Mini data sheet on Thecodiplosis japonensis

Added in 1999 - Deleted in 2004

Reasons for deletion:

Thecodiplosis japonensis has been included in EPPO Alert List for more than 3 years and during this period no particular international action was requested by the EPPO member countries. In 2004, it was therefore considered that sufficient alert has been given and the pest was deleted from the Alert List.

Thecodiplosis japonensis (Diptera: Cecidomyiidae) - Pine needle gall midge		
Why	Thecodiplosis japonensis came to our attention because it appeared in a list of	
	harmful organisms in the EU derogation (93/4	52/EEC of 15 July 1993) concerning
	Pinus plants from Japan.	
Where	Japan, Korea Republic (including Cheju	
	Democratic People's Republic. T. japonensis v	
	in Japan in 1955. In Korea, it was first obser	
	distribution gradually expanded, and it is	
	country. In 1990, it was first found on Che	5
On which plants	212.000 ha of <i>P. densiflora</i> and <i>P. thunbergii</i> were infested. <i>Pinus</i> spp., mainly <i>P. densiflora</i> , <i>P. thunbergii</i> . In resistance tests: no eggs were	
On which plants	laid on <i>P. koraiensis</i> and <i>P. strobus</i> needles, <i>P. virginiana</i> , <i>P. taeda</i> , <i>P. rigida</i> and <i>P. banksiana</i> did not show galls. But <i>P. sylvestris</i> , <i>P. nigra</i> , <i>P. resinosa</i> , <i>P.</i>	
	<i>contorta</i> and <i>P. ponderosa</i> could be attacked.	Westins, T. Ingra, T. Teshosa, T.
Damage	In spring, emerging females lay eggs on de	eveloping needles. After hatching,
- J -	young larvae crawl down to the leaf sheath and feed by sucking sap which	
	induces the formation of galls. Large nu	
	defoliation, resulting in simultaneous retarda	ition in both terminal and cambial
	growth of the tree. <i>T. japonensis</i> overwinters in the soil where almost all larvae spin their cocoon. Adults can fly and be dispersed by the wind. Heavy attacks	
	cause growth reduction. Tree mortality was	
Nete	reported that in some years, 7000-8000 ha of attacked trees had to be cut.	
Note	It can be noted that, in Europe, there is a similar species, <i>T. brachyptera</i> attacking mainly <i>P. sylvestris</i> , but which causes less damage (no tree mortality	
	reported).	ses less damage (no tree mortainty
Pathway	Plants for planting, cut branches of <i>Pinus</i> spp. Soil.	
Possible risks	<i>T. japonicus</i> is considered as one of the most destructive insect pests of pines,	
	especially in Korea. Pines are important forest trees in the EPPO region.	
	However, more data would be needed on the biology of the pest, particularly on	
	its climatic requirements. Control measures (chemical or biological) are	
	available, but more details are needed on	
	difficult to apply in practice for economic or environmental reasons.	
Source(s)	 Kim, K.S.; Hong, S.H.; Lee, S.K. (1987) [Resistance test of 13 pine species and race identification for the pine gall midge.] Research Report of the Institute of Forest Genetics, no. 23, 34-37. Lee, B.Y.; Chung, Y.J.; Park, K.N.; Byun, B.H.; Bae, W.I. (1997) [Distribution of the pine needle gall midge, <i>Thecodiplosis japonensis</i> Uchida et Inouye (Diptera: Cecidomyiidae), infestations in Korea: a brief history.] FRI Journal of Forest Science, no. 56, 13-20. Lee, BY. (1994) Ecological characteristics of the local pine needle gall midge, <i>Thecodiplosis</i> 	
	<i>japonensis</i> , population in Cheju Island. Research Report no. 49, 65-72.	rts of the Forestry Research Institute Seoul,
	Lee, S.G.; Kim, S.I.; Ahn, Y.J.; Kim, J.B.; Lee, B.Y. (1997) Effectiveness of carvacrol derived from <i>Thujopsis dolabrata</i> var <i>hondai</i> sawdust against <i>Thecodiplosis japonensis</i> (Diptera: Cecidomyiidae).	
	Pesticide Science, 49(2), 119-124. Skuhravy, V. (1994) On the differences between <i>Thecodiplosis brachyptera</i> Schwäg. and <i>Thecodiplosis</i>	
	<i>japonensis</i> Uch. et In. (Diptera, Cecidomyidae) on the genus <i>Pinus</i> . Anzeiger für Schädlingskunde Fflanzenschutz Umweltschutz, 67(7), 156-160.	
	A picture can be viewed on INTERNET http://www.best5.net/animal/	
EPPO RS 99/163		Fature data 1000-10
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