

UK pest status report for *Xiphinema index*

Field	Detail
Pest species name	<i>Xiphinema index</i> (Thorne & Allen, 1950)
Pest taxon (order, family)	Dorylaimida: Longidoridae
Synonyms	<i>Diversiphinema index</i> Thorne & Allen (Cohn & Sher, 1972)
Pest common name	Dagger nematode Fan-leaf virus nematode Californian dagger nematode
Regulatory status	Great Britain: Provisional quarantine pest Northern Ireland: Regulated non quarantine pest
Pest status in UK (as per ISPM 8¹)	Absent: pest not recorded
Global distribution	<p><u>Africa</u>: Algeria, South Africa, Tunisia.</p> <p><u>Asia</u>: Armenia, Azerbaijan, India (Haryana, Tamil Nadu, Uttar Pradesh, West Bengal), Iran, Iraq, Israel, Lebanon, Pakistan, Republic of Georgia, Tajikistan, Turkey, Turkmenistan, Uzbekistan.</p> <p><u>Europe</u>: Albania, Armenia, Austria, Azerbaijan, Bulgaria, Croatia, Cyprus, Czech Republic, Federal Republic of Yugoslavia, France, Germany, Greece (Crete, Kriti), Georgia, Hungary, Italy (Sardinia, Sicily), Malta, Moldova, Poland, Portugal, Romania, Russia (Southern Russia), Siberia, Serbia and Montenegro, Slovakia, Slovenia, Spain (Balearic Islands, Canary Islands), Switzerland, Turkey, Ukraine.</p> <p><u>North America</u>: United States (California).</p> <p><u>Oceania</u>: Australia (Victoria), New Zealand.</p> <p><u>South America</u>: Argentina, Brazil (Ceara), Chile, Peru.</p>

Main hosts	<p><i>Betula</i> spp., <i>Chenopodium</i> spp., <i>Cupressus</i> spp., <i>Ficus carica</i> (common fig), <i>Fagus sylvatica</i>, <i>Citrus</i> spp., <i>Gomphrena globosa</i>, <i>Morus</i> spp., <i>Olea</i> spp., <i>Nicotiana rustica</i>, <i>Pinus</i> spp., <i>Pinus halepensis</i>, <i>Pitacia vera</i>, <i>Populus</i> spp., <i>Rosa</i> spp., <i>Solanum nigrum</i>, <i>Thuja</i> spp., <i>Urtica urens</i>, <i>Vitis arizonica</i> (canyon grape (USA)), <i>Vitis candicans</i> (Mustang grape), <i>Vitis</i> spp. <i>Vitis vinifera</i> (grapevine), <i>Vitis vinifera</i> X <i>Muscadinia rotundifolia</i>, <i>Vitis rupestris</i> , <i>Vitis vinifera</i> ssp. <i>Vinifera</i>.</p> <p>Note: wide host range, likely to be polyphagous.</p>
Likelihood for establishment in UK	<p>Very likely polyphagous nematode, with a preferred host of <i>Vitis</i>. It is distributed in many parts of the world, including Europe.</p>
Website(s)	<p>https://gd.eppo.int/taxon/XIPHIN/categorization</p> <p>https://planthealthportal.defra.gov.uk/pests-and-diseases/uk-plant-health-risk-register/viewPestRisks.cfm?cslref=22309</p> <p>https://www.cabidigitallibrary.org/doi/full/10.1079/cabicompendium.57032</p> <p>https://www.metoffice.gov.uk/weather/learn-about/how-forecasts-are-made/observations/weather-stations</p>

References

Ciancio, A. and Mukerji, K.G. eds., 2009. *Integrated management of fruit crops and forest nematodes* (Vol. 4). Springer Science & Business Media.

Cohn E, Sher SA, 1972. A contribution to the taxonomy of the genus *Xiphinema*. *Journal of Nematology*, 4:36-65.

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.

Silva G, Lecourt J, Clover GRG, Seal SE, 2017. First report of *Grapevine fanleaf virus* infecting grapevine in the United Kingdom. *New Disease Reports* 36, 9. [<http://dx.doi.org/10.5197/j.2044-0588.2017.036.009>]

Thorne G, Allen MW, 1950. *Paratylenchus hamatus* n. sp. and *Xiphinema index* n. sp., two nematodes associated with fig roots, with a note on *Paratylenchus anceps* Cobb. *Proceedings of the Helminthological Society of Washington*, 17(1), 27-35.

¹ International Standard for Phytosanitary Measures (ISPM) 8 Determination of pest status in an area