

## Notes on Psyllidae (Homoptera).

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Two brief, pre-war papers on Psyllidae (Homoptera) contributed by two Germans, require a few notes of elucidation and comment.

One of these, contributed by Dr. G. Enderlein<sup>1</sup> describes several new genera and species from Formosa. One of these new genera, *Agonosцена*, appears to be identical with *Paurocephala* Crawford. Enderlein makes an old species of *Rhinocola* (*R. targioni* Licht.) the type of his new genus and includes, also, a new species from Formosa (*A. Sauteri*). The latter species seems to be identical with *Paurocephala psylloptera* Crawford, which is widely distributed over tropical Asia and the outlying archipelagoes. While I have seen no examples of Enderlein's Formosan species, his figures and description convince me of the identity of his and my species.

As *Paurocephala psylloptera*<sup>2</sup> antedates Enderlein's *Agonosцена Sauteri*, the latter should be sunk in synonymy.

Enderlein's genus *Agonosцена* retains its validity, however, until some other disposition is made of its type species. *Rhinocola* has been made to embrace a large number of unrelated species, many of which must eventually be referred to other genera. The type of this old genus, *R. aceris* Linn., is intermediate between *Livia* and *Aphalara*<sup>3</sup>, but few of the other species can be retained properly in the genus.

For another species of *Rhinocola*, (*R. ericae* Curtis) Enderlein erects the new genus *Strophingia*. This seems scarcely justifiable since *R. ericae* and *R. targioni* are similar and not generically distinct.

The second paper<sup>4</sup> supplements Aulmann's very incomplete catalog of the psyllid species of the world. A few items in this supplement suggest some comment.

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<sup>1</sup>H. Sauter's Formosa-Ausbeute: Psyllidae, von Dr. Günther Enderlein. Entomol. Mitteilungen III, N. 7-8, pp. 230-235, July, 1914.

<sup>2</sup>Crawford, Phillipine Journ. Science, VIII (Sec. D): 293, August, 1913.

<sup>3</sup>Crawford—United States National Museum, Bul. 85: 24, 1914.

<sup>4</sup>Friedrich Zacher—Bemerkungen zur "Psyllidarum Catalogus" von G. Aulmann. Entomol. Mitteilungen II, pp. 148-153, 1913.

*Phyllopecta*, a nomen nudum of Riley's, is made by Zacher to replace *Trioza tripunctata* Fitch. This name can be given no consideration because the species is clearly a member of *Trioza*.

*Psyllopa* Crawford has been merged by its author with *Arytainia*.<sup>5</sup> Several species were described in *Psyllopa* but all are now referred to the European genus, *Arytaina*.

Zacher has tangled himself in the translation of the English language when he catalogs *Trioza tripunctata* Löw as a synonym of *Psylla Kuwayamai* Crawford. The synonymy of three specific names is correctly as follows:<sup>6</sup>

*Psylla tripunctata* Fitch (1851)—referred to *Trioza tripunctata* (Fitch) by Riley in 1893. This is a valid species.

*Trioza tripunctata* Löw (1877), preoccupied. Sulc has declared this species to be identical with *Trioza trisignata* Löw. Hence *T. tripunctata* Löw (nec Fitch) is a synonym of *T. trisignata* Löw.

*Psylla tripunctata* Kuwayama (1908), preoccupied by Fitch's old name for the American species now known as *Trioza tripunctata*. Hence, the *Psylla* species name has been changed to *Ps. kuwayamai* Crawford. This is NOT a synonym of *Trioza tripunctata*, as Zacher states.

*Trioza sonchi* is one of Riley's *nomina nuda* but resurrected by Zacher. The same insect (probably) was described in 1914 as *Hemitrioza sonchi* Crawford.

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## Undescribed Tipulidae Collected by Mr. H. S. Parish in Brazil (Dipt.).

By CHARLES P. ALEXANDER, Urbana, Illinois.

During the second half of the year 1919, Mr. Herbert S. Parish, the veteran collector of insects in tropical American countries, made a trip up the Amazon River. The crane-flies secured on this expedition to the present time were not num-

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<sup>5</sup>Crawford—United States National Museum Bul. 85: 122, 1914.

<sup>6</sup>Crawford—Pomona Jr. Ent. 3: 430, 1911.



Crawford, David Livingston. 1920. "Notes on Psyllidae (Homoptera)."  
*Entomological news, and proceedings of the Entomological Section of the  
Academy of Natural Sciences of Philadelphia* 31, 69–70.

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