

slight greenish tint ; caudal horn purple-blue, except the sides which are a continuation of the lateral stripe ; jaws black, clypeus and anterior feet pale red ; head blunt, stripe yellow ; stripes on anal appendages yellow. Duration of this period 6 days.

*Chrysalis*.—Length 1.35 inches ; to the back of wing cases, .64 inch ; and this extends to posterior part of joint 5 ; depth through joint 5, .42 inch ; through 4, .40 inch ; through 3, .39 inch ; through 2, .37 inch ; end of tongue case, .55 inch from the anterior end. Cylindrical, tapering gradually back from joint 5, cremaster triangular tuberculate, especially on the dorsal part and on sides at base, round dorsally and flattened ventrally, no hooks but slightly forked terminally ; head rounded. Colour chestnut-brown, nearly uniform ; wing, tongue and leg cases a little darker than the rest ; the abdomen slightly punctured. Duration of this period 15 to 17 days.

A comparison of the pupæ of this species with *Geminatus* shows the following differences:—The cremaster on *Geminatus* is triangular, more slender, less roughly tuberculate dorsally and laterally ; this in *Ophthalmicus* having a distinct tubercle each side at the base that is lacking in *Geminatus*. The cremaster in *Geminatus* is nearly conical by reason of its being only slightly flattened ventrally, while in *Ophthalmicus* it is distinctly flattened ventrally, and dorsally is contracted at the base. A chrysalis of *Geminatus* measures as follows : Length 1.15 inches ; depth through joint 5, .40 inch ; joint 4, .38 inch ; joint 3, .37 inch ; length to end of wing cases, .60 inch ; to end of tongue case, .48 inch. A comparison of these figures with the measurements of *Ophthalmicus* shows a different proportion between the two pupæ. The pupa skin is about twice as stiff in *Geminatus* as it is in *Ophthalmicus*. Besides this, the larva of *Ophthalmicus* differs from that of *Geminatus* in being less cylindrical, the third and fourth joints being enlarged, thereby making it resemble the larvæ of *Everyx Myron*.

The food plant is the same as that of *Geminatus*.

The larvæ from which the above descriptions were made were received from the Hon. C. F. McGlashan, of Truckee, California. They were sent as eggs June 17th, 1889, but were received hatched June 22nd. The imagines were produced August 2nd and 3rd of the same year, making a total period from egg to imago, of the summer brood, of 47 days. The time of hatching shows that there are two broods in a season,