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

## Vol. 15.

# Agriculture.

#### BUYING COMMERCIAL FERTILIZERS

A Thoughtful Farmer and Trucker Discusses Some Costly Mistakes.

correspondence of The Progressive Parmer. How many farmers know what is in the guano which they put under their crops? How many even take the trouble to read the analysis on it means when they read it? Ask vourselves these questions, friends, and see that this does not apply to you. You know very well that the knowledge of the great majority of farmers about fertilizers, goes no further than the name of the brand they buy; that outside of this, all else is guesswork, and they take unquestionably whatever the agent may tell them about the fertilizer he sells.

is very enthusiastic over a cotton fertilizer analyzing 8 per cent. phosphoric acid, 2 per cent. ammonia, and 2 per cent. potash, and he is selling hundreds of tons of this lowgrade stuff principally, I should imagine, because it is cheap. It looks

ammonia, and 2 per cent. potash shows entirely too small an amount of potash, and hardly enough ammonia even for cotton. It is useless fo pay out money for one element of plant food unless the other elements are also in sufficient quantities to enable plants to use it. For plants require all three elements : ammonia, phosphoric acid and potash; and pressions of some of the articles. their growth and yield is fixed by the sack, and how many know what the smallest of these elements present. If the fertilizer referred to had contained 4 per cent. potash and 3 per cent. ammonia, instead of 2 per cent. of these elements, it would have been much better adapted to the cotton crop, for which it was on the North and West where corn, sold

Too little is known about the soil and crops we cultivate, and the farmer must work his brain if he expects the work of his hands to be successful. And he should demand I have in my mind an agent who in his fertilizers those elements of plant food in the right proportion to insure the best development of his crop. F. J. MERRIAM. Battle Hill, Ga.

> The rural delivery of mail grows rapidly in popularity. One of the

# Raleigh, N. C., November 20, 1900.

#### FROM A WAKE COUNTY FARMER.

"Clod-hopper" Writes of the One-crop System and of the Case of the Sheep vs. the the Dog.

Correspondence of The Progressive Farmer. I have just received my copy of The Progressive Farmer of Nov. 13, and will right now while I am thinking of it, write out a few hasty im-

county warns us against going too heavily into cotton next year. True, we ought not to plant it recklessly, but things ought to be so arranged as to let us raise cotton very largely, while depending partially, at least, pork and wheat can be raised more

cheaply for these supplies. But as things now stand and with the prospects for a heavy crop next spring, W. C. D's suggestions are eminently you want seed. sane.

We cotton raisers must study the problem of keeping up the soil fertility. Our cotton lands are being impoverished far more rapidly than the corn and wheat lands of the

# taking less fertility from the soil say about pigs again.

### HARRY FARMER'S TALKS.

III. Correspondence of The Progressive Farmer. Harry Farmer does not like to see so many stumps in the fields. He has been made happy sitting by the fires in the old chimney filled with during the previous winter, and thoroughly dried. These same stumps Your correspondent from Wilson have warmed me, and others, too, (but I can't say we were happy)

when cutting the grass, bushes and weeds from around them and never getting one cent's worth of crops for our labors for ten, or may be fifty, years, not to say a word about the plow points, back-bands and traces broken.

Gather all the cow peas you can. They are worth \$1 per bushel now. That means nearly \$2 next year when

of foods. They will eat more and thrive better. Harry has had fair success with pigs and always feeds them on corn, cow peas, sweet potatoes, collards, etc., when fattening North and West. Yet, cotton is the them, finishing on the first named least exhaustive staple crop grown, article. We will have something to

do both of these. To do good plowing we must have good plows. One hand can do the plowing of three hands if we have the best plows, But at the same time he does so much more, he can do it so much better. A three or four-horse plow Correspondence of The Progressive Farmer. old stumps taken out of the fields guided by one man can break more horses each to a little single plow. and he can do much better plowing. harrows the same holds true. One man can do as much as two or three, and do it better. The weight of the work.

> Thus we see we can save the expense of several hands and have the soil better prepared.

A GREAT SAVING IN HARVESTING. Push the pigs. Give them a variety handle all hay and grain and even third or fourth year do not produce corn crops very much cheaper.

> can be promptly saved if we have to the former the better, provided good machines, but from storm or the animal has reached full maturity

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## Live Stock. **BAISING YOUNG MEAT**

A Successful Stockman Who Has Made Money Supplying Markets, Discusses the Question.

There is an undoubted demand for ground than the same number of prime young beef and mutton made ready for the market under conditions that will produce rich, red, Then in the use of cultivators and tender meat suitable for the consumers of choice goods. This meat is difficult to secure in any market, and it is always high-priced, for customplow or harrow helps to do better ers who can secure it are willing to pay extra for it. This meat cannot be raised without attention to what is needed. In the case of beef the cattle are not young calves, but animals that are brought to maturity A good mower or reaper or har- rapidly and finisnished off perfectly. vester enables us to cut and cure and Old cattle finished off after their as desirable meat as the year and a Not only is there a saving in the half animal brought to maturity uncost, but often the whole would be der good feeding and care. The lost if we had to wait for the old proper time to finish off cattle for way of hand-cutting and hand-bind- the fancy market is from one to two ing and horse-threshing. A good deal years old. The nearer we can get

der to manufacture a cheap fertilizer. He is charged the same price for plant food in a cheap low grade guano, that he is in the high grade expensive brands, and he is paying freight and handling upon a lot of material of which he has more than

Now, friends, when you buy your guano don't buy tons of dirt, buy plant food. Look at the analysis on the sack, and figure on the first row of figures; the second is simply put there to make you think you are getting more than you are. Remember that 1 per cent. is one pound in a hundred; that this pound is what you are paying for, and that it is worth just so much on the market; 8 per cent. of phosphoric acid is 8 8 pounds of phosphoric acid in a hundred pounds, and is worth on the market about 5 cents per pound, or

40 cents; 2 per cent. or 2 pounds of ammonia is worth at present prices about 14 cents per pound, or 28 cents, and 2 per cent. or 2 pounds of potash is worth 5 cents per pound or 10 cents. This makes the plant food in one hundred pounds of this fertilizer worth 78 cents, and a ton, 20 times 78 or \$15.60 This is what it would cost you if you bought the materials and mixed it yourself. For the ready mixed article you pay about \$18 or or \$20 per ton; a part of which advance goes to pay for the dirt which the fertilizer companies have mixed with the plant food in order to make you a cheap guano; and you could buy the same amount of plant food in 1,200 or 1,500 pounds of a higher grade fertilizer.

In the fertilizer mentioned above. 1 000 pounds of acid phosphate furnishes 7 per cent. of phosphoric acid, the other 1 per cent. came from the 300 pounds of blood which was used o supply the 2 per cent. of ammonia, while 80 pounds of muriate of potash | the State." gave the 2 per cent. of potash. This leaves, you see, 620 pounds of some non-fertilizing substance to complete the ton. Of course this would not last year by sowing the larger part have been so much if low-grade of my wheat land to a new variety tankage had been used, instead of with which I was not acquainted exit would have added dirt just the wheat yielded an average of fifteen same, of which all low-grade fertiliz- bushels per acre and about forty-nine would naturally occupy. Truly, mated and I lost about \$25 thereby. per cent. phosphoric acid, 2 per cent. Co., Tenn.

suspecting farmer does not know says that in September he landed on The lint and the oil are the only that in a ton of this fertilizer he is his route 2,273 pieces of mail, but buying between six hundred or seven that in October there were 3,773. Of the soil, removing less than three hundred pounds of sand, or some the latter he took up 650 letters from substance of no fertilizing value, people on the route. It is a good which has to be used as a filler in or- showing. The country people are delighted with the system.

FOR BROAD TIRES AND BETTER ROADS-

Two well established facts, as a large number of articles that have appeared in The Progressive Farmer have clearly demonstrated, are that an abundance on his farm already. the use of the broad tire is very profitable to the farmer, and that the narrow tire is the worst enemy of good roads. The Charlotte Observer tells us that the board of trustees of Charlotte township acted upon these principles at their recent meeting. Says the Observer: "The most important action of the board was the adoption of a resolution to petition the next legislature to pass a law requiring broad tires for wagons in Charlotte township, according to the plan submitted by Mr. D. P. Hutchison.

> "The law would prohibit the sale ot any but broad-tired wagons in this township, after a certain period. The old narrow-tired wagons could be sold, but the purchaser would be required to pay a small bonus for the use of the good roads. The proposed law would allow all owners of narrow-tired wagons to continue to use them until they should wear out, so there would be no hardship in that direction. It is the idea to begin the broad-tire movement just as the nofence law was begun-first by townships, then by counties-and it is significant that so far, there is by no means as much opposition manifested toward this movemen, as there was against the no-fence law when it was first started. The good roads movement, which started in Mecklenburg county, has spread all over the State, and it is altogether probable that the broad-tire movement, starting in

black and smells strong, and the un- three Raleigh rural postmen here than corn, oats, wheat, or other grain. parts of the plant necessarily lost to pounds per acre of nitrogen, potash stems, leaves, bolls and seeds contain more than fifty pounds, and all these, except the oil, may be returned

to the soil. Crop rotation is one thing essential, and more grasses in crop rotation than heretofore.

Harry Farmer's talks are good. More of our farmers ought to write such letters. Yet we seem afraid of pen and paper, and I think that is the foundation reason for our povpeople to do our pen and paper work for us-merchants, lawyers, and book, tree, and fertilizer agents, etc. Mr. Jones' letter on curing bacon is first-class throughout, but it is not everybody that has the time for such careful work. The liquid extract of smoke does very good work for me. I read the report of Secretary Wilson on North Carolina's poor show-

ing as to sheep. Sheep raising would be very profitable here were it not for the absence of protection furnished by law. Dogs are allowed to run at large, and the class of hounds kept are especially adapted to sheep killing. If the laws in regard to dogs were sufficiently strict, sheep raising would greatly increase and would prove very remunerative indeed, as the natural advantages are unsurpassed for a wool growing section. If the editor wants to encourage sheep breeding, let him work for an anti-dog law. He might keep standing what Edward Atkinson says: "When the inhabitants of the upland cotton section of the Atlantic coast attain sufficient intelligence and power to suppress the yellow dog, of which it is related that "every poor man keeps two and every dpoor man keeps four," that section may become the centre of wool production of the world, while the sheep fed with the nitrogenous cow pea

Get ready for school as it will beyour children every day. You think upon the old way. your lot has been rather hard in the battle of life, but it was not half as and phosphoric acid, while the roots, hard as your boy and girl will see without an education.

some good papers. You have some money and the papers will give you one or two months extra if you subscribe now. No farmer can succeed without reading some good agricul-

tural papers. Every merchant has his market reports brought to him daily in his paper so that he can know exactly what to do. Take The erty. We've paid too much to other | Progressive Farmer and make farming a business.

You had better mark your seeds with a good label so that you will know what to plant next season. Corn, cotton and some garden seeds look alike, but sometimes there is a big difference in the yield. Harry Farmer has had some trouble along this line. HARRY FARMER. Columbus Co., N. C.

BETTER FARM IMPLEMENTS NEEDED

We are always glad to receive a letter from Prof. J. B. Hunnicutt, and in addition to the articles he occasionally contributes to The Progressive Farmer, we often quote from his writings to other papers. In the last issue of the Southern Cultivator, he has a thoughtful letter on farm implements. Southern agriculture can make no material progress without improved farm implements and farm machinery, and we labor-saving machines. The quesheartily endorse Mr. Hunnicutt's suggestions. He says:

The Southern farmer has reached the point where he must use more machinery. He cannot compete successfully with other farmers if he does not. Hand labor is too expensive if he can get it. But he cannot always command enough for it. It is getting scarcer and less satisfactory every year.

As the old ante-bellum labor passes Charlotte township, will follow in vine and the fat-producing cotton from the farm, we find it more and the wake of the good roads all over seed meal will renovate the slave more difficult to get the kind and North Carolina, who are patronizing quality of workers we wish. The new labor wants to work fewer months and shorter hours, and demands higher pay. Then again, he is not reliable. You | tions. cannot count on his carrying out his contract. He is expensive on account of the direct pay, and more expensive when you consider the indirect-the incidentals that you did not agree to give, but which are nevertheless gone from the farm. IMPROVED IMPLEMENTS DO BETTER WORK. The time has come when we must produce more per acre. The competition in prices grows heavier each year. Rapid transit makes it so easy for distant points to send competing articles that we must be prepared to price against any and every good meat. They should be put in competitor. The only way to cheapen production is to produce more per acre, and decrease the cost of culti-C. E. Flint. vation.

long-continued rain might be entirely and weighs about as much as it ever gin soon if not already open. Send lost or greatly damaged if we depend will. It is a question of feeding and

Machines work cheaper than men. Human labor costs more than animal labor, and animal labor more than steam or electricity. We do Now is a good time to subscribe to not advise too great haste. This most profitable age to finish off cattle sometimes makes waste. But we do is from twenty to twenty-four arge the use of all improved farm implements that have been tested animal and breeder, and is a pretty and proven.

> HELPS TO SAVE AND ENRICH THE SOIL. wearing of our soils by using good and obtain for them larger profits plows, and when we do this the land not only holds its fertility, but actually grows richer from year to year and feeding. Animals selected for while making crops all the while. this fancy work should be without We can even grow two crops a year | blemish and indicate a strong, vigoron much of our farms, and this will improve the land still more rapidly. Machinery has stopped the waste of cotton seed, and given them permanent value.

> Machinery will soon stop the wasteful process of fodder-pulling and stalk-burning, but we will save the fodder and the stalks. This will enable us to grow very many more not looking beyond the year and a cattle, and they will add to our income and enrich our farms.

will tend to increase the intelligence purpose should have it. The flesh is of our farm labor. It will lighten the drudgery and heighten the profits | When sucking the mothers must also of farming.

Now that we are getting better prices for our produce and our cattle. let us invest some of the proceeds in equipping our farms with better tion is no longer, "Can we afford to buy machinery for better farming?" but can we afford to do without? That is the question. We do not think you can. We think you are agreeing with us in this idea.

The Agricultural and Mechanical College for the Colored Race of Greensboro, N. C., has been awarded a silver medal on the institution's side of the market to make the most exhibit at the Paris Exposition. The of such a specialty. worth of the college is fast becoming

recognized by the colored people in TO STOCK RAISERS IN WESTERN N. C

breeding so that the animal grows smoothly and rapidly from the time of its birth to the day it is sold for the fancy market.

Experience has shown that the months. That applies to the average safe rule to go by. But it is possible

to finish off very fine cattle in We can soon stop all washing and eighteen, or even fifteen months, than those which reach maturity later. It is all a question of breed ous constitution from the start. If they possess these merits they will prove satisfactory at all times. They need good care from the start, and should be allowed to suck their mothers until they are ready for weaning, and then they should be fed as liberally as they can stand of highly concentrated food. We are

half period and no matter what grave results forced feeding may have later The use of machinery on the farm | in life the animals selected for this sure then to be rich and tender. be fed liberally on rich, concentrated foods.

> The whole question of whether cattle raised in this way will be profitable depends largely upon the market one can send them to. They cannot be classed with ordinary cattle, but must seek a special market where fancy stock is in demand. In nearly every large city there are butchers who make a specialty of of securing fine beef cattle. They have a line of customers who de-

> mand better meat than can be found in the ordinary cattle yards. One must put himself in touch with this

> > C W. JONES.

MISTAKES WITH WHEAT.

I made an unfortunate mistake len fibres." blood, to supply the ammonia; but cept in a hearsay way. The new less than \$50; if over they are asing materials contain a large amount. pounds per bushel at mills, while my losses caused by dogs whose owners If we are to use low-grade fertilizers, old kind of wheat, the kind we had are unknown or insolvent. Losses the plant food in them should be been growing for years, made an are appraised by three land holders enough cheaper to overcome the average of forty bushels per acre and returned to the county commis-"stra cost of freight and handling. and sixty pounds to the bushel. sioners, who pay pro rata in Decem-The reverse, however, is really the Now, I trust my brother farmers ber of each year, but the fund rarely The farmer's ignorant de- may profit by my experience and be equals the amount of damages. The mand for cheap fertilizers has put a careful about sowing seed of any va- assessor can't find nearly all the dogs premium on dirt, as it were, and riety about which they know noth- and some more tell white lies. raised the price of low-grade fertiliz- ing. The trouble with the new seed Again, any dog found alone off owning material above the place they in my case was that it was not accli- ers' premises may be killed by any

every one pays dearly for his igno- Of course this isn't a large sum, but rance. Then, too, the low-grade fer- it will count up in a few years, if not tilizer is never well balanced. Eight averted .- W. C. Crook, Henderson lina.

stricken soils of these States and will bring them to the maximum production of food and of cotton and wool-

The best anti-dog law that I have heard of is Ohio's. It provides for a tax of \$1 per head on dogs valued at sessed with other stock. This poll tax is a fund to pay part or all the

one who has the nerve. Whenever the farmers get to watching their own interests, we may get such a law in North Caro-CLODHOPPER. Wake Co., N. C.

Good farm machinery will help to when writing advertisers.

it better than they have in the past. There are now 160 students at the institution, and this number is the extent of the dormitory accommoda-

In marketing potatoes great care handle cattle. should be taken in the assorting and I believe it pays to do it by hand. If the crop has very large tubers, as well as medium sized, two grades

should be made, one of the larger, are all right for exhibition, but not to eat, and the other of medium sized. smaller than a 5-ounce potato should be put. It never pays to try to work off small potatoes on the market; clean sacks and each sack should weigh 100 pounds good and strong .-

Mention The Progressive Farmer

#### COUNTIES.

Correspondence of The Progressive Farmer. The Board of Agriculture at its recent meeting made a ruling which will be of interest and importance to many of your readers who own or

The following district was established in accordance with chapter 367, Sec. 7, Sub. Sec. (3), Laws of 1899:

Beginning at the northeastern corexcluding all enormous sized, which nor of Henderson county, and running with the east boundary lines of and so as to include Broad river. In the medium-size grade, nothing Crooked creek and Old Fort townships to the Catawha river, then eastward with said river through McDowell and Burke counties, and but feed them to the stock and make continuing to the southeast corner of Caldwell county, then north with the Caldwell county line to the Wilkes county line, then east with the Wilkes line to the southeastern corner of Wilkes county, then north

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