

## Mini data sheet on Cucurbit yellow vine disease bacterium

Added in 1998 - Deleted in 2002

**Reasons for deletion:**

Cucurbit yellow vine disease bacterium (later shown to be *Serratia marcescens*) 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 2002, it was therefore considered that sufficient alert has been given and the pest was deleted from the Alert List.

**Cucurbit yellow vine disease bacterium (a new phloem-limited bacterium)**

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| Why               | Yellow vine disease of cucurbits came to our attention because it has been reported as a new disease in USA since 1991, and a new phloem-limited bacterium is suspected.  |
| Where             | USA (Massachusetts, Oklahoma, Tennessee, Texas)   |
| On which plants   | Cucurbits (watermelon, melon, courgette, pumpkin).  |
| Damage            | Affected plants show leaf yellowing, phloem discoloration and collapse.   |
| Possible identity | Phloem-limited bacterium (closely related to the proteobacterium <i>Serratia marcescens</i> ).  |
| Pathway           | Cucurbit plants for planting (vegetables? seeds? soil?) from USA.   |
| Possible risks    | Cucurbits are important crops. Crop losses are observed in USA. Although full data on the identity of the pathogen is still lacking, phloem-limited bacteria can cause damaging diseases. Insect vectors are suspected but not identified.  |
| Source(s)         | Bost, S.C.; Mitchell, F.L.; Melcher, U.; Pair, S.D.; Fletcher, J.; Wayadande, A.; Bruton, B.D. (1999) Yellow vine of watermelon and pumpkin in Tennessee. <i>Plant Disease</i> , 83(6), p 587.<br>Bruton, B.D.; Fletcher, J.; Pair, S.D.; Shaw, M.; Sittertz-Bhatkar, H. (1998) Association of a phloem-limited bacterium with yellow vine disease in cucurbits. <i>Plant Disease</i> , 82(5), 512-520.<br>Wick, R.L.; Lerner, J.; Pair, S.D.; Fletcher, J.; Melcher, U.; Mitchell, F.; Bruton, B.D. (2001) Detection of cucurbit yellow vine disease in squash and pumpkin in Massachusetts. <i>Plant Disease</i> , 85(9), p 1031. |

EPPO RS 98/111, 98/192, 99/157, 2001/183

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