

the base of the lamellæ of the fourth ventral plate is very prominent forming the posterior face of the somewhat conically raised extremity of the base. The "brushes" of the lamellæ are prominent even when the genital segments are in their normal position, and may be seen filling in the space between the forceps and the ventral portion of the fourth notum. The marginal bristles of the third abdominal segment which are present in most species of *Sarcophaga*, are lacking, though sometimes a few, short, decumbent bristles may be discerned. If the penis is examined a weakly chitinized projecting process is seen extending upwards from the dorsal, distal portion. This bends abruptly forward and divides in to a Y. When specimens are fresh, a profile view shows this process raised above the penis head, but when dry it is often applied to it. The four sternopleurals of the female are distinctive.

S. cooleyi is very closely related to an undescribed species, the same mentioned by Dr. Felt in his annual report for 1912 (New York State Museum Bulletin 165, pp. 80-82), under the name of *S. georgina* Weid., a synonym of *S. hæmorrhoidalis* Meig. This undescribed species has a wide distribution throughout the United States.

While engaged on investigation for the Montana State Board of Entomology during the past summer, the writer bred this species extensively from decomposing fish. It was also captured in privies and was common around garbage, especially if the latter contained fish. In one experiment, in which two hundred larvæ were used to determine the length of the larval stages, not a single adult emerged but numerous chalcid parasites were raised from the pupæ.

EXPLANATION OF PLATE XXVI.

(All drawings made with camera lucida).

Fig. 1. Side view of genital segments of male showing penis forceps, anterior and posterior claspers accessory plate.

Fig. 2. Ventral view of fourth ventral plate and profile view to show elevation at posterior extremity of base.

Fig. 3. Posterior view of forceps.

Fig. 4. Genital segments of female (made from a specimen with genital segments partly expanded).