THE INDUSTRIAL AND EDUCATIONAL INTERESTS OF OUR PEOPLE PARAMOUNT TO ALL OTHER CONSIDERATIONS OF STATE POLICY.

Vol. 15.

Agriculture.

DOES SIZE OF STALK INFLUENCE CORN YIELD

Opinion of a Famous Illinois Corn Grower. Correspondence of The Progressive Farmer.

On the same principle that a cow will not fatten easily, when giving a large quantity of milk, and that unusual mental endowments and great physicial stature are rarely found combined in the same person, a variety of corn given to great stalk that will come in corn breeding durand forage production, does not produce a proportionate quantity of grain. In fact such a variety of largely increased. corn is degenerated by economical mother nature, to conserve its energy | it on by each year planting a special by means of lessened grain production. The production of a stalk of corn is a soil-exhausting process, demanding much of the plant's natural ceding year. Critical selection of vigor. And a variety of corn which not only the year, but the stalk also, produces a very large stalk, invariably does so at the expense of its grain production, the plant's energy crease the grain yield in a geometribeing used up before growth of grain. Luxuriant stalk growth makes the first demand upon the plant's natural vigor. In order to spend liberally on one side, the law of compensation, or balancement of growth, forces nature to economize in some other organ. If excessive nourishment flows to the stalk, it will in consequence be largely developed at the expense of grain-production. The prodigal development of a stalk of corn out of all proportion to the quantity of grain which it produces, shows that it is degenerating from grain production towards more exclusive stalk and fodder produccow to fatten readily who gives much develops a large quantity of grain at the expense of the size of its stalk. of a stalk of corn diminishes its grain- the case. producing capacity. There are but few kinds of cultivated plants that erally grown. Many farmers becan produce two diverse and profit- lieve they will not grow in this able products during one season's latitude, but this is all a mistake. growth. Selecting in the field be- There is a very fine tree within a fore ripe, a medium-sized stalk with block of our State Capitol that is a large ear, has a tendency to breed loaded with nuts every year. down the size of stalk, and to correspondingly increase the size of its be stopped is that of burning corn ear, thereby establishing a grain- stalks, leaves, dead grass, and other producing instead of a fodder corn. quickly-rotting rubbish on our crops will admit of the same principle. The seven-top turnip develop- than they need guanos; and the corn ing an enormous foliage at the ex- stalks, vines, etc., make humus, bepense of the size of its tuber, is a sides returning to the earth much striking example of this. This case fertilizer. being strikingly contrasted in the purple top strap leaved turnip (both who have recently engaged in bee varieties are now growing on my keeping with good prospects of makfarm), developing enormous tubers ing money out of it. Bee culture of fine table quality, much out of pays if you adopt modern methods proportion to the quantity of its and study the business well. Give a foliage. Certain particular soils and studious boy Root's A B C of Bee climates have a tendency to produce | Culture, and if he gets any enthusi-

yielder, and visa versa. Such farmers as may be led through the reading of this article to select their seed corn any autumn, by proportional size, vigor, and healthfulness

of the stalk, storing their seed away in a warm dry, well-ventilated place, will secure a good quality of seed

corn for next year's crop, and will have their grain yield increased at the expense of stalk production. The writer fully believes that with the January.

future great scientific development ing the next 25 years, our average yield and quality of corn will be

patch of at least one acre of corn on eigh in January. their most fertile land, with seed from a like special patch of the pre-

while it is growing in the field will, as the succeeding years go by incal ratio. Try it.

J. C. SUFFERN. Platt Co., Ill.

CLODHOPPER'S TALKS.

THE SCOTLAND ASSOCIATION.

Correspondence of The Progressive Farmer. The Scotland County Farmers' Protective Association met in Laurinburg on Tuesday, the 11th inst., that date having been set for the regular monthly meeting.

The question of building a warehouse was discussed at some length, and continued until the regular meeting on the second Tuesday in

This county is anxious to co-operate with the State Association in organizing this State and also the Inter-State Association. Capt. W.

H. McLaurin, of Laurinburg, was All wide-awake farmers can help elected a delegate to the State Cotton Growers' meeting to be held in Ral-

E. F. MURRAY, Sec'y. Scotland Co., N. C. AGRICULTURAL STATUS OF NORTH CAROLINA.

he too must be educated in his work. Upon the above subject Corresponding Editor Irby, of The Pro- These students are not only anxious gressive Farmer, contributes a very for a college education, but they are readable letter to a recent issue of also eager for the practical instructhe American Agriculturist. We tion that they can obtain at the Colare sure that what he says will be lege. The College offers to the farm of interest to our readers, and we students a regular four years' course therefore copy his letter herewith: leading to the degree of Bachelor of North Carolina is at present at- Agriculture. In this course the stutracting wide attention from the dents get a good college education manufacturing world. Numerous along with the instruction of agricotton mills, wood work and various culture and horticulture. In their other factories are going up over the freshman year they take also the State. Ten years ago nine-tenths of cream of the mechanical course. For her people were farmers, and only those students who have but little one-tenth were engaged in all other | time and money to spend at the Colprofessions. There is a great change lege, there is a two years' course, in progress. Many of those who condensing the most important part were farmers are now turning their of the four year's course into two attention to other industries, and years. there is a large influx into the State of Northern capital and people to de- dents in the State who can spend but ment as I gave them, and also think velop her natural resources. Many a few weeks at college, and for their if they are properly forced they may farmers look upon this change with benefit the 10 weeks course was in- be brought to maturity. Expect to despair. They feel that farming is stituted. In this course the elemen- try them again. My first trial in The law of correlated variation in ment Station show better results in about to play out. On the other tary subjects are taught, and the growing rice was a failure, but when hand, those who wish to farm can most practical lectures are given. In I learned more about the habit of continue the business with every all of these courses practical work is rice, I learned to grow it. The first assurance of success, for whenever a an important feature. In addition test on celery was a success and yet man quits farming and manufactures to their practical work, students are there is much for me to learn in profitably, he is one less in produc- given all the regular work possible growing and the management of ing farm products, and one more on in the barn and on the farm. Thus celery. It takes several trials to bethe side of consumers. From present indications the State | the farm while getting his college | any plant. will be divided very differently in education, and in years to come the One of my neighbors, Mr. Phoenix the next 25 or 50 years. That the result will far surpass the highest sells his lettuce at ten cents per head agriculture of North Carolina is im- expectations of the founders of the or a dollar per dozen and says it does proving goes without saying, with institution. those who contrast the condition of today with that of 10 years ago. Un- by experiment station work. This is heads. It takes much care and atfortunately for the North Carolina not so apparent in individual cases, tention. I did not know until of farmer, heretofore he was limited to but taking it over the whole State, late that lettuce could be grown to his home market in the ordinary for many years, the work shows for such large white heads like cabbage farm products. This State is often itself. It seems a small matter to But I do think some of our good farmcalled a sample agricultural State, as some to teach a farmer to raise five ers can prepare a place and grow it fills about every blank in the agri- bushels of corn to an acre more than such lettuce at a good profit at five cultural Department in Washington. he formerly aid; to teach him to cents per head and make more money Though growing such a variety, it grow a few more bushels of potatoes, than they can on ten cent cotton. excels in very few things. For in- or how to raise hogs for home use. Most of your work and care would stance, we cannot compete with Illi- Individually this would seem of but be in fall and winter after all farm nois in corn, with the West in wheat little benefit, but in the aggregate. and oats, with Mississippi in cotton, with the large number that are innor with Louisiana in rice. In to- fluenced over the State to do these bacco she excels in quality, but the things, the extra profit soon mounts yield is low. Hence the North Caro- up to hundreds of thousands of dol- Sow the seed in August or the early lina farmer has been compelled to lars. Then again, it should be borne days of September and then the depend on the home market for the in mind that when one farmer gets disposition of nearly all his crops. help or instruction, from the experi- your forcing place, so they will be Now if our home demand increases ment station, he acts as a kind of reand the number of farmers decrease flector, giving off this light in his in proportion to men in other lines neighborhood. of work, we readily see that we will The farmers' institutes, carried on some few suggestions to others for obtain a better price for our products. by the State Department of Agricul-There is a slow but sure growth in ture in connection with the Professagricultural interest, and, as our ors of the College of Agriculture, farmers are conservative, they take have been of untold benefit. The on new ideas and new methods rather very fact of getting the farmers toslowly. The change is evidenced by gether in different sections, and enthe improved farm machinery now couraging them to talk over their plan is to kill all out as soon as I being shipped in. This was striking best methods, and to write papers on at our last State Fair. The manu | leading agricultural topics, discussfacturers of these improved ma- ing ways and means of improving chiness send their goods, not only their farm conditions, and farm life, to localities where they are needed, must of necessity be of great advanbut wherever they will be bought. | tage. The usual order of procedure The agents say they have never met is as follows: Advertising the meetwith more encouragement than this ing and getting a crowd together, fall. The farmers are calling for the election of a chairman and secrebetter seeds, and for greater varie- tary, appointing a committee on ties than ever before. The small programmes, and then the discussion or lucerne, pea vines and the long grains, clovers, etc., are being sown of topics, reading of papers, and an- list of grasses-some of these will numerable possibilities lost sight of swering of questions. The meeting grow on any land in this State. So or overlooked, and by-products left much more extensively. It is not usually lasts about two days, with we may have hay to sell and keep if uncommon now to see farmers using both night and day sessions. Wo- we know how to care for them. cover crops for winter, thus protect- men are invited and one or two of North Carolina will never come to ing their lands from leaching and the sessions are set aside for the dis- her full value until she takes the cussion of subjects in which they lead in the grasses. When our lands hours a day while the artisan or mewashing, besides securing some are particularly interested. The are covered in the rich grasses, then chanic works only eight or nine. grazing. They are growing renovatfarmers often form a permanent oring crops freely during the summer, ganization at the close of the meetand practicing rotation. They are ing.

Raleigh, N. C., January 1, 1901. using fertilizers much more intelli-

gently than ever before. There is a greater demand for good stock, and of course this means sales of live stock, milk, butter, beef, pork and wool, and the production of manure. Some of the influences that have

brought about this change are due to the Agricultural and Mechanical College, to the Experiment Station, and to work of the State Agricul tural Department, through farmers institutes, etc. The farmers are taking more and more interest in the Col-

lege, and instead of ridiculing the idea of an agricultural education. they are growing proud of this insti tution. The number of students is increasing year by year, and those who apply for admission are more anxious than ever for instruction along agricultural lines.

They are beginning to appreciate the fact that if a farmer competes with educated men in other callings,

HAVE A SPECIALTY.

I wish to urge upon my farmer friends to make a specialty of someof poultry. Get enthusiastic and cleared over \$1,000 from a few acres soil." Mr. Hillyer says: last fall. He at once built himself a new house.

special of something. We are makone else can. Therefore, I repeat: Onondaga, N. Y.

Farmers should build factories. The cotton and cotton seed of this county are worth a million dollars. All this could be kept at home to improve the farms and build up the to term "book farming." county if used here in factories. Not a dollar should be allowed to leave the county.in the shape of the raw material.-Gen. Wm. R. Cox, Edge combe Co., N. C.

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A THINKING FARMER'S SUGGESTIONS

The following sensible letter was written by Mr. H. B. Hillyer for the thing. Get interested in some par- Texas Farm Journal, and we comticular crop or kind of stock or breed mend it to Progressive Farmer readers. There's one fact especially to make a success of something. Many which he calls attention that ought in our neighborhood make a specialty to be carefully considered-that "it of cabbage, and some have made lots is not the maturing of the grain but of money growing it. One man of the whole plant that exhausts the

In these days of close competition, low prices and small profits, the Our specialty is poultry, Buff farmer must keep abreast with the Plymouth Rocks, and I can see how | times, become a skilled laborer, put in many ways that it pays to make a brains into his work, and use every means possible to cheapen the cost ing a reputation for our poultry that of production, thus giving him a fair is far-reaching, and it brings good profit on his labor and capital. There returns to the person who takes are matters demanding our most pains and tries to grow or make earnest consideration. All useful something a little better than any knowledge comes to us by our own experience, by observation, or read-Have a specialty -E. E. Lawrence, ing of books and papers, for thereby we can obtain the life-time experience of practical men, adopt them as our own, put them in practice and improve upon them. The farmer is too prone to believe he knows it all and thus despise what he is pleased I met a very clever farmer not long since and he told me he had been raised on the farm, and could make as good corn and cotton as any one. I asked him how much corn and cotton he raised per acre the past season. He told me 30 bushels of corn and half a bale of cotton per acre. This was very good. but I pointed him to some of his neighbors, upon no better land, who had made one bale of cotton per acre and 50 bushels of corn; evidently they were better farmers than he was. Again I asked thim how many ears of his corn it took to shell a bushel. He said about 120 on an average. Of my corn that year 80 ears shelled a bushel, but I have seen corn of which 32 ears would shell a bushel.

Some Plain Homespun Suggestions. Correspondence of The Progressive Farmer.

One of the things Clodhopper wishes to urge upon his brother farmers at the beginning of the New Year is the value of keeping accounts. As I said some weeks ago, one of the costliest mistakes of North Carolina farmers is the fear of pen and ink-our habit of putting pen and ink work upon some one else, for which we always pay dearly. tion. As it is very difficult to get a Not only keep account of goods bought and prices paid for them, milk, on the same principle the small but keep accounts with your cattle, stalked variety of medium-sized corn your poultry, and your various crops. I notice with some surprise that tests at the Massachusetts Experiplant growth comes actively into egg-laying from a ration made up play in this connection. For if the largely of corn than were obtained breeder marks medium sized stalks from wheat rations. The trials have in his fields of growing corn, he can been continued through several easily see that they will produce a years with similar results. I had much larger proportionate quantity the impression that corn was too of grain than will the largest stalks. heating, and that wheat was better. There is no question in the writer's Perhaps the colder climate of Masmind, but that the excessive growth | sachusetts has something to do with

Pecan trees ought to be more gen-

A senseless practice that ought to Other kinds of field and garden farms. Most of our soils need humus -decayed vegetable matter-worse

I know two farmers near Raleigh a too large growth of fodder and asm on the subject get him some Therefore the medium-sized stalk he will not only give you honey for of corn develops a one-pound ear at the table, but get clothes for himthe expense of its size of stalk. A self and learn to think and act for short thick stalk with a great profu- himself, and will take a deep interest

FROM A GUILFORD TRUCKER.

He Discusses the Velvet Bean, Lettuce Growing, and Hay Raising.

Correspondence of The Progressive Farmer. My trial with the velvet bear pleased me very much and I think it a good thing for stock feed and land improving. It is true the bean did There is still another class of stu- not ripen for me under such treatthe student has been kept in touch come acquainted with the growth of

not pay to grow it. This, of course, The State has been much benefited is winter-grown and large white work is done.

> But what about a market? Let tuce such as is described above will bear shipping to a good market. plants will be ready for re-setting in ready in January and February.

As the subject of Bermuda grass is claiming some attention, will give

It is not the maturing of the grain that exhausts the soil, but the whole plant, and it is evident that the same soil and cultivation would grow the small ears or the large ones, while the large ears would more than double the crop. So in cotton a man who grows one bale per acre makes nearly double the profit of the man who grows half a bale; moreover, the man can gather in a day twice as much of large corn or cotton as he can of small stuff.

Now it has been a rule of my life that whon I found a man in my line of business more successful than I was, I would sit at his feet and learn of him. A man who knows it all will not be an apt pupil.

Again, two farmers start in life on about equal conditions. One stays poor, the other gradually acquires wealth. Why so? Not by doing more work, but better work, using more sagacity in his work, better business methods, and practicing a stricter economy. Now, there is an economy that works loss, such as poor, weak teams, insufficient feed, poor farm implements, and worst of all, poor farm seeds.

A man with a good, strong, wellfed team and cultivators and other improved farm tools can cultivate twice as much land as his neighbor with a pair of small, half-fed ponies and old-fashioned plows. Hurdreds of thousands of dollars' worth of farm implements go to waste every year for want of shelters that a little ingenuity and labor could make out of corn cobs, hay or sorghum. Thousands of hogs are butchered every year whose weight are 150 to 200 pounds that with the same feed and care could have produced 350 to 400 pounds of meat. Milch cows are kept and fed that never pay for their feed. Twenty dollar scrub colts are men fail the cause must fail, they raised when the same expense would have grown \$100 horses. And thus we see throughout our farm life into go to waste. There is no reason why a farmer should work fourteen to sixteen Improved farm methods, with ten

stalk, in proportion to yield of grain. Italian bees in Langstroth hives, and

sion of blades, tends to center the in farm life. bulk of corn-producing nutriment in that the largest grains that can be found in any variety of short thickstalked corn tends to intensify this character, and that the largest grain scarce. produces the largest grain yield per stalk. The writer, living, as he does, in the center of the greatest corn belt on earth, and in a locality of where probably the largest average crops of corn are annually produced, as a corn breeder, and seed grower, often verified the foregoing facts, had plainly demonstrated to him than in 1897 by \$3,793,889. that a fodder or ensilage variety of corn is not generally a good grain

The scarcity of cattle in Central the ear. The writer has discovered North Carolina is remarkable. In few counties are there enough milch cows to supply the demand. In Chatham and Wake they are very

Certain it is no branch of farming offers finer opportunities than dairying and stock raising. I notice from the Department of Agriculture realmost exclusive corn production, ports that in our entire State the number of horses, mules, milk cows, and other cattle and sheep, is less has during his 28 years' experience than in 1897 by 173,500 head. Horses and mules have slightly increased in number, while cattle and sheep have while roguing his growing crops, and largely decreased. The value, howharvesting his seed crops. And has ever, of the stock is greater now CLODHOPPER. Wake Co., N. C.

thought. The time to kill it out where it is in a broad area is frequent plowing in July and August when land is dry and heat of sun is great. Bermuda grass is fond of rich land and plenty of manure. My can. There are other grasses that I consider far superior in beauty and value. The blue grass, herds, timothy, orchard or any natural grass is far more preferable.

We have fine lands in North Caro lina to make all the hay that our stock can consume. When some are apt to shift the real cause from their own shoulders. Clover, alfalfa we can live at home. R. R. MOORE.

Guilford Co., N. C.

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