

SHED WEEKLY

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



"I am standing now just behind the mertain, and in full glow of the coming Behind me are the shadows on sunset. the track, before me lies the dark valley and the river. When I mingle with its tark waters I want to cast one lingering look upon a country whose government is of the people, for the people, and by the people,"-L. L. Polk, July 18h, 1890.

-EDITORIAL NOTES. Only 20 cents till Nov. 10th. -----

Echo answers, why? Why is it wrong for the "two parties in fusion," that is, the Populists

men of their political faith to manage tests. every department?

The people can't see why some people seem to think all acts of "two parties in fusion" wicked, while the same act is righteous and holy if it is Democratic.

We have too much confidence in Bro. Bailey's integrity to believe he is such a man. And in this connection we will say the News and Observer itself, last Wednesday, speaking of the opening of the college, said :

"This young college constantly takes on fresh life. This summer a department of biology and veterinary science has been added to the science side of the institution, and a thoroughly com petent man, Dr. Cooper Curtice, of New York, will occupy it. The engi neering departments have received thorough overhauling during vacation and many additions have been made to them The mechanical laboratories, drawing rooms and shops have all been arranged for steam heat, and a bakery has been added to the kitchen outfit." | tary standpoint than a dug well of the

germs of many animal diseases. Not all surface waters are dangerous, but all are more or less exposed to infection and may become dangerous at any and Republicans, to put men of their | time. The time it becomes dangerous party to manage one department and | cannot be detected by the eye, and not wrong for the Democrats to put may not be detected by laboratory to infect every herd along its course."

> The earth acts as a filter for all germs that fall upon it, no matter what may be their character. Only a small per cent. will pass through the first inch of soil, and a very small number will pass through the first ten feet. In the

first few feet of soil most disease germ? are destroyed by the forms that inhabit it, but should they pass further down they are restrained only by the mechanical action of the earth. If, however, a soil becomes saturated with

germs, as for example in a barn yard, or if the pollution is delivered below the surface, as in a cess vault, little purification will take place, and the germs may find their way into nearby wells. In order to be certain of the water supply, wells should pene trate an impermeable layer of earth, and the sides be perfectly sealed, as with iron tubular forms, so that no water can gain entrance except from below. A tubular well twenty feet deep is a much deeper well from a sani-

in water for four months. Making all due allowance for external influences that they may live at least a month in streams, This would be time enough If the larger streams have such a

marked influence upon the percentage of loss along their courses, it is only reasonble to suppose that the smaller streams and ponds have a like effect. It is common practice to dig out a pond to receive the surface water from build ings and yards, to dam ravines and creeks, to catch the water from tile drains and springs for water for hogs. In such cases it follows that they receive only surface water. It is apparent, then, that the first step to be taken in the prevention of hog cholera is the securing of a wholesome water supply. All animals are more or less subject to parasitic diseases, and the intestinal tract, owing to its relation to the food and water consumed, becomes the favorite seat of attack. Countles num bers of germs, eggs, larvae, etc., enter with the food, but only a small part

are in a proper state of development when they enter or they do not find suitable conditions for continuing life and therefore perish. Water plays a

of employing farm help, such men are brought into close association with the and competition with the bacteria in farmers' families. This, as much as natural water, we are forced to assume anything, has hastened the exodus of their way among us, and only eternal farmers' sons and daughters to the cities. The remedy is, we believe, in ground. If weeds are of the kind that hiring men with wives and families, garden and grow much of the food that they require. We have known this ville, Ill. plan to be adopted by farmers who had abundant capital, and with the result of bettering the character of farm help in the neighborhood. In most cases the men who began as bired help and as tenants would buy the house and lot where they first lived, and possibly some additional land, sufficient to keep them employed all the time they cared to work. Smaller farms, each worked by independent land holders, will, we think, become the rule in American farming hereafter. All the great farms that are cropped decrease in fertility, while the small farmers and gardeners usually make money.-American Cul tivator. -----

FARMING TEST.

A Concord Farmer Keeps an Accurate Account of His Farm and Shows His Profit at the End of the Year. Mr. Charlie Dry, of this place, who

and are too poor to buy them, try and borrow some. But even if we do our best, weeds, like whiskey, will make warfare will keep them in the backwill not down, the only sure remedy is and providing a house for them, with a to plow under and put in a hoed croppiece of land which they can use for a for a year or two and then re seed to tame grasses.-J. P. Vissering, Mel-

HOW TO DEAL WITH THE NEGRO ON THE FARM.

The farm laborers of the North are employed by the month, usually during the growing season and crop gathering time. After that they have to rely upon odd jobs to carry them through the winter months. Taking everything into consideration, the Southern farm laborer is paid as much as one in the North for like services. The nost characteristic differences between the white laborers of the North and the colored laborers of the South seem to be these: The white laborers of the North have more ambition and higher aspirations. They study possibilities and look to the future for the realization of their cherished schemes and desires. The negroes of the South make use of the psesent. They let the future take care of itself. They do not trouble themselves with what may never occur. They are in capable of practicing self denial, without which there can be no thrift or prosperity. They do not save their earnings. They are contented and happy, serene and joyous, though some impending calamity may threaten, but until the calamity falls upon them they give small attention to it. Under such conditions the white laborers would worry and give way to the most inappeasible irritability. As a result of this indifference concerning the future the colored laborer enjoys life more; the white laborer, studying the future, erjoys more thrift. To be independent is a secondary consideration with the negro; it is of the first importance to the white man. Liberty and progressive thought are cherished by the one; ease, peace and contentment by the other. Tae one builds up a great and durable prosperity at the expense of ease; the other retains his conservatism amidst all the vicissitudes of an advancing, and energetic civilization. The negroes deserve well of the people of the South. They should be fairly and generously treated. Their faults should be largely condoned and. their virtues should be fully recognized. Many employers object to the shiftless habits of the negroes, to their want of thrift, economy, thoughtfulness and carefulness, but those who urge these objections should recollect that if the negroes possessed all those high traits of character they would not be servants or hired hands. They would become independent and set up for themselves. The very defects in their character of which complaint is made make them servants and keep them so. Whatever they are, the teachings and example of the white people among whom they have been reared are largely responsible for. They know how to please the white people of the South, and the white people know how to appreciate their good qualities. E ch race is useful to the other. There should be the most perfect harmony between the two, and there will be when malicious outside influences cease to have any weight with the negroes. Eliminate a few vicious negroes, and the remainder will constitute a body of working people that for strength, endurance and fidelity are not surpassed by any others. of any nationality whatever. A difficult problem, upon the proper solution of which the prosperity of the South in a large measure depends, is how best to treat and employ the negro labor of the South. The problem is greatly complicated by the fact that in many sections the negroes have been taught to believe that the white people are their ancient and inveterate enemies. The two races have thus been frequently placed in antagonism, to the detriment of both. This destruction of confidence in and sympathy for each other is greatly to be deplored. The South needs the hearty concurrence and concentration of every force. moral, intellectual and physical, to regain its lost ascendency and to place it on the high road to wealth and prosperity. A few suggestions, founded partly on observation and partly on experience, are given, by which both races may be benefited.

The Populist convention in the Fifth Judicial district meets on Friday, Sep tember 16th, and not on Thursday, 15th, as previously stated.

THE PROGRESSIVE FARMER will be sent from now till Nov. 10th-after the election for only 20 cents. Send us a club. This means you.

New subscribers under our 20 cent offer are coming in daily by the score. Bro. J. P. Tucker, of Kinston, sent a club of 31 one day last week. Let every one who reads this notice send a club at once. This is important.

We wish to call attention of our farmer readers to two valuable papers "Water as a Source of in this issue: Disease," and "How to Deal With the Negro." Time spent in carefully reading these articles will not be wasted.

We did not at first reply to the Bib lical Recorder's query as to the "two parties in fusion that laid designing hands upon the N. C. College of Agriculture and Mechanic Arts" for fear Bro. Bailey would accuse us of attempt ing to ipjure his character. But as he repeats the query in the last issue of the Recorder, he compels us to give the facts in the case and we hope he will be fair enough to publish them in the Recorder.

Bro. Bailey saw so many floating mines around him that his vision was affected and he could hardly see anything else but floating mines. Accord ingly he said that we were in danger of being blown up by a floating mine and this mine was the fact that "two parties in fusion laid their designing hands upon the North Carolina College of Agriculture and Mechanic Arts."

Stand still, Bro. Bailey, and let's take a look at the facts. As you see fit to accuse Populists and Republicans of this, let's investigate, Toe News and Obser ver made the same charge last year and what did the DEMOCRATIC professors professors at the A. & M. College say? In a signed communication President Holladay, Profs. Massey, Withers, Riddick, Hill, Craighill and Gresham

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			SOURCE		

Correspondence of The Progressive Farmer. Bulletin No. 70 of Indiana Station. treats of the relation of the water sup ply to animal diseases.

By actual test it was found that horses drink from 64 to 80 pounds of water per day, or 8 to 10 gallons, water weighing 8 pounds per gallon. O course they drink less in cold weather than when it is hot, and less when idle than when at work.

Cows in full flow of milk drank 122 to 176 pounds; dry cows 78 to 100 pounds daily. They drink nearly three times as much in the forencon as in the afternoon.

Four lots of hogs were tested, each hog receiving 3 pounds of skimmilk per day and in addition the following: Lot 1, corn; lot 2, wheat; lot 3, mixture of corn and wheat; lot 4, soaked wheat. They were given all the water they would drink. Lot 1 drank an average of nearly 21 pounds per day each; lot 2 a little over 5 pounds each; lot 3 nearly 4 pounds, and lot 4 5 1 3 pounds. Owing to the close grazing habits of sheep they require but little water. The grass eaten by them is young, tender and juicy, and they get much dew. But sheep require some water every day and hundreds of lambs are lost because of the mistaken idea that sheep need no water.

The number of times an animal will drink during the day, when allowed full opportunity, is not known, but is indicated in a general way by the stomach.

The stomach of the horse is small. and, as might be supposed, does not require much water at a time, but often. The stomach in cattle is very large, and rumination (chewing the cud) is performed. This necessitates saturat ing the food with water before rumina tion can take place, and probably ex plains why so much water is drunk in the morning.

ne depth. It is also true that a shalwell may produce pure water at e time and afterward become conninated because of the saturation of the soil with germs, either by the barnyard or vault.

A laboratory test of waters from various sources showed the presence of bacteria in each cubic centimeter (about a half thimble full), to be as follows: Very filthy hogwallow, over two and a half millions; ordinary hogwallow. three quarters of a million; Wabash river above the city of La Fayette, 12,000; below the city, over 100,000; clean looking pond, 290,000; flithy watering trough, 248,000; common stock trough, 5,000; drain tile, 3,000; cisterns without filters, 5,000; with filters, 500; shallow wells, 420,000; deep tubular wells, 60 to 150.

A test of soils at various depths showed that each cubic centimeter of surface soil contained 518 400; one inch below the surface, 51 200; two inches deep, 28,800; three inches, 17,-600; six inches, 13,200; eight inches, 8,000; thirty inches, 3 600; fifty four inches, 2,800.

The bacteria ordinarily found in water are not in jurious, but the number present may always be taken as an index of its unwholesomeness. larger number indicates that it is easy for contamination to occur, while a smaller number may be accepted as an evidence of diffiulty for extraneous germs to find entrance.

Of the different diseases of live stock in the State, none produce greater loss than hog cholera. For the year ending June 30, 1897, the loss was 899,457 head, valued at \$5,396,742. A careful analysis of the statistics for each town ship and State shows that the streams play an important part in its distribu tion. In 1895, sixty townships bordering upon the Wabash from Cass county to its mouth, show a loss of 15 per cent. of the entire product, and forty seven townships in the second tier show a loss of 10 per cent. In 1896 the bordering townships show a loss of 291 per The diseases which arise as a result | cent. the second tier 201 per cent., and of supplying water in insufficient quan- the third tier 16 per cent. In 1895, four townships bordering upon the north folk of the White river lost 14 per cent. and forty two townships in the second tier, 61 per cent. In 1896 ably the most serious disease having the loss in the first tier of townships was 23 per cent., in the second tier 151 per cent. and in the third tier 71 per cent. In other words, the losses in the bordering tier of townships are field. It may occur at other times, and from 33 per cent. to 112 per cent. greater than in the second tier, and from 83 per cent. to 208 per cent. greater than in the third tier. An investigation made in 1895 and 1896 showed that the breeders of pure bred swine, who escaped hog cholera, nearly all used well water. Drs. Salmon and Smith came to this conclusion in their investigation of hog cholera. "Perhaps the most potent agents in the distribution of hog cholera are streams. They may become infected with the specific germ when sick animals are permitted to go into them, or farm employee, often the son of a near when dead animals or any part of them are thrown into the water. They may out reproach, cannot now be found ex even multiply when the water is con- cept in rare instances. Many of the taminated with fecal discharges or

more important part as a carrier of parasites than does the food,

> The life cycle of the parasites that affect animals, nearly always includes a stage of development outside of the body. Some parasites are passed out of the body as eggs. These hatch and after undergoing greater or less change, they may be prepared to again inhabit another animal. Some pass out as larvae (maggots) and after a time find entrance to another stomach. A few require an intermediate host. The eggs

> of the liver fluke develop in the snall and most tape worms prepare in one animal for their full development in an animal of another species. The egge and larvae of parasites perish without water. Drying kills them. But bac teria can generally stand considerable drying and can live in dust till they are washed in streams or other sources of water for animals. But even bacteria must have water in which to mul tiply. They cannot increase when dry.

> Hence it follows that both bacterial and parasitic diseases of animals are less likely to occur on high pasture lands than on low, damp meadows.

Among the most destructive parasitic diseases with which we have to contend is the twisted stomach worm of sheep. It is found especially on low lands along creek bottoms and around ponds. It affects sheep of all ages, but is particularly fatal to lambs. In 1886 it caused a loss of 50,000 lambs and sheep in Indiana. In seasons of exces sive rainfall it may occur upon any pesture, but in ordinary seasons it causes little damage except upon the low pastures. The eggs and embryos are passed from the sheep and fall with the droppings upon the pasture, and may be washed into the streams or ponds from which the sheep drink. Moisture is necessary for their existence outside of the body, and the drier the pasture the less the opportunity for conveying the parasite from one sheep to another. In seasons of heavy rain fall, when the grass is kept constantly wet, the danger may be mitigated to a certain extent by changing the sheep from one pasture to another every

other day. Another disease of sheep that is conveyed in the same way is the nodular disease. It is due to a small worm, and while it does not manifest itself until winter, the time the infection is spread from one sheep to another is during the summer months. Such parasitic diseases as paper skin, liver fluke and lung worm of sheep, and the worms in hogs, horses and cat tle, are all conveyed in much the same way and are largely due to surface water. Pure water from deep wells is the prevention,

man or other of the second sec
for the last year has been tending the
old Fair Grounds in wheat, has kept
a strict account of all his expenses in
tending the crop and has taken an in-
ventory of all of his resources.

The land consisted of 14 acres and following in his expenses itemized as regards the different kinds of work: Plowing and harrowing 15 days

\$15 00

16 00

19 25

\$91 00

\$150 75

91 00

7 00

at \$1 per day, Guano, Seventeen and a half bushels of

wheat at \$1.10, Drilling,

Harvesting, 10 00 Hauling, including wheat to mill, 7 00 Expense of threshing, including 10 00 feed and board. Nine bushels toll at 75 cents per 6 75 bushel,

Total.

His inventory resulted as follo vs: 161 bushels at 75 cts. per bushel \$135 75 15 00 Value of straw, ____

Less all expenses,

59 75 Am't made on investment, The above investment averaged then a profit of about \$4 25 per acre, which is a good profit, besides the fact must be taken into consideration that hands here in Concord cost him a great deal more per day than he could get an equally as good a hand in the country. A splendid hand can be obtained in the country at a good many places for the small sum of \$7 per month and board. His hauling was also hired, and of course cost considerable, but after all of these expenses, which were neces sarily high, still he netted a gain of \$4 25 per acre. Another fact is also to be considered, that is that four acres of this tract were very poor, having yielded scarcely anything.

Mr. Dry is very well pleased with his experimental farming and will very probably use the past score as a pointer to something larger.—Concorn Stand

----WEEDY PASTURES.

ard.

Editor Democrat and Journal:-The great difficulty with permanent pas tures is weeds. These are due to two principal causes; first, to too poor a stand of grass; and second, to over stocking. Some grasses are unable to endure close grazing and trampling and consequently die out, and in those vacant places many annuals spring up. In many pastures perennial grasses, most difficult to remove, make their appearence and continue to propagate, whereas, if checked in time the pastures might be greatly improved. The question of weeds for different sections varies. The kind most prominent in one part of the county may be very scarce in another, and vice versa. Most pasture may be kept tolerably clean by the use of the mower two or three times a season, not forgetting the fence corners. The absence of weeds. however, depends primarily on not overstocking, and consequent trampgreat trouble with stockmen is, that if they cut weeds at all, they do it when they have nothing else to do. Of course, some weeds, like Banquo's ghost, "won't down;" and like the poor, "we have them with us always." Sheep will effectually clear any field

said:

"While the Board had power to change every officer of the institution, it so far from 'parceling the college out among the wreckers,' changed in the faculty proper the head of only one department, and this we are assured was done solely to effect a consolidation of the agricultural work of the College and of the Experiment Station and thereby save in this department about \$700 per year by assigning to one professor the work hitherto divided be tween two."

Where are those "designing hands." Bro. Bailey? We do not suppose you claim to be more partisan than these hands." They are in a position to charges, which men of a different political faith, men of the highest character, men who know all the facts, long ago denied. But why did the Recorder abuse the Populists and Republicans for "changing in the faculty proper the head of only one department" and have never a word to say when the

tities, or not providing water in accessible places, are sporadic in character, that is, affect only an occasional ani malor a few in a herd or flock. Prob such cause is mad itch in cattle. This occurs especially in the fall of the year. when the cattle are upon dry pasture, or when turned in upon a dry stalk also be due to other causes, but with out doubt 90 per cent. of the cases cc curring in this State are directly trace

able to this cause. Sheep also suffer from impaction and constipation, and large numbers die for want of proper water supply. Hoge, especially young Democrate, and this is what the have ones, often succumb from like treatto say regarding the "designing ment. Hogs probably suffer least loss, because they receive the greatest care know. Upon the Recorder rests in in this respect, but no doubt many honor the obligation of proving its cases of colic, impaction and constipation are due to this source.

> But the losses that arise from an in sufficient supply of water are small as compared with the losses that arise from supplying impure water.

Water in small ponds, ditches, streams and shallow wells is apt to teem with the eggs and larvae of vari-Democrats discharged every Republi- ous animal parasites, as well as the hog cholera bacilli may remain alive notorious. Yet by the usual method of most weeds. If you have no sheep,

J. L. LADD. Bay City, Texas.

The tragedy in Brookfield, Mass., in which farmer Newton, his wife and daughter were brutally murdered, as is supposed, by the man employed to work on the farm, ought to serve as a warning to all farmers to be careful whom they employ. The old style of ling of more valuable grasses. The neighbor, and in mind and morals with farm employees of the present day are other organic matter. Experiments in veritable tramps, with the dissolute the laboratory have demonstrated that ness and vice for which this class is

1. The first step should be to make

[CONTINUED ON PAGE 8]