to the under surface, with an irregular streak of bright red running through its lower portion. The body also has a downy look occasioned by its being thickly clothed with very minute pale hairs.

The chrysalis is about seven-tenths of an inch long, attached at its base, and girt across the middle with a silken thread. Its colour is pale green with a yellowish tinge, with a purplish red line on each side of the head, darker lines down the middle both in front and behind, and with a yellowish stripe along the sides of the hinder segments.

During the heat of summer the chrysalis state usually lasts about ten days. A day or so before the butterfly escapes the chrysalis becomes darker and semi-transparent, the markings on the wings showing plainly through the enclosing membrane.

NOTES ON THE EARLY STAGES OF SOME OF OUR BUTTERFLIES.

BY W. H. EDWARDS, COALBURGH, W. VA.

I herewith send you some memoranda of what I have done during the past summer, largely owing to the assistance of Mr. Mead. I consider it my most successful season in the way of obtaining larvæ and eggs. One of the most interesting species we discovered was Lycaena pseudargiolus. Mr. Mead noticed a female hovering about flowers of Actinomeris squarrosa, which is a weed found hereabouts in company with A. helianthoides-the last being a thousand-fold most numerous-and suspecting that she was ovipositing, he made a careful examination of the plant. He found several eggs laid directly on the flowers; then capturing two or three of the females, he tied them in a muslin bag over a bunch of these flowers (growing), the result of which was that many eggs were obtained. From those in the bag a few caterpillars were hatched and finally brought to maturity. They fed on the petals of the flowers. It became difficult to obtain food for them, as no plant of A. squarrosa could be found in the vicinity of my house, and we tried them on the other species (helianthoides), and this answered equally well. Last week the caterpillars that had escaped one accident or another, formed chrysalids in the same flower heads. In summer, as no species of Actinomeris is in bloom, the