

UK pest status report for *Xiphinema californicum*

Field	Detail
Pest species name	<i>Xiphinema californicum</i> Lamberti and Bleve-Zacheo, 1979
Pest taxon (order, family)	Dorylaimida: Longidoridae
Synonyms	None
Pest common name	Dagger Nematode Member of the <i>Xiphinema americanum</i> – group (<i>Xiphinema americanum sensu lato</i>) Note: Known vector of Cherry rasp leaf virus (CRLV), Tobacco ringspot virus (TRSV) and Tomato ringspot virus (ToRSV)
Regulatory status	Great Britain: Regulated quarantine pest Northern Ireland: Regulated quarantine pest
Pest status in UK (as per ISPM 8¹)	Absent: pest not recorded.
Global distribution	<u>Asia</u> : Pakistan (Following EFSA review; no additional reports from Asia, an unusual association with wheat in addition to no other reports of wheat as a host plant, there is some uncertainty regarding this report; the EPPO global database does not consider the Pakistan report to be valid (EFSA, 2017)). <u>North America</u> : United States (California, Hawaii, Oregon, Washington), Mexico. <u>South America</u> : Brazil (Goias, Rio de Janeiro, Sao Paulo), Chile, Peru.

Main hosts	<p><i>Abies concolor</i> var. <i>concolor</i>, <i>Bupthalmum</i> spp., <i>Calocedrus</i> spp., <i>Canna</i> spp., <i>Citrus</i> spp., <i>Cocos nucifera</i>, <i>Cupressus macnabiana</i>, <i>Cupressus macrocarpa</i>, <i>Ipomoea batatas</i>, <i>Juniperus osteosperma</i>, <i>Medicago sativa</i>, <i>Pelargonium</i> spp., <i>Persea americana</i>, <i>Pinus attenuate</i>, <i>Pinus coulteri</i>, <i>Pinus flexilis</i>, <i>Pinus jeffreyi</i>, <i>Pinus monophyla</i>, <i>Pinus monticola</i>, <i>Pinus ponderosa</i>, <i>Pinus radiata</i>, <i>Pinus sabiniana</i>, <i>Populus tremuloides</i>, <i>Pseudotsuga menziesii</i> var. <i>menziesii</i>, <i>Quercus kelloggii</i>, <i>Rosa</i> spp. <i>Salix lutea</i>, <i>Sequoia sempervirens</i>, <i>Sorghum</i> spp., <i>Vitis</i> spp., <i>Zea mays</i>.</p> <p>Note: Wide host range, typically prefers woody hosts, likely to be polyphagous.</p>
Likelihood for establishment in UK	<p>Very likely but only in protected cultivation.</p>
Website(s)	<p>https://planthealthportal.defra.gov.uk/pests-and-diseases/uk-plant-health-risk-register/viewPestRisks.cfm?csref=10799</p> <p>https://gd.eppo.int/taxon/XIPHCA/categorization</p> <p>https://gd.eppo.int/taxon/XIPHCA/distribution</p> <p>https://pra.eppo.int/pra/289bc6cd-db1d-4d1a-957d-0acd487e0aff</p> <p>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7009435/</p> <p>http://intranet.fera.gsi.gov.uk/applicat/ph/warehouse/organism/info.cfm?csref=10799&pageType=INFO</p> <p>https://www.metoffice.gov.uk/weather/learn-about/how-forecasts-are-made/observations/weather-stations</p> <p>https://www.efsa.europa.eu/en/efsajournal/pub/5111</p> <p>https://globalgardenlab.com/2018/06/06/plant-hardiness-zones-usa-and-uk/</p>

References

Coomans, A., Huys, R., Heyns, J. and Luc, M., 2001. Character Analysis, Phylogeny and Biogeography of the Genus *Xiphinema* Cobb, 1913 (Nematoda: Longidoridae). *Ann. Sc. Zool. Mus. Afr. Centr. Tervuren, Belgique*, 239.

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OEPP/EPPO (2017), PM 7/95 (2): *Xiphinema americanum sensu lato*. EPPO Bull, 47: 198 – 210. DOI:10.1111/epp.12382

¹ International Standard for Phytosanitary Measures (ISPM) 8 Determination of pest status in an area:
<https://www.fao.org/3/x2968e/x2968e.pdf>