## PORTANCE OF INOCULATION OF ALFALFA



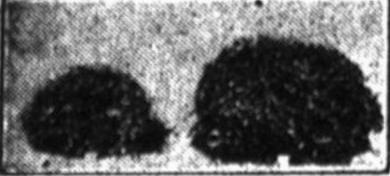
Alfalfa Field of Mr. George S. Baker, Providence, R. I. Inocuiated.

(By J. M. WESTGATE.) Throughout the western half of the United States the soil appears to be naturally supplied with the proper bacteria for the formation of the root tubercles. In the eastern part of the country, however, where the soil conditions are less favorable to the growth of these bacteria, it is nearly always necessary to supply them at the time of seeding. This inoculation may be supplied either by scattering soil from a successful alfalfa field or to the form of artificial cultures.

Although possessed of some disadvantages, inoculation by means of soil from a successful alfalfa field will nearly always produce the desired results. It is essential that care be taken to avoid the introduction of seeds of noxious weeds or harmful plant diseases. The bulkiness of the 300 to 800 pounds of soil necessary for an acre makes it advisable to secure the soil from a field as near by as possible.

It has been found that soil from around the roots of the sweet clover is quite as effective as sifalfa soil. In most sections of the country this plant may be found growing wild in scattered clumps. In the south, where burr clover occurs, soil from around its alfalfa plants will be smothered out roots may be used with good results. The soil may be mixed with the seed and sown with it. It may also be drilled or broadcasted separately. If broadcasted, the soil should be scattered on a cloudy day or toward evening and immediately harrowed in, as sunshine is harmful to the germs.

If the soil has to be freighted conadderable distances, it is usually advisable to use but 200 or 300 pounds of soft per acre, but this should be mixed with several times its weight of ordinary soil to facilitate even seattering. injured the stand. If the soil is difficult to secure, it may



First Crop of Alfalfa, 1910. Farm of Mr. Fred S. Winson, North Provi

No. 1. Ground Magnesian Lime stone, No. 2. Ground Limestone, All Fertilized and Inoculated Alike,

be best to seed a very small area the first season, taking special precautions to have it thoroughly inoculated. This will then furnish an abundance of soil for inoculating a larger area the following season.

It cannot be urged too strongly that inoculation is absolutely essential to the successful production of alfalfa. There are very few soils outside the alfalfa districts that do not require inoculation, and it may be taken as a general rule that all other soils must have the inoculation supplied in order to grow alfalfa successfully. A few soils, however, especially those upon which sweet clover grows naturally. seem able to produce successful stands without artificial inoculation. These the rule

tion and application as well as in the absence of the danger of introducing tion plant diseases or harmful weeds. Incentation produced by the cultures, in case it is successful, seems to be in every way as efficient as when the soil method is used. Fewer failures are reported in the case of the soil-transfer method, however

more apt to follow inoculation with mire cultures if the seed is sown immediately after the seed has been dried after having been inoculated. There is some evidence accumulating to indicate that the germs in the pure cultures when they do survive are superior to those normally found in he alfalfa soft. It is suggested therenethod and the artificial cultures be tion as a cure after the disease has

autumn, alfalfa will require no more than 12 Inches planta should be elipped with 8 or 10 inches of growth. condition they will be best able

made preferably when the basal shoots start and should be made 3 or 4 inches high, as the plants will be slow in recovering if cut too low. It may be necessary to cut at some other time than the ideal time indicated, as, for instance, when the weeds threaten to choke out the young plants, when the blossoms appear, or when the plants begin to turn yellow. Except in the latter case the clippings are usually left on the ground as amulch.

If the plants have turned yellow owing to some disease, the clippings should be raked up and removed. A top dressing of nitrate of soda will sometimes invigorate the diseased plants. The same statements govern subsequent cuttings the first summe except that the growth is usually too heavy to be left on the field.

Ordinarily no treatment is required during the second season, except to cut the hay when the plants are about one-tenth in bloom, or, better, when the new crown or basal shoots are starting. It is important to get the hay off the field as soon as possible, in order to allow the new growth to commence uniformly over the field. If the windrows or cocks are allowed to remain too long on the ground, the and then bare spaces will form the centers from which weeds will apread. No pasturing should be allowed

during the first or second seasons, as the crowns have not become suf ficiently well developed to withstand the effect of trampling. About threefourths of a full crop may be expected the next season after late summer seeding in the humid regions. Nearly a full crop is usual the second season after spring seeding if the weeds of the first summer have not seriously

As long as an alfalfa field shows a perfect stand, with no tendency to run to weeds, it is not customary to give the field any special treatment. If the weeds begin to prove troublesome, it is advisable to disc the alfalfa after cutting. This process loosens up the soft and aerates it, which is decidedly advantageous to the alfalfa. The taproots of the alfalfa plants are not usually injured by this practice if the discs are set nearly straight, while the weeds are to a great extent destroyed. A spike-toothed harrow may follow the disk to level the ground.

### SPRAY POTATOES TO DESTROY BUGS

To Be Made Effectual It Must Be Done When Plants Are Eight or Ten Inches High.

(By W. M. KELLEY.) When the broods are first appearing is the time to get after the potato bugs. The best known remedy is

To one barrel of water use threequarters of a pound of paris green and to this add about one gallon of strong lime water. This will prevent the however, are the exception rather than burning of the foliage by the paris green being too strong and will also The advantages of artificial cultures make it adhere to the leaves better. He in the greater ease of transports. Keep the contents of the barrel well stirred while the machine is in mo- ple have a chance.

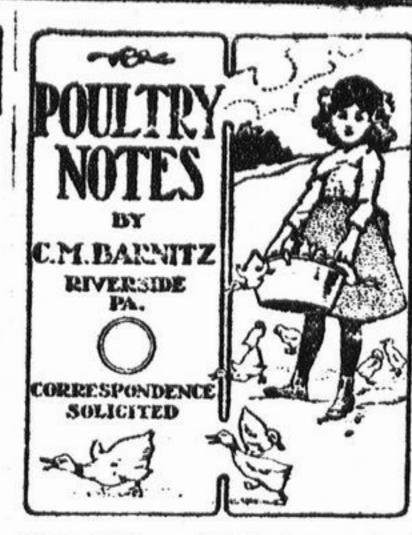
two acres of potatoes. My experience with spraying as a preventative of blight has convinced me that should begin early before the disease Leghorns surpass these, the egg ma has appeared. Some potato growers who are the most ready to condemn It has been found that successes are spraying wait until the disease gets a duck, but their eggs, much like the foothold and try to cure it with a fancy Minorca, are par excellence, and strong bordeaux mixture.

I believe that if spraying is to be made effectual it must be commenced when the plants are eight or ten inches high and be continued at frequent intervals during the whole of the growing season. I have every faith in spraying as a preventative of that both the soil-transfer the blight, but no faith in its applica-

Bugs may be held in check by the use of the poison in the bordeaux mixture, and when we consider this advantage it is plain to see that the cost of the applied fungicide is very much

Cufl Out Boarders.

Weed out the old hens and fatten at shape to renew their growth | gip to drop off in egg production. hay should be secured in the and the pullets will be more profitable



[These articles and illustrations must not be reprised without special permis-

#### THE DUCK EGG.

In England, in school, a cipher is called a duck egg as much as to say that a duck egg amounts to nothing. but in many parts of the old world. Holland and China in particular, the duck egg is an important part of the diet, and millions of ducks are kept

In America the duck egg is fast crawler quietus gaining in popularity, the old prejudice



A PEKING TRIO.

that they are strong in flavor dying out with the advent of the up to date

That early duck egg, when streams abounded in fish and other life, was not a delectable epicurean morsel for the ancient quack waddled where its fishy fancy led and feasted all day on tadpoles, mullets and water skippers, and both the duck and its product had a fishy taste that wouldn't come off.

But the day of the puddle duck is past, and even the day of the green shell duck egg is passing for, though the color of the shell has naught to do with the smell, the duck that lays the popular white shell egg is here and these eggs are gaining in the markets right along, and especially in the cities where middlemen are glad to pay a premium on them to serve to their high class Hebrew trade, and the rea-

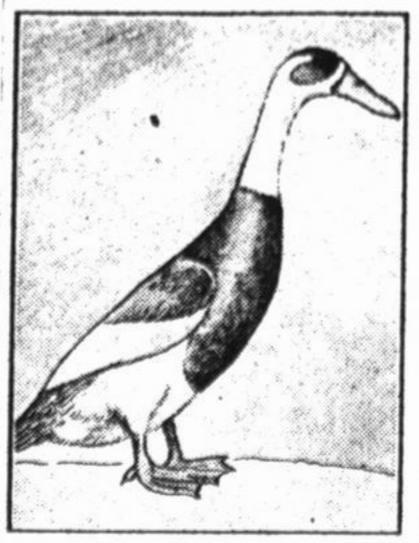


Photo by C. M. Barnitz.

son so few are seen is because these Jews gobble them before other peo-

The Peking and Indian Runner are One barrel is sufficient for about the prolific laying ducks, but the in dian Runner is well termed the "Leghorn of the Duck Family," and we have seen them in a test with White chine of the hen tribes.

The Runners are an excellent table we advise any who have that old prejudice against duck eggs to try a few from a pen of Runners, bred, fed and kept on the up to date plan,

The prejudice will vanish almost a quick as that savory golden yolk and delicious silvery white.

#### DON'TS.

Don't expect to raise turkeys on the canary bird plan. Let them roam: they'll come home.

Don't use much grease on young stock for lice. Persian insect powder

think you're smart go tell it to Swee- about it is many of its members are

culture wholesale unless you first master the detail. Don't growl about your work. Hustle.

Don't expect chicks to be free from gapes if they run on rank ground. Don't let your back yard grow weeds to need the neighborhood. Don't let jenjoner make gon mise ble and destroy your friendships.

MY BULLY VACATION. My vacation? You bet I have had it! Why, no, I didn't go away To the mountains way up in New Hamp-

Nor down to stylish Cape May. You know I had the dyspepsia,

So I shipped my wife to the sea, And I packed my duds in a suit case And pulled for the farm country.

worked in the fields in the sunshine, I chopped wood out in the shed, mowed the grass in the meadow And pitched big sheaves overhead.

And soon I could eat like a grubber. Why, the grub just slid out of sight!

And slept like a rock all night. I've lost every trace of dyspepsia, But my wife got it down at the shore, And it cost her five hundred dollars, The Jimjams, you bet, and some more.

was up in the morn with the robins

#### THE POULTRY DOCTOR SAYS-

C. M. BARNITZ.

Applying kerosene undiluted for lice is cruel and only kills the bugs which it touches or in close contact to the fumes. It blisters the skin, stops laying and often kills or spoils the bird for breeding.

Gasoline alone should not be applied either, as it is apt to asphyxiate the fowl, and both kerosene and gasoline in pure form are too expensive and im not just to get eggs to batch ducklings, practicable for such work and a poor but to lay eggs for the table and substitute for dust or louse powder. the form in which nature prescribes

> Cottonseed meal is a mighty poor substitute for beef scrap for feeding fowls, as it invariably causes intestinal disorders. Much of the so called beef scrap on the market also should be handled with care, and the presence of that fertilizer smell should be a quick argument for its return to the shipper or consignment to the dump The best and safest ment food is green cut bone, but where fowls have good summer range they get enough protein in the bugs and worms and clover they

Carelessness in disposing of dead fowls is one cause of disease and death among fowls in summer. A neighbor lost sixteen fine hens because a dog dragged another neighbor's dead fowl within reach of her chickens. A decaying cureass often kills off a flock of chicks which feast on it. People who allow fifth to accumulate on their premises or carcasses there to mortify are a menace to the community and belong to the bughouse period of the stone age.

Many chicks find their early demisein certain commercial chick feeds that are so highly advertised for their freshness and protein content when they are mostly made up of moldy cracked corn, dust, grit, stale grain, weed seeds and old ground garden seed from a previous season.

The wise poultryman examines his feeds closely, and when he finds a bad lot sends samples to the state department, where a department exists for the analysis of feeds and the detection and prosecution of feed dopers.

FEATHERS AND EGGSHELLS. The parcel post will be a great factor in bringing about a law for the sell ing of eggs by weight in states where the law is not yet in force Selling eggs by the dozen is just as much out of date as trading turkeys for glass

If you are exporting Mondains to get large size the French strains of these pigeons are largest and breed a squab that at four weeks reaches one to one and a half pounds. Mondains are very free feeders and fast breeders and. crossed with Runts and Maltese bens. prove very satisfactory.

An American at a banquet in London while making a speech about motoring remarked: "In London they give two toots before they kil! a man. In Chicago they only give one toot, and that is far too short a preparation for eternity." The old farm ben crossing the country road doesn't even get one toot from the city joy rider.

"Lady Show You," the White Rock hen that smashed records by laying 281 full weight eggs in a year at the Missouri egg laying contest, was sold by her owner for the tidy little sum of

Fussy hens with chicks are a nuisance. They not only make the chicks afraid of you, but always go where you don't want them to, fight with the other broodles, skin any strange chicks hat come near and generally butcher part of their own brood by their rough

Many buying their first incubators secure too large a machine; others buy an incubator that is too small for practical purposes. We advise the 150 egg size for a starter. It's about right for the medium sized flock, is easily controlled and is a size that sells quick

A Wilkesbarre (Pa.) attorney, while visiting Carlisle, Pa., was so attracted by a fine Plymouth Rock rooster that he went broke to buy him. He later carried the bird to a pawnbroker and pawned him for ticket money to get home. He was a young and inexperienced lawyer or he would have selected a fat goose.

A bill was recently defeated in the New Jersey senate requiring that owners of cats pay a license of \$1 for each feline or give up their cats for ruthless slaughter. The Audubon society Don't parade as a wise guy. If you backed the bill, and the funny thing old maids, but perhaps the Jersey Don't start any branch of poultry branch is not of the cat nursing single sorority. We claim that cats catch few birds or chicks when fed a portion of meat, but so many poor Tabbles are half starved, and they must grab what's handy of suffer nine horrible

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