the rate of emergence from twenty-seven moss balls. The condition of the weevils used for these tests is indicated by that column in Table III which presents the percent weevils alive at the end of each test.

At times weevils emerged faster from the shaded moss ball than from the one exposed to sunlight. As often, however, emergence from the moss ball in the sun was faster than from the shaded ball. Though a greater number of weevils, 74.78%, emerged from the sun-exposed moss balls than from the shaded ones, 68.34%, the difference is not significant enough to indicate that sunshine is a direct means of stimulating boll weevil emergence.

When, in addition to the information presented in this paper, one considers that, of 20,000 boll weevils placed in hibernation quarters, individuals emerge from hibernation daily from March 1 to the middle of July every year regardless of the variable temperature, periods of rainfall and drought, it appears that when the boll weevil is physiologically prepared to quit hibernation, it does so, daylight, temperature increases, and rainfall hastening the process but slightly.

A NEW FOOD PLANT OF THE BUCKEYE BUTTERFLY

A. N. TIEGOT

This very pretty butterfly (Junonia coenia, Hubner), is now rather numerous in the vicinity of Gainesville. Holland in his “Butterfly Book” mentions that the larvae feed on various species of Plantago, Gerardia and Antirrhinum. A review of the available literature failed to reveal mention of any other food plants of the butterfly so it is of interest to note that numerous larvae of this species have been found during the month of August feeding on one of the wild asters, Aster sp. Two collections of the larvae were taken from localities about fifteen miles apart and in opposite directions from Gainesville. Antirrhinum grows only under cultivation and as no larvae of coenia were observed on Gerardia it seems quite probable that the asters play the role of principal host plant for this species of butterfly in central Florida where the plantains are almost entirely absent at this time of the year and are never abundant.