

**Report of a Pest Risk Management: *Tomato infectious chlorosis virus***

This summary presents the conclusions of the pest risk management which has been conducted on the pest, according to EPPO Standard PP 5/4(1) Pest Risk Management Scheme.

**Pest:** *Tomato infectious chlorosis virus* (TICV)

**Assessor:** EPPO Secretariat

**Date:** 2005-02

**IDENTIFICATION OF THE PATHWAYS****1 Pathways studied in the pest risk management**

Plants for planting of tomato lettuce, tomatillo, artichoke, ornamental were considered as the main pathway for TICV.

**Ranking of the pathway: high.**

**2 Other pathways**

Viruliferous whiteflies (*Trialeurodes vaporariorum*) moving with plant produce can be a pathway, although the risks associated with this pathway are difficult to assess.

**IDENTIFICATION OF POSSIBLE MEASURES FOR PATHWAYS <sup>1</sup>**

*Measures related to consignments:*

None was identified, as it was considered that testing for TICV on a routine basis was not available for the moment.

*Measures related to the crop or to places of production*

- Measures can be applied to control the insect vector *Trialeurodes vaporariorum*. These measures can include a combination of treatments and protected conditions (e.g. insect-proof glasshouses).
- Pest-free area for TICV
- Pest-free area for vector
- Pest-free place of production and an appropriate buffer zone (in combination with exclusion measures against the vector).

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<sup>1</sup>in this section elements considered when answering questions number 31 to 37 should be included for each pathway (possible combination of measures, measures not considered as cost effective....)

## EVALUATION OF THE MEASURES IDENTIFIED IN RELATION TO THE RISKS PRESENTED BY THE PATHWAYS

### CONCLUSION: SELECTION OF MEASURES

Plants for planting of tomato where TICV and its vector (*Trialeurodes vaporariorum*) occurs

PC and, if appropriate RC

Area freedom for TICV

Area freedom for *Trialeurodes vaporariorum*

Place of production and appropriate buffer zone freedom for TICV, and exclusion measures against *Trialeurodes vaporariorum*, (protected conditions, screens, preventive treatments) to be specified in EPPO Phytosanitary Procedure no.

Place of production and appropriate buffer zone freedom for *Trialeurodes vaporariorum* and exclusion measures against it (protected conditions, screens, preventive treatments) to be specified in EPPO Phytosanitary Procedure no.

#### Notes:

Crop freedom for TICV was not considered as a suitable option as there is no practical way of verifying the absence of the virus on the crop. It was assumed that in most cases, trade would concern young plants which may not have the time to express clear symptoms, and that no routine test was available.

Particular case of grafted tomatoes?? Requirements should apply to both parts of the finished plants (graft and rootstock). For example, it could happen that one part is grown in an infected place of production, and then grafted onto a healthy part grown in an place of production which is indeed free of the virus. The finished grafted plant (although infected) would seemingly come from place of production which is free.

## APPENDIX

For each possible category of measures in the pest risk management scheme, this table could identify specifically the ones which were considered suitable ("possible" in bold) and the ones which were not suitable (with a brief justification)

<b>CATEGORIES OF MEASURES</b>	<b>Pathway (tomato plants for planting)</b>
<b>Detection of the pest in consignments by inspection or testing</b>	
general visual inspection	Not reliable
targeted visual inspection	Not reliable
specified testing	Tests exist (molecular tests) but they are not routinely applied
import under special licence/permit and post-entry quarantine	Not realistic for 'normal trade'
<b>Removal of the pest from the consignment by treatment or other phytosanitary procedures</b>	
specified treatment	<b>Treatment against the vector</b> (see chapters 'Identification of possible measures' and 'Conclusion: selection of measures')
removal of parts of plants from the consignment	Not relevant.
<b>Prevention of establishment by limiting the use of the consignment</b>	
import under special licence/permit and specified restrictions	Not relevant.
<b>Prevention of infestation of the commodity</b>	
specified treatment and/or period of treatment (crop)	No treatment available.
consignment should be composed of specified cultivars	No resistant cultivars available
specified protected cultivation	<b>Measures against the vector, whitefly-proof glasshouses</b>
specified age of plant, growth stage or time of year of harvest	Not relevant
specific handling/packing methods	Not relevant
certification scheme	Not relevant
<b>Establishment and maintenance of pest freedom of a crop, place of production or area</b>	
pest freedom of the crop	Crop freedom of TICV in areas where the vector is not present does not seem necessary (only a theoretical chance that the virus is there without vector). Crop freedom of TICV in areas where vector is present is difficult to verify (it was assumed that in most cases, symptomless young plants are traded and no routine tests are available).
pest-free place of production	
pest-free place of production and appropriate buffer zone	<b>Pest-free place of production and appropriate buffer zone</b> with the addition of exclusion measures against the insect vectors (protected conditions)
pest-free area	<b>Pest-free area for TICV</b> <b>Pest free area for insect vectors</b> (TICV infections are always related to high populations of its vector)
<b>Prohibition</b>	no
<b>Internal measures</b>	
surveillance and/or eradication campaign	no