

## UK pest status report for *Aphelenchoides besseyi*

Field	Detail
<b>Pest species name</b>	<i>Aphelenchoides besseyi</i> Christie, 1942
<b>Pest taxon (order, family)</b>	Aphelenchida: Aphelenchoididae
<b>Synonyms</b>	<i>Asteroaphelenchoides besseyi</i> (Christie 1942), Drozdovski, 1967  Note: Subbotin <i>et al.</i> (2020) have reviewed the taxonomy for <i>A. besseyi</i> and have reinstated <i>A. oryzae</i> as a valid species and erected a new species <i>A. pseudobesseyi</i> .
<b>Pest common name</b>	Rice leaf nematode Strawberry crimp disease nematode White tip nematode White tip nematode of rice Summer crimp nematode
<b>Regulatory status</b>	Great Britain: Regulated quarantine pest.  Northern Ireland: Regulated non quarantine pest.
<b>Pest status in UK (as per ISPM 8<sup>1</sup>)</b>	Absent: pest not recorded
<b>Global distribution</b>	<b>Africa:</b> Benin, Burkina Faso, Cameroon, Central African Republic, Chad, Comoros, Côte d'Ivoire, Democratic Republic of the Congo, Egypt, Gabon, Gambia, Ghana, Guinea, Kenya, Madagascar, Malawi, Mali, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, South Africa, Tanzania, Togo, Uganda, Zambia, Zimbabwe.  <b>Asia:</b> Afghanistan, Azerbaijan, Bangladesh, Cambodia, China (Anhui, Fujian, Guangdong, Guangxi, Guizhou, Hebei, Henan, Hubei, Jiangsu, Jiangxi, Jilin, Liaoning, Ningxia, Shandong, Shanxi, Sichuan, Xinjiang, Zhejiang), Georgia, India (Andaman and Nicobar Islands, Assam, Bihar, Delhi, Gujarat, Haryana, Jammu and Kashmir, Jharkhand, Karnataka,

	<p>Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Punjab, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal), Indonesia, Iran, Japan (Honshu, Kyushu, Shikoku), Kyrgyzstan, Laos, Malaysia (Peninsular Malaysia), Myanmar, Nepal, North Korea, Pakistan, Philippines, Singapore, South Korea, Sri Lanka, Taiwan, Thailand, Turkey, Uzbekistan, Vietnam.</p> <p><b>Europe:</b> Bulgaria, Hungary, Italy, Netherlands, Romania, Russia (Southern Russia), Ukraine.</p> <p><b>North America:</b> Cuba, Dominica, Dominican Republic, El Salvador, Guadeloupe, Mexico, Panama, United States (Arkansas, California, Florida, Hawaii, Louisiana, Texas).</p> <p><b>Oceania:</b> Australia (Northern Territory, Queensland), Cook Islands, Fiji, Papua New Guinea.</p> <p><b>South America:</b> Brazil (Alagoas, Bahia, Mato Grosso, Minas Gerais, Parana, Rio Grande do Norte, Rio Grande do Sul, Santa Catarina, Sao Paulo, Sergipe), Ecuador.</p>
<p><b>Main hosts</b></p>	<p><i>Agave amica</i>, <i>Allium cepa</i>, <i>Asplenium nidus</i>, <i>Begonia</i> spp., <i>Boehmeria nivea</i>, <i>Capsicum annuum</i>, <i>Chrysanthemum indicum</i>, <i>Chrysanthemum x morifolium</i>, <i>Colocasia esculenta</i>, <i>Cyperus iria</i>, <i>C. esculentus</i>, <i>Dahlia</i> spp., <i>Dendranthema</i> spp., <i>Digitalis sanguinalis</i>, <i>Dioscorea cayenensis</i>, <i>Dioscorea trifida</i>, <i>Discorea</i> spp., <i>Ficus elastica</i>, <i>Fragaria x ananassa</i>, <i>Fragaria</i> spp., <i>Hibiscus</i> spp., <i>Hydrangea</i> spp., <i>Glycine max</i>, <i>Gossypium hirsutum</i>, <i>Ipomoea batatas</i>, <i>Oryza breviligulata</i>, <i>O. glaberrima</i>, <i>O. sativa</i>, <i>Orchidaceae</i> (family), <i>Panicum miliaceum</i>, <i>Panicum</i> spp., <i>Pennisetum</i> spp., <i>Polianthes</i> spp., <i>P. tuberosa</i>, <i>Phaseolus vulgaris</i>, <i>Setaria italica</i>, <i>Setaria</i> spp., <i>S. viridis</i>, <i>Sporobolus junceus</i>, <i>Zea mays</i>.</p> <p>Note: Subbotin <i>et al.</i> (2020) have reviewed the taxonomy for <i>A. besseyi</i> and have reinstated <i>A. oryzae</i> as a valid species and erected a new species <i>A. pseudobesseyi</i>. This study has genetically linked these species with differing host ranges, which may impact the host list above.</p>
<p><b>Likelihood for establishment in UK</b></p>	<p>Likely, especially under protection.</p>
<p><b>Website(s)</b></p>	<p><a href="http://intranet.fera.gsi.gov.uk/applicat/ph/warehouse/organism/info.cfm?csIref=19503&amp;pageType=INFO">http://intranet.fera.gsi.gov.uk/applicat/ph/warehouse/organism/info.cfm?csIref=19503&amp;pageType=INFO</a></p>

<https://planthealthportal.defra.gov.uk/pests-and-diseases/uk-plant-health-risk-register/viewPestRisks.cfm?cslref=19503>

<https://www.cabidigitallibrary.org/doi/10.1079/cabicompendium.6378>

<https://gd.eppo.int/taxon/APLOBE>

<https://gd.eppo.int/taxon/APLOBE/distribution>

<https://gd.eppo.int/taxon/APLOBE/categorization>

<https://gd.eppo.int/taxon/APLOBE/datasheet>

[https://brill.com/view/journals/nemy/23/4/article-p381\\_3.xml](https://brill.com/view/journals/nemy/23/4/article-p381_3.xml)

## References

Subbotin, S.A., Oliveira, C.J., Álvarez-Ortega, S., Desaegeer, J.A., Crow, W., Overstreet, C., Leahy, R., Vau, S. and Inserra, R.N., 2020. The taxonomic status of *Aphelenchoides besseyi* Christie, 1942 (Nematoda: Aphelenchoididae) populations from the southeastern USA, and description of *Aphelenchoides pseudobesseyi* sp. n. *Nematology*, 23(4), pp.381-413.

<sup>1</sup> [International Standard for Phytosanitary Measures \(ISPM\) 8 Determination of pest status in an area](#)