SCIENTIFIC CORN CULTURE.

Darlington Man Makes Important Discoveries--Develops Grain Instead of Stalk.

The following article was written by E. McIver Williamson at the request of the Hartsville Messenger, and fir t printed in that newspaper:

For a number of years after I began to farm I followed the old-time t method of putting the fertilizer all under the corn, planting on a level e or higher, six by three feet, pushing the plant from the start and making a big stalk, but the ears were few and frequently small. I planted much corn in the spring and bought much more corn the next spring, until finally I was driven to the conclusion that corn could not be made on uplands in this section, certainly t not by the old method, except at a loss.

I did not give up, however, for I knew that the farmer who did not I make his own corn never had suc- t ceeded, and never would, so I began to experiment. First, I planted lower, and the yield was better, but i the stalk was still too large, so I dis- for it again. continued altogether the application of fertilizer before planting, and, knowing that all crops should be fertilized at some time, I used mixed fertilizer as a side application and applied the more soluble nitrate of soda later, being guided in this by the excellent results obtained from its use as a top dressing for oats. 3 Still the yield, though regular, was not large, and the smallness of the stalk itself now suggested that they should be planted thicker in the drill. This was done the next year 1 with results so satisfactory that I

produced the year before 1,000 dous rains in May, and the dry and extremely hot weather later. From each yard of row. June 12 to July, the time when it most needed moisture, there was only five-eighths of an inch of rainfall here; yet with \$7.01, cost of per acre. Rows were six feet and corn 16 inches in drill.

With this method, on land that will ordinarily produce 1,000 pounds of seed cotton, with 800 pounds of should be made by using 200 pounds of cotton seed meal, 200 pounds of application as directed above.

On land that will make a bale and one-half of cotton per acre when well fertilized, a hundred bushels of corn your corn has been sufficiently hushould be produced by doubling the miliated you may begin to make the amount of fertilizer above, except that 300 pounds of nitrate of soda to fourteen inches high, and look should be used.

In each case there should be left to look before. on the land in forn stalks, pers,

more compact sail than corn, and acre, and finish breaking out. while a deep soil is essential to its

rows, leaving five-inches balk. When the plant food

In preparing for the corn crop,	
and should be broken broadcast dur-	•
ing the winter one-fourth deeper	
than it has been ploughed before, or	4
if much vegetable matter is being	
third deeper. This is as much deep-	
one year and produce well, though	
it may be continued each year, so	
ong as much dead vegetable matter	
is being turned under. It may, how-	
ever, be subsoiled to any depth by	
following in bottom of t rn plow	
furrow, provided no more of the	
subsoil than has been directed is	
turned up. Break with two-horse	1
plow if possible, or better, with disc	٠
be turned under without having	
been chopped, and in pea vines it	
will not choke or drag.	
Never plough land when it is wet,	
if you ever expect to have any use	
for it again	1

100 - 1	itro- gen.	Phos.	Pot-	Value.
,800 pounds corn (grain)	51	20	11	, ,,,,,,,
00 pounds shucks	5	2	7	
00 pounds cobs	2	0	2	
	_	_	_	
"A" taken from land	58	22	20	
,200 pounds corn stalks	19	3	17	
,000 pounds peas, vines and roots grown in corn	59	16	44	
THE RESIDENCE OF THE PROPERTY		-	_	
Entire crop contains	129	41	81	28 20
Taken from land "A"	58	22	20	12.03
	-	-	_	
Left for next crop	71	19	61	16.23
00 bushels oats and straw will require	78	31	48	
,500 pounds seed cotton and stalks will require	64	17	56	
0 bushels corn, stalks, cobs and shucks will require	70	25	37	

crease the number of stalks and the scooter, following in bottom of this Tall stalks not only will not produce fertilizer, with which to sustain furrow deep with Dixie plough, wing well themselves, but will not allow them, also to apply nitrate of soda taken off. Ridge then on this furrow you to make the pea vines, so necesat last ploughing, and to lay by with same plough, still going deep. sary to the improvement of the early, sowing peas broadcast. This Run corn planter on this ridge, drop land. Corn raised by this method method steadily increased the yield, ping one grain every five or six should never grow over seven and a until year before last, (1904) with inches. Plant early, as soon as frost half feet high, and the ear should be corn eleven inches apart in six-foot danger is past, say, first seasonable near to the ground. rows, and \$11 worth of fertilizer to spell after March 15, in this section. the acre, I made eighty-four bushels Especially is early planting neces- nitrate of soda an essential point in average to the acre, several of my sary on very rich land, where stalks this ear making process. It should He says the hog was the largest ever best acres making as much as 125 cannot otherwise be prevented from always be applied at last ploughing killed in his neighborhood, and that growing too large. Give first work-Last year (1905) I followed the ing with harrow or any plow that same method, planting the first week will not cover the plant. For second stalk, unless a prolific variety is in April, seventy acres, which had working use ten or twelve inch planted and leave a hundred stalks sweeps on both sides of corn, which for every bushel that I expect to pounds seed cotton to the acre. should now be about eight inches make. I find the 6-foot row easiest This land is sandy upland, some- high. Thin after this working. It to cultivate without injuring the what rolling. Seasons were very is not necessary that the plants corn. For fifty bushels to the acre, unfavorable, owing to the tremen- should be left all the same distance I leave it sixteen inches apart; for apart, if the right number remain to seventy-five bushels to the acre,

until the growth has been so retarded, Corn should be planted from four to and the stalk so hardened that it six inches below the level, and laid will never grow too large. This is by from four to six inches above. fertilizer, my yield was 52 bushels the most difficult part in the whole No hoeing should be necessary, and process. Experience and judgment middles may be kept clean until are required to know just how much time to break out by using harrow the stalk should be stunted, and or by running one shovel furrow in plenty of nerve is required to hold center of middle and bedding on back your corn, when your neighbors, fertilizer, 50 bushels of corn per acre who fertilized at planting time and turn plough. cultivated rapidly, have corn twice the size of yours. (They are having acid phosphate, and 400 pounds of their fun now. Yours will come at or until you are familiar with its kainit mixed, or their equivalent in harvest time.) The richer the land application. Especially is it hard at other fertilizers, and 125 pounds of the more necessary it is that the nitrate of soda, all to be used as side stunting process should be thoroughly done.

When you are convinced that ear. It should now be from twelve worse than you ever had any corn

vines and roots, from \$12 to \$16 (this being the first used at all) in unfortunately for us, so much of ours worth of fertilizing material per acre, the old sweep furrow on both sides has been produced, the stalk does besides the great benefit to the land of every other middle, and cover by not naturally grow large. As we from so large amount of the vege- breaking out this middle with turn come South its size increases, at the table matter. The place of this in plough. About one week later treat the permanent improvement of land the other middle the same way. can never be taken by commercial Within a few days side corn in first fertilizer, for it is absolutely impossi- middle with 16-inch sweep. Put all ble to make lands rich as long as your nitrate of soda in this furrow, eliminate this tendency of corn to they are lacking in vegetable matter. if less than 150 pounds. If more, overgrowth at the expense of the Land should be thoroughly and use one-half of it now. Cover with deeply broken for corn, and this is one furrow of turn plough, then sow the time in a system of rotations to peas in this middle broadcast at the deepen the soil. Cotton requires a rate of at least one bushel to the cotton crop and my neighbors and

In a few days side corn in other best development, it will not pro- middle with large sweep, put balance benefit therefrom. duce as well on loose open land, of nitrate of soda in this furrow if while corn does best on land thor- it has been divided, cover with turn not advise a change of seed and oughly broken. A deep soil will not plough, sow peas and break out. method the same year, as you would only produce more heavily than a This lays by your crop with a good not know from which you have deshallow soil with good seasons, but bed and plenty of dirt around your rived the benefit. I have used three it will stand more wet as well as stalk. This should be from June 10 varieties and all have done well. I

and corn should be hardly bunching for tassel.

Lay by early. More corn is ruined by late ploughing than by lack of ploughing. This is when the ear is hurt. Two good rains after crop of corn, and it will certainly make with much less rain than if

The stalks thus raised are very small, and do not require anything like the moisture even in proportion to size, that is necessary for large, sappy stalks. They may, therefore, be left much thicker in the row. This is no new process. It has long been the custom to cut back vines and trees in order to increase the yield and the quality of the fruit, and so long as you do not hold back your corn, it will go, like mine so long went, all to stalk.

Do not be discouraged by the looks of your corn during the process of cultivation. It will yield out of all proportion to its appearance.

Large stalks cannot make large yields, except with extremely favorable seasons, for they cannot stand a lack of moisture. Early applications of manure go to make large Bed with turn plough in six-foot stalks, which you do not want, and

continued from year to year to in- ready to plant, break this out with the ear, which you want, is made.

I consider the final application of and unmixed with other! fertilizers.

I am satisfied with one ear to the welve inches apart, and for one hun-Corn should not be worked again dred bushels, eight inches apart. that, with one or more rounds of

I would advise only a few acres tried by this method the first year, first to fully carry out the stunting process, where a whole crop is involved, and this is the absolutely Revolvers and Bicycles cleaned and essential part of the process.

This method I have applied or seen applied, successfully, to all kinds of land in this section, except river lands and moist bottoms, and I am confident it can be made of great benefit throughout the entire South.

In the middle West, where corn is Put half your mixed fertilizer, so prolific and profitable, and where, expense of the ear, until in Cuba and Mexico it is nearly all stalk. (Witness Mexican varieties.)

The purpose of this method is to yield, in this Southern climate.

By this method I have made my corn crop more profitable than my friends who have adopted it have, without exception, derived great

Plant your own seed. I would to 12, unless the season is very late, have never used this method for late

planting. In fact, I do not advise the late planting of corn, unless it is necessary for cold lowlands.

The increased cost of labor and the high price of all material and land, are rapidly making farming unprofitlaying by should make you a good able, except to those who are getting from one acre what they formerly got from two. We must make our pushed and fertilized in the old way. lands richer by ploughing deep, planting peas and other legumes, manuring them with acid phosphate.

Don't Be Imposed Upon. Voley & Co., Chicago, originated Honey and Tar as a throat and lung remedy, and on account of the great merit and popularity of Foley's Honey and Tarmany imitations are offered for the genuine. These worthless imitations have similar sounding names. Beware of them. The genuine Foley's Honey and Tar is in a yellow package. Ask for it and refuse any substitute. It is the best remedy for coughs and colds. J.W.Bell.

Killing Off the Children.

Two million children in this country have been killed by impure milk and 1,000 babies have succumbed to scothing syrups and pain-killer. This is the estimate of Dr. H. W Wiley, chief chemist of the depart. ment of agriculture at Washington The need for stricter food laws is constantly appearing. Congress, however, seems very reluctant to protect the people by enacting a pure food bill. Canned goods are sold under false labels and poisonous preservations used with impunity and the packers, apparently, wish to have it remain so and influence the people's lawmakers accordingly .- Farm and

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