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SCIENTIFIC NOTE

New Synonymy of *Zabrotes chavesi* Kingsolver and *Z. vandykei* Kingsolver, with New Host and Distribution Records (Coleoptera: Bruchidae, Amblycerinae)

J. M. Kingsolver (1980, *Proceedings of the Biological Society of Washington* 93(1): 229–283) described *Zabrotes chavesi* and 17 other species from Costa Rica and later described *Z. vandykei* (J. M. Kingsolver, 1990, *Transactions of the American Entomological Society* 116(1):135–174) when he revised the *Zabrotes* of America north of Mexico. We considered *Zabrotes chavesi* to be a senior synonym of *Z. vandykei* after the senior author examined specimens from Venezuela to Sonora, Mexico. We compared the external morphology and male genitalia of both named forms, and we found them to fall within the limits of a single species. Both forms have been reared from the seeds of the same host, *Senna leptocarpa* Benth (J. M. Kingsolver, 1980, *loc. cit.*, 1990, *loc. cit.*; D. H. Janzen, 1980, *Journal of Ecology* 68:929–952; S. Udayagiri and S. R. Wadhi, 1989, *Memoirs of the American Entomological Institute*, Number 45, 301 p.) The formal synonymy is as follows.

Zabrotes chavesi Kingsolver

Zabrotes chavesi Kingsolver 1980, *Proceedings of the Biological Society of Washington* 93(1):243. (Type locality: Costa Rica. Guanacaste Prov.: Santa Rosa N. Park. Type depository: U. S. National Museum of Natural History, Washington, D. C.); C. D. Johnson and J. M. Kingsolver (1981, *Coleopterists Bulletin* 35(4):411; D. H. Janzen (1980, *Journal of Ecology* 68:949).

Zabrotes vandykei Kingsolver 1990, *Transactions of the American Entomological Society* 116(1):150. (Type locality: USA. Arizona: 6 mi. N Chiricahua National Monument. Type depository: U. S. National Museum of Natural History, Washington, D. C.). **New Synonymy.**

The new host record is: *Senna spectabilis* DC.: Venezuela. Aragua: ca. 1400', 4 km S San Casimiro, II-7-85 (#3917-85). Voucher specimens of *S. spectabilis* are deposited in the New York Botanical Garden, The Bronx, New York and the Deaver Herbarium, Northern Arizona University. Voucher specimens for *Z. chavesi* are deposited in the C. D. Johnson Collection, Northern Arizona University. The old distribution records for this species are Costa Rica, El Salvador, Mexico (Guerrero, Jalisco, Michoacan, Nayarit, and Sinaloa), and the USA (Arizona). The new distribution records are Honduras, Mexico (Morelos, Oaxaca, and Sonora), Nicaragua, and Venezuela.

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