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Prof. Crosby, of Michigan, has recently conducted some experiments to determine, among other things, the degree of retentiveness of moisture that exists in various soils. Sand, clay, loam and muck were used as the representative soils, and after being thoroughly kiln dried, and equal amounts of water being added to equal amounts of the several soils, the vessels containing the soils were exposed to the August heat from the 18th to the 26th of the month, inclusive. At the end of ninetyseven hours the sand was dry. At the end of 197 hours the clay had practically lost all its moisture-that is, 99 2 per cent. of it. The loam had lost 91 4 and the muck 62 5 per cent. In a general way, therefore, it will be seen that sand dries out a little more than twice as fast as clay; that loam retains its moistholds moisture still longer than loam. While these general conclusions are not new, exact experiment with the four kinds of soils under precisely similar conditions showing their rela tive retentiveness do not exist so far as we remember.

VENESS OF SOILS.

THE RETE

Before you attempt to plant a crop. subscribe for a good paper that publishes agricultural matter. -----

FARMING AS A BUSINESS.

It is a remarkable fact, says the Oregon Agriculturist, but none the less true, that the successful farmers are readers of agricultural literature of all kinds. They make a study of their business, and by keeping posted on what others are doing in the farming line, are always able to take advantage of improved methods. There are many farmers who honestly think that they are not to blame because their cows do not yield more than 150 pounds of butter in a year, and other crops in like proportion. Because they work hard they feel they have done their full duty. and when they realize that they are continually running behind, become discouraged and say there is no money in farming. True, and there never will be for those farmers. In the commercial world a large percentage of the business men fail, largely due to inca pacity. It takes just as much, if not more, ability to successfully run a farm as a commercial business. There was, perhaps, a time when it did not, but that time has passed never to return. In times of general depression the busi ness of farming is no worse than any other business. There is money in farming for the brainy farmer, and there always will be. There is profit in a fruit orchard that returns \$50 to \$100 per acre, but unless a man knows how to care for his fruit trees so that they will yield good, clean fruit, there will be no money in it for him, and, according to his experience, no money in the business. A writer in an exchange says on the subject: "The trouble is, not that farming is going to the dogs, and that the country has no more use for farmers, but largely because they are also so obstinately wedded to old ideas and methods. Business methods have been literally revolutionized during the last sixty hates sin, and never would change without the stimulus of something like financial ruin or starvation. "If the reason of low prices is hard on farmers, it has its phases of good. It forces him to think, and that to the man 'sot in his ways,' is the most disagreeable of all work. He hates think. ing, as applied to his business, and the methods of his grandfather or greatgrandfather would still be in vogue, could he have his way."

bacon made in America, says the Farm than sufficient to pay for its cost, the News, has hitherto been too fat to meet | seed and some of the cost of production. with great favor in the markets of the It will therefore be seen that no proworld. In Europe, Danish bacon has gressive farmer can afford to ignore it | dam, and am going to put in the new first place, while that of Canada is The formula used is "to two ounces of ram. This ram will have a much larger amount of learn meat in the product of | wooden pulp (paper or fiber) bucket The American swine breeder has mix with thirteen gallons of water." been paying most of his attention to Some put the solution in a well-soaked largely pure fat, and it is not uncom pour off the liquid in a tub. The pota weight ideal, until they are largely fat large trough and a wire scoop, soaking the first tanks, and about 700 feet dis gather. producers, and very few of them are twenty or more bushels at a time, but | tant, I have placed the new tanks, from produce first class bacon must choose seed in the fall, in bushel, all slatted small fruit near by. his breed carefully. A few years ago crates, load the crates into a wagon. ture longer than clay, and that muck the Berkshire produced good bacon, carry them to the cellar, stack them ferent method of irrigation which I but the rage for great weight and the up so that the air can pass all around used on another part of the farm. On habit of getting this by feeding heavily them and when the time comes to dip land which I used for pasture are some zer yet found. on corn to the exclusion or more nitro- set the crates and all in the solution, fat producer instead of a good bacon crates at a time. When the time is up, breed. It is altogether possible to breed lift the crates out on a drain board and back to the old time qualities, but this cut at leisure, as they will dry out in is a waste of time, and to meet the pres- the crates. After cutting, put them ent demand, other breeds must be back in the crates and stack them in looked for. The Yorkshires are a first | the barn ready to plant, load the crates | class bacon breed, that promises to ob and all into the wagon and set them off had because of this disposition to pro- field. duce well streaked bacon. The Tampurpose and are largely bred in Eng-

tanks with a capacity of 360 barrels.

But to return to the subject that I On the same stream, about 200 feet be started out with, top dressing small low the first ram, I have built another fruits: Go over the field as soon after January 1st as the weather will permit and with hoes scrape out all weeds. taken in preference to that from this corrosive sublimate (murcuric chloride) supply of water than the first ram, as Big results must not be expected where country. This is because of the greater add two gallons of boiling water, using there are several springs between the a dense mass of weeds is left to approfirst and second ponds, and the second priate the plant focd and moisture at these countries as compared with ours. Let it stand twenty-four hours, then ram will have all waste water from the critical time, just when the fruit first ram. The new ram will also force needs plenty of both. If necessary run water into the same discharge pipe as a horse cultivator, or better still, a producing weight without regard to up sugar barrel and put in the potatoes the old one, thus it is necessary to lay shallow running "sweep" between the what their weight is made up of, and, and after ninety minutes' soaking put discharge pipe only a short distance. rows, remembering always that the as a consequence American pork is on a cover and tie it down and then The fall from pond to ram will be 61 destruction of weeds and not the deep feet. The two inch pipe, underground, stirrir g of soil, is the object in view. mon to find American side pork that | toes are then spread out to dry, and the | has been extended 300 feet in one direc- | The deeper you go the more plant roots has no lean in it. The favorite breeds same liquid is used over and over until tion and 900 feet in another. On the you cut, the less nourishment the plant in America have been bred to this it is all used up. Large growers use a long line, on a hill a little lower than will get, and the less fruit you will

The weeds all scraped out, I apply good bacon hogs, and who desires to the best way I ever tried is to pick the which I can irrigate several acres of broadcast over the dormant plants (never sow fertilizer on growing plants, but around them), the following mixture of my own preparation. It pays me better than any commercial fertili-

Per acre: 300 lbs. kainit, or 200 lbs. genous foods, has made this breed a using a trough large enough to hold ten damming up two streams and making muriate of potash; 200 lbs. dissolved bone, (bone dust is not soluble enough for this purpose); and 50 to 100 lbs. nitrate of soda.

Break all lumps in these and work and then running the water between in a dry place (the dirt floor of a barn the rows, that I could irrigate quite is best) a unform bed of these ingredients, on that the other and on top the tain a popularity that they have not one at a time at proper intervals in the acre of strawberries which I irrigated third ingredient, all in layers as near in this way with good results; perhaps | uniform in thickness as possible. This Seed will keep in crates better than just as good as in the other method is to insure thoroughness in mixing. Mix thoroughly with hoes; cutting squarely down through the three strata as you draw off each hoe full to stir and mix it. In short, use all your care,

Now a few words on an entirely difstreams of spring water. I found, by two ponds, and plowing a furrow from one pond to the other, and also a fur-

row from pond No. 2 to a field of strawberries which was in an adjoining field, successfully. Last summer I had one

worths are also a good breed for this in any other way, and if this method where the water was sprinkled on. is properly followed, there is no need Last summer, while irrigating this land for bacon, but in this country of sending North for seed. I have found acre, I used only the water which colthey have not been as widely intro that to soak the seed twelve hours did lected in six hours each day, thus show-

STATE ALLIANCE JUDICIARY COMMITTEE. John Brady, Gatesville, N. C.; Dr. J.F. Harrell, Whiteville, N. C.; T. J. Candler, Acton, N. C.

worth Carolina Reform Press Association.

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PAPE	R8.
Progressive Farmer, State	e Organ, Raleigh, Raleigh,
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TE9 Plow-807.	Salisbury,
The Vestibule,	Wadesboro,

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 es dropped from the list promptly. Our people can now see what papers are published in their interest.

AGRICULTURE.

To prevent failures on the farm diversify your crops.

This is the time of year when the machinery left in the fields worries everybody that sees it except the careless owner.

Smut in corn cannot be remedied by immersing in some liquid, as it can with wheat, because it is not in the corn as it is in the wheat.

One man says that goats need about the same care as sheep and will live much longer; and, he might have added, jump a good deal higher.

If a growing young animal is fed only sufficient food to sustain life, there is not only the loss of food, but the ani mal is stunted, and often to the extent that no amount of 'feeding afterward will entirely eradicate the bad effects.

It may be well to remark that it cannot generally be known with certainty, when a new variety first begins to bear, whether the fruit will be of good quality or not. It usually takes several years for it to develop itself perfectly.

A thoroughly docile animal, whether colt or calf, saves one much trouble in the care of it, and is a more satisfac tory possession. Neither is a wellbroken colt an enigma to the buyer when he comes. Let it be handled early and frequently, and domesticated before maturity.

Pasture lands are very often badly managed; late and early pasturing in-

To sow or not to sow wheat was once only a question within the bounds of the local grist mill, but it is now one in which India and the Argentine Repub lic figures as prominently and certainly. One year we experiment with wheat as a feed for swine, and the next wonder how we can afford to buy the seed. Really, the greatest need of the Ameri can farmer is more markets for his crops, rather than more crops for market.

luced as the Yorkshires.

the country will feed more nitrogenous the very first sprout, is the most vigorfoods and not so much corn, they will ous and should never be thrown out, go a long way toward making good as it always produces the very largest bacon with the breeds now found on stalks and tubers.--C. J. Norton in the farms of the country. While corn will probably remain the standard food for hogs, they should be given wheat or middlings, bran, oats, grass, milk and other lean making foods, and re ceive less corn in their rations. If a hog is well fed, and by that we mean A very slight covering of sand, less properly fed, so as to make size without being made fat, it can be finished the land is not plowed very deeply. on corn and make a very fair article of The pulverization of clay soils is greatly bacon, but if it has been grown and fattened on a diet that is almost exclusively corn, it can never be made to produce first class bacon.-Wisconsin to penetrate deeper. This also is greatly Agriculturist.

It is very common on some farms to keep the grindstone out of doors, sheltered only by the foliage of some tree in summer, but in winter exposed to all kinds of storms. These stones are always more or less porous. If they were not they would not make good material to sharpen metal cutting tools. When a grindstone gets wet and the moisture in it freezes, pieces of the stone chip off and the stone wears away unevenly, thus soon becoming of very little value.

SEED POTATOES.

It is now time to begetting the seed potatoes assorted and placed by themselves, and to think out years, and without complaint from our plans for the coming season. Of deep in the deepest part, and in winter business men; but the average farmer | course, the most progressive farmers | furnishes ice for dairy and family use. hates radical changes more than he set aside their seed last fall, but a few The drive pipe from pond to ram is authentic instances of strawberries, still have the work to do, while the four inch galvanized iron pipe, the fall non progressive ones will wait until is 61 feet, the discharge pipe two inch planting time, and then in the rush from ram to tanks, and the tanks 700 rate of 45,000 quarts an acre. This is hustle them into the ground with the hill. This discharge pipe, which I to cover the land an inch or more deep. quickly as possible, trusting to Provi dence to produce a nice clean crop of and down the other side for about 200 ers are not a few, and they are likely valves for watering. These did not any man of average intelligence, my few seasons' experience.

potatoes to use for seed are the largest three acres with what rainfall we have ones, cut to one eye and one eye in a had the last three dry summers. While nishing considerable nutriment to the ram and tanks, the ram forces more yield at the rate of over 20,000 quarts making total paid in, \$56.50.

Feeding has something to do with rule is ninety minutes. Many throw Western Farm Journal.

Many heavy clay soils are improved by a mixture of sand with the surface soil. It is especially valuable for melons, cucumbers and early vegetables. than an inch in depth, will suffice if helped by having some sand mixed with them, as this gives a chance for water to soak into the soil, and for frost aided by under draining, which almost all clay soils need.

HORTICULTURE **PROFITABLE IRRIGATION BY** HYDRAULIC RAMS.

Six years ago I purchased a hydraulic ram, 900 feet of two inch galvanized iron pipe, about as much more of oneinch, and two iron tanks with a capacity with very good results for three summers out of the six. The other three dam and made a reservoir, which covers about half an acre and is five feet and tanks, also extended over the hill fall have replaced them with two inch. My experience is that the best sized This plant has been sufficient to water

not hurt it in the least, although the | ing that at that time there was suffi cient water to irrigate four acres. A intermingle the whole mass. producing bacon, and if the farmers of away the seed end. This end grows few weeks since I have built four small dams on this land for storage of water ute evenly over the rows or beds conto be used on the adjoining land. In a taining plants. Even the most careless summer like the past, I think there mixing and application of these chemwould be sufficient water in these ponds icals will pay, but as with all other and streams to water five acres.-E C. things, the better the job the bigger Warner, Connecticut, in American the yield.

Agriculturist.

TOP DRESSING SMALL FRUITS

I have experimented with fertilizer for many years on all kinds of crops and at all seasons of the year, but the best paying application I ever made of it was as an early spring top dressing for strawberries, blackberries, dewberries, raspberries, etc. It brings large returns and brings them quickly. For only two or three months expires from the time the expense is incurred till the fruit crop is gathered and sold. I would no more think of raising these

as unwise to starve one as the other. Even where land has been well manured the previous year, top dressing the air, and transform it into nitric not only pays, but is more essential, acid, in which form the plant can conof 150 barrels. These have been used or at least, more profitable than if the sume it. A soil may be destitute of soil was poor. For on good soil there nitrogen and need both that and the are strong, vigorous plants with a vast microbes, or it may lack only the misummers we had nearly erough rain ramification of root growth. And every crobes, in which case a supply of them without any irrigation. The water atom of fertilizer matter is carried renders the field immediately fertile. supply for this irrigation is somewhat down by the spring rains and is just in Stable manure has little nitrogen but limited, being only a small stream fed the right place to be at once approby a few springs; therefore we built a priated and used to the best advantage. When the heavy yield of small fruits is considered, it is easy to see how essential it is that they should be constantly and liberally fed. There are under the highest system of culture and manuring, having produced at the take anything and everything and feet distant, 60 feet higher on top of a a prodigious quantity of fruit-enough The attendance was not very large. sole purpose of getting them buried as buried under the ground between ram Of course, it is only the most favorable all. A committee was appointed to conditions that a yield of this magni- look after them. tude can be expected. But that a very merchantable tubers. These later plant | feet, and had one inch connections and | large yield, indeed, can be obtained by | ular routine of business. to quit the business in disgust after a discharge water fast enough, so this own experiences have fully demon- managing the funds contributed to strated.

> I have never attained 45,000 quarts ing amounts received with more suban acre. Only by one man and only in scribed:

one instance has this enormous limit place, the large sized piece of seed fur- watering on the side of the hill between been reached. But I have had them Alliances, \$11 50; outsiders, \$10.50,

judgment and ingenuity to perfectly

In sowing also take pains to distrib-

There is no danger in them even when used in much larger quantities. I have used more than twice the above quantity.

When large quantities are used it is best to apply it over the middle and all and not confine it to the beds alone. This mixture is rich in potash and phosphoric acid, just what is needed to make the finest fruit and plenty of O. W. BLACKNALL,

Kittrell, N. C.

The mystery of nitrification is now so well known that any farmer can understand it. Plants live on nitrogen, crops without liberal top dressing than | but apparently have no power to take I would attempt to carry my stock it either from the air or the soil. Here through the winter without food. It is the nitrogen-bacteria get in their work. These microbes, like atomatic sponges, take in the nitrogen from the soil and swarms with the germs of microbes. Add to a field where clover seed won't "catch," a light dressing of soil from a plot where clover thrives to perfection, and a catch of clover seed is almost sure to result.

CATAWBA COUNTY ALLIANCE.

This body met with Crowdertown Alliance last Friday and Saturday. Four or five Subs were not present at

The first day was devoted to the reg-

Brother John W. Robinson, who was Bro. N. E. Propst, reported the follow-

Crowdertown Alliance, \$36 50; other

jures the grass plants so that they never do their best; insufficient seeding allows the grasses to run out and de generate and weed growths to take their place. Heavy pasturing demands top dressing. Spending neither energy nor money upon these fields is false economy.

If ready money is not available, the store account can often be avoided by growing something which can be exchanged through the season for such things as must be bought. A little time devoted to fruit, vegetables, chickens, or bees will often prove of much more value than the mere amount of money derived from the sale of the products by enabling one to avoid a debt.

RAISING PORK FOR BACON.

This country is fast becoming a nation of bacon eaters, and demand for bacon and on the whole may pay for the is very much greater now than it was trouble taken.

only a few years ago. This demand leads to a well defined call for bacon scab is an established fact, and all sucbreeds of swine and those breeds which can be depended on to produce meat well streaked with lean have a pros pect of becoming very popular. The yield of the crop to an amount more etc., together with two galvanized steel pay the best.

growing plant, especially in a dry water than it will into the tanks at the an acre. I had a whole field to average medium seed and would never plant raise the water so high. I have also this field had rain-galled places in better if they had tried. small ones unless I dropped them whole found that the ram forces more water which the soil had been more or less and then very late in the season. When on the opposite side of the hill from the washed off. This result was attained the discussions seemed to elicit much ram than it does at the tanks at top of by liberal manuring at all times, but interest. small seed is held until late it is apt to be much shrunken with but little vital- the hill, for the reason that the water be the result, and, owing to the late ram. This whole outfit cost about \$600, but has more than paid for itself in inplanting, the yield will not be large, but as a rule the crop is quite uniform

creased strawberry crops. I have found by experience that irri

gation has been such a good insurance The need of dipping seed to prevent against short periods of drouth, that this fall I have purchased another ram cessful growers now practice it. It has of the same kind and size as the first the liability to scab, but increases the iron pipe, drive pipe, valves, fittings,

The amount may reach at least \$70. spring. Next to this I would select top of the hill, as it does not have to about 11,000 quarts an acre. And even The several Alliances could have done The proceedings of the meeting and

The brethren of Crowdertown Alliabove all by heavy top dressing with ity, and probably only one stalk will acts as a cyphon, thus assisting the highly soluble fertilizers rich in potash. ance had prepared for a large turnout. As I have grown fruit for over twep-Their rations were fine and in great ty years and have devoted eleven years abundance. It was our pleasure, in exclusively to experimenting with a company with Hon. L. R. Whitner practical end in view always, I have and Capt. J. H. Sherrill to spend Frihad three objects in view: To discover day night with the pleasant family of and keep abreast of all that is best as Mr. N. E. Propst. A good crowd came to varieties of fruit; to ascertain and in and we had a pleasant time. apply the most economical and effec-The next meeting will be held with been proven that it not only reduces ram, 1,500 feet of two inch galvanized tive modes of culture; and to find out Catawba Alliance. Let every Sub. bethe system of manuring that would gin now to work for it so as to have a good delegation.-Hickory Mercury.