

Updated requirements for *Persea* spp nursery stock from all countries

As part of the consultative process in the amendment to the specific schedule for *Persea* spp (avocado) nursery stock from all countries, MAF Biosecurity New Zealand (MAFBNZ) have made the following changes available for public consultation:

- *Xylella fastidiosa* is added to the pest list
- The table 'Inspection, Testing and Treatment Requirements for *Persea*' has been updated and can be viewed below.

The current import requirements for *Persea* can be viewed in the specific schedule for '*Persea*' in the import health standard [155.02.06: Importation of Nursery Stock](#) (865 KB) (dated 10 November 2008).

Submissions on these changes should be forwarded to MAFBNZ by close of business on **20 February 2009**. MAF encourages respondents to forward comments electronically to the email address below. However, should you wish to forward submissions in writing, please send them to the address that follows:

Email: plantimports@maf.govt.nz

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NEW ZEALAND

Updated table: Inspection, Testing and Treatment Requirements for *Persea*

ORGANISM TYPES	MAF-ACCEPTED METHODS
Insects	Visual inspection AND approved insecticide
Mites	Visual inspection AND approved miticide [cuttings only] or binocular microscope inspection in PEQ [plants in tissue culture only]
Fungi	Growing season inspection in PEQ for disease symptom expression
Bacteria	
<i>Xylella fastidiosa</i>	PCR AND Growing season inspection in PEQ for disease symptom expression
Virus	

<i>Avocado cryptic virus 3</i>	Pest free area or Pest free place of production AND Growing season inspection in PEQ for disease symptom expression
Viroid	
<i>Avocado sunblotch viroid</i> [strains not in New Zealand]	Hybridisation or PAGE or PCR (Schnell <i>et al.</i> 1997) (two sets).
<i>Potato spindle tuber viroid</i>	Pest free area or Pest free place of production AND Growing season inspection in PEQ for disease symptom expression
Disease of unknown aetiology	
Avocado black streak	Pest free area or Pest free place of production AND Growing season inspection in PEQ for disease symptom expression

References

Host association - *Xylella fastidiosa*

Montero-Astúa, Saborío G, Chacón-Díaz C, Garita L, Villalobos W, Moreira L, Hartung JS, Rivera C (2008) First report of *Xylella fastidiosa* in avocado in Costa Rica. *Plant Disease* **92**(1), p 175.

Testing requirements - *Xylella fastidiosa*

Minsavage G.V., Thompson C.M., Hopkins D.L., Leite R.M.V.B.C., Stall R.E., 1994. Development of a PCR protocol for detection of *Xylella fastidiosa* in plant tissue. *Phytopathology* 84: 456-461.

Standard PM 7/24 (1) *Xylella fastidiosa*. Diagnostic protocols for regulated pests. European and Mediterranean Plant Protection Organisation. EPPO Bulletin 34. 2004. 187-192.

Updated requirements for *Vaccinium* spp nursery stock from all countries

As part of the consultative process in the amendment to the specific schedule for *Vaccinium* spp (blueberry) nursery stock from all countries, MAF Biosecurity New Zealand (MAFBNZ) have made the following changes available for public consultation:

- § *Xylella fastidiosa* (bacterial leaf scorch) is added to the pest list
- Blueberry fruit drop disease is added to the pest list
- The table 'Inspection, Testing and Treatment Requirements for *Vaccinium*' has been updated and can be viewed below.

The current import requirements for *Vaccinium* can be viewed in the specific schedule for '*Vaccinium*' in the import health standard [155.02.06: Importation of Nursery Stock](#) (dated 10 November 2008).

Submissions on these changes should be forwarded to MAFBNZ by close of business on **20 February 2009**. MAF encourages respondents to forward comments electronically to the email address below. However, should you wish to forward submissions in writing, please send them to the address that follows:

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Updated table: Inspection, Testing and Treatment Requirements for *Vaccinium*

ORGANISM TYPES	MAF-ACCEPTED METHODS
Insects	Visual inspection AND approved insecticide treatments
Mites	Visual inspection AND approved miticide treatments
Fungi	Growing season inspection in PEQ for disease symptom expression
Bacterium	
<i>Agrobacterium rubi</i>	Growing season inspection in PEQ for disease symptom expression
<i>Xylella fastidiosa</i>	PCR AND Growing season inspection in PEQ for disease symptom expression
Viruses	
<i>Blueberry leaf mottle virus</i>	Herbaceous indicators Cq and Nc AND ELISA or PCR AND TEM
<i>Blueberry red ringspot virus</i> (syn. <i>Cranberry ringspot virus</i>)	ELISA or PCR AND TEM
<i>Blueberry scorch virus</i>	Herbaceous indicator Cq AND ELISA or PCR AND TEM

<i>Blueberry shock virus</i>	Herbaceous indicators Nc and Nt AND ELISA or PCR AND TEM
<i>Blueberry shoestring virus</i>	ELISA or PCR AND TEM
<i>Peach rosette mosaic virus</i>	Herbaceous indicators Cq and Nt AND ELISA or PCR AND TEM
<i>Tobacco streak virus</i> [strains not in New Zealand]	Herbaceous indicators Cq and Nt AND ELISA or PCR AND TEM
<i>Tomato ringspot virus</i> [strains not in New Zealand]	Herbaceous indicators Cq and Nt AND ELISA or PCR AND TEM
Phytoplasmas	
Blueberry stunt phytoplasma	PCR using the universal phytoplasma fU5/rU3 primers (Lorenz <i>et al.</i> 1995) AND R16F2n/R16R2 primers (Gundersen <i>et al.</i> 1996)
Cranberry false blossom phytoplasma	PCR using the universal phytoplasma fU5/rU3 primers (Lorenz <i>et al.</i> 1995) AND R16F2n/R16R2 primers (Gundersen <i>et al.</i> 1996)
Vaccinium witches' broom phytoplasma	PCR using the universal phytoplasma fU5/rU3 primers (Lorenz <i>et al.</i> 1995) AND R16F2n/R16R2 primers (Gundersen <i>et al.</i> 1996)
Disease of unknown aetiology	
Blueberry fruit drop disease	Growing season inspection in PEQ for disease symptom expression
Blueberry mosaic disease	Growing season inspection in PEQ for disease symptom expression

References

Host association - *Xylella fastidiosa*

Chang C, Brannen P, Krewer G, Boland R, Donaldson R (2007) Bacterial leaf scorch of blueberry: a new disease caused by *Xylella fastidiosa*. *Phytopathology* **97**(7 suppl.), S20.

Brannen, P.M., G. Krewer, B. Boland, D. Horton, C.J. Chang. 2008. Bacterial Leaf Scorch of Blueberry. Pub C922. January 2008. University of Georgia Cooperative Extension.

Host association - Blueberry fruit drop disease

Martin, RR Sweeney, M. Tzanetakis, IE Wegener, L. A virus associated with blueberry fruit drop disease. [Journal article. Conference paper] Acta Horticulturae. International Society for Horticultural Science (ISHS), Leuven, Belgium: 2006. 715, 497-501.

Testing requirements - *Xylella fastidiosa*

Minsavage G.V., Thompson C.M., Hopkins D.L., Leite R.M.V.B.C., Stall R.E., 1994. Development of a PCR protocol for detection of *Xylella fastidiosa* in plant tissue. *Phytopathology* 84: 456-461.

EPPO Standard PM 7/24 (1) *Xylella fastidiosa*. Diagnostic protocols for regulated pests. European and Mediterranean Plant Protection Organisation. EPPO Bulletin 34. 2004. 187-192.