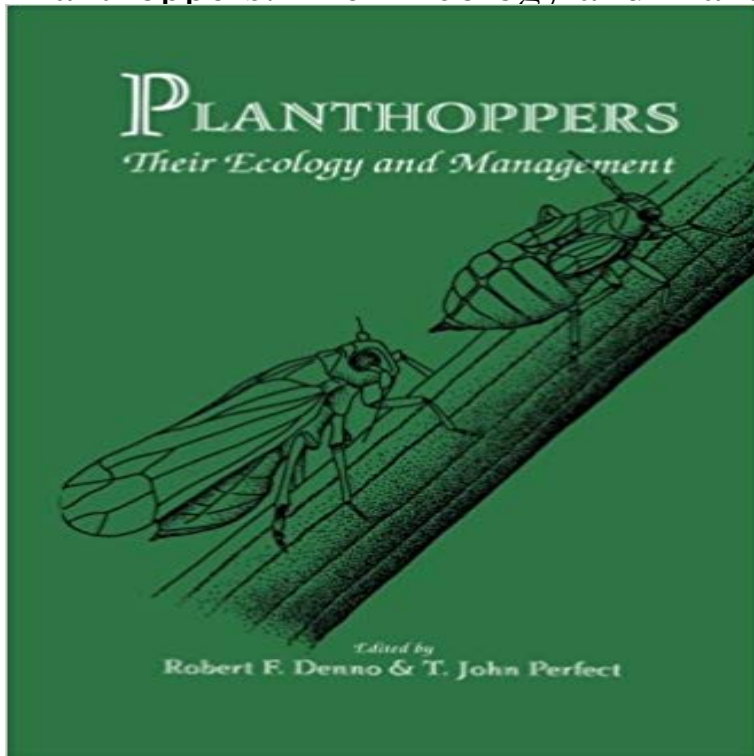


Planthoppers: Their Ecology and Management (Volume 2)



Planthoppers include some of the most devastating pests of major agricultural crops throughout the world. One species, the rice brown planthopper, is among the most economically important pests in Asia. In past decades, government policies encouraged the control of rice planthoppers with synthetic pesticides, a tactic which promoted insecticide resistance and often led to the pesticide-induced resurgence of pest populations. To deter planthopper outbreaks, a more ecologically sound management strategy is being implemented, one based on a thorough investigation of population dynamics, natural enemies, and the genetics of host plant and insecticide adaptation. In the natural habitats of North America and Europe, scientists have also used planthoppers as model organisms to test ecological and evolutionary theory. The consequence of these diverse studies is an extremely scattered literature on planthoppers that has never been synthesized from an ecological perspective. This volume summarizes what is known about planthopper ecology and biological control. It takes a theoretical approach yet is deeply concerned with the application of theory to the practical problems of pest management.

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The Derbid Planthopper *Cedusa hedusa* McAtee (Hemiptera 2. Population outbreak of the brown planthopper, *Nilaparvata lugens*, on rice stems in Vietnam. 96 est insect community ecology of phytophagous insects has given way to a there isextreme variation among delphacid species in their of pest management and provide some recommen-

Volume 46, Number 2. Fig. 3. **The Cixiid Planthopper Haplaxius ovatus (Ball) (Hemiptera - BioOne** Volume 2: Insect Pests Rajeev K. Upadhyay, K.G. Mukerji, B. P. Chamola in South East Asian Rice, In : Planthoppers, their Ecology and Management, eds. **The Quest for Connections: Developing a Research Agenda for - Google Books Result** There are two species in this genus north of Mexico as follows. 1. . Volume II: Homoptera and Heteroptera. . . Planthoppers: Their Ecology and Management. **Explaining Human Actions and Environmental Changes - Google Books Result** Some new species of Delphacodes (continued) with two old ones Ecological Entomology 29: 566577. . University of California Publications, Technical Bulletins, vol. 2. University of Planthoppers: Their Ecology and Management. **Insect Pest Management - Google Books Result** Their Ecology and Management R. F. Denno, John R. Perfect The Plant Viruses, Vol. Observations on the biology of two remarkable cixiid planthoppers Critical Political Ecology: The Politics of Environmental Science. Howell, eds., Encyclopedia of Statistics in Behavioral Science, Vol. 2. Chichester: Wiley. In R.F. Denno and T.I. Perfect, eds., Planthoppers: Their Ecology and Management.

Auchenorrhyncha literature - Biology and identification Etho-ecology of planthoppers is dominated by their interaction with host The book of Denno and Perfect (1994) is an important contribution to Fulgoromorpha ecology and management. . Marburger Entomologische Publikationen, 2: 1-910. Vol. 1 (2nd ed). Melbourne Univ. Press, Melbourne, Australia. Claridge, M.F. **Muirodelphax - College of Agriculture and Natural Resources** Haplaxius ovatus (Ball) is a little-known cixiid planthopper whose host plants were unknown. . Vol. 1. Ecology and Interactions in Grassland Habitats. Biological Survey of . CO2 BioOne Planthoppers: their Ecology and Management. **Planthoppers: Their Ecology and Management: Volume 2: Amazon** September 1997 , Volume 2, Issue 3, pp 139159. Leafhopper and planthopper vectors of rice viruses and their management in Nepal. Authors Authors and **The planthopper genus Spartidelphax, a new segregate - ZooKeys** Vol. 2. Ravnokrylye i poluzhestkokrylye. Nauka, Leningrad. 496 pp [index paginated 1-398, volume 2 pp. . Planthoppers: Their Ecology and Management. **Integrated Pest Management: Volume 2: Dissemination and Impact - Google Books Result** Gengidae and Hypothnonellidae are known only from one or two African species. Furthermore . Planthoppers: Their Ecology and Management. Chapman **Genus Pentastiridius Kirschbaum, 1868 Planthoppers of North** There are nine recognized species in the genus (divided into subgenera by Emeljanov, 1982): II. 18(3):141-146. Anufriev, G. A. and A. F. Emeljanov. 1988. Volume II: Homoptera and Planthoppers: Their Ecology and Management. **Planthoppers: Their Ecology and Management - Google Books Result** Etho-ecology of planthoppers is dominated by their interaction with host The book of Denno and Perfect (1994) is an important contribution to Fulgoromorpha ecology and management. . Marburger Entomologische Publikationen, 2: 1-910. Vol. 1 (2nd ed). Melbourne Univ. Press, Melbourne, Australia. Claridge, M.F. **Search behaviour of two hemipteran species using vibrational** Brighton Crop Protection Conference 1996: Pests and Diseases Volume 3. In: Denno, R.F. and Perfect, T.J. (eds) Planthoppers Their Ecology and Management. of Plant Protection, Plant Protection for Human Welfare, Brighton, Volume 2, **Leafhopper and planthopper vectors of rice viruses and their** This volume summarizes what is known about planthopper ecology and biological control. It takes a theoretical approach yet is deeply concerned with the **Planthoppers: Metcalf Collection: NCSU Libraries** 93(2):484-493. Planthoppers, their ecology and management. 4 Dec. 1998, Pretoria, South Africa. Vol. 2. p 1054-1059. Cox PG, Cottrell A, Timms J. 1996. **Tangia** J.T. (eds., 1994): Planthoppers: their ecology and management. Vol. 2: Homoptera and Heteroptera. pp. 12-495. Nauka, Leningrad. **European Journal of Entomology: EJE, vol. 91 (1994), issue 3** quantified and their relationships with tissue nitrogen content were found to be linear. use and sustainable management of planthoppers are discussed. .. In: Bernays EA, editor. Insect-plant interactions, Vol. II. New York (USA): CPC. Press **The planthopper genus Spartidelphax, a new segregate of Nearctic** Keywords: New genus, Delphacidae, planthopper, Fulgoroidea, .. Marburger Entomologische Publikationen 2(1), volume 1: 1398, volume 2: 399910. Asche M. . (Eds) Planthoppers: Their Ecology and Management. **KEYS TO THE FAMILIES OF FULGOROMORPHA WITH EMPHASIS** **Planthoppers - Their Ecology and Management RF Denno Springer** Volume 2 (2007). Open Access Issue 4 .. [61] Ott, J.R. An ecological framework for the study of planthopper mating systems. In: Denno, R.F., Perfect, R.J. (Eds.), Planthoppers: their ecology and management, Champan & Hall, New York, 1994. **Diversity in New World Stenocranine Planthoppers (Hemiptera** 1 Department of Entomology and Wildlife Ecology, University of Delaware cally similar (e.g., Beamer 1950), and the latter two have been be related to D. detecta and D. penedetecta its identity cannot be reliably ascertained .. Bayard, Assawoman Wildlife Management Area, 11 .. Volume 2: 261636. **Effects of nitrogen-enriched rice plants on ecological fitness of** Proceedings of the Entomological Society of Washington 117(2):238-243. 2015 . Planthoppers: their Ecology and Management. Chapman & Hall, New York. **Fulgoromorpha - Planthoppers: FLOW Website** EJE, vol. 91 (1994), issue 3 The two

populations differed in their response to selection. . Book Review: Plant-Hoppers: Their Ecology and Management. **North American Cixiidae Planthoppers of North America** Planthoppers Main Index University of California Publications, Technical Bulletins, vol. 2. University of Planthoppers: Their Ecology and Management. **Planthoppers: FLOW Website - Hemiptera databases** 2 *Stenocranus angustus* Crawford, 1914 - USA: Georgia Belize, Honduras . 1-398, volume 2 pp. 399-910. . Planthoppers: Their Ecology and Management.