

Mini data sheet on *Corythucha arcuata*

Added in 2001 - Deleted in 2007

**Reasons for deletion:**

In an Italian PRA, it was concluded that no efficient phytosanitary measures could stop the natural spread of *Corythucha arcuata*. In 2007, it was therefore removed from the EPPO Alert List.

*Corythucha arcuata* (Heteroptera, Tingidae), the oak lace bug

Why	<i>Corythucha arcuata</i> came to our attention because it was recently introduced into Europe (Italy). Pictures of <i>C. arcuata</i> can be viewed at: <a href="http://cedarcreek.umn.edu/insects/album/020014007ap.html">http://cedarcreek.umn.edu/insects/album/020014007ap.html</a> <a href="http://www.uniud.it/entomoinfo/index.htm">http://www.uniud.it/entomoinfo/index.htm</a>
Where	It originates from North America: Canada (south), USA (most states). Reported for the first time in 2000, in Italy (Lombardia, Piemonte). In 2001, it was present on 7000 km <sup>2</sup> in Lombardia and Piemonte, and an isolated infested oak tree was found on the northern coast of Lake Como. Reported as present in Turkey.
On which plants	Oaks ( <i>Q. acuminata</i> , <i>Q. alba</i> , <i>Q. macrocarpa</i> , <i>Q. muehlenbergii</i> , <i>Q. prinoides</i> , <i>Q. prinus</i> , <i>Q. rubra</i> ) and <i>Castanea americana</i> . Occasionally found on <i>Acer</i> , <i>Malus</i> and <i>Rosa</i> .
Damage	Direct feeding on the leaves (discoloration of the upper surface), reduced photosynthesis and in case of heavy infestation, premature leaf fall.
Pathway	Oak plants for planting, cut branches from countries where <i>C. arcuata</i> occurs.
Possible risks	Oaks are very important forest and amenity trees in Europe. Past experience with a similar insect ( <i>Corythucha ciliata</i> ) feeding and damaging <i>Platanus</i> species showed that it was a considerable nuisance in public places, and that it was difficult to prevent natural spread of these insects and to control them especially in urban environment. Oaks grown in nurseries, along the roads, and in parks and gardens are particularly at risk. Apparently, <i>C. arcuata</i> is not reported as a forest pest, but the risk for European oak forests cannot be excluded.
Source(s)	Bernardinelli, I.; Zandigiaco, P. (2000) First record of the oak lace bug <i>Corythucha arcuata</i> (Say) (Heteroptera, Tingidae) in Europe. <i>Informatore Fitopatologico</i> , no. 12, 47-49. Bernardinelli, I. (2000) Distribution of the oak lace bug <i>Corythucha arcuata</i> (Say) in northern Italy (Heteroptera Tingidae). <i>Redia</i> , 83, 157-162. Boggs, J.F.; Young, C.E.; Shetlar, D.J.; Bloetscher, B.; Stone, A.K.; Goerig, D.J.; Malinich, T.J.; Dyke, D.E.; Draper, E.A.; Bennett, P.J.; Gao, G.Y.; Chatfield, J.A.; (2004) Insect and mite activity noted in Ohio nurseries and landscapes: 2003. Special Circular - Ohio Agricultural Research and Development Center, Ohio State University, no. 193, 33-53. In: <i>Review of Agricultural Entomology</i> 92(81), August 2004, abstr. 7568, p 1165. INTERNET Ohio State University Extension Fact Sheet. Lace bugs. <a href="http://www.ag.ohio-state.edu/~ohioline/hyg-fact/2000/2150.html">http://www.ag.ohio-state.edu/~ohioline/hyg-fact/2000/2150.html</a> Pennsylvania State Entomology Department. Entomological Notes. Lace bugs on deciduous woody ornamental plants. <a href="http://www.ento.psu.edu/extension/facsheets/lace_bug_woody_orn.htm">http://www.ento.psu.edu/extension/facsheets/lace_bug_woody_orn.htm</a> University of Vermont Extension. Lace bugs by G.R. Nielsen. <a href="http://ctr.uvm.edu/ctr/EI/el153.htm">http://ctr.uvm.edu/ctr/EI/el153.htm</a> University of Georgia. The Bugwood Network. Oak lace bug. <a href="http://www.forestpests.org/oak/lacebug.html">http://www.forestpests.org/oak/lacebug.html</a> University of Udine. Entomoinfo. Occurrence in Italy of the Oak lace bug, <i>Corythucha arcuata</i> (Say) (Heteroptera - Tingidae) by I. Bernardinelli & P. Zandigiaco. <a href="http://www.uniud.it/entomoinfo/index.htm">http://www.uniud.it/entomoinfo/index.htm</a>

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