

ENTOMOLOGICAL NOTES FOR 1882.

BY PROF. E. W. CLAYPOLE.

My removal from Yellow Springs, Ohio, to New Bloomfield, Pennsylvania, has had the effect of breaking off the line of my entomological work, or at least throwing it into a rather different channel. Among the first results is a notice of the striking difference between the two places in regard to insect depredations. In my experience last year a great part of the time was occupied with fighting insects. The cherry weevil, the potato worm and beetle and the apple worm were the ringleaders; but after them came the blister beetles, the turnip flea, the corn worm, the squash bug, *et multa alia*. Here, at least during the present, or rather past season, the ravages of all these have been quite insignificant. Foremost stands the potato beetle. As soon as the young plants came up I followed my usual plan of picking them off and dropping them into a tin having a few spoonfuls of coal oil at the bottom. By this means they cause no trouble in crawling out again. Though the season was rainy, and therefore the opposite of the last, yet I found two applications of the poison dust (1 part of London purple and 6c parts of wood ashes) quite sufficient to keep the plants free from the young grubs. I am inclined, however, to recommend the use of plaster instead of ashes in a wet season. It seems to adhere better to the leaves when rain falls on them.

To my surprise there was here no second brood of the beetles this year. A few belated individuals appeared, but nothing that deserved the name of a brood. Of course the earliest potatoes were ripe before the usual second emergence, but the late ones grew and were green almost till frost came, but were perfectly uninjured after the beginning of July. I cannot learn if this is usual, for I can find no one who has been sufficiently observant, or who is sufficiently acquainted with the habits of insects in general, and with those of *Doryphora 10-lineata* in particular, to tell me. They come, they are here, they go, but when, why and how they come and go is a matter which no one here seems to have considered. Another year I shall try and make more general observations on this point.

Not only is the potato beetle less mischievous here than it was in Ohio, but all the others named follow suit. The apples are much less infested with worms; blister beetles I have scarcely noticed; corn worms are quite innocuous, and as for the cherry weevil, though the crop this year was not heavy for all kinds of cherries, and the fruit should, therefore, be at its