"The Progr sive Farmer is a good paper-far above the average--and possibly the best advertismedium in N. Printers' Ink.

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

RALEIGH, N. C., APRIL 20, 1897.

No. 11

THE NATIONAL FARMERS' ALLI-ANCE AND INDUSTRIAL UNION.

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Officers-J. L. Ramsey, President; Marion Butler, Vice-President; W. S. Barnes, Secretary. PAPERS.

Fregressive Farmer, State Organ, Raleigh, N. Raleigh, N. Daucastan. Hickory, Hercury, Whitakers, Mattler, Our Home, The Populist, Beaver Dam. Lumberton, Charlotte, The People's Paper,

Each of the above-named papers are requested to keep the list standing on the first page and add others, provided they are duly elected. Any paper failing to advocate the Ocala platform will be dropped from the list promptly. Our people can now see what papers are sublished in their interest.

## AGRICULTURE.

Sixteen thousand barrels of apples were gathered last fall from three adjoining farms in Maine.

Don't be afraid to plow the orchard in the spring. It won't hurt it. But do not go deep, only about three or four inches.

It is announced that some wonderful things can be made of ordinary corn stalks and a company has been formed to start an industry of that kind. We expect another trust "is a brewin"!"

of onions were imported into this country last year and they cost us about perfection. Some plan should be adopted to remedy this matter.

Live stock on the farm makes the farm capable of giving a profit. The animals provide a market at home for a large share of the products and permit of selling in concentrated form that which would otherwise be too bulky to haul.

When clover seed is sown early the freezing and thawing of the ground get it covered well before there is enough warm weather to sprout it. When sprouted it is so well protected that it is not injured by a freeze which would kill it if the roots were exposed.

However low the prices may be, it will always pay to do the best we can. If the profit from a good crop of wheat or corn, from a good beef animal, is small, remember that it would have been much smaller still if the crop or the animal had been a poor one.

Potatoes are not much injured by the shade, and are a good crop to grow in a young orchard; and the potash, which is a good fertilizer for this crop, is also good for the trees. Corn is also a good erop to grow there, and it can be grown two or three years in succes

It is not the land, but the man, usually, at fault when the crops are when they are large and profitable. It man's work depends upon the amount of intelligence possessed by the man himself.

WEEKLY DIGEST OF EXPERI-MENT STATION BULLETINS.

TIMELY POINTS ABOUT TOCACCO.

Bulletin 122, of North Carolina Station, imparts much valuable information about tobacco culture. It is a timely bulletin. The wars in Cuba and the Philipine Islands have destroyed the plantations from which the world has drawn a large per centage of its supply of tebacco, and this will give a decided impetus to the industry in this country. The preparation of seed beds will begin in the lower South in February and progress northward till it ends in Connecticut and Wisconsin in April.

Sir Walter Raleigh's expedition found the Indians cultivating tobacco around Albemarle Sound in 1584, and the whites began its cultivation on a commercial scale in 1616 It soon became the most important product of the Virginia colony, and its use and production have increased till to day tobacco is grown in 42 of the 50 States and Territories of this Union.

The census of 1890 show that, ex cluding the counties that produced less than one acre, there were 692,990 acres in tobacco in 1889 which produced 488 255 896 pounds-an average of 705 pounds per acre, which brought the growers \$340,844,449 -an average of a little more than 7 cents a pound, or \$50.28 per acre.

Kentucky produced nearly half of the total yield, Virginia standing sec ond, Ohio third, North Carolina fourth, Tennessee fifth, Pennsylvania sixth, and Wisconsin seventh; and these seven States produced 95 of every 100 pounds of the entire product of the Union, though Maryland, Missouri, New York, and Connecticut produced more than seven million pounds each. The total number of planters was 205,

Of the seed leaf types (cigar tobaccos the average yield per acre varied from 854 pounds in Ohio to 1 402 pounds in Connecticut The average yield per acre of the manufacturing and export varieties varied from 375 pounds in North Carolina to 830 pounds in Mis-

The average price per pound in 1889 varied from 41 cents in Missouri and 47 10 in Maryland to 12 4 5 in Connecticut and 1415 in North Carolina, though the Louisiana product, which was less than 50,000 pounds, brought the growers an average of 2515 cents per pound. In Louisiana, Florida, and Southern Texas the cultivation of the the more clay the heavier the yield. finer types of Cuban tobacco has de veloped considerably since 1889 The pound.

To beginners in the culture of to bacco, the bulletin gives this warning "None of the other large agricultural crops requires such careful and intelligent culture; and none yields so readily sachusetts and Connecticut growers to the varying influences of climate, apply both stable manure and commersoil, fertilizers, cultivation, harvesting, It is stated that six million bushels curing, and handling; and there is their lands are improving. scarcely another farm product the money value of which is enhanced to price from \$3 to \$30 per acre; in North \$3,400,000. Yet we can grow onions to such a degree by a practical and intelligent knowledge of these agencies."

On the other hand, let it be remembered that the very fact that unusual care and skill are required insures a limited competition and a reasonably certain remuneration to those who do quickly available manures than most exercise the necessary care and skill.

ana bulletin digested in these columns some months ago, in which the opinion | and while drawing heavily on the soil's average intelligence may readily learn to plant, fertilize, worm, sucker, culti form of lime for tobacco is gypsum, vate, harvest, cure, and handle tobacco so as to turn out the best product of phate. The muriate and kainit injure

tion of the tobacco industry into the the best forms of nitrogen, because hill country of northern Louisiana was most quickly available, but cotton seed a most intelligent one and it brought meal, castor pomace, dried blood, etc., made on a small scale to test the adapt- may rot down and become soluble. A ability of the soil and climate to the good mixture is made of 1,100 pounds bacco, and to test the virtues of vari potash, 600 pounds cotton seed meal, stock company of planters and mera factory, and an expert, well endorsed, meal rots down and becomes available was secured from the tobacco-growing for the later period of growth. The region of North Carolina, to instruct the farmers in the best methods and to superintend the construction of the This man had been reared on a tobacco | centage of nicotine in the weed the 18 very certain that the success of a plantation and had served in all sections of the factory, from apprentice no mistakes were made.

soils, and by different methods has containing a large per centage of nicogiven rise to much variation in type of time. Such tobaccos have not the most lating in tobacco are entirely at sea, the plant. There are now more than delicate flavors nor do they burn well 100 different named tobaccos grown in Limestone and heavy clay lands pro- to act? Is he to go it blind? the United States, many of which, duce strong, coarse tobacco with a however, are only local synonyms for large per cent. of nicotine. The per cent. one kind. There are but three types, of nicotine in the leaf is greatest just of manufactured tobacco He said that under each of which there are several as it attains maturity, and much of it for many years there had been no sub classes each embracing a number can be driven off by the various proof varieties.

Type I.-Domestic Cigar Tobacco and manufacture. and Smokers. Of this type, 7 varieties are classed as "seed leaf and Havana

and smoking tobacco." type, 9 varieties are classed as "fine cut and plug fillers," and 9 as "plug

wrappers." Type III.—Export Tobacco. Of this type, 11 varieties are classed as 'Eng prices, and bright chewing tobaccos lish shippers," 17 as "Continental shippers," 3 as African shippers," and 2 as "Mexico, South American, and West Indiesshippers."

As to soils, it is stated that while to bacco will grow in almost any soil that will produce other crops, no other crop is so radically afficted by different conditions of soils and fertilizers. Success in producing a certain type of tobacco depends almost entirely on the each; those fed corn, roots, and alfalfa soil and fertilizer. A soil may be ideal | gave a net profit of \$1, 59 each; those for one type and totally unfit for an- fed on corn, roots, and a mixture of other. Soils of light color produce to | clover and millet hay gave a net profit | baccos of light color, and dark soils of \$1 68 each; those fed corn, roots and produce dark tobacco. The color of millet hay gave a net profit of \$1.46 tobacco is also much affected by the each; those fed corn, roots, and a mixtexture and condition of the soil and sure of clover hay and oats straw gave the composition of the fertilizer. The a net profit of \$1 66 each; those fed seed leaf varieties produce a finer leaf | corn, roots, and straw gave a net profit on light sandy lands, but the demand of \$1.66 each; those fed corn, roots, in recent years has been for darker clover hay and corn stalks gave a net colors in cigar wrappers, and these are profit of \$1 82 each; those fed corn, now grown upon heavier loams, highly roots, and corn stalks gave a net profit fertilized. The fine yellow tobaccos of of \$1 98 each; those fed corn, roots, North Carolina and Virginia are grown | clover hay, and bean straw gave a net upon light gray sandy soils.

upon which the price of tobacco so of \$1 63 each. largely depends, climate is probably the most important factor, but proper and a moist atmosphere evidenced by heavy dews are favorable, the qualities of a tobacco climate are not so well un derstood as are those of a tobacco soil. Perfect drainage, either natural or artificial, and fine tilth are essential to the best results. The more sand in the soil the finer and silkier the leaf, but

Of the 75 varieties analyzed at the Station, the highest priced cigar wrapabove prices are averages; the finest per was grown in Florida on a light crops often bringing 50 cents to \$1 per | sandy loam without any fertilizer, the yield being only 550 pounds per acre. The next best seed leaf specimen was grown in Connecticut on a light sandy loam very heavily manured, the yield being 1,800 pounds per acre. The Mas cial fertilizers very heavily and say

> Tobacco lands in Florida range in Carolina from \$10 to \$30, and in New York, Massachusetts, and Connecticut, from \$50 to \$250 per acre.

As to fertilizers, it is true that to

bacco requires for the best results large applications of highly soluble and other crops, because its growth is made In this connection we recall a Louisi- in two or three months in the hottest season of the year, the growth is heavy, is expressed that careful farmers of supply of nitrogen, lime, and potash, it returns nothing to the soil. The best and the best form of potash is the sul which his soil and climate are capable. | the burning quality of cigar and smokthe crop with soluble nitrate during its acid phosphate is rich in lime.

Since nicotine is the active, stimulating property of tobacco, one would greater its value, but the reverse is

The long-continued cultivation of to cessive quantity of nitrogen in the soil cess of fermentation incident to curing factured tobacco. No wonder, then,

The marketable part of the plant is the leaf stripped of its mid rib, or censeed," and 7 are classed as "other cigar | tral stem, and varieties differ widely as to the size of this central system and Type II.—Chewing tobacco. Of this consequent waste. In some varieties it is less than 17 pounds in each 100 31 pounds in each 100.

Smoking tobaccos bring the highest rank next.

MISCELLANEOUS MATTERS

At the Michigan Station ten lots of lambs, 10 in each lot, as nearly even in size and quality as could be gotten, were fattened on ten different combinaresults:

Those fed a ration of corn, roots, and clover hay gave a net profit of \$1 50 profit of \$1.67 each; those fed corp. In producing the fine aromatic flavors roots, and bean straw gave a net profit

The corn was a yellow dent variety, the roots were rootabagas, and the curing has an important influence also. Mover, alfalfa, millet, and straw were Further than that high temperature of average quality. The corn stalks were cut into lengths of 1 to 3 inches on an ensilage cutter. All feeds were produced on the station farm and an adjoining farm and are charged at market prices.

Dr. Garber, a Swiss scientist, gives the following causes for tainted milk: Bad fodder, bad water, bad air, uncleanliness in caring for milk and vessels, keeping milk too long, bad ventilation and high temperature in the storage room, neglecting to aerate and cool the milk as quick as drawn, slow transportation, sick cows and cows in heat.

H. M. Fugel, a farmer and expert miller, of Missouri, tells a Farmer's Institute that wheat should not be harvested till thoroughly ripened. Such wheat keeps better in shock, stack, or bin, and it makes much better flour than that harvested in the dough stage of the grain. It will look somewhat shrunken, but in milling, the bran flakes off more easily, the flour is whiter and rises better in the oven than that from the smooth, plump wheat cut earlier. The best flour also comes from wheat which has gone through the sweat while yet in the straw. All wheat sweats, either in the stack or bin, and the gain in quality by having it sweat in the straw will more than pay for stacking rather than threshing from the shock.

## TOBACCO MARKETS.

Correspondence of the Progressive Farmer. ALAMANCE CO, N. C.

A few days ago I was on the tobacco market at \_\_\_\_\_, a leading market for that commodity. The day was fine. The method followed in the introduc | ing tobacco. Nitrate of soda is one of | The condition of the tobacco was good; neither too hard nor too soft; the break was not heavy, the sale lasting about three hours. Quite a number of buyimmediate success. Experiments were may be used if applied early so that it ers were present, and among them one whom the auctioneer called by abrevia tion A. T. C., which in their lingo production of the various types of to- acid phosphate, 200 pounds sulphate of stands for American Tobacco Company. Every pile found a purchaser, ous mixtures of fertilizers. These and 100 pounds nitrate of soda. In this though some of it only brought half having resulted satisfactorily, a joint | mixture the nitrate of soda will supply | enough to pay for the fertilizer used to produce it, and the producer got nothchants was formed for the erection of a factory, and an expert, well endorsed, meal rots down and becomes available on the market. In fact, there does. They have pretty effectively bullets which begin to lay in the early putting it on the market. In fact, there does. They have pretty effectively was not a pile on the break that did knocked out the Durham tobacco marnot sell from three to five times less ket, the leaf dealers and the farmers, White Leghorns and barred Plymouth than the same tobacco would have too. brought a few years ago. The warepoor, and the man is to be credited factory and the operation of the same. | naturally suppose that the larger per | house men on being questioned, "When will the market be better?" replied: "We can't tell you a thing. The A. T. | well. He gave the farmer the worth true; nicotine being such a violent C. say they have enough on hand to of his tobacco. He was, and still is, a to superintendent. Under his guidance poison that the smallest possible quan last them four years. There is so much magnanimous man, and his name will

bacco in different climates, different produces a rank, coarse, heavy weed be the future of the market." Now if market. those who make their living by specu and in uncertainty, how is any farmer

After the sale, I had a talk with a shop keeper who retails vast quantities marked change in the price of manuthat some of the manufacturers are making colossal fortunes and becoming millionaires.

My mind naturally reverted to the

Border Tobacco Association, which was organized in Durham some years ago, and had such a glorious meeting pounds, while in others it is more than in Oxford, where the Association had the hospitalities of the town exterded to themselves, they were dined and wined to such fullness that it took three men to moderate the meeting, and the minutes and action of the various committees got so mixed up that they never could be printed, notwithstanding a large collection was made for that specific purpose. The three tions of feed stuffs, with the following delegates from Alamance, B. K. and P., walked up to the clerk's table and laid down each a silver dollar. I was not a delegate, but I was there and saw and heard something. No minutes have ever been printed; at least, none have ever come to Alamance, nor have those silver dollars ever been returned, first requisite for the male. The one and as we had to tear ourselves away from our kind hosts and run for the train, we cannot think for a moment that a charge was against the chairman, for Baldy gave him a bottle of

> As the Association is defunct, I pre sume it is lawful at this late day to speak of the proceedings. Well, to begin: Some time during the second | tional layers, it follows that they should day of the meeting a delegation from | be hens, rather than pullets, as young the A. T. C. was announced. The chairman ruled that the Border Association, being a secret organization, the delegates from the A. T. C. could not coupled with good digestion, usually be admitted to the Association. However, a committee from the Border As sociation was appointed to confer with is also a cardinal point. Early Februthem and report to the Association. As ary or March for Asiatics, and late well as I can recollect, there were five | March or April for Leghorns and kinddelegates from the A. T. C. One of the Mr. Dukes and Mr. Geo. Watts, of Durham, were reported to be the chief speakers. The substance of their remarks as reported to the Border Association, was:

"We, the American Tebacco Company, have not organized to injure the farmer. We are going to do what the farmer has been making unavailing attempts to do: that is, to knock out the middle man and dispense with the leaf dealer. To do this, we intend to put on each leading market a salaried buyer; by so doing, the tobacco bought by us can be more uniformly graded. The profits that now go to the leaf dealer will be divided with the farmer. We intend to deal fairly and liberally with the farmers, but you farmers must not call us by hard names, for we have enough tobacco now in storage to do us several years, and it is just as we

Now it seems that the members of the Border Association became afraid of the A. T. C. and saw that that formidable trust or combine was stronger than the Jute Bagging Trust. As the sons of Jeremiah were to David -too hard for him, so were the Dukes, Watts, Allens Ginters, et al for the Border Association.

The price of tobacco soon declined down, down it has gone, while the goods of the A. T. C. have remained about the same. Uncle Wash Duke, his sons and Mr. Watts have become building. The past winter I have got millionaires. Many persons blame them. I do not. They have done, and are still doing, what the majority of the human race would gladly do.

What is needed is to abolish all trusts and combines; abolish the tobacco tax and give every man an even chance in for what they get, or buckwheat or life. The Mesers. Dukes and Watts are liberal supporters of their respective churches, patrons of learning and abundant in charities. How they spend their money does not concern us:

How different was the course of that noble man, the founder of the Durham in which the hens are confined whentobacco trade? I refer to Buck Black tity of it is quite sufficient. An ex- of the stuff, and it is so sorry, we can't be long held in fond remembrance by

even form a conjecture as to what is to the old patrons of the Durham tobacco

As it is now, the hired buyer of the Dukes, a branch of the great A. T. C., starts through the different warehouses and giving but a glance at the piles of tobacco, bidding capriciously, giving one price one day, and the next day another price for the same quality. while the warehouse man goes hopelessly and helplessly along calling out, "Bid up, gentlemen; give the old man the worth of his tobacco,"

Now, my farmer friends, what are you going to do about it? Are you still going to vote in the future for the parties that make combines and trusts possible? Nay more foster and cherish them. Are you going to plant full crops of tobacco? Please don't. Plant less and make it better.

B F. WHITE.

POULTRY YARD SOME GENERAL PRINCIPLES OF BREEDING FOWLS.

Times without number we hear it said that "the male is one-half the pen." If we stop to consider that every chick among the progeny inherits one half the blood of the male, while only onesixth, one tenth, or one twentieth, as the case may be, derive blood from each female, should we not decide that the male is far more than one half the pen? Exceptional vigor is certainly a cock that bosses all the rest is the very one to select for a breeder, if he is good otherwise. Extra weight is not always greatly to be desired in a cock. It often leads to injury of his mates; and as the bodies of progeny follow the female largely, extra weight is not so necessary for the male bird. Since the hens should be selected from exceppullets have seldom been well tested. The eating capacity of both parents deserves the best attention, as this, distinguishes the best, the most vigorous fowls. Mating at the proper season red breeds is, as a rule, far better than earlier dates. - American Agriculturist.

THE HEN ON THE FARM.

Correspondence of the Progressive Farmer. This paper will begin with a confession. I was originally a total disbeliever in the hen. She was with me a fowl simply brought into existence to make life miserable for us poor men and to be tolerated only because of the pleas of the gentler sex. Born with an insatiable appetite and the most destructive of all creatures so far as relates to her beak and claws, I had thought she never should be allowed to occupy any place of consequence upon my premises. I no longer hold this view. Why?

Well, I still hold that the hen out of place is a troublesome thing. She will do an immense amount of damage out of her sphere. So I have been trying please whether we buy your tobaccoor to fine the hen's sphere, and we, wife and I, think we have found it. Early in the game it began to be evident to me that the hen, in proportion to her value, was more profitable than any other thing in the shape of beast orfowl upon the farm. My wife attended to that branch of the business and does now. Keeping a record of her transactions, she was always able to show a balance on the right side. This opened my eyes gradually, and from being an opponent of the hen, I began to look with favor upon her. Beginning with a few hens, by degrees we increased our flock until it outgrew the house and then we made plans to enlarge the out timbers for a hen house twice the size of the old one.

The feed is all raised on the place except the bran. In the morning the hens get a ration of warm feed composed of bran and meal. Later in the day they are fed corn on the cob, so that they may be compelled to work oats scattered in chaff or straw. In winter a cabbage is hung up in the house at such a height from the floor that they can only reach it by jumping. Shells are provided during confinement and a box of dust which they greatly winter and keep it up while eggs brin a good price. As to breed, we have

Rocks. We fence the garden with wire and have a yard inclosed in the same way ever occasion demands. Instead of looking upon the hen as an enemy to our peace and bodily comfort we consider her one of our best friends.

E. L. VINCENT, Broome Co., N. Y.