

Chinavia marginata (Hemiptera: Pentatomidae)

This short description has been prepared in the framework of the EPPO Study on Pest Risks Associated with the Import of Tomato Fruit. The whole study can be retrieved from the EPPO website.

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Africa	Asia	Oceania	North America	South-Central America and Caribbean
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***Chinavia marginata* (*Acrosternum marginatum*, *Nezara marginata*) (Hemiptera: Pentatomidae)**

Why	Identified in the EPPO tomato study. It was identified based on a record in CABI CPC (2013), but little information was found in the literature. The name <i>Acrosternum marginatum</i> is used in many publications, although it seems that the current name is <i>Chinavia marginata</i> (Rider, 2011).
Where	<p>EPPO region: absent</p> <p>North America: USA (Arizona, California, Florida, Texas), Mexico (Rider, 2011)</p> <p>Central America: Belize, Costa Rica, Guatemala, Honduras, Nicaragua, Panama (Rider, 2011)</p> <p>Caribbean: Dominica, Dominican Rep., Grenada, Guadeloupe, Haiti, Jamaica, Puerto Rico, US Virgin Islands (St. Croix) (Rider, 2011); CABI CPC (2013, based on Schotman et al., 1989) also mention Antigua and Barbuda, Trinidad and Tobago (CABI CPC).</p> <p>South America: Bolivia, Brazil (Rio Grande do Sul), Colombia, Ecuador, Guyana, Peru, Venezuela (Rider, 2011)</p> <p>Doubtful record: Brazil. Schwertner and Grazia (2007), in a study on <i>Chinavia</i> spp. in Brazil, note that the presence of <i>C. marginata</i> in Brazil was reported in the literature, but did not find specimens confirming this record and, in one case, the record was a misidentification of <i>C. ubica</i> (which has tomato as a potential host, but a more tropical distribution: Dominican Rep., Bahamas, Grenada, Panama, Suriname, Guiana, Venezuela, Colombia, Brazil, Ecuador, Bolivia).</p>
Climatic similarity	Medium. 7 common climates considering the countries listed above, possibly lower (occurring in specific areas of the countries mentioned).
On which plants	Soybean, <i>Jatropha curcas</i> , beans (Panizzi et al., 2000); legumes, tomato, various crops and weeds (King and Saunders, 1984); <i>Abelmoschus esculentus</i> , <i>Capsicum annum</i> , <i>Glycine max</i> , <i>Nicotiana tabacum</i> , <i>Phaseolus</i> , <i>Solanum lycopersicum</i> (CABI CPC).
Damage	King and Saunders (1984) note that the biology is similar to that of <i>N. viridula</i> (eggs on leaves, nymphs and adults feed on fruit, pods, seeds and young tissues. (for <i>C. hilaris</i> , eggs are also laid on stems, and occasionally fruit). They are mobile, and adults fly. In Central America, <i>C. marginata</i> is a minor pest that may be serious locally (King and Saunders, 1984).
Dissemination	Eggs may be associated mostly to green parts associated to fruit, while nymphs and adults may also be associated with fruit (but are mobile). Adults fly.
Pathway	Plants for planting, fruit?, vegetables?, of host plants from countries where <i>C. marginata</i> occurs.
Possible risks	The climatic similarity according to the EPPO Study between the area where it occurs and the EPPO region is medium. In areas of its distribution which have higher climatic similarity with part of the EPPO region (e.g. southern USA), and where both <i>C. marginata</i> and <i>C. hilaris</i> occur, records were found only for <i>C. hilaris</i> as a pest. This may indicate that <i>C. marginata</i> is less important than <i>C. hilaris</i> in these areas.
Categorization	None found.
Sources	<p>CABI CPC. 2013</p> <p>King ABS and Saunders JL. 1984. The invertebrate pests of annual food crops in Central America. Overseas Development Administration, London. http://books.google.dk/books?id=qMwOAQAIAAJ&dq=agrotis+repleta+king&source=gbs_navlinks_s (Accessed January 2014)</p> <p>Panizzi AR, McPherson JE, James DG, Javahery M, McPherson RM. Chapter 13 - Stink Bugs, Pentatomidae. P 444 In Schaefer CW and Panizzi AR. 2000. Heteroptera of economic importance, CRC Press, Boca Raton, FL, 828 pp. . http://books.google.dk/books?id=AVcBIOGL-fQC&pg=PA444&lpg=PA444&dq=panizzi+piezodorus+hybneri+heteroptera&source=bl&ots=xWYAcCiWPZ&sig=WijyPXuww4-</p>

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Rider D. 2011. Pentatomidae Home page. North Dakota State University.

<http://www.Rider.nodak.edu/Rider/rider/Pentatomoidea/index.htm> (Accessed January 2014)

Schwertner CF, Grazia J. 2007. O gênero *Chinavia* Orian (Hemiptera, Pentatomidae, Pentatominae) no Brasil, com chave pictórica para os adultos. *Revista Brasileira de Entomologia* 51(4): 416-435, dezembro 2007.