

ing light on the subject have been acquired from time to time, and in 1903, an assistant was charged with following the life-history as continuously as other duties permitted.

From records and specimens thus gathered, the following statements may be made, leaving a full discussion of them to a later publication.

The stages have been collected at the following dates:

Adults.—Feb. 24 (in-doors); May 10, 11; April 2, 20; June 7, 11, 26; July 11, 13, 15, 16, 18, 20, 21, 22, 24, 27, 28; August 4, 13, 26 (in-doors).

Egg.—July 28 (in-doors).

Larvae.— June 26, 27, 28, 29; July 1, 2, 3, 7, 8, 9, 17, 23; August 3, 8, 20, 25; September 7, 9, 16, 17, 18; October 28.

Pupae.— June 25; July 3, 7, 9, 23; August 8, 20; September 16, 18.

The moths of the winter brood are evidently represented by the earlier dates, Feb. 24, May 10, 11, and April 2, 20. The first was taken in-doors and was perhaps an accelerated individual. These moths that mature in warm places where apples have been stored over winter undoubtedly make their way to the trees in many cases. They are generally found upon windows endeavoring to escape. The April and May dates represent the normal period of the moths about the trees in spring.

While close attention has not been given to the species in the early part of the season beyond noting the effect of spraying and while, therefore, our records lack completeness for this period, they may be accepted as showing the periods of greatest activity and abundance of the moth for the State. If the adults were common during May our collections and records would surely show it. Few records of the adult have been made by us for May, but in June adults have been collected at dates indicating its presence in orchards throughout the month. These moths are in all probability of the summer brood, the adults of which become common in July and continue, by our records, until the middle of August. One example obtained in the Vivarium August 26 represents a retarded individual.

The egg of these summer moths is laid during July in the main, and was secured from confined examples in one instance, July 28.