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SOME NEW SPECIES OF IDIOCERUS (HOMOPTERA-CICADELLIDAE)

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Idiocerus borealis n. sp.

Resembling *pallidus* in form and appearance but with simple antennae and smaller in size. Length 5.5-6 mm.

Vertex almost parallel margined, male antennae without discs or black coloration.

Color pale yellow without dark markings, black markings of abdominal segments visible through elytra.

Genitalia: Female segment rather strongly produced to form a blunt median tooth. Male plates rather broad.

Described from one female specimen from Amery, Wisconsin, and two male specimens from Pembine, Wisconsin and Cameron, Wisconsin, respectively collected during July and August, 1916. Holotype male (Pembine, Wisconsin) allotype female and male paratype in senior author's collection.

Idiocerus levis n. sp.

Resembling *pallidus* in form and appearance but with slight discal enlargements on antennae. Length 5.5–6.5 mm.

Male antennal discs only slightly larger than antennae and elongate. Color pale yellow, elytra appearing milky white.

Genitalia: Female segment rather strongly roundedly produced at middle. Male plates rather long and narrow.

Described from a pair of specimens collected at Meddybemps, Maine, July 13, 1922, by R. J. Sim. Holotype male and allotype female in senior author's collection.

Idiocerus solus n. sp.

Resembling *nervatus* but with faint markings and without discs on antennae. Length 4.5–5 mm.

Vertex shorter at middle than next eyes, broadly curved. Antennae of male simple, without discs.

Color green tinged with yellow. Face vertex and pronotum unmarked. Scutellum with faint markings in basal angles. Elytra subhyaline, veins pale, inconspicuous.

Genitalia: Female segment almost truncate, slightly produced at middle. Male plates rather short and broad.

Described from a pair of specimens collected at Greensburg, Pennsylvania, August 21, 1901, and a pair collected at Clarksville, Tennessee, July 3, 1915. Holotype male, allotype female (Greensburg, Pa.) and male and female paratypes in collection of senior author.

Idiocerus pyramidatus n. sp.

Resembling nervatus but larger, darker green without dark markings. Length 5–5.5 mm.

Vertex shorter at middle than next the eyes. Antennal discs of male rather large, black, elongate oval, apex tapered.

Color green, basal angles of scutellum yellow, elytra subhyaline.

Nervures pale, indistinct.

Genitalia: Female segment short, roundedly produced, forming a

broad blunt tooth at middle. Male plates narrow.

Described from three male and three female specimens collected at Prescott, Huachuca Mts. and Chiricahua Mts., Arizona and Davis Mts., Texas, during June and July, 1935, by Prof. J. N. Knull. Holotype male (Huachuca Mts., Ariz.), allotype female (Chiricahua Mts.), and male and female paratypes in collection of senior author.

Idiocerus stellaris n. sp.

Resembling *suturalis* but distinctly marked and with elongated male antennal discs. Length 6–7 mm.

Male antennal discs elongate oval, pointed at both ends.

Color yellow, face and vertex unmarked. Pronotum brown except for anterior margin and curved spot along margin behind each eye. Scutellum yellow, basal angles brown elytra uniform smoky brown except for anterior costal margin, veins dark. Beneath yellow.

Genitalia: Female last ventral segment roundedly produced. Male

plates long and narrow.

Described from one female and nine male specimens from Northeast, Pennsylvania, July 4 to 12, 1928; Greenfield, Pennsylvania, July 20, 1920; Cranberry Lake, New York, July, 1917, and July and August, 1924; and Tobyhanna, Pennsylvania, August 14, 1920 (J. G. Sanders). Holotype male (Cranberry Lake, N. Y.) allotype female (Tobyhanna, Pa.) and male paratypes in the senior author's collection.

Idiocerus verticis (Say)

Jassus verticis Say Jour. Acad. Nat. Sci. Phila., 6:308 (1831);

Compl. Writ., II, 383.

The name *verticis* has been applied for many years to a small insect with two round black spots on the vertex. According to the original description the vertex, pronotum, and scutellum are irrorate but without black spots on the vertex. As a consequence a neotype male which agrees with the original description is erected at this time, collected at Covington, Tennessee, June 18, 1915, by the senior author and in his collection. The type locality was cited as Missouri by Say.

Idiocerus rotundens n. sp.

Resembling *verticis* in size and appearance but paler with two small round black spots on vertex. Length 4.5–5 mm.

Vertex shorter at middle than next the eyes, antennae with large, circular terminal black discs.

Color pale yellow, ocelli black, face with a broad longitudinal orange stripe. Clypeus, sutures of face and lorae orange. Vertex with a round, median dusky area and a round black spot either side. Pronotum pale, dark spots of scutellum visible. Scutellum pale, marked only by the black spots at base. Elytra white, veins to apical cross veins white, beyond apical cross veins, brownish. Abdomen and beneath pale, yellowish, without dark markings.

Genitalia: Female last ventral segment truncate. Male plates long

and slender.

Described from a female and two male specimens collected at Beloit, Wisconsin, July 11, 1936, and a male from Milwaukee, Wisconsin, July 18, 1916, all collected by the senior author. Holotype male (Milwaukee, Wis.), allotype female, and male paratypes in senior author's collection.

Idiocerus tenuens n. sp.

Resembling verticis in size and general appearance, but darker and with apical portions of antennae enlarged. Length 5 mm.

Vertex almost parallel margined. Male antennae with apical third slightly widened and black forming an elongate, narrow disc widened

toward apex and narrowed basally.

Color yellow, face with a slightly darker median stripe. Pronotum with a spot either side of, and anterior to middle. Basal angles of scutellum with black triangular spots which are visible through pronotum. Elytra subhyaline with dark veins.

Genitalia: Male plates narrow.

Described from a single male specimen collected at Austin, Nevada, August 3, 1936, by J. N. Knull. Holotype male in senior author's collection.

Idiocerus nigrens n. sp.

Resembling *musteus* in form and color but more darkly marked and with small round antennal discs. Length 4.5 mm.

Male antennae with small oval terminal discs.

Color, yellow, vertex with a pair of medium sized round black spots and an oblique mark behind each next the eyes. Pronotum black, humeral angles narrowly white margined. Scutellum black, a pale spot on margin midway on either side and a small spot at apex white. Elytra milky white, basal third of inner clavus and apical third black. Apex of elytra smoky. This gives the appearance of a dorsal black stripe interrupted twice. Male plates short and very narrow.

Described from a single male specimen from Newport, Washington,

August 8, 1926, collected by R. W. Haegele.

Holotype male in collection of senior author.

Idiocerus cinctus n. sp.

Resembling formosus but smaller, paler in color with two conspicuous transverse bands and with simple antennae in the male. Length 5 mm.

Vertex almost transverse, longer next the eyes than length at middle. Male antennae simple, without discs.

Color yellow, face and vertex unmarked. Pronotum milky white, anterior half mottled with brown. Scutellum with basal angles and a pair of large round spots on the disc, brown. Elytra milky white, transparent. A broad transverse band across apical third of clavus, the apex of elytra to base of apical cells and the anterior costal area, dark brown. Anterior half of outer claval vein brown, apical half white.

Genitalia: Male plates rather broad and long.

Described from two male specimens collected at Idaho City, Idaho, July 13, 1930 (DeLong), and one male from La Grande, Oregon, collected by Dr. H. H. Ross, July 30, 1936. Male holotype and male paratype in senior author's collection. Male paratype in Illinois Natural History Survey collection.

Idiocerus chisosus n. sp.

Resembling *dolosus* in general appearance but paler in color. Length 4.5–5 mm.

Vertex almost transverse and parallel margined. Male antennae with small elongate oval discs.

Color pale brown, face unmarked, a pair of large round black spots on vertex. Pronotum with a row of irregular black spots on anterior margin either side of middle. A pair of black triangular basal spots and a pair of small round spots on the disc of scutellum. Elytra smoky brown, veins white.

Genitalia: Female segment roundedly produced, shallowly notched

at middle. Male plates narrow.

Described from a series of eight female and fourteen males collected at Davis Mts. and Chisos Mts., Texas, and Chiricahua Mts., Arizona, during July, 1936, by J. N. Knull. Holotype male (Davis Mts., Arizona) allotype female and male and female paratypes in the senior author's collection.

Idiocerus caliginosus n. sp.

Resembling dolsus in form and general appearance but smaller and with darker markings. Length 5 mm.

Vertex transverse, shorter at middle than next either eye.

Color white marked with black and brown. Face heavily mottled with black. Sutures of front and clypeus with faint black marginal lines. Vertex with the two round black spots fused with angular spots which extend to upper margins of eyes. A pair of proximal spots between them. Pronotum heavily mottled on each side of pronotum excepting a broad longitudinal milky white stripe in the middle. Scutellum with basal angles, a pair of proximal spots at base, a pair of triangular spots on disc and a pair of triangular spots at apex black. Elytra smoky, veins broadly white interrupted with black on clavus and disc of corium. Outer veins white, apical veins brown.

Genitalia: Female last ventral segment strongly roundedly pro-

duced, slightly notched at center.

Described from two female specimens collected in the Chisos Mts., Texas, July 9, 1936, by J. N. Knull. Holotype female and paratype female in senior author's collection.