

FOUR NEW SPECIES OF CULEX.

BY D. W. COQUILLET, WASHINGTON, D. C.

Culex cantator, new species.—Female. Near *sylvestris*, but the seventh abdominal segment almost wholly yellow scaled, etc. Head black, oral margin and base of antennæ yellow, remainder of antennæ and the proboscis black, palpi brown, its scales chiefly concolorous, no cluster of white hairs or scales at their apices; narrow scales of middle of occiput golden yellow, the upright ones chiefly black, sides of occiput with depressed whitish scales and with a small cluster of black ones; thorax reddish brown, scales of mesonotum golden yellow, becoming pale yellow in front of the scutellum and on the pleura; abdomen black, its scales black, except a crossband of yellowish white ones at base of each segment, the bands considerably narrowed at the middle, similar scales scattered over the sixth and nearly the whole of the seventh segment and the apices of the two preceding segments; legs yellow basally, becoming brown on the tibiæ and tarsi, scales of femora chiefly pale yellow, of the tibiæ mostly black, those on the hind side pale yellow, on the bases of the tarsal joints whitish, those on the second joint of the hind tarsi covering about one-fourth the length of the joint, front tarsal claws toothed; wings hyaline, lateral scales of the veins long and narrow, hind crossvein nearly its length from the small crossvein, petiole of first submarginal cell one-half to four-fifths as long as the cell; length, 4 mm. One specimen bred May 6, by Mr. LaRue Holmes.

Habitat.—Summit, New Jersey.

I have also examined 8 females and as many males, bred by Prof. J. B. Smith, from the salt-marshes of New Jersey. In the male the scales of the palpi are black, those of the under side and at bases of the last two joints yellowish white, no whitish band at base of the antepenult joint.

Prof. Smith informs me that the larva is readily separated from that of *sylvestris*.

Culex aurifer, new species.—Female. Near *triseriatus*, but the scales on sides of mesonotum golden yellow instead of white, and the thorax is without crossbands of black scales. Black, the halteres, coxæ and femora largely yellow; scales and hairs of palpi brown, scales of occiput golden yellow, the upright ones brown; scales in middle of mesonotum brownish black, those on the sides and many in front of the scutellum golden yellow, those of pleura pale yellow; scales of abdomen black, those of the venter pale yellow, sometimes encroaching a trifle on the dorsum,

hairs of the first segment and at the apices of the others pale yellow; scales of femora and on posterior side of tibiæ pale yellow, remaining scales of tibiæ and those on the tarsi black, front tarsal claws toothed; wings hyaline, lateral scales of the veins long and narrow, hind crossvein about its length from the small crossvein, petiole of first submarginal cell three-fifths the length of the cell; length, 4.5 mm.

Three specimens, collected June 22 and 25, by Dr. H. G. Dyar.

Habitat.—Centre Harbour, N. H.

I have also examined two males and two females from Lahaway, N. J., bred by Dr. J. B. Smith, who writes that the larva is very different from that of *triseriatus*. The adult male is similar to the female except that the hairs of the palpi are chiefly whitish, and the dorsum of the abdomen has several yellow scales on the apical half.

Culex nanus, new species.—Female. Near *jamaicensis*, but much smaller, the light-coloured scales on the tibiæ not collected into spots, mesonotum without round spots of yellowish scales, etc. Black, the base of the antennæ except the first joint, a band at middle of proboscis, the halteres and bases of femora yellow; scales and hairs of palpi black. appressed scales of occiput golden yellow, the upright ones black, scales of mesonotum golden yellow, those of the abdomen black and with a broad crossband of whitish ones on the hind margin of each segment, the last two segments nearly wholly whitish scaled; scales of venter white, those of femora and tibiæ mixed black and whitish, the latter forming a ring near three-fourths the length of each femur, scales of tarsi black, those at narrow bases of the joints whitish, tarsal claws simple; wings hyaline, the scales mixed black and white, the black ones not collected into spots, lateral scales of the anterior veins narrowly lanceolate, those of the other veins almost linear; length, 3 mm. Four specimens collected at Key West, Florida, in August, 1901, by Mr. August Busck, and six by Mr. E. A. Schwarz, April 1 to 3, 1903.

Type.—No. 6893, U. S. National Museum.

Culex discolor, new species.—Female. Differs from the above description of *nanus* as follows: palpi with a cluster of white scales at the apices, upright scales of occiput yellow, whitish crossbands of abdomen prolonged forward in the middle, crossing or almost crossing the segments, scales on posterior side of front and middle tibiæ and on anterior side of the hind ones almost wholly pale yellow, first tarsal joint bearing many yellow scales, black and yellow scales of wings not evenly distributed, the

***Gryllus pennsylvanicus* Burmeister.**

Near West Creek, Sept. 6, 1903 (Rehn). Between Chairville and head of Batsto River, Burlington Co., June 17, 1901 (Rehn).

***Ecanthus angustipennis* Fitch.**

Between Cedar Grove and Chatsworth, Sept. 7, 1903 (Rehn). Clementon, Aug. 13, 1899 (Viereck).

***Ecanthus quadripunctatus* Beutenmüller.**

Westville, Aug. 31, 1899 (Viereck).

—♦—

Description of Two New Species of *Culex*.

By JOHN A. GROSSBECK, Paterson, N. J.

***Culex pretans* sp. nov.**

♀.—Head brown, occiput almost covered with pale yellow scales, some of which collect in a distinct border to the eyes, and with a small patch of dark brown scales on each side; antennæ dark brown, the basal two joints pale testaceous; proboscis and palpi dark brown, the terminal joint of the latter almost obsolete. Mesonotum brown with numerous yellowish scales and a usually well defined, broad median vitta of brown scales, which does not quite reach the anterior margin and is slightly constricted centrally; there are two other patches of scales of the same color, about one-third the length of the thorax, at the base of this vitta, separated from it by a narrow line of yellow scales; scutellum brown, with many yellowish bristles; metanotum evenly dark brown; pleura dark brown, with patches of pure white scales; halteres yellowish white, brown at the apex. Abdomen brownish black, the segments with narrow whitish basal bands, which become wide at the sides; beneath it is clothed with dirty white scales, mixed with some brown ones near the apical margin of the segments. The bands are usually clearly defined, and though narrow, are rarely obsolete. Legs with coxæ yellowish; femora brown above, creamy white beneath, and with a dot of the same color at the knee; tibiæ dark brown above, yellowish beneath; tarsi wholly brownish black; claws uniserrated on all feet; wings hyaline, petiole of first submarginal cell about half as long as this cell. Length 5 mm.

Described from fifteen females, one of which, with a male, was bred from larvæ.

Habitat: Chester, Trenton, Lake Hopatcong and Great Piece Meadows—all in New Jersey.

Types: in the collection of the New Jersey Experiment Station.

CC
NY

The only male was dissected; in color it does not differ from the female, but the thoracic stripe is slightly diffused and the abdominal banding is broader and less defined. The palpi are uniformly brown; the claws of the anterior and mid feet unequal, the larger biserrated, the smaller uniserrated, while the posterior ones are equal and uniserrated. Petiole of first-submarginal cell not quite the length of this cell. Length 5.3 mm.

***Culex inconspicuus* sp. nov.**

♀.—Head dark brown, occiput with pale yellow scales scattered over the surface; antennæ dark brown, the two basal joints pale testaceous; proboscis and palpi dark brown. Mesonotum dark brown with yellowish scales at the sides, forming a rather diffuse central brown vitta; shoulders brown, separated from the vitta by a narrow line of yellow scales; scutellum brown with yellow bristles; metanotum blackish brown; pleura brown, with small patches of grayish white scales; halteres pale brown, darker at the apex. Abdomen deep brown, with narrow dirty white bands at base of segments, which widen out laterally; beneath it is pale brownish with scattered white scales, more so apically. Legs with coxæ pale brown, femora brown, under side yellowish white, knee dot barely discernible; tibia and tarsi wholly brown; claws uniserrated on all feet; wings hyaline, petiole of first submarginal cell about one-third as long as this cell. Length 4 mm.

♂.—Palpi uniformly dark brown. Bands of abdomen narrow in the anterior segments, very wide in the posterior ones and with some mixed brown scales, giving the bands a dark appearance; beneath it is whitish, with brown scales intermixed. Claws of anterior and mid feet unequal, the larger biserrated, the smaller uniserrated; claws of posterior feet equal and uniserrated. Petiole of first submarginal cell about half as long as this cell. Length 4.5 mm. Otherwise as in the female.

Described from three ♂ and one ♀ bred from larvæ gathered on Garret Mts., Paterson, N. J.

Type: in the collection of the New Jersey Experiment Station.

A New Cryptine from the Nest of *Ceratina Dupla*.

By H. L. VIERECK.

***Habrocryptus graenicheri*, n. sp.**

Superficially, this species resembles somewhat *C. atricollaris*, but differs in having the thorax and abdomen partly black and in the more distinct sculpture.

♀ 10 mm.; ovipositor 3 mm.

Head rather shining and covered with rather shallow, adjoining small