

went down the Illinois River, tons of them starved to death, and the brush and trees are covered now with their pupas like the enclosed. They seemed to care for nothing to speak of but grease-wood and lilac, but did eat some on willows, ferns, currant bushes, and very few young apples were gnawed by them like the sample enclosed. I think the enclosed samples will tell you a true story of what they did."

He also wrote us farther, under date of July 23—this time including pupæ of the insect and also specimens of some parasites. The butterfly accompanying this letter was determined by Dr. Dyar as belonging to the species under consideration. The hymenopterous parasites accompanying this letter were determined by Mr. Viereck as *Theronia americana*; while the supposed dipterous parasite was determined by Mr. Walton as *Helicobia helcis*. This latter was more likely to have been a scavenger than a parasite, although both species were reared from material submitted. In this letter Mr. Webb states that the butterflies seem to migrate after they emerged, and that fully half of the chrysalids were destroyed by parasites.

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### NEW LIFE-HISTORIES IN PAPAPEMA SM. (LEPID.)

BY HENRY BIRD, RYE, N. Y.

(Continued from Vol. XLIII., p. 47.)

#### *Papaipema moeseri* Bird

The larval history accords with the usual routine experienced in *Papaipema*. As it is such a distinct species and so well distributed and accessible when the facts are known, it may be excusable to give some details of its discovery. The root-boring habit of the larva, its superficial resemblance to *P. impecuniosa* Grt., and the fact of its often occurring in the same locality, though in a different food plant, served, through a peculiar chain of circumstances, to retard its apprehension for several years at least.

The first intimation of the species came from Mr. A. F. Winn, of Montreal, whose query as to what *Papaipema* was boring *Chelone glabra*, Turtle-head, had to go unanswered. None of the few plants occurring about Rye gave evidence of being bored, and Mr. Winn was advised to look into the question another year, for we were