

## *Xylella fastidiosa*

### Implications for the nursery trade

Update 1 (01/16)

This guide is intended for growers, retailers, landscapers, garden designers, traders and anyone involved in **importing plants**, including from within the EU.

#### Key points

- There are known outbreaks of *Xylella fastidiosa* in Italy, France (Corsica and mainland France).
- An outbreak in the UK could lead to destruction of host plants within 100 m, and a 10 km movement ban for host plants for five years.
- The host list is likely to increase and includes trees, shrubs and herbaceous. Keep checking:  
[http://ec.europa.eu/food/plant/plant\\_health\\_biosecurity/legislation/emergency\\_measures/index\\_en.htm](http://ec.europa.eu/food/plant/plant_health_biosecurity/legislation/emergency_measures/index_en.htm)
- Landscapers, designers, retailers and anyone directly importing plants are now subject to the same stringent measures as growers and suppliers. A new plant passporting obligation for all 'professional operators' has been introduced, which requires that the movement of all 'host plants' across the EU must be accompanied by a plant passport.
- Anyone importing host plants from the EU needs to ensure they are accompanied by a plant passport confirming they have been sourced from disease free areas/sites.
- Be vigilant for signs of *X. fastidiosa* and report any sightings.



Leaf scorch of *Polygala myrtifolia* (Milkwort) infected by *Xylella fastidiosa* subsp. *multiplex* in Corsica.  
Photo: Bruno Legendre, Anses Plant Health Laboratory, Angers (FR)

## Risk – why does this disease matter?

This disease has the potential to have huge implications for the UK horticultural trade and it is therefore imperative that all parties are aware of the importance of following the measures put in place. These are initiated at EU level and are non-negotiable.

## What is *Xylella fastidiosa*?

*X. fastidiosa* is a bacterial pathogen, which has been found in parts of France and Italy, and could have a wide and damaging impact on nursery stock production, urban landscapes and countryside. It causes multiple symptoms including wilts, diebacks, stunts and leaf scorches. The EU is on high alert for this pathogen and we must be especially vigilant in the UK, as the pathogen has not been recorded here and a Pest Risk Analysis indicates it could establish here and have significant impacts. The pathogen has four known subspecies which affect different hosts and in North and South America widespread damage has been recorded, including affecting up to 35% of urban plantings in New Jersey, USA as well as causing severe damage to citrus, coffee and olive production. For further information please see additional reference sources at the end of this document. ***X. fastidiosa* subspecies *pauca* was first confirmed in Europe in 2013 causing devastation to olive plantations in southern Italy. Additionally in 2015 *X. fastidiosa* subsp. *multiplex*, has been identified affecting a number of host species in France and Corsica. The different hosts of these are shown in Annex 1, with new hosts recorded on a frequent basis.**



Leaf scorch and die back of *Olea* (olive) infected by *Xylella fastidiosa*. Photo: Camille Picard (DGAL-SDQPV, FR)

## What are the new controls?

Anyone importing host plants from the EU needs to ensure that they are accompanied by a valid plant passport confirming they have been sourced from disease free areas/sites.

The already extensive list of host species is likely to grow and includes species of oak, maple, hebe, lavender, rosemary and many other popular plants for gardens, landscapes and forestry. The host list will be updated frequently and is available at [http://ec.europa.eu/food/plant/plant\\_health\\_biosecurity/legislation/emergency\\_measures/index\\_en.htm](http://ec.europa.eu/food/plant/plant_health_biosecurity/legislation/emergency_measures/index_en.htm).

A new plant passporting obligation for all 'professional operators' has been introduced, requiring that the movements of all 'host plants' across the EU must be accompanied by a plant passport – see **Annex 1** for hosts as of January 2016. In practice this means that landscapers, designers, retailers and anyone directly importing plants are now subject to the same stringent measures as growers and suppliers. The plant passport can be used to underpin and help businesses record audits and include in assurance schemes plants they have received or traded, as this in turn can help investigations into potential finds of the disease or limit any actions taken at premises. Find out more about plant passports here: <https://www.gov.uk/guidance/plant-health-controls>

For nurseries already authorised to plant passport the UK Plant Health Services are not planning to carry out additional growing season inspections for *X. fastidiosa* prior to early summer 2016, unless the presence of the disease is suspected. Passporters however will be expected make contact with their local Plant Health Inspector if they trade in a *Xylella* host not previously covered so their authorisation to passport can be extended. Any nursery not previously authorised to trade in material covered by the plant passporting scheme should also contact their local Plant Health inspector to find out what may be required. Contact details are at the end of this guide.



Leaf scorch caused by *Xylella fastidiosa* on a *Coffea* originating from Ecuador (Interception) Courtesy: Bruno Legendre. Anses, Plant Health Laboratory, Angers (FR)

Although the EU measures permit the movement of host plants from demarcated areas if they meet certain stringent conditions, in practice no nurseries have been authorised for plant passporting in such areas. If this were to change, there is a legal requirement to notify Plant Health Services of any 'specified plants' (as defined in the EU legislation) received from a demarcated area, to facilitate tracing and targeted checks. Details of currently demarcated areas are available on the European Commission website at: [http://ec.europa.eu/food/plant/plant\\_health\\_biosecurity/legislation/emergency\\_measures/index\\_en.htm](http://ec.europa.eu/food/plant/plant_health_biosecurity/legislation/emergency_measures/index_en.htm)

Each EU member state must develop a contingency plan for dealing with *X. fastidiosa* should it be found.

### What happens if the disease is found?

There are two ways the disease will be dealt with, depending on whether it is intercepted or an outbreak.

**An interception** occurs when the disease is found on a plant but it is unlikely to have spread to other plants. To limit the risk of spread the Plant Health Service would require destruction of the host plants and is likely to destroy any potential hosts in close proximity, which will be dependent upon local factors described below. Further survey work will be carried out to ensure that there has been no spread.

Examples of factors that will affect the level of action taken include: the time of year; whether the plants are outdoors or under protection; are in active growth; symptomatic of *X. fastidiosa*; their origin; their species; there are known disease vectors present etc. Plant Health Service actions would be focused on eliminating the risk of spread.

**An outbreak** occurs when the disease is found on a plant and has spread. An outbreak is compounded when some or all of the following may have occurred e.g. origin of plants is unknown, stock mixed on site with other host material from other sources, infection having spread on site by being confirmed in different batches from different sources, presence of disease vectors and the disease etc. **If an outbreak** is declared, the following measures would be implemented:

- 1) Destruction of all *Xylella* known 'hosts' plus other plants which may be infected, **within 100m** of the plants with confirmed infection.
- 2) Statutory movement restrictions within a **buffer of radius 10km for five years minimum**. The 'host plants' listed in the emergency decision could only be moved within or outside of the demarcated area (which is the infected area, plus a buffer zone of 10km), if they have been grown under physical protection and provided certain other requirements have been met.
- 3) Insecticidal application in the demarcated area is obligatory in order to control vectors which spread *X. fastidiosa*.

- 4) Once all infected plants and suspect plants have been destroyed, the UK Plant Health Service will carry out latent testing of potential host plants. This means testing of plants which do not show symptoms, to see if they are infected.



*Xylella fastidiosa* symptoms on *Prunus* (cherry). Courtesy: Donato Boscia. CNR - Institute for sustainable plant protection, UOS, Bari (IT) Laboratory, Angers (FR)

**Period of restrictions:** the requirements for the demarcated area of the outbreak will remain in force for a minimum of **5 years** after official surveys have confirmed that *X. fastidiosa* is not present.

### How the industry can help with good practice

- Ensure that plant passports arriving with plants are correct and keep the plant passport to aid trace back if necessary. This may also support assurance schemes your business may be in.
- Source from known suppliers or visit suppliers to view their processes, procedures, bio-security arrangements and the plants they grow.
- Make sure that imported plants both originate from and are sourced from disease free areas. Details on infected areas at [http://ec.europa.eu/food/plant/plant\\_health\\_biosecurity/legislation/emergency\\_measures/index\\_en.htm](http://ec.europa.eu/food/plant/plant_health_biosecurity/legislation/emergency_measures/index_en.htm).
- Isolate or quarantine new batches of plants and monitor them during the growing season for signs of the disease – whilst not a legal requirement it is good practice to place ‘imported’ hosts of *Xylella* in a quarantine area – ideally a good distance away from other host plants and if possible place under physical protection. If any outbreak is confirmed all ‘host’ material within 100 m will need to be destroyed.
- Label and keep records of the identity of all received batches of plants including: where the plants came from and when.
- Maintain records of pesticide treatments.

- Destroy old or unusable plants.
- Comply with the UK national requirements to notify the UK Plant health Service about certain species of plants under the 'EU Plant and Tree notification scheme'.

## **Annex 1 host plants found to be susceptible to *X. fastidiosa* in the Union territory and must be plant passported:**

### ***Xylella fastidiosa* subsp. *multiplex***

*Acer pseudoplatanus*  
*Artemisia arborescens*  
*Asparagus acutifolius*  
*Cistus monspeliensis*  
*Cistus salviifolius*  
*Coronilla valentina*  
*Cytisus racemosus*  
*Genista ephedroides*  
*Hebe* species  
*Lavandula angustifolia*  
*Lavandula dentata*  
*Lavandula stoechas*  
*Myrtus communis*  
*Pelargonium graveolens*  
*Polygala myrtifolia*  
*Prunus cerasifera*  
*Quercus suber*  
*Rosa floribunda* (syn. *Rosa multiflora*)  
*Rosmarinus officinalis*  
*Spartium junceum*

### ***Xylella fastidiosa* subsp. *pauca***

*Acacia saligna*  
*Asparagus acutifolius*  
*Catharanthus* species  
*Cistus creticus*  
*Dodonaea viscosa*  
*Euphorbia terracina*  
*Grevillea juniperina*  
*Laurus nobilis*  
*Lavandula angustifolia*  
*Myoporum insulare*  
*Myrtus communis*  
*Nerium oleander*  
*Olea europaea*  
*Polygala myrtifolia*  
*Prunus avium*  
*Prunus dulcis*  
*Rhamnus alaternus*  
*Rosmarinus officinalis*  
*Spartium junceum*  
*Vinca* species  
*Westringia fruticosa*  
*Westringia glabra*

### **Host plants found to be susceptible to several subspecies of *Xylella fastidiosa***

*Coffea* species

## For more information:

Defra *Xylella fastidiosa* factsheet:

[https://secure.fera.defra.gov.uk/phiw/riskRegister/plant-health/documents/notifiable\\_diseases/xylellaFastidiosa2015.pdf](https://secure.fera.defra.gov.uk/phiw/riskRegister/plant-health/documents/notifiable_diseases/xylellaFastidiosa2015.pdf)

Other sources of information include:

European Commission:

[http://ec.europa.eu/food/plant/plant\\_health\\_biosecurity/legislation/emergency\\_measures/index\\_en.htm](http://ec.europa.eu/food/plant/plant_health_biosecurity/legislation/emergency_measures/index_en.htm) and

[http://ec.europa.eu/food/plant/plant\\_health\\_biosecurity/legislation/emergency\\_measures/xylella-fastidiosa/index\\_en.htm](http://ec.europa.eu/food/plant/plant_health_biosecurity/legislation/emergency_measures/xylella-fastidiosa/index_en.htm)

EPPO: [http://www.eppo.int/QUARANTINE/special\\_topics/Xylella\\_fastidiosa/Xylella\\_fastidiosa.htm](http://www.eppo.int/QUARANTINE/special_topics/Xylella_fastidiosa/Xylella_fastidiosa.htm)

Pictures of hosts with symptoms at EPPO <https://gd.eppo.int/taxon/XYLEFA/photos>

Forestry Commission: <http://www.forestry.gov.uk/forestry/bee-h-a3vemx>

## Advisory information:

### Suspected outbreaks of *Xylella fastidiosa*

Suspected outbreaks of *X. fastidiosa* or any other non-native plant pest must be reported to the relevant Plant Health Service authority:

For England and Wales, contact your local APHA Plant Health and Seeds Inspector or the PHSI Headquarters, Sand Hutton, York. Tel: 01904 405138

Email: [planthealth.info@apha.gsi.gov.uk](mailto:planthealth.info@apha.gsi.gov.uk)

For Scotland, contact the Scottish Government's Horticulture and Marketing Unit. Tel: 0131 244 8935 Email: [hort.marketing@gov.scot](mailto:hort.marketing@gov.scot)

For Northern Ireland, contact the DARD Plant Health Inspection Branch:

Tel: 0300 200 7847 Email: [planthealth@dardni.gov.uk](mailto:planthealth@dardni.gov.uk)

The Forestry Commission can also be contacted, using the tree alert form:

<http://www.forestry.gov.uk/treealert>

For additional information on UK Plant Health please see:

<https://secure.fera.defra.gov.uk/phiw/riskRegister/>

<https://www.gov.uk/plant-health-controls>

<https://www.dardni.gov.uk/>

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