

PRELIMINARY STUDIES IN SIPHONAPTERA.—V.

BY CARL F. BAKER, FORT COLLINS, COLO.

Genus Pulex (Division III.)

TABLE OF SPECIES.

- A. Head gently and evenly rounded from occiput to mouth ; eyes in anterior half of head, about equally distant from upper and lower edges ; antennal groove in middle of head ; mandibles reaching two-thirds of anterior coxæ.....*B.*
- AA. Head more or less distinctly angled in front above, not evenly rounded from occiput to mouth ; head combs of 5 to 6 spines ; in anterior tarsi joint 1 equals 3 ; in middle tarsi joint 2 a little shorter than 5 ; in posterior tarsi joint 2 equals 5 and as long as 3 and 4 together, while 1 is one-half longer than 2 ; abdominal segments with one row of bristles above and below ; posterior femora with a row of bristles on the side.....*D.*
- B. Abdominal segments above each with three rows of bristles, each row with 8 to 12 bristles on either side, below two rows, the first with 4 to 7, the second with 6 to 7 bristles on either side ; eye small ; bristles on joint 2 of antennæ as long as joint 3 ; maxillary palpi in female with joint 2 two-thirds of 4, and 3 about one-half of 4 ; labial palpi 5-jointed ; head combs with 1 or 2 spines on either side ; pronotal comb of 20 spines ; in middle tarsi joint 2 three-fifths of 1, 2 one-fourth longer than 5, 5 more than twice 4, and 1 as long as 3, 4 and 5 together ; in posterior tarsi joint 1 as long as 2 and 3 together ; 5 a little more than one-third of 1, while 2 is more than 3 and 4 together, and more than 4 and 5 together ; apical spine on joint 2 of hind tarsi shorter than joint 3 ; posterior femora without a row of bristles on the side ; colour, light reddish-brown ; length : female, 4 mm.....*gigas.*
- BB. Abdominal segments above each with one row of bristles, 5 to 8 on either side ; below one row of 2 to 4 bristles on either side ; eye very large ; bristles on joint 2 of antennæ shorter than joint 3 ; maxillary palpi with joint 2 about equalling 4, and 3 two-thirds of 4 ; labial palpi 4-jointed ; in anterior tarsi joint 3 three-fourths of 2, 5 about two and one-half times 4, and less than 1 and 2 together ; in middle tarsi 2 one-half longer than 1, 5 two and one-half or three times 4, 1 about equalling 3 ; in posterior tarsi joint 5 more