

into the cocoon they retain the pupa more securely. The pupa and the larva also in cocoon before its change, when disturbed, throw themselves from side to side so rapidly as to give a sound like a shaken seed pod.

July 15th, one pupa disclosed a male *unijuga*, rather under size; the second, smaller one, failed to give an imago.

Notes.—July 11th, when taking dinner at a farm house, I saw a large female of this species fly in at the open door; it flew about the room until captured. There was a specimen of *P. candicans* growing hard by.

BIBLIOGRAPHY OF ECONOMIC ENTOMOLOGY.

We desire to call the attention of our readers to the following circular lately issued from the Department of the Interior:

DEPARTMENT OF THE INTERIOR.

Office of the U. S. Entomological Commission,

Providence, R. I., Jan'y 1st, 1881.

DEAR SIR,—

The U. S. Entomological Commission designs preparing for publication a bibliography of American (and Canadian) economic entomology. The bibliography will contain references to papers, articles and notes in agricultural and popular scientific periodicals, as well as journals devoted to bee culture, and as complete as possible references will be made to entomological notes in those periodicals which appeared prior to 1850. The titles of notes, articles, reports on works, will be entered under the name of authors, or of periodicals, especially agricultural reports and papers with brief digest of contents given in a line or two, in the same style as in Mr. Mann's excellent bibliographical record of *Psyche*, the organ of the Cambridge Entomological Club, of Cambridge.

After due pains are taken such a record will necessarily be quite imperfect. The compiler will have to rely much on aid from authors of any and every article or note in economic entomology. Its completeness will greatly depend on the care with which entomologists may prepare lists of their own articles. Entomologists are, therefore, earnestly requested to co-operate by sending full lists of their papers on any subject connected with *economic entomology* (not general or scientific entomology unless bearing on the applied science) and prepared in the style of that of *Psyche*, to the undersigned, at Providence, R. I.

Very respectfully,

A. S. PACKARD, JR.