

throwing all possible weight backward on to the ovipositor, the valves of which are kept constantly in motion, in which the hind legs seem, as it were, to beat time. By this method the body is rapidly worked into the soil, after which the insect becomes motionless until she has laid her eggs. Unfortunately the individual mentioned above could not be followed in her final task. A second example observed, on September 22, first drilled into a clear piece of sandy soil, where she remained for 12 minutes, then becoming dissatisfied she hopped away and rested for a short time upon some herbage. The search was then continued and two more holes made, the last of which proved satisfactory. Here she remained, with her legs stretched far apart, for 87 minutes, after which the cavity was carefully covered in the manner described under *atlanis*. This last task occupying three minutes. The slowness of her work was doubtless due to the lateness of the hour, 5.42 p.m. and the coldness of the atmosphere, 51 degrees F. The egg-sack contained 14 eggs. A third locust, noted on September 29, continued her quest for an egg site for 27 minutes, inserted her abdomen into the soil four times and made a wide circuit among low bushes before she discovered a place to her liking. This proved to be alongside of a clump of grass upon which she rested her forelegs while drilling. Egg-laying on this occasion took 37 minutes; time, 3.57 p.m.; temperature, 73 degrees F. A fourth specimen on October 1st had already inserted her abdomen when first observed, and from then took 49 minutes in ovipositing. The egg mass consisted of 14 eggs.

*Melanoplus packardii* Scudd. Two examples were found on October 1st, ovipositing on the edge of a trail. The operations were evidently well under way and soon after being observed both locusts completed their work, covering the egg chambers with the abdomen in the customary manner. Egg-sacks contained 16 and 19 eggs, respectively. A third individual found searching for an egg site on the same date postponed her search after 32 minutes, owing to the weather becoming rainy and cold. When last seen she was hiding among the grass.

*Melanoplus bivittatus* Say. This is a locust of some economic importance, especially in the vicinity of low lands. It is very easily discovered while egg-laying, owing to its habits of oviposit-