

PARIS GREEN IS RECOMMENDED TO CONTROL DESTRUCTIVE PEST

Cut-worm Does Much Damage in Gardens and Sometimes to Foliage of Fruit Trees—Caterpillars Usually Lie in Concealed Place During Day Time and Come Forth at Night to Feed.

(By WM. J. PARDY.)

By "cutworms" is meant the larvae of certain millers or moths. The term is applied to a number of species which are very destructive to gardens and field crops. The caterpillars when full-grown are about one-half to one-half inch in length. They are brownish in color. Though there are some differences in the life histories of the several species, they are sufficiently alike in some of their habits so they may be fought by similar methods.

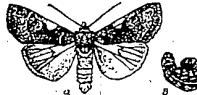
The larva is a flat, dirty gray or brown creature, an inch or more in length when full grown and practically hairless. The W-marked cutworms are especially apt to damage crops marked by a double row of black spots, which in the first mentioned species are of equal size, but in the second the spots gradually decrease in size toward the head.

The caterpillars usually are curled up during the day, in a sheltered spot or in the earth. After nightfall they come to the surface to feed upon what vegetation may be available. They are fond of young, tender, cat-tail, leaves, buds, fruit, stalks or roots, and, showing a decided preference for plants that are young and succulent. When the hibernating larvae first begin to forage they are particularly injurious. Not infrequently a farmer will be obliged to reset plants several times before a stand is obtained because the pests eat them as fast as they are set. The injury continues until midsummer, when the larvae are full grown.

The larvae then burrow into the ground to a depth of four to six inches to form a cell in which they pupate. Later in the summer the moths emerge. These differ somewhat in coloring in the various species, but for the most part have grayish or brownish obscurely marked fore wings and grayish or yellowish white hind wings.

The most effective remedy to the poisoned bran mash which has come into wide use is this. It is made by mixing half a pound of Paris green with 50 pounds of slightly moistened bran. In making this, it is best first to dampen some of the bran slightly with water containing a little sugar or an half a pound to a gallon. After mixing thoroughly, add the Paris green to just enough of the bran to make its surface and all the time.

When required for garden use, mix a little of the poisoned mixture by hand around such plants as are liable to attack. When crops are planted in rows a convenient way is to make the mixture rather dry and then distribute it by means of a wheel seeder. In

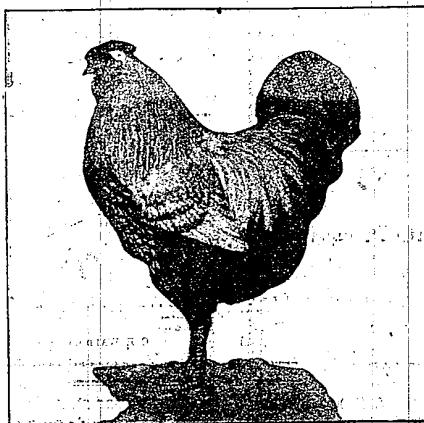


A Cutworm Moth. B. Cutworm.

field practice, among close-growing crops as standing grain, which are sometimes injured by cutworms, the poisoned bran remedy is also serviceable. The mixture can be distributed by means of a paddle or shingle and can be thrown easily to a distance of 20 feet. When distributed in this way there is much less danger of chickens and birds picking it up than if it is scattered by hand.

The question of danger from the use of this poisoned bait is one that must be considered. As a rule there is little danger from this cause. The quantity used is so small that it is not noticed by poultry; then, too, in gardens, poultry do so much harm to plants that they should never be admitted at the time of year when cutworms occur injuriously and only at

EXCELLENT PRODUCER OF EGGS



Stocking to one brood of fowls is produced of eggs and meat. It comes for the average farmer. The Shaver Laced Wyandotte is an excellent fowl as any for farm conditions.

BLUE GRASS GIRLS WHO SHOT TO KILL

TWO YOUNG DAUGHTERS OF KEN-TUCKY MOONSHINER ROUT A REVENUE POSSE.

DEPUTY MARSHAL IS KILLED

Sisters, Aged Fifteen and Eighteen, Surprised in Their Mountain Home, Give Deadly Battle—A Tragedy of the Kentucky Wild.

Sargent, Ky.—After a 50-mile ride into the Kentucky mountains, now and then following a stream swollen by spring freshets, the correspondent found among the towering pines about Long Fork creek the Tackitt sisters, Bettie, aged eighteen, and Fannie, aged fifteen, who recently had run away to a posse of revenue officers, killed one, wounded another and put the United States deputy marshal to command to flight.

A no-man's-land in the village bushes, a ground marks the place where lies Charlie Smith, deputy marshal, with a bullet still embedded in the muscles of his heart. The sisters are charged with killing him. One or both admit it but they declare they fought in defense of their aged mother whom Smith had shot and beaten with his revolver when a raid was made on their still in the mountains of Pike county.

Revenue notables had scented the nest in the mountain cabin of Sargent, in which now was being conducted a skirmish in violation of at least seven pages of government statutes. Of course it had to be raided. The task was assigned to Deputy Marshal J. Matt Potter, one of the bravest officers in the south. For seven years he has been in the service of Uncle Sam; and more than twice had shot down moonshiners who fired on him. He picked Leff Scallion and Charlie Smith for his principal subordinates in his physical participation in the necessary raid.

The fact that these small tools are bought at a time as needed, and not carried for systematically, leads to a very erroneous idea of their value. Summarizing the inventories of these 32 farms, it is estimated that to completely equip a general farm of 150 acres in Ohio with small tools will probably cost from \$200 to \$300, or in excess of the farmer's "guess" by more than 500 per cent. An error in judgment of this amount, particularly when the error is against the farmer, is serious enough to challenge attention.

Even on farms where inventories are habitually taken, these tools of minor equipment are usually included as "other small tools," and given a guessed at value, somewhat after the stereotyped expression appearing on sale bills: "other articles too numerous to mention."

Farm requirements differ very greatly, the highly specialized farm needing nearly as many tools as the general farm. The necessity of a fairly complete outfit is apparent if the farmer would avoid expensive trips to town or to the neighbors to meet some immediate need, thereby stopping teams and laborers until the repair is effected. The advantage of some systematic arrangement is also apparent in order that the exact tool required at a particular time and thus avoid loss and delay by reason of mislaid, borrowed, stolen or lost tools.

Some of these tools can be charged to special farm enterprises, as to the horses, dairy, corn, hay, grain, etc., but by far the great majority constitute an overhead charge against the farm. The connection between an auger bit handle and a bushel of feed, or between a pitchfork and a mallet, but it requires the auger bit handle to turn the bit, bore the hole in the plank, to make the wagon-hack, to grease the wagon that hauled the grain to the machine, and that brought the wheat to the mill. Before the bushel of wheat can yield a profit it must help pay for the auger bit handle and the other minor tools which total a hundred or more dollars in value on any well managed farm.

The revenue officers did not know. They rushed the house to get him but met his wife instead. Defending herself with stoutwood she beat off arrest until she was shot through the scalp and arm, and beaten into submission by Deputy Smith. Bettie and Fannie Tackitt were not inactive during this interval but were gathering guns and ammunition for a fight that lasted several hours in which three men were pitted against two girls. Smallwood was wounded in the arm and crippled when shot, but on the heels of his retreat he laid his gun and he was out of the battle. The Kentucky sisters were then pitted against the deputies.

Fleming Smith, underestimating the nerve and marksmanship of the girls attempted to take the house by storm. He moved forward from his shelter, covering both windows with his rifle. He raised the weapon to shoot but in an instant he was severely wounded with a bullet in his heart. Potter received without a flinch. Both girls were put under guard for appearance at court. They are much admired for their bravery.

Penny Smith, underestimating the nerve and marksmanship of the girls attempted to take the house by storm. He moved forward from his shelter, covering both windows with his rifle. He raised the weapon to shoot but in an instant he was severely wounded with a bullet in his heart. Potter received without a flinch. Both girls were put under guard for appearance at court. They are much admired for their bravery.

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HAD BEEN SILENT SUFFERER

Subordinate Officer the Recipient of Hints Intended for His Superior.

A sea-captain's wife tells this story of a maiden woman, sister of one of the owners of the ship on which she once made a long voyage. She had very decided opinions on most matters, and she and the captain had many spirited arguments at the dinner table.

The captain's wife, a meek, submissive little soul, fearing that her husband might say something to offend her Augustus, had the habit of keeping him on the舷 to hint at moderation. Nevertheless, all these remonstrances passed unheeded.

One day she administered a more vigorous kick than usual, and noticed an expression of pain hit across the face of the mate, who sat opposite her.

"Oh, Mr. Brown, was that your sharp kick?" she asked.

"Yes, Mrs. Blakite," said the mate, meekly, "it's been my skin half the voyage, ma'am."—Yours Companion.

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For DISTEMPER

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Strewn and positive preventive, no matter how many dogs are infected or how many are healthy.

For DISTEMPER. For the cure of dogs and sheep and other animals.

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