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HE army worm has done damage to Ontario crops aggregating tens of thousands of dollars. From one end of the province to the other farmers are working together to save their crops from the depre-dations of the army worm. At first regarded as a local pest and of particular interest to no one except those on whose farms it had appeared, farmers have come to recognize it as a community pest and the community has united for the battle. Starting originally in Brant county, the army worm has now extended its operations over almost the entire province, the Ottawa Valley and extreme Eastern counties being the only ones to escape without some serious damage. Over 20 counties are known to have it to a serious extent, and it has been

a serious

A serious

How may the pest be controlled if it appears in our locality? is the question being asked everywhere. Prof. Caesar of the Department of Entomology, Ontario Agricultural College, has issued a bulletin that supplies the necessary information. It plies the necessary information. reads as follows:

CONTROL MEASURES. "The army worm is a stout, smooth bodied caterpillar, blackish or brown-

the trench works excellently clay soil it is often advisable extra precaution to heap up the earth on the crop side alor trench. The small particles loosen and cause the climbing to drop. Hence in clay or it may be advisable to scr face of the wall lightly with rake. Do this also after rain rake. Do this also after rain, the worms are unable to dish will pass lengthwise through trench, and collect in the post where they may be killed by go to other means In digit trench plows may be used, beliance of the work should be with spades to insure a clear trench. Wherever the work found prompt action is very tant."

An additional hint may be for the following paragraph from a tin issued by the Commission of servation, Ottawa: "By those spraying or dusting a small st the crop in advance of the with Paris green, and liber tributing poisoned bran (mix rate of 50 pounds bran and or Paris green with enough and water to sweeten it) bers may be destroyed. poisoned must not be pa





The Army Worm in the Larva, Pupa and Adult Stages

tinged with red, along each side, rain has thoroughly washed it.
When full grown it is about 1½ inches ever is done must be done on long. The adult is a moth which lays and at once, for a single day's long. The adult is a moth which lays her eggs chiefly on grass in low lands. The caterpillars themselves never lay eggs or produce living young. The favorite food plants are grasses, timothy, oats, corn and millet. When food becomes scarce the worms move in enormous numbers in search of rown feeding countries. search of new feeding grounds

search of new feeding grounds.

"As the pest is being reported from mumerous counties, every farmer should examine his fields to time to see a search of the he fingers like sawdust-not sloppy. TRENCHING.

If the crop is threatened or attacked only in part, dig a trench in front of where the worms are. In the case where the crop is partly attacked, it will be found advisable to cut a swath through the grain, and rake this off before the trench is dug. The trench is often unsatisfactory, especially in its often unsatisfactory, especially in is often unsatisfactory, especially in clay soils, if it is not properly made, It should be at least 18 inches deep, in clay soil, with a straight clean side towards the crop to be protected. Post-holes at least a foot in depth must be sunk every 15 feet in the bottom of the trench. In sandy soil

and at once, for a single day's may often mean the ruin of a v ble crop."

The Grasshopper Plague

Grasshoppers, too, have builty prevalent this year, d injury to pasture and hay, ter to Farm and Dairy, Prof recommends the points treatment-bran 20 lbs., one pound, molasses two q two gallons. For the follo indebted to Prof. Caesar:

"Mix the bran and Paris together in a tub or larg This may be done a day ah morning of using pour the into the water. Cut the end lemons and squeeze the sweetened water and add to rind and pulp, after first them through a meat chops very fine. Pour the whole very fine. Pour the whole mixture over the poisoned by mix until every part is moist fall like sawdust through the

"Apply early in the morning tween five and seven o'clock scaling very thinly by hand a infested field along fonce come roadsides, or wherever grass are thick, the above amount ient for four or five acres. plications with an interval of a of days between will almost late the pest. The cost per one application is about 22



Trade incr Vol. XX

HE mo was o States a fev tion engine Younger me sight as I such evider much for g have alread and ten. I could clo the harvesti when we s few acres a superiority but still I men's stren the implem times think is being su now is the ized the c brawny sor

*These ren Farm and large extent pioneer in the farm. The great di

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