

## NEW SOUTH AMERICAN XESTOCEPHALINE LEAFHOPPERS (HOMOPTERA:CICADELLIDAE)<sup>1</sup>

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ABSTRACT: Seven new species of South American Xestocephaline leafhoppers, *Xestocephalus cinctus* n.sp. (Peru), *Portanus dentatus* n.sp., (Peru), *P. cellus* n.sp. (Peru), *P. tridens* n.sp. (Bolivia and Brazil), *P. filamentus* n.sp. (Brazil), *P. avis* n.sp. (Peru), and *P. cephalatus* n.sp. (Peru), are described.

Two genera of Xestocephalinae, *Xestocephalus* and *Portanus*, are known to occur in South America. The genus *Xestocephalus* was described by Van Duzee (1894) and *X. pulicarius* V.Dz. was designated as the type. A synopsis of the genus was published by Linnavuori (1959). Six new tropical species were added by DeLong & Linnavuori (1978). Some 22 species are now placed in *Xestocephalus*. The genus *Portanus* was described by Ball (1932). He designated *Scaphoideus stigmosus* Uhler as the type. A key to the known species of *Portanus* was published by Kramer (1964). Some 24 species have now been described and placed in *Portanus*. One new species of *Xestocephalus* from Peru and six new species of *Portanus* from Peru, Bolivia and Brazil are described at this time. All types are in the DeLong collection, Ohio State University.

### *Xestocephalus cinctus* n.sp. (Figs. 1-2)

Length of female 5 mm, male unknown. Crown bluntly angled, more than half as long at middle as width at base between eyes. Color brown, crown with a darker brown transverse band between eyes along margin just above ocelli. Forewings dark brown subhyaline, two dark brown spots on costa near apex of wing. Face brown with remnants of a darker brown band just beneath ocelli.

Female seventh sternum with posterior margin broadly angularly excavated one-third distance to base with a median notch, apex of angled portion concavely rounded.

Holotype female, Sinchona, Peru, November 1943, J.G. Sanders coll.

*X. cinctus* can be separated from all other described species by the dark brown transverse band on the crown.

### *Portanus dentatus* n.sp. (Figs. 3-6)

Length of male 6 mm, female unknown. Crown produced, bluntly angled, three-fourths as long at middle as width at base between eyes. Color, crown pale brown with a pair of reddish

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brown spots between anterior portion of eyes. Pronotum dark brown with pale, irregular stipple. Scutellum pale brown. Forewings dark brown with white spots on apical half of costa, on claval vein at apex and along veinlets of apical cells.

Male genital style chelate with claws elongate, one claw slightly longer and spine like. Aedeagus elongate, apical portion sheath-like with apex bluntly rounded. With two spines extending dorsocaudally just caudad to broadened median portion which is pointed dorsally. Basal portion of aedeagus more than twice as wide as apical portion. Pygofer bearing a spine on ventocaudal margin.

Holotype male, Sinchona, Peru, November 1934, J.G. Sanders, coll.

*P. dentatus* is related to *P. retusus* Lv. & DeL. but can be distinguished by the different aedeagus as illustrated.

***Portanus cellus* n.sp.**

(Figs. 7-10)

Length of male 7 mm, female unknown. Crown two-thirds as long at middle as width at base between eyes. Color, crown dark brown, two rows of two white dashes between ocelli. Pronotum dark brown with paler brown irregular stipple. Scutellum dark brown. Forewings brownish subhyaline with paler areas and white alternate markings on wings. Claval veins white where they join commissure.

Male genital style chelate, elongate, with one "claw" short and thick, the other narrow and elongate, longer than the broader portion. Aedeagus with a constricted neck-like portion, forming a larger part apically and a much larger portion basally, the apex is broadly rounded. Pygofer narrowed apically and forming a projected, rounded, tubercle-like apex.

Holotype male, Sinchona, Peru, November 1943, J.G. Sanders coll.

*P. cellus* is similar in appearance to *P. dentatus* DeL. and may be separated by the male genital structures.

***Portanus tridens* n.sp.**

(Figs. 11-14)

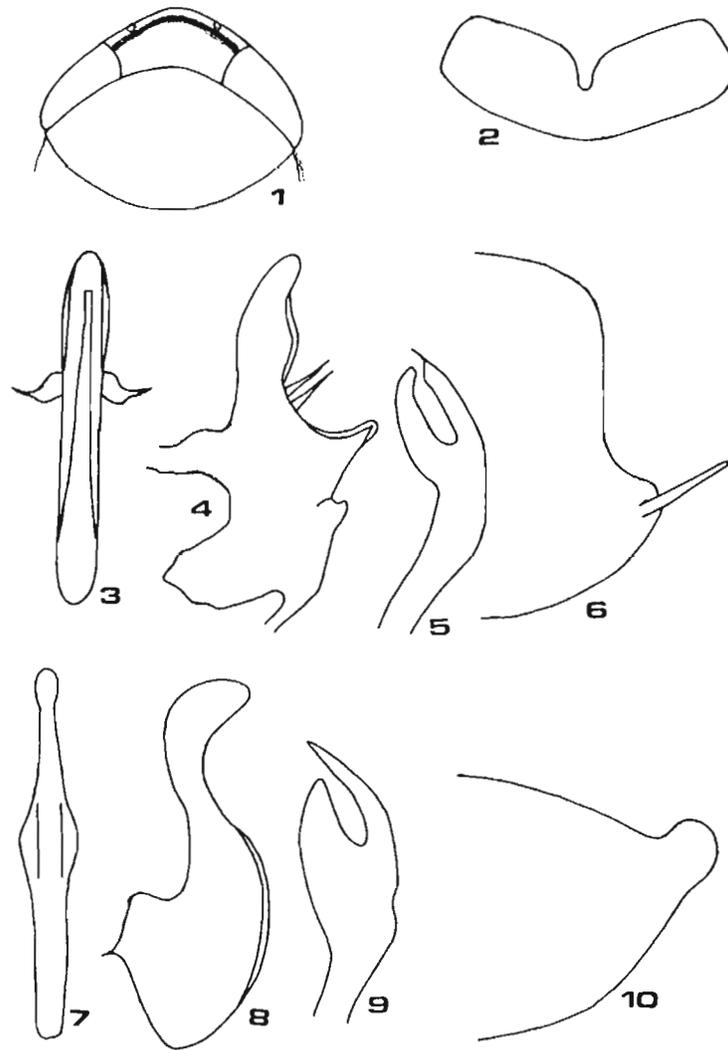
Length of male 5 mm, female 5.5 mm. Crown bluntly angled, almost as long at middle as basal width between eyes. Color, crown pale brown. Pronotum and scutellum dark brown. Forewings dark brown subhyaline, veins mostly marked with white and brown alternating dashes. Apex of wing smoky.

Female seventh sternum with posterior margin roundly produced.

Male genital style chelate with "claws" short, rounded, with one portion slightly longer, apex spine-like. Aedeagus elongate with apex broadened and tridentate. The median spine is broadened and more produced. The spine on each side at base extends caudolaterally and with concavity between the median and each lateral spine. Pygofer narrowed and rounded apically.

Holotype male, Bolivia, San Esteban 49 km N.Sta. Cruz., Dec. 7, 1959, el. 1120 ft. Paratypes: 2 males, 5 females same data as holotype; 3 males Sao Paula, Brazil, pres. Epitacle pta. Albane, X-'54 J. Lane coll; 1 male Ter. Amapa, Rio Felicle, Brazil VIII-2-'55.

*P. tridens* is related to *P. chelatus* DeL. and can be separated by the three pronged apex of the aedeagus.



Figs 1-2 *Xestocephalus cinctus* n.sp. 1. head and pronotum, 2. female seventh sternum. Figs. 3-6 *Portanus dentatus* n.sp. 3. aedeagus ventrally, 4. aedeagus laterally, 5. apex of style, laterally, 6. pygofer laterally, apical portion. Figs. 7-10 *P. cellus* n.sp. 7. aedeagus ventrally, 8. aedeagus laterally, 9. apex of style, laterally, 10. pygofer laterally, apical portion.

*Portanus filamentus* n.sp.  
(Figs. 15-18)

Length of male 7 mm, female unknown. Crown a little wider at base than median length. Color, crown pale brown with two dark brown spots, almost equidistant from eyes and from each other, at anterior margins of eyes. Pronotum pale brown with dark brown mottling. Scutellum with anterior portion pale brown, posterior half yellowish. Forewings pale brown, veins reddish brown. Claval vein alternating reddish brown and white.

Male genital plates elongate, five times as long as median width, apices broadly rounded. Style narrowed subapically, apical sixth enlarged, apex rounded. Aedeagus long, slender, curved, filamentous. Pygofer with ventral portion heavily sclerotized bearing a stout, caudal, dorsally curved spine at apex.

Holotype male, Serra de Navia, Brazil A.P., II-7-1961 J. & B. Bechyne colls.

*P. filamentus* is related to *P. lex* Kramer and can be distinguished by the male genital structures.

*Portanus avis* n.sp.  
(Figs. 19-22)

Length of male 6.5 mm, female unknown. Crown bluntly angled, three-fourths as long at middle as basal width between eyes. Color brown, apex of crown broadly white, ocelli white and two white spots between them. Basal half with irregular white areas. Pronotum brown with an irregular white area next to middle of each eye, and with irregular white stipple. Scutellum white with dark brown basal angles. Forewings pale brown, subhyaline, a whitish area on corium, brown spots where claval veins join commissure and some veins with alternate brown and white coloration.

Male genital styles chelate with the "claws" elongate, one claw more slender and elongate than the other. Aedeagus elongate, slightly broadened apically, head-like and broadened at middle; median portion broadest, basal portion narrow. Pygofer narrowed apically, rounded and bearing a long apical spine on ventral portion.

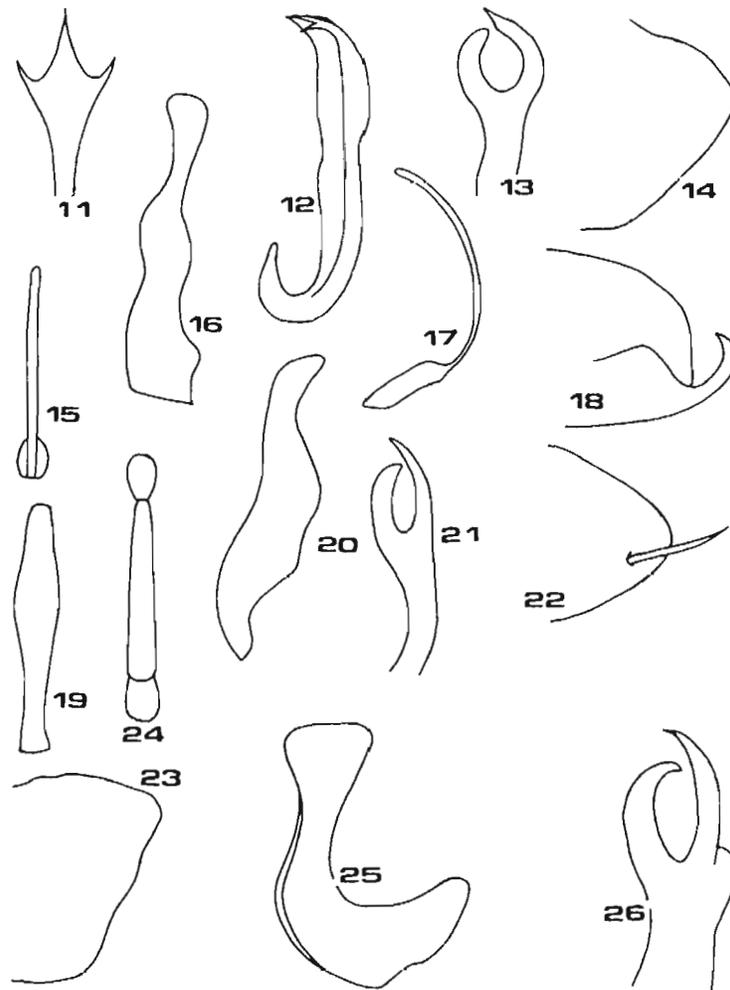
Holotype male, Sinchona, Peru, November 1943, J.G. Sanders coll. Paratype male same data as holotype.

*P. avis* is related to *P. dentatus* but the structure of the aedeagi as illustrated will distinguish these species.

*Portanus cephalatus* n.sp.  
(Figs. 23-26)

Length of male 9 mm, female unknown. Crown bluntly angled, two-thirds as long at middle as basal width between eyes. Color, crown with white margin and large white spots around ocelli. Most of crown brown. A pair of small white spots between ocelli, an elongate white spot next to each eye. Pronotum brown with numerous minute round paler areas and a broad white border around eyes. Scutellum white with dark brown basal angles. Forewings brown with paler white irregular markings and a prominent white cross on corium. Cross veins of apical cells and apex of wing dark brown.

Male genital styles chelate with "claws" elongate, one portion distinctly longer and less curved than the other. Aedeagus sheath-like with a broadened truncate apical portion, rounded dorsally and ventrally, and a much broader, curved, basal portion. Pygofer almost truncate apically.



Figs. 11-14 *P. tridens* n.sp. 11. aedeagus ventrally, apical portion, 12. aedeagus laterally, 13. style laterally, apical portion, 14. pygofer laterally, apical portion. Figs. 15-18 *P. filamenta* n.sp. 15. aedeagus ventrally, 16. style laterally, 17. aedeagus laterally, 18. pygofer laterally, apical portion. Figs. 19-22 *P. avis* n.sp. 19. aedeagus ventrally, 20. aedeagus laterally, 21. style laterally, apical portion, 22. pygofer laterally, apical portion. Figs. 23-26 *P. cephalatus* n.sp. 23. pygofer laterally, apical portion, 24. aedeagus ventrally, 25. aedeagus laterally, 26. style laterally, apical portion.

Holotype male, Sinchona, Peru, November 1943, J.G. Sanders coll. Paratype male same data as holotype.

*P. cephalatus* is related to *P. avis* DeL. and can be separated by the structure of the aedeagus as illustrated.

#### LITERATURE CITED

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