HE PROGRESSIVE FA

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

Vol. 6.

THE NATIONAL FARMERS' ALLI-ANCE AND INDUSTRIAL UNION.

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understood that when once the soil is Peanut, N. C. Sergeant-at-Arms -J. S. Holt, Chalk sterilized by this poison, not all the Level, N. U. State Business Agent-W. H. Worth, Raleigh, N. C. Trustee Business Agency Fund-W A. Graham, Machpelah, N. C. EXECUTIVE COMMITTEE OF THE NORTH CAROLINA FARMERS' STATE ALLIANCE. S. B. Alexander, Charlotte, N. C., Chairman; J. M. Mewborne, Kinston, N. C.; J. S. Johnston, Ruffin, N. C. STATE ALLIANCE LEGISLATIVE COMMITTEE. R. J. Powell, Raleigh, N. C.; N. C. English, Trinity College; J. J. Young, Polenta; H. A. Forney, Newton, N. C.

from plant to plant. The spores cannot copper sulphate, four pound of fresh

as a rule pass from one plant to an- lime and one-fourth pint of Lepage's

other except through the air, and it is liquid glue to each 25 gallons of water.

during this touring period that they This has so far given very good results,

not danger then that the accumulation ing a a compound insecto-fungicide.

RALEIGH, N. C., JULY 7, 1891.

Ces by which the fungus is spread a mixture containing four pounds of REPLY TO BRO. CADE'S STRIC-TURES ON THE PRES-BYTERIANS.

MR. EDITOR:-In your issue of May 19th you have, in the editorial columns, some very severe strictures on the course pursued by the Presbyterian pound of hard soap to the 25 gallons of church in its dealing with Dr. Briggs, mixture. The lime decomposes the of Union Theological Seminery, N. Y. per sulphate, 5.5 pounds soda carbon- In the editorial you expressed amazeate, one-half pound hard soap to each ment that Christian people should act 261 gallons of water, has in Germany as the Presbyterian church had done. of the vine and potato blight than the was stignatized as "cast iron" and fit of Christians, and ought not to be done for her act. inconsiderately. As the charge has

roots of cultivated plants. Is there don purple may be used, thus form- appeared in the columns of THE PRO-GRESSIVE FARMER, I hope the following Arsentites cannot safely be used with article may also be admitted:

Dr. Briggs was installed Professor of soda carbonate or ammonia, for these | Biblical Theology in Union Thealogical Seminary, N. Y., last January. At his induction into office he made the When the ammoniacal copper car- following solemn promise and statebonate solution is wanted, it will be ment of his belief:

more convenient to use the dry am- "I believe the Scriptures of the Old

cry against Dr. Briggs is the result of henceforth this paper will be found "disappointed ambitions, narrow jeal- only in the field where it legitimately ousies and envying and bitter person- belongs. It is due THE PROGRESSIVE

editorial in THE PROGRESSIVE FARMER, without any comment, receives to a

alities."

great extent the endorsement of the editor. The General Assembly of the Presbyterian Church, disapproved of The following week I dropped you a the act of the Board of Trustees installwhich causes the copper to adere well postal asking you kindly to please look ing Dr. B. They did so by a vote of over the case anew and see whether 440 to 60. It was as able and consciensome to spray in any case, forms clots you had not spoken unadvisedly in the tious a body of men as ever met in a with the soap which are very difficult matter. As yet I have received no re- religious assemblage in America, and to get through the nozzle. The glue is ply or recognition, unless it is to be not a lot of disappointed ecclesiastical therefore preferable. The Burgundy found in the two recent lectures by office-seekers. The statement is absomixture, consisting of 4.4 pounds cop- Rev. Thos. Dixon on the same subject. lutely false. The question was not whether there was to be a creed taught at Union Seminary, but whether it should be that of Dr. B. or of the Presgiven better sesults against Peronospora Our time-honored confession of faith byterian Church. As she built the Seminary, endowed it, (done I mean by Bordeaux has. This mixture adheres only to be "thrown away." Dr. those of her faith) as she is responsible extremely well to the foliage. The Briggs' views were euphemistically for what is taught there, and as she ammoniacal carbonate of copper ad- styled "liberal." The Presbyterian requires of her professors solemnly to heres better, is easiest to prepare and church was dubbed a "strangler of promise to teach her creed, it seems to free discussion." These are serious me that the editor of THE PROGRESSIVE charges to be braught against a body FARMER has arraigned her too severely

> This crying out against creeds comes strangely too from an editor of an organ of the Farmers' Alliance. As Alliancemen we propose to have a creed | Lecturer. His appointment was here -the Ocala platform-and have men last Monday, June 22d, and before the swear to support it. If they don't, we hour for speaking had arrived many say they shall not represent us. That persons were on the ground anxiously is just what the Presbyterian Church | waiting for his approach, and when he says.

had to agree to support the Alliance heard in low tones to say, "He's a creel in the U.S. Senate, and THE sharp-looking fellow, and I'll bet he PROGRESSIVE FARMER was forward in the movement requiring it of him. His ing chap," and so on. terms of obligation were not more solemn or binding than those of Dr. B. Suppose now he should violate his obligations, and turn upon the THE PRO-GRESSIVE FARMER, and say, "You surely do not propose to strangle free political discussion, do you? Party right place and I am satisfied that his demands poked at representatives labors in our county will to some exmeans you want no more light upon any political question." Would that life and vigor and will result in propabe right, after his promise? There is gating our grand aims and purposes nothing, I believe, that would please the enemies of true religion more than the tone of your editorial and Mr. Diron's two lectures. As for the hindrances to the final in fact nearly all, the people seem detriumph of Christianity spoken of in the editorial, I will say that one of them, and no small one, is the spirit | the fight until the final victory is won displayed, alas! too frequently by men in high places in the church-men retaining, or striving to retain, ecclesiastical office in violation of solemn obligations, and then, too, frequently they are defended in such course of conduct by those who ought to have discountenanced it. Those who defend it lead for I tell you, brother, nobody was others to think that they think such conduct is right. If the creed of the Presbyterian Church is cast-iron, Dr. B. knew it full well when he was ordained. He renewed solemnly his promise when he was installed that he would abide by it or quit; now he could quiteasy enough. He knew it, and the editor of THE PROthe 19th Century Club and a fullfledged infidel, and nobody would strangle him any more than any of the other members of that Club. They are not complaining of strangulation. But when there, the church would not be responsible for his utterances. She is now, and conscientiously doesn't believe she ought to lend her mighty influence to the propagation of doctrines that she honestly believes would do great harm. This is a great big free country, and Dr. Briggs can find plenty of room outside of the Presbyterian Church to teach what he pleases. The Presbyterian Church has a right to say she will not endorse him, and ought to

FARMER to say that the articles com-And these lectures, coming after the plained of were published when the late editor, Mr. Cade, was in charge .--EDITOR PROGRESSIVE FARMER.]

----WRIGHT IN THE FIELD.

BALDWIN, Ashe Co., N. C., June 25, 1891.

MR. EDITOR :- As I have seen nothing from Old Field Alliance, I write. Although we are a little still, we aim to get there Eli. We have some 35 to 40 male members and the Lord knows how many females, and the most of us think we are good Alliancemen, and that in deed and in truth. We are glad to know that the great and grand organization is meeting with sach unparalleled success all over our land and country, and we say God speed the time when she may be successful in accomplishing all of her grand and noble aims, and the oppressed and impoverished farmer may breathe more freely the pure, delicious air of our beloved America.

Well I would not omit telling you and the many readers of your great. paper of the visit and speech of Bro. C. C. Wright, our Assistant District drove up he seemed to make a good If I am not mistaken, Senator Vance appearance. Some in the crowd were can tell it and he's a blamed good look-And I am glad to add that they were judging about right. His eloquent, pithy and interesting speech of over an hour seemed to convince his cheerful audience beyond all doubt that C. C. Wright is the right man in the tent animate our members with new more extensively in our county. I have been all over this county trying to do something in this direction. Many places where I have been, and termined for success, and I am hopeful that our mountain people will stay in and we can feel ourselves a free and a prosperous people. Although I visited. a few places where I had appointments where if I spoke nobody knows it; if I made any impression on anybody I have never found it out. If I made any mistakes they were not corrected. thar, and I don't guess I strained my lungs much speaking to the empty walls of such places; and in conversation with the people of some of these places led me to believe one had as well sing Psalms to a dead mule as to preach Alliance doctrine to them, for they had backslidden and made shipwrecks of their faith. The fact of it is were opposing the Alliance most heartily, yet they had once been members. Now I am glad to say that such places are very few, yet there are some. I know whereof I speak, and I would say to the brethren everywhere let us watch as well as pray. Our enemy is powerful, as wise as serpents and they pretend to be as harmless as doves, therefore let us be vigilant and stand together aed most assuredly we With best wishes for the future success of your valuable paper and its thusands of anxious readers,

No. 20

SPRAYING-ITS VALUE AND DANGER.

MR. LOITOR :- Whether the climate of the northern temperate zone is becoming less favorable to the existence of the higher orders of plants, or, whether because of the perfection of modern means of communication between different zones and climes, the lower and parasitic forms of vegetation peculiar to different zones, have become cosmopolitan —certain it is that our important cultivated plants are more affected by disease producing fungus parasites than formerly. It cannot be said that the vast number of known parasites is due to a more careful study of these organisms, whereby many formerly overlooked species have been brought to view. The time was, even within our own memories, when the loss of a crop of any kind from fungous disease was

to make a liquid destructive to absorp Fortunately for man, whose welfare utter them. They are to be pitied for Now the Presbyterian church, honis so closely bound up with that of the tive plant tissues is surprisingly small. nervous weakness and for the want of estly trying to obey the Saviour's com-Graminanceæ Solanaceæ, Rosaceæ and It was recently noticed at German proper information. The third party mand to preach the Gospel, has estab GRESSIVE FARMER ought to have known | they had been influenced by our enemy Vitacea, the perfection of artificial seed control stations, that distilled makes them tired. No wonder, There lished seminaries, of which Union it. He could be to-day a member of and turned out of the good way and methods for combating the pests have water seemed to be poisonous to young is one thing I do know, and that is, she Seminary is one. She believes the fairly kept pace with the increased plantlets grown in the process of test- is well developed, strong and robust, Bible is God's Word and the only invirulence of the pests themselves. In ing the vitality of seed. After much and that the sectional clogs, with every fallible rule of faith and practice. She this warfare the salts of copper occupy | experimentation the trouble was found wants that taught at the Seminary. other impediment, will be removed. the place of honor. The philosophy to be caused by the almost infinitesiand requires her professors to solemnly The women, God bless them forever. with the men shoulder to shoulder, of spraying against noxious fungi de- mal quantity of copper dissolved by promise that they will not teach to the pends upon the destructive power of the water in passing through a copper will shoulder a hand-stick, and with contrary. Dr. Briggs makes that these salts upon absorptive vegetable still. From this fact we should judge one long pull, and a pull altogether. promise and clearly violates it. tissue-not the tissues of parasitic that the amount of copper used in the will move them without much The Presbyterian church then says plants merely, but of all plants. The Bordeaux mixture is much larger than trouble. The very impediment that to him, you are not teaching what we organisms which produce the rots, is necessary. In fact, European ex has been impossible for the old parties believe to these young men, and we rusts, mildew and blight of our crops periments-especially those at the St. to handle for twenty-five years, cannot approve of your teaching for us will conquer by and by. are themselves plants-members of a Michael Experiment Station in the and will continue until time shall be any longer. very low order of the vegetable king- Tyrol-show that a very much weaker no more under sectional lines. The And because she doesn't want her dom. They lack the green coloring mixture will often give as good results. young ministers trained in Dr. Briggs' reason caused by the war between the matter of the higher order of plants- At this station the Bordeaux mixture States. A soild South and a solid belief, the editor of THE PROGRESSIVE Fraternally, chlorophyl-by means of which the was made with copper sulphate varying North, what a spectacle! One pulling FARMER sends into many Presbyterian nobler plants are able to feed upon the from two per cent. to one-fourth per one way and the other another. Under homes an editorial expressing amaze------be allowed to do so without being gases of the air and the minerals of the cent., that is, with from 4.4 pounds to such circumstances reason teaches us ment at the Presbyterian church for soil. Lacking chlorophyl, these fungi, one-half pound of copper sulphate to these logs will never be removed. arraigned as she has been in THE PRO-PROVED. "strangling free discussion," her belief like certain classes among ourselves, twenty-six and one-half gallons of GRESSIVE FARMER. If this right is not Now I ask every intelligent being on about the Bible should be thrown away allowed her, I hope replies will always toil not, neither do they spin, yet water. The weakest form gave as this continent: Is it not practical sense and Dr. Briggs' accepted (for there is be in order. JNO. G. ANDERSON. manage to thrive and impose them. good results as the stongest. as is to compromise, to say the least of it? no other alternative) in its place; and selves upon their nobler kindred. The well known to grape-growers and One cannot and the other will not. Harrisburg, N. C. then we are told that the final triumph copper salts, diluted as they are used others who use the Bordeaux mixture, You see we have all been like the dog of Christianity may be expected. [We frankly grant space to Rev. Mr. for fungicides, are injurious only to it is usually all washed off by the first in the manger. So if that feeling has Anderson for his article in defense of I am County Lecturer in the Alliance absorptive tissues. The foliage and rain. Since we have seen that the been removed for more charitable and feel a deep interest in its welfare his church. We are pained that any aerial parts of the cultivated plants do presence of a mere trace, if it be well blessings, we are bound to admit in and believe I have a right to enter a defense of any church, through our not absorb anything but gaseous car- diffused, is sufficient to protect the this court of justice, that the country solemn protest against said editorial. columns should be made necessary, bonic acid and they are therefore unin- foliage from infection, the safest way has been wonderfully blessed, and that This whole matter, too, takes on a especially as against any attack or whiskey traffic. jured by the copper. The larger part would seem to be to use a weak solu- prosperity will dawn upon us in the graver aspect when we see this editorial charges made in this paper. of the parasitic tissue is covered and tion and put it on in the finest possible near future. followed by two lectures from Rev. It is no part of the mission of this protected by the epidermis of its host spray, just enough to wet the foliage, In conclusion, we say to the Ohio Thos. Dixon, Jr., on the same subject paper to assail or intermeddle with and cannot be reached by the poison. with repetition of the treatment as -one on June 2d, the other June 9th- churches or religious bodies, but since boys, beat John Sherman; let him go to exterminate the fungus preying off. Another precaution which sug- lose, but everything to gain. No man gard of justice that it does seem they case of Dr. Briggs has aggrieved a upon any plant or part of a plant with- gests itself is to add to the mixture can make a million of dollars in so should not have been sent out without large number of Presbyterians, it is out at the same time destroying the some substance which will cause it to short a life-time, legitimately. just and fair and right that Mr. Andersome comment. host plant itself. The copper acts adhere better to the foliage. Respectfully, beneficially only by destroying the I am now using in vineyard practice the emphatic assertion that all this profoundly regret it, and promise that county. R. W. HUMPHREY.

guano on the coast of Peru can ever restore it to its former state, or make it fit to bear one blade of grass.

must be arrested and executed, like

the malefactors they are. By spray-

ing an infected plant we destroy its

spores as they issue from the host

plant; by spraying a still healthy plant

we give it a protective covering of

powder, poisonous to the spores of

fungi, which kills the spores as they

alight upon the leaves and branches.

Spraying is therefore always preven-

The fungicide most commonly em-

ploped in this country is the Bordeaux

mixture, which as commonly made

contains six pounds of copper sulphate

to each 22 gallons. To spray one acre

of grapevines once, takes about 66 gal-

lons of this mixture and usually six

treatments are required for each sea-

son. This gives a total of about 400

gallons per acre, containing about 108

pounds of copper sulphate. All of this

oopper eventually finds its way into

the soil. As we have seen, copper

salts are a deadly poison to all absorp-

tive plant tissues, and therefore to the

of this substance in the soil of our

gardens and orchards, if persisted in

for a series of years, may eventually

affect the fertility of the soil ? There

is very great danger. And let it be

tive, never curative.

The possible danger of using such poisons has already occasioned consid erable alarm in Europe. It came up for discussion at the last meeting of the German association of naturalists. It was shown that copper sulphate in the soil soon becomes copper oxide, which is practically insoluble and remains in the upper stratum of the soil. The sulphuric acid in the copper sulphate combines with the potash and lime in the soil and with them forms more or less soluble compounds which are washed into the drains or so far below the reach of most plants as to be prac tically lost. Its deleterious action is therefore twofold: It destroys the young roots of plants and causes the useful potash and lime in the soil to leach away. When lime is added to the copper before it is sprayed, the baneful effect of the latter upon the potash and lime in the soil is largely prevented, but its evil effect upon the growing plant roots still remains. The horticulturist must therefore bear in mind that the fungicides he uses are by no means friends to be depended on without limit. They are necessary evils, to be used with caution and the greatest economy. By hygicnic precautions the amount of copper salts used can be greatly decreased.

The quantity of copper which suffices almost or wholly unknown. spleen of the party or parties, who confession.

monia carbonate instead of the liquid ammonia.—Gerald McCarthy.

outlasting several heavy washings. I

have also experimented with a mixture

containing, instead of glue, one-half

soap, forming an insoluble lime soap

to the foliage. But the lime, trouble-

apply, and contains less copper than

any other efficient fungicide. The

great advantage of the Bordeaux mix-

ture is that with it Paris green or Lon-

any mixture or solution containing

substances dissolve the arsenic which

then scorches the foliage.

4+++ THE LAST RESORT. BOGUE, Carteret Co., N. C.,

June 6, 1891. MR. EDITOR:-Let us stop, inquire and reason together, soberly and intellectually, the cause that we find men that I will not teach or inculcate anyas they are at this time, or we are a fallen race. We find our pathway more cloudy. We say that man is a fallen creature, and did not come as he to be a professor in the Seminary. now is from the pure hand. When we [(Italics mine.) said man was not wicked, but clever. that a majority were not depraved, it augural address. In this address he seemed to sound sweetly, and harmon- explicitly states that there are three ize with all our companions, when not fountains of divine authority—the disputing on things that were agree- Bible, the Church and Reason-and able. It was so with Potter, while that men can find salvation by any of moulding the clay so long as it was ply- them. able. We see letters denouncing Col. Polk, and that class, for opinions, writing letters, &c. We heard a man which cannot be explained away. on our church yard denouncing the The Westminster Confession of Faith Alliance (the only man.) He spoke of says of the death of believers: 'The them as a class of politicians. He souls of the righteous being then (at pronounced them utterly destitute of death) made perfect in holiness are reprinciple. He declared them dishonest | ceived into the highest where they bein everything. Becoming excited, hold the face of God in light and glory would mingle curses with his expressions of contempt; their zeal he called bodies." This Dr. Briggs emphatically either fanaticism or hypocracy, often denies. With reference also to the de-

because they show the malice and the Scriptures as interpreted by the

and New Testament to be the Word of God the only infallible rule of faith and practice; and I do now, in the presence of God and the Directors of this Seminary, solemnly and sincerely receive and adopt the Westminster Confession of Faith as containing the sys tem of doctrine taught in the Holy Scriptures. I do also, in like manner, approve the Presbyterian Form of Government, and I do solemnly promise thing which shall appear to me to be subcersive of said system of doctrine. or of the principles of said form of government so long as I shall continue Un this occasion he delivered an in

As to the infallibility of the Bible, he says: "There are errors in the Bible waiting for the full redemption of their both. Such epithets could do no harm, crees Dr. Briggs is at variance with

T. J. HOUCKE. THE RIGHT THING DONE, AND AP-PLEASANT HILL ALLIANCE, NO. 73. Columbus Co., N. C., June 6, '91. WHEREAS, The fundamental principles of our order admonishes us to define our position timely on all matters that obstruct the betterment of our people morally, socially and financially; and against all monopoly, especially that most formidable one, the Resolved, By Pleasant Hill Alliance, No. 73, that we, in a non-partisan way, do extend our hearty thanks and cooperation to that large and respectable number of our township magistrates It is apparent then that it is impossible often as the rain washes the powder like Ingalls. You have nothing to in which there is such reckless disre- its course in regard to the celebrated who, as public benefactors, with courage equal to their conviction, united on the first Monday in June in their reasonable petition to the County Board of Commissioners against any Amongst a dozen mis-statements is son be heard in their defense. We further liquor license in Columbus J. J. THOMPSON, Sec'Y.