

tially inactive when placed in an incubator averaging a temperature of 68° F. They became completely inactive when the temperature was reduced to 55° F. From time to time the isolated weevils were examined, those which had died were removed.

*The number of days without food.* This column represents the number of days each weevil which was used for the oviposition tests spent in hibernation; a repetition of the "Duration of hibernation" column, with numerical values substituted for the recorded dates.

*The number of days after copulation during which fertile eggs were laid.* The information presented in this column shows increasing periods of time during which active spermatozoa survived in the spermatheca.

*Number of weevils removed from hibernation and observed to oviposit.* But few weevils were removed at a time from each group of individuals placed in hibernation. Both the scarcity of cotton squares, obtainable during the winter months only from plants grown in the greenhouse, and the difficulty of handling large numbers of isolated weevils, necessitated experimentation with small numbers of weevils.

It is significant that fertile eggs were laid after a period of almost seven months after copulation. Oviposition after the weevil emerges from hibernation is, therefore, not delayed until chance copulation insures fertilization of the eggs. Consequently, the ability of boll weevils to lay fertile eggs seven months after copulation insures early infestation of the cotton fields in the spring.

The author has not observed parthenogenesis in the boll weevil to occur.

---

### THE MEDITERRANEAN FRUIT FLY

The progress made towards the eradication of the fruit fly since our last issue has been very gratifying indeed. As a result of the thorough cleanup of all known and suspected hosts in and about the infested areas and the systematic spraying with the poisoned bait, the fly is now very scarce. At the time of going to press it has been several weeks since a fly has been caught.

Although cage experiments are frequently adding wild fruits to the known list of hosts, no infestations are being found in wild hosts in uncultivated areas.