Mini data sheet on Sinaloa tomato leaf curl begomovirus

Added in 2000 - Deleted in 2001

Reasons for deletion

Sinaloa tomato leaf curl begomovirus was already covered by the list of *Bemisia*-transmitted viruses in EU regulations. It was not considered to be an alert situation. In 2001, it was therefore removed from the EPPO Alert List.

Sinaloa tomato leaf curl begomovirus

Why	Sinaloa tomato leaf curl begomovirus came to our attention as causing an
Whoro	Sinaloa tomato loaf curl bogomovirus was first observed in Sinaloa. Movice, in
WIICIC	tomato and cansicum crops in 1080 (Brown at al. 1003) It was then partially
	charactorized by Idris & Brown (1008) and considered as a distinct virus
	Depently it was found in Costa Dia. Symptome ware observed in October 1000
	Recently, it was found in costa Rica. Symptoms were observed, in October 1998,
	in tomato plantings near lurrialda, and Sinaida tomato lear curi begomovirus
	was detected in diseased tomato plants (Idris et al., 1999). A virus showing 97-
	99% similarity with Sinaloa tomato leaf curl begomovirus was found in Nicaragua
	(Rojas <i>et al.</i> , 2000).
	Distribution: Costa Rica, Mexico (Sinaloa), Nicaragua.
On which plants	Tomato (Lycopersicon esculentum), capsicum (Capsicum annuum). Tobacco
	(Nicotiana tabacum) is reported as a natural host. Experimentally, the virus can
	cause symptomless infection in aubergine (Solanum melongena) which is an
	unusual feature among begomoviruses from the Americas. However, aubergine
	crops have not been surveyed and it is not known whether the virus can latently
	be present on them.
Damage	Tomato: foliar curling and chlorosis, unique purpling on the abaxial side of
<u>J</u> -	leaves, and shortened internodes. Capsicum: green-vellow foliar mosaic.
	shortened internodes and stunting. In Sinaloa, the disease is reported as
	widespread
Transmission	Transmitted by <i>Bemisia tabaci</i>
Pathway	Infected tomato cansicum plants and possibly aubergines? fruits? viruliferous R
ratiway	tabaci from countries where Sinaloa tomato leaf curl begomovirus occurs
Possible risks	Tomato and capsicum are important crops in the EPPO region both indoor and
	outdoor. The vector is present in many parts of the EPPO region. Data on disease
	significance in the field is lacking. It is also difficult to appreciate the potential
	risk procented by latent infections on suborgines
Source(s)	Rown IK Idris A M Eletcher D C (1003) Singles tomate leaf curl virus a newly described
5001 CC(3)	geminivirus of tomato and pepper in west coastal Mexico. Plant Disease, 77(12), p 1262.
	Idris, A.M.; Brown, J.K. (1998) Sinaloa tomato leaf curl geminivirus: biological and molecular
	evidence for a new subgroup III virus. Phytopathology, 88(7), 648-657.
	Idris, A.M.; Rivas-Platero, G.; Torres-Jerez, I.; Brown, J.K. (1999) First report of Sinaloa tomato leaf
	CUFI geminivirus in Costa Rica. Plant disease, 83(3), p 303. Polston J. F.: Anderson P. K. (1997) The emergence of whitefly transmitted geminiviruses in temato.
	in the Western Hemisphere. Plant Disease, 81(12), 1358-1369.
	Rojas, A.; Kvarnheden, A.; Valkonen, P.T. (2000) Geminiviruses infecting tomato crops in Nicaragua.
	Plant Disease, 84(8), 843-846.
	INTERNET
	GEMINI DETECTIVE Web site by Dr. Judith Brown, University of Arizona and Dr. Stephen D. Wyatt, Washington State University (US)
	http://ipmwww.ncsu.edu/nipmn/GEMINI/descriptions/STLCV.html (description and nictures)
EPPO RS 98/044, 2000	/046, 2001/025
Panel review date	2001-01 Entry date 2000-03