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RALEIGH, N. C., NOVEMBER 15, 1898.

No. 41

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THE PROGRESSIVE FARMER is the Official Organ of the North Carolina Farmers' State



" I am standing now just behind the urtain, and in full glow of the coming Behind me are the shadows on the track, before me lies the dark valley and the river. When I mingle with its tark waters I want to cast one lingerng look upon a country whose governnent is of the people, for the people, and by the people, -L. L. Polk, July

RDITORIAL NOTES.

The Windsor Orient says: "Vote, evidently forgot that under the new law no man can vote more than once on election day.

One of our exchanges says: "An Oklahoma girl advertised for a husband and got him. The advertisement and wedding outfit cost eleven dollars. Within a year he died and left her five thousand dollars life insurance. It pays to advertise."

THE PROGRESSIVE FARMER has made a splendid reputation as a "kicker." Is was not so very long ago that some said that our motto was: "Whatever is, is dead wrong." Although not so pessimistic or cynical, we did not get angry at this remark, for kickers some times do some good work. Says The Common wealth:

"The Governor of one of our States, in a recent speech, asked a vital question, how the so called best citizens can be compelled to take an active part in city affairs in some other capacity than as mere fault finders. The question has pungency in the way it is put. Fault finding alone is poor evidence of being the best citizens, and when divorced from active endeavor to reform abuses, it only produces irritation and discontent. But the earnest and brave fault finder has an import ant mission in this world. He has an ugly name, it is true, and is pretty sure to be found fault with and ultimately hated. Still the world needs him. Jeremiah and other of the prophets were mighty fault finders, and they fulfilled their mission by expos ing the corruptions of their day. Literature and art need their critics. So does civic life. Men who see what ought to be, and have power to point to better things and lead the way, will always be needed in this imperfect

world."

The Western Plowman denounces in the most emphatic manner the chronic practice of the partisan vulture press of perpetually attacking public men | the soil each year than is returned. As whose political creed of acts are not pleasing to these libellers of character. It says: "If a man is a defeated can farmer who does not wait until his soil as a rule be first made by the railroads. didate for high office, or is one who is nearly exhausted before making use This, because they are the stronger while in office acted in an independent of them. manner in his policies and opinions, the flood gates of abuse and mud are opened and the flood of slime never ceases to deluge the victim as long as there are many disagreements. The he lives. Tilden was abused as if he best practice at present seems to be in were a pirate; Hancock was ridiculed as if he were a clown; Greeley was or other crops having a clean cultiva blackguarded into his grave; Hayes tion throughout the year. On all other was treated with all the disrespect that | crops the chemical fertilizers are best a devilish ingenuity could invent, and used. and even on the clean-culture now Bryan is the bespattered object of this sort of flendishness. It is no crime to run for the Presidency and be de feated. It is no crime to become the Colonel of a regiment and to attend fertilizers are materials of commerce connected with the freight department and stinking smut. The loose smut is strictly to one's own business, as Bryan seems to be doing. The Plowman has found in farmyard manures; that is, farmers what grievances they have or which destroys, usually, the entire no special interest in Bryan and never | they contain ammonia, potash, and had in any of the men whose names we | phosphoric acid. Some of these chemhave mentioned, but it does admire decency even in the treatment of a dog. When editors become byenas, they them, and in a few cases all three are cease to be men and ought to be ostra- found. They are generally much richer at the same time the railroads. There- This station has been successful in precised."

that he so well describes here. In this potash and phosphoric acid which agricultural matters in the sections of with stirring, and to skim off the smut out. He likes to construct theories

State the "hyenas" did not stop at abusing and villifying public men, but of ammonia. There seems to be no statement that can be easily proven even attempted to degrade their native | positive agreement as to the propor State in the eyes of other States because her officers happened to be men with whom they did not agree politi- fitable, but it may be taken as a fairly sented at agricultural meetings, but

AGRICULTURE.

HOW CROPS GROW.

Correspondence of the Progressive Farmer. The growth of crops is never an ac cidental circumstance. For every step in the development of vegetable matter, nature has provided laws which may not be broken. With care and attention to particular wants, crops improve both in quality and quantity. This improvement of plants is the un derlying principle of agriculture.

Plants are improved in quality and quantity of their products, by sur rounding them with conditions most favorable to their growth and development, this may mean simple tillage of the soil, liberal feeding with fertilizers or other manures, or protection from injurious diseases and the attacks of insects. In a manure, all of these meth ods of improvement are dependent upon another. Liberal manuring of itself cannot make good the damage caused by improper or insufficient culvote early and late." Bro. Johnson tivation. Plants illy cultivated or scantily fed, fall an easy prey to the various plant diseases.

Plants grow, therefore, by giving them soil conditions favorable to their development, and by giving them ample food of the right kind and at the right time; in this is comprised practically the whole art of successful agriculture. The soil must be thoroughly broken, and kept in a high state of tilth by frequent cultivation Heavy soils should be plowed in the fall, or very early in the spring; light soils are not improved by fall plowing. The seed bed must consist of open porous soils, and this means a deep soil in most cases. No two soils are precisely alike, so that the farmer must exercise judgment for his individual conditions. It will never do to let well enough alone An effort should be made to make each crop an improvement over its predecessor. Each year's work should be studied closely, or nothing is gained

from experience. The feeding of plants is perhaps the most important feature in modern farming; because it involves the use of materials in a more or less blind manner. Manures or fertil zers are applied to the soil before the crop has appeared, and once applied are no longer under the apparent control of the farmer. As a matter of fact, the action of manure is very much under the control of the farmer throughout the whole stage of ing them on stock heavily watered. plant growth. If the soil is kept thoroughly tilled and a surface layer from one to two inches in thickness main tained constantly in a dry pulverized condition, either fertilizers or farm manures are much more effective.

In a large manures, the profits infarming depend on the amount of sales made off the farm; and, consequently it is impossible to keep returning to the soil, all that is taken off. No farm can be maintained in normal condition by the sole use of the manures made by feeding the roughage, as in such cases more plant food is taken from a result, chemical fertilizers must be

The proper use of commercial fertilizers is one of the most important problems in agriculture, and one on which using the farm made manures on corn. crops, applications of the mineral fertilizers, (potash and phosphoric acid), at agricultural conventions and farm- conducted experiments in the prevenare very profleable in most cases.

which contain the fertil zing principles ical manures contain only one of the fertilizing ingredients, others two of

should accompany any given amount the country where held. This is a tions of ammonia, potash, and phos phoric acid likely to prove most profitneeds. Tables containing the analyses tained from any State agricultural ex periment station, free of cost to farm-

Besides these chemical fertilizers, in direct fertil zers such as lime are a most important aid. Lime not only improves the mechanical condition of soils, but also tends to increase the effectiveness of chemical manures. It should be applied at least once in every rotation, say every third or fourth year, and at the rate of 20 to 40 bushels per acre. In conclusion, it is well to note that plants grow by and with the aid of the farmer's skill as a husband man. He must not blindly follow the track laid down by past generations, but must study his business and take advantage of every step forward poorest milling wheats in the lot, and proved by the experience of others as well as the points gathered from his own experience. R GARWOOD.

Jorrespondence of the Progressive Farmer. Farmers cannot get along without railroads and certain it is that railroads would be poor property were it not for the farmers. The interest of railroad companies and farmers are, or should them One should not wrong or at tempt to wrong the other. On the other hand, each should champion and guard the interests of the other as oc

casion may require. It must be admitted, however, that the farmer has little opportunity to has abundant opportunity to wrong products. One does not need to try States, while at the same time the same crop hardly paid him for drawing it from his farm to the railroad station, to say nothing about the use raising the crop.

Of course the railroad officials would claim that they were working on a very close margin, yet at the same in the spring. time they were not only paying good dividends, but in many instances pay-More than that, the officials of the roads were all liberally paid, as were most of the employees, many engineers, in a year more than many a farmer on wheat, and where rust is trouble would receive for his labor in three

years. ill feeling between farmers and railroads, but to call attention to the sit uation, hoping to suggest some way to improve it.

The foundation on which any govern ment must rest is a good understanding. Yes, thoroughly good relations must first be established and then constantly maintained. And where any used sooner or later, and it is a wise advances are to be made they should party and the one having all the advantage. Let the railroad companies undertaking has been taken,

meet representative farmers. Where not be feared." shall they meet? The answer is that road's side of the case.

tends to make farming pay better helps | dark brown, ill smelling fungus spores. in plant food than farmyard manures, fore the latter should do all they can | venting both of these smuts and recom-If the editor of the Plowman had and are consequently much more to encourage farmers to adopt better mends the following methods: lived in North Carolina during the re | cheaply applied. One of the points of | methods. The more agricultural meetcent campaign, he would have wit- disagreement is the proper quantity of ings held and the better attended the stinking smut it is probably advisable nessed a kind of journalism worse than fertilizers to use, and the pounds of greater will be the improvement in to immerse the grain in cold water,

and one of which no intelligent obser

ver will deny the truth. Railroads should not only be represafe rule that the chemical analysis of they should encourage the holding of the crop indicates about what the crop such meetings. Further, they should sometimes take the initiative in getting of all ordinary farm crops may be ob- them up. At all times they should render all reasonable assistance to those farmers who spend their time in organizing and conducting them.

> F. W. MOSELEY. Clinton, Iowa.

WHEAT EXPERIMENTS.

The Kentucky and Ohio stations have also been experimenting to ascertain the best varieties of wheat and the best methods of treating rust and

At the Kentucky Station Early Arcardian gave the best yield of twenty varieties tested, Jones' Winter Fife and Early White Leader standing second. But the Arcadian was one of the the other two heavy yielders also ranked rather low in milling qualities. The best milling wheat was Jersey

Fultz, which stood eleventh in yield. containing but one element, though a complete fertilizer consisting of onefourth (by weight) of nitrate of soda, one fourth muriate of potash, and onehalf acid phosphate, gave much better results than acid phosphate alone. be, mutual. There should be a good This was in western Kentucky. In understanding at all times between the limestone lands of the bluegrass region, potash is more needed than phosphate.

> In regard to rust, this Kentucky bulletin (No. 71) says:

grains and many of the grasses. In becomes common here in midsummer wrong the railroad, while the railroad and does its greatest injury then. From what has been said of its develop the farmer by demanding excessive ment it will be apparent that direct | tice how they are fed. You will find charges for the transportation of his applications to the attacked plants cannot be made with any assurance of hard to remember when railroads were success. The parasite grows in the in prospering, drawing the corn crop of terior of its host plants, and only ap Nebraska and some other Western pears at the surface to form its spores, and after its growth is complete and probably slips in a little fresh cow's money that the farmer got out of the its injury done. Applications of such substances as bluestone at this time would doubtless destroy many of these spores, but we not consider the appli of his land and the labor expended in cation of any solution of this kind of a rustler, and when you come along, grown; and, as has been intimated, the spores do not become apparent early

"The fact that winter spores remain in stubble and straw is the most im portant one from the practical point of view which my sketch of the develop ment of red rust discloses. It is always | They mean to say to you, "You young this old straw and stubble which fur conductors and even firemen earning | nishes much of the rust which appears some, injury can be reduced by care in removing and burning straw refuse, The above is not written to stir up and in burning off the stubble after the grain is harvested. Stable manure containing straw from bedding is a common source of injury from rust, and is not to be recommended for use dumplings for her boy when he comes. until well rotted.

"I have no evidence on this head myself, but it is believed by good authorities that red rust is hereditary; that is, the small growing threads of muecle, of bone formers-that is, of which I have spoken penetrate the the ash elements and of carbohydrates. kernels of grain while the latter are or the fuel element, that which keeps still immature and remain there dor ment until the kernels produce plants, when they become active and produce show to the farmers on their respective spores. It is asserted that seed grain lines that they appreciate their patron- saved from badly rusted wheat or age and feel an interest in their farm- oats produces badly rusted plants, and ing operations and their successful re- that by avoiding such plants in getting sults, then the first step towards a good | seed, then using the precautions in the matter of straw and stable manure Representative railroad men should | which I have recommended, rust need | to running a race or doing a hard day's

The Ohio Agricultural Experiment many good opportunities are to be had | Station has, for several years past, ers' institutes, whenever and wherever | tion of the smuts in wheat. There are As all farmers now know, chemical held. At such gatherings the officials found on wheat in Onio, loose smut of railroads could learn direct from that noticeable at blossoming time, think they have. And at the same head. It is, perhaps, more general, meetings they could present the rail- though usually much less destructive blood and hair, with not much fat than the stinking smut, which converts The writer holds that anything that the kernels of wheat into masses of

In all the methods employed for

balls which will, in this manner, rise to the top of the water. After this is completed the following treatment may be employed:

Immerse this skimmed seed, con tained in gunny bag or suitable wire mesh vessel, for ten minutes, in hot water, at a temperature of 133 degrees Fahrenheit. Then dry on smut free surface, cooling quickly by thoroughly stirring, or cold water may be employed to cool the grain. Remember, these temperatures are to be determined by a thermometer; longer immersion than ten minutes, at that temperature, may injure the grain.

For loose smut it is best to use a modified hot water treatment as follows: Soak the seed grain for four hours in cold water, let stand four hours more in the wet sacks, then im merse for five minutes in hot water at a temperature of 133 degrees Fahren heit, spread at once on a smut free sur face to dry, and sow. Use one-half more seed to replace that injured by the treatment.

LETTER TO THE BRIGHT BOY ON THE FARM.

No 2 [From Wallace's Fa mer.]

Last week I talked to you about Acid phosphate seemed to give bet | matters and things in the cow lot and ter results than any other fertilizer asked you to open your eyes and test certain theories and see how they work in with your father's practice, Inasmuch as you are in the habit of feeding pigs, sometimes at least. I want you to test some theories in the pig pen. I have a theory that farmers are going a little daft on pigs; that they think a good deal more of the nice, fine looking, chuffy, animated lard keg that waddles around the yard with a pretty little kink in its tail and makes the young girl who visits your "Ih s rust grows on all the small father's farm exclaim, "Oh, how cute, aren't they sweet little things; too sweet for anything!' If you have this kind of pigs on your farm, which I suspect you have, I want you to no they have about all the corn they want to eat. If your father is a breeder of fine hogs and is fixing them up for the fair you will probably find that he gives them of the milk of the dam and milk in addition. Now my theory is that nature don't intend a pig to grow that way; that she intended it to grow in bone, in muscle, and to be something practicable after grain is pretty well | whistling in the dog fennel or rag weed in the pasture and get close to them, they start off as fast as they can and make a queer noise which I cannot put on paper, but which, I think, is intended for a pig's laugh when something touches its tickle bone or when it sees the point of a joke. rascal, catch us if you can." These fellows have corn, but they run on clover, and they have oats once a day or pos ibly some bran and shorts, and they feel as funny as a boy going out the Fourth of July or racing home

> Now my theory is that these last pigs are fed what we call a balanced ration; that is, the proper proportion of flesh formers, foods that make the pig warm and stores the surplus as fat-while the little chuffy fellows are like spoiled children, filled up with sweets-corn, the milk of their dam and cow's milk-and hence, like some boys who are pretty to look upon in these nice suits and with their hair parted in the middle and well oiled. but of not much account when it comes work, or even hunting rabbits.

from school when he knows that his

m: ther has prepared a supper of fried

chicken, sweet potatoes and apple

I want you to notice further the brood so ws that run your father's fattening cattle, and notice particularly the strength of pigs which they will furnish next spring. My theory is that a brood sow is a pig factory and that she must be fed with food that furnishes the raw material that makes a little pig-bone, gristle and muscle: about it-and, therefore, the brood sow must be fed with food that furnishes these; and that the corn which she gathers up in the droppings of cattle furnishes too much fat, which is not wanted, and not enough bone and mus cle, which are wanted. I want you to notice carefully and see whether your Uncle Henry's theory on this works

and repair them from time to time when they don't account for all the observed facts. He finds it to his advantage to have a working theory, of the correctness of which he is never right sure until he sees that all the facts fit in nicely about the theory. When he gets this one he puts it in the paper. He has a great lot of theories which he has not worked out yet, but he thinks this one is pretty near correct. Now I want you to notice whether these brood sows, and especially the younger ones that run after the cattle, have full litters that are up on their feet before you can find them in the morning, or whether they come weak, lezy; born tired, and don't care whether they live or not. My object in writing to you is to make a sort of farm sharp eyes boy who notices everything that is going on and put this and that together and draws conclusions UNCLE HENRY.

THE DAIRY.



-EDITED BY-FRANK E. EMERY, M. S., Agriculturist North Carolina Agricultural Ex-periment Station, and Secretary-Treasurer North Carolina Dairymen's Association.

Inquiries regarding Dairying cheerfully an-

CREAMERY SHARKS

Correspondence of the Progressive Farmer. It seems as though the same class of men who at one time were engaged in the sale of lightning rods had found a better paying kind of swindling, and one that can be worked on a larger scale, in the organizing of stock companies for the purpose of erecting, outfitting and selling to such companies public creamery plants at never less than double legitimate prices and many times at much higher rates.

A few years ago this class of swindlers plied their vocation for a time unmolested and at that time their profits were even better than now. But after awhile the agricultural and dairy papers got after them, roasting them pretty thoroughly under the title of "creamery sharks." This went on till one concern by which the "creamery sharks" were mainly sent out, finding its business was being seriously interfered with decided something must be

We soon find that concern very liberal advertisers in agricultural and dairy papers, which they had not previously been.

Soon after that took place the term 'creamery shark" fell into disuse in such papers, and the 'promiters," as they were called, of stock companies for building creameries had smooth sailing.

Such companies were organized and large butter and cheese factories erected and fitted out where there were not cows enough to supply milk for even a small plant.

The average cost of such plants complete was for a time about \$7,000. The average history of a large majority of then is that they were usually operated one season, and a short one at that; in some instances only a few weeks the first season and that ended it. Such plants have come to be shunned by insurance companies as they have a habit of mysteriously disappearing in smoke. There were some exceptions, but that was the rule.

It is worthy of note that the one word or term that was used largely by the "promoters" of such companies was "co operation" or "co operative creameries." These terms seemed to take with farmers and helped to secure their subscription for stock.

The above state of affairs continued because there was no one to champion the cause of the farmers, who had been swindled and others who were prospective victime, until a paper in this city (Clinton, Iowa,) took the matter in hand and ventilated it thoroughly in an editorial. The immediate cause that led to this was to protect farmers in the paper's own county. But the effect of that editorial did not end there, but extended all over the country. It resulted in dealing a blow to the creamery shark interest, from the effect of which it has never recov-

The above is a brief account of the cause set in motion that brought about the second and lasting reaction against

[CONTINUED ON PAGE 8.]