BIBIONIDÆ.

2. Dilophus stygius Say.

Tepic.—Twelve &s and forty-three Qs, Nov. One pair in coitu, which verifies my conclusion that the two sexes associated together in my former determination (see No. 2 of Section I) are the same species. The females vary considerably in size, some being as small as the larger males. The small linear blackish stigma in the whitish wings of the & is often nearly or quite obsolete.

It is worthy of note that, among the specimens sent me of the females of this species, there was inadvertently included a specimen of a black sawfly, which would easily pass for a ? Dilophus stygius if not looked at a second time. This sawfly is of the same uniform deep shining black as the Q stygius, is of the same size, and has the same black wings of corresponding shade. I can hardly resist the conclusion that the sawfly mimics the Q stygius, though for what reason cannot at present be said-The sawfly is a remarkable form, in that it possesses long-branched antennæ. Each antenna is split nearly to base into two branches, the stalk or pedicel being short and bare, and the branches hairy. The abdomen of the sawfly is more shining than that of the \$\varphi\$ stygius, but this does not show save on close inspection, while its general form closely approaches that of the Q stygius abdomen. Of course, the head of the sawfly is totally different from that of the Q stygius, but this is not conspicuous on first sight, the effect being lost in the uniform colour resemblance and otherwise close similarity.

D. stygius is an abundant Mexican species. The length of the body in the \circ does not average over 6 mm. in the present specimens. I believe that the \circ Dilophus identified by Bellardi as orbatus Say (Saggio I, p. 19) was not that species, but stygius Say. My reasons for this opinion are as follows:

D. stygius was described by Say from Mexico. D. orbatus was described by Say from Pennsylvania, and Osten Sacken has identified as orbatus two sexes of a species collected in Florida by himself. It is very common for a Middle Atlantic Coast species to extend into Florida, but rarely does a northern species extend so far southwest as Southern Mexico. Bellardi's specimens were from Orizaba. I have myself taken in numbers in the outskirts of Orizaba what I believe to be stygius. The males from Florida, which Osten Sacken identifies as orbatus, and which I consider to be that species in all probability, are described as having the wings