

SCIENTIFIC NOTE

FIRST RECORDS OF MALES AND NEW DISTRIBUTION RECORDS FOR TWO SPECIES OF *AGATHIRSLIA* WESTWOOD (HYMENOPTERA: BRACONIDAE)¹José Isaac Figueroa-De la Rosa,² Michael J. Sharkey,³ and Víctor López-Martínez⁴

Members of *Agathirsia* Westwood are restricted to the arid regions of Mexico and the southwestern United States of America. Twenty-five of the 31 described species are recorded from Mexico and most of these were recently described by Pucci and Sharkey (2004). Mexican species are widely distributed across the country, but are notably absent from the Yucatan Peninsula and lowland areas along the Gulf of Mexico. They are collected principally from July through October (Pucci and Sharkey, 2004; Sánchez and López, 2000).

Descriptions of *Agathirsia minuata* Pucci and Sharkey and *A. tiro* Pucci and Sharkey were based only on female specimens. *A. minuata* was reported from only one specimen collected in New Mexico (USA), and *A. tiro* was reported from only Nuevo León (Mexico) and Texas (USA).

As a part of a revision of *Crassomicrodus*, specimens of *Agathirsia* were mistakenly sent to the senior author from various institutions. From this material we report for first time males of *A. minuata* and *A. tiro* and new distributional data for the two species. The males of both species are similar to females and therefore descriptions are not included here.

The records are based in material deposited in the following collections: American Entomological Institute (AEI) Gainesville, Florida, U.S.A.; California Academy of Sciences (CAS) San Francisco, California, U.S.A.; Canadian National Collection (CNC), Ottawa, Ontario, Canada; Essig Museum of Entomology-University of California (EMEC), Berkeley, California, U.S.A.; Michigan State University (MSU), East Lansing, Michigan, U.S.A.; The Bohart Museum of Entomology, University of California-Davis (UCDC), Davis, California, U.S.A. and the National Museum of Natural History (formerly known as the United States Natural History Museum (USNM), Washington, District of Columbia, U.S.A.

¹ Received on November 30, 2004. Accepted on January 19, 2005.

² Instituto de Fitosanidad, Colegio de Postgraduados, kilómetro 36.5 carretera Mexico-Texcoco, Montecillo, Estado de Mexico, Caja Postal 56230 México. E-mail: fisaac@colpos.mx.

³ Department of Entomology, University of Kentucky, S-225 Ag. Science Center North, Lexington, Kentucky 40546-0091, U.S.A. E-mail: msharkey@uky.edu.

⁴ Facultad de Ciencias Agropecuarias, Universidad Autónoma del Estado de Morelos, Avenida Universidad 1001, Colonia Chamilpa, Cuernavaca, Morelos, Caja Postal 62210 Mexico. E-mail: vilomar74@yahoo.com.mx.

***Agathirsia minuata* Pucci and Sharkey**

Collection Data: MÉXICO, Chihuahua: 1 ♀, 33 mill N Hidalgo de Parral, 23.viii.1960, Arnaud P. H., Jr., E. S. Ross & D. C. Rentz (CAS); Sonora: 1 ♀ and 1 ♂, 17 mill S Navojoa, 18.viii.1964, Timberlake (USNM). USA, California: 1 ♂, Capinole, L., 2.x.1941, Ross & Bohart (UCDC); New Mexico: 2 ♂, Rodeo, Hidalgo Co., 21.viii.1960, Arnaud P. H. Jr., E. S. Ross & D. C. Rentz (CAS); 1 ♂, 4.8 mill N Rodeo, Hidalgo Co., 4.ix.1961, Hurd P. D. (EMEC); 1 ♂, 18 mill N Cloverdale, 12.viii.1955, Dreisbach R. R. (USNM); 5 ♀ and 4 ♂, Hatch, 30.viii.1974, Townes H. & M. Townes (AEI).

These are the first records of *A. minuata* from Mexico (Chihuahua and Sonora). The Californian specimen represents a new state record for the USA. This information increases, to 26 species, the number of species of *Agathirsia* recorded from Mexico, representing 83 percent of the total number of species.

***Agathirsia tiro* Pucci and Sharkey**

Collection Data: USA, New Mexico: 1 ♂, Ruidoso, Lincoln Co., 4.vii.1961, Eickwort G. C. (MSU); Texas: 1 ♀, Davis Ranch, NW Blanco Co., 23.iv.1959, Mason W. R. M. (CNC); 1 ♂, Sanderson, 28-29.iv.1959, Mason W. R. M. (CNC); 1 ♂, Sullivan City, Hidalgo Co., 10.iv.1976 (CAS).

These data corroborate the original distribution of the species reported by Pucci and Sharkey (2004), southern United States to northeast Mexico. The New Mexico specimen represents a new state record for the USA.

ACKNOWLEDGMENTS

We appreciate the collaboration of the following collection managers, Robert L. Zuparko (CAS and EMEC), John Huber and Henry Goulet (CNC), Gary L. Parsons (MSU), S. L. Heydon (UCDC), and David R. Smith (USNM) for the loan of the material. Our thanks to Jorge Santiago-Blay (Editor of *Entomological News*) and two anonymous referees for their comments that improved the final version of the manuscript. This work was partially supported by the Consejo Nacional de Ciencia y Tecnología (SNI-CONACYT expd. 31351).

LITERATURE CITED

- Pucci, T. and M. Sharkey. 2004. A revision of *Agathirsia* Westwood (Hymenoptera: Braconidae: Agathidinae) with notes on mouthpart morphology. *Journal of Hymenoptera Research* 13(1): 64-107.
- Sánchez G., J. A. and V. López M. 2000. Géneros de Braconidae (Hymenoptera) depositados en la colección entomológica del Instituto de Fitosanidad del Colegio de Postgraduados. *Acta Zoológica Mexicana* (n. s.) 79: 257-276.