

Title: PHC2018_06 - Risk mapping of the likelihood and impact of a *Xylella fastidiosa* outbreak in Scotland

Background: *Xylella fastidiosa* is a bacterial plant pathogen that can cause disease in a broad range of hosts. Disease symptoms include leaf scorch, wilting of foliage, dieback and plant death. *Xylella fastidiosa* was first detected in Europe in 2013 in Puglia in Italy and was identified as subspecies pauca which has gone on to devastate olive plantations in this region. There are currently major *Xylella* outbreaks in Southern France, including Corsica, Italy, mainland Spain and the Balearic Islands. Although *Xylella* has so far not been detected in Scotland, an outbreak would have serious impacts on any host plant-related activities/businesses and the wider environment. An essential aspect of ensuring Scotland's preparedness for the possible arrival of *Xylella* is to prepare a risk map for the likelihood of the arrival of *Xylella* together with the consequences for key elements of the Scottish economy (directly and indirectly impacted) in the event of an outbreak. Data relevant to the risk mapping for Scotland would include location of sites involved in plant imports, volume of plants imported, impact on business trading in plants if an outbreak is detected and the wider environmental impact.

Impact: This project will contribute to Scottish Government's contingency and preparedness measures for the possible arrival of *Xylella fastidiosa* by mapping the risk of likelihood and impact of an outbreak.

Objectives and research required for this call:

- Scoping, liaison and acquisition of relevant and available data for Scotland
- Development of a likelihood map
- Development of an impact map
- Combination of likelihood map and impact map to provide a relative risk map
- Interpretation of patterns and consideration of possible outbreak scenarios
- Adaption of contingency and surveillance plans considering analysis

Outputs required:

The outputs of the study will include:

- A report that covers the information as set out in the objectives
- A stand-alone 1-2 page policy summary (1 page)
- A risk map of the likelihood and impact of an outbreak *Xylella fastidiosa* outbreak in Scotland
- Evidence of stakeholder engagement

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Indicative key dates:

- Deadline for notes of interest: 27th September 2018
- Project start: 1st November 2018
- Overview of plans and project start-up meeting with PHC Directorate: by end November 2018
- Completed discussion paper and summary: 28th February 2019
- Meeting with Scottish stakeholders: by 31st March 2019

Milestones to be confirmed by bidder.

Date all work needs to be completed by: 28th February 2019

Project type: Call down

Maximum funding available (including overheads and VAT, where applicable): Indicative costs
£25,000

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