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THE FALL ARMY WORM.

Working Its Way Northward-How to Deal With the Pest.

Prepared by the United States depart-ment of agriculture.] The department of agriculture has warned the farmers to be prepared to meet the attack of the fall army worm, which is coming east and north from

When they first appear the worms are very small and feed beneath matted grass, etc., but they grow rapidly and suddenly migrate in myriads to the corn or sorghum fields. If the ground beneath the corn rows is grassy the worms will probably originate there and feed there until partly grown before attacking the corn. There is danger, therefore, that before the farmer is aware of their presence be will find his corn stripped to bare stalks and his alfalfa to bare stems.

Where a close examination of a cornfield shows the presence of the fall army worm actually attacking the corn the department recommends dusting them with powdered arsenate of lead, using three to five pounds per acre, mixed with two or three times its weight of flour.

This precaution is, of course, out of the question on forage crops or on corn afterward to be used as fodder on account of the danger of polsoning stock. In such cases 100 pounds of wheat may be mixed with a couple of pounds either of paris green or pow-dered arsenate of lead, preferably the former, and the whole mass worked into a stiff dough by the use of three, to four gallons of molasses and the juice of half a dozen oranges or lemons added thereto. If this is sown broadcast on the ground where the worms are at work they will feed upon it and be killed. This worm, it has been found, will come to the polsoned balt from distances of from five to ten inches In alfalfa fields the immediate cut-

ting and curing of the alfalfa is advisable as soon as the infestation has been discovered. This will not only save the hay crop, but will cut off the food of the fall army worm and check thereby the development of another generation, which may be many times more destructive than the first. As soon as the hay has been removed from the field the ground should be rolled with a heavy roller or brush dragged, or the poison balt can be used.

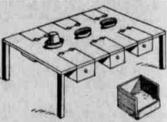
The habit of the moths of descending an inch or two into the ground in order to pass into the pupal state is of great importance in their control. It has been estimated that shallow cultivation will destroy from 50 to 90 per cent of the insects at this time, the efficiency of the measure depending upon the thoroughness with which the work is done. In alfalfa the use of the spiked tooth harrow or the alfalfa cul-tivator is best unless it is known that disking is not injurious to plants.

Cuitivation of the ground between the rows of corn has been found to destroy nearly all of these pupae, thereby preventing the development of another generation. Ordinarily there are from three to four or even five generations of the fall army worm in the course of a year, the damage done increasing as each successive generation spreads.

When fields are threatened with in vasion, but have not us yet become actually infested, a deep furrow should be plowed out around the entire circumference of the field. Into this furrow the advancing worms will fall. They may then be killed by dragging a heavy log through the furrow, or in sections where irrigation is possible the furrow may be filled with water and a small quantity of kerosene sprin kled over the surface. This will kill the worms almost instantly.

The fall army worm when a full grown caterpillar is about one and a half inches in length. The body is striped on a ground varying in color from a pale, yellowish brown to black. more or less streaked and intermixed with dull yellow. On each side there is a broad yellow undulating line more or less strongly mottled with red When very young, however, the caterpillar is nearly black. The worm will attack almost any form of vegetation that is encountered and owes its name to the fact that, except in the extreme south, it does not appear until very much later in the season than the common army worm, which it closely

Feed Table For Poultry. I use in my henbouse a table or platform on which the drinking vessels and the food and other hoppers are placed. This table is in the middle of the house and is two and one-half feet high. Both sides of it are fitted with nest boxes that can be pulled out and closed. The boxes are a foot square and ten inches deep. The back part of the box is boarded up three



inches, which leaves an opening for the hen to enter the nest from bepeath the table.

Over each nest a door is cut through the top of the table and hinged in place, thus making it convenient to gather the eggs without pulling out the box. The advantages of such an arrangement are: The eggs can be gathered without stooping, the nests are dark, no floor space is utilized, the food and drinking water are kept clean. the nests can be taken out and cleaned with little trouble.-Correspondent of Farm and Home.

******* PASTURING YOUNG CLOVER.

Overpasturing during the fall is a fruitful cause of failure with the clover crop. Many farmers who have succeeded in getting a good growth of young clover cannot resist the temptation to turn their stock on to it after harvest, allowing the animals to eat it down as close as they can. This is a great mistake, as the young plants need all their leaves at that time to gain strength for the next season's growth and to protect them from being winter killed. If there is any danger of the clover becoming so far advanced as to form heads it would be better to run a mowing machine over the field, setting it to cut as high as possible, so as not to injure the crowns of the clover plants. By removing the dividing board the clover will be spread evenly over the new the ground is thus cleaned of the ground is thus cleaned of the ground is thus cleaned of the ground is the ground at the grou not be left in bunches, but will mulch is formed that will aid in protecting the young plants durin the winter. After the grain has been removed it pays to turn in a few hogs or other stock for a week or ten days in order that the waste grain may be cleaned and thus saved, but don't pasture the young clover continuously from that time until late

*1414141414141414141414141414 SUMMER PRUNING OF BERRIES

in the fall if a good growth of

clover is wanted the following

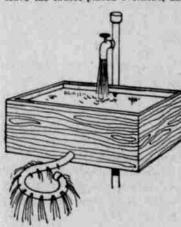
spring.-lowa Homestend.

Doing This Work In Good Season Conserves Strength of the Plants.

The summer pruning of raspberries and blackberries-that is, cutting back the wood of this year's growth to keep it down low enough so the fruit can be conveniently reached when ripe next year-will cause the plants to send out lateral branches. Do this pruning at once in order to force early growth so the branches will mature early and growth be checked in the autumn. Winter injury will result from the late pruning, as it does not start growth early enough to allow the wood to ripen before cold weather, which is likely to kill the plants, Whole fields of caneberries have been ruined by too late pruning. Pruning early permits the work to be done easily and conserves the strength of the plants.

Raspberries and blackberries allowed to run wild soon exhaust themselves to producing cane and will only produce a few berries on the end of the cane. A red raspberry cut back bears its fruit just back of where it was nipped and on the short branches that shoot out from the main stem.

Shower Bath In the Barn. About the greatest comfort in the busy season is a convenient place to bathe. For those who are not fortunate enough to have a porcelain lined bathtub an excellent substitute may be made in the corner of the barn, provided water pipes are installed by the aid of windmill or engine power. Have the faucet placed overhead, and



zinc lined box. From the bottom of the box a ring shaped per-forated pipe should protrude, under which the bather stands. With a platform of slats to stand on the water can easily be made to drain off properly. Water stored in high tanks is of the right temperature to bathe in during the hot summer.-Farm Prog-

Birds and Insects.
Within certain limits birds eat the

kind of food that is most accessible, especially when their natural food is scarce or wanting. Thus they sometimes injure the crops of the farmer who has unintentionally destroyed their natural food in his improvement of swamp or pasture. Most of the damage done by birds and complained of by farmers and fruit growers arises from this very cause. The berry bearing shrubs and seed bearing weeds have been cleared away, and the birds have no recourse but to attack the cultivated grain or fruit which have replaced their natural food supply. The great majority of land birds subsist upon insects during the period of nesting and molting and also feed their young upon them during the first few weeks. Many species live almost entirely upon insects, taking vegetable food only when other subsistence fails. It is thus evident that in the course of a year birds destroy an incalculable number of insects, and it is difficult to overestimate the value of their services in restraining the great ilde of in-

A Hurried Interview,



"Papa, did Harold ask you for my hand tonight?"

"Les." "What did you say to him?" "Ob, he left before I came to that."-Wisconsin State Journal.

Kindly Turn.



Waller-I let Binks have \$10 a year ago. I guess he thinks I have forgotten it.

Woods-Why don't you tell him you have, so he won't worry? - Boston Globe.

Uncongenial.



The Dog Fancier-This pup is a thoroughbred French bull, madam The Customer-He's awfully sweet but I can't take him because I don't U. S. Commissioner. Office in Crook speak French.—Washington Star. County Bank Bldg., Prineville, Ore.

Needs No Aid.



"Yes, I've spent a whole fortune teaching that eldest girl of mine music so she could get a husband."

"But what about your other daughter?

"Oh, she's pretty."-Wisconsin State Journal.

Just a Hint.



Mrs, Gab-Well, you can believe it or not, just as you please, but this is just how it was told to me. Mrs. Blabb-Heavens! And wasn't

you bored to death?-New York Globe.

Endurance Test.



She-Every time I begin to talk to you you sit down. It's very rude. He-I know it, my dear. But I am physically unable to stand for that length of time.—Pittsburgh Press.

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