on account of the and shocked, or the fodder pull- corn getting badly mixed in the ed, all selected stalks should be field with poorer yielding corn. marked and the corn pulled when One row may yield at the rate of 20 bu, per acre while the row

After the selected corn has right next to it may yield at been pulled and taken to the the rate of 50 bu. per acre. This barn, there is still much to be pollen from the low yielding done. Not only must we see rows will fertilize the plants of that it is taken care of through the high yielding row and so the winter, but each ear must instead of having the high yieldrats and mice, and watched ear until we see how it produces



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between some of the ears, but patch the following year. The by no means vary from the chos- rest of the seed may then be

ness to type, shape, length and year the best ears from the best weight of the ear; size of the plants of the highest yielding

picked over and that from the In examining the ears more best rows planted in the increase

each ear to see if there is any little extra trouble we can get space between the grains of much better results and the har rows near the cob. Those which for taken in detasselling in the have too much space should be preeding patch will pay well for

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