

## UK pest status report for *Globodera rostochiensis* (non-European and European populations)

Field	Detail
<b>Pest species name</b>	<i>Globodera rostochiensis</i> (Wollenweber, 1923) Skarbilovich, 1959
<b>Pest taxon (order, family)</b>	Tylenchida: Heteroderidae
<b>Synonyms</b>	<p><i>Heterodera rostochiensis</i>, Wollenweber, 1923  <i>H. schachtii solani</i> Zimmerman, 1927  <i>H. schachtii rostochiensis</i> (Wollenweber, 1923) Kemner, 1929</p> <p>Note: Following EPPO diagnostic protocol PM 7/40 (5). Subbotin <i>et al.</i>, 2010 consider the following as synonyms:  <i>H. schachtii rostochiensis</i> Wollenweber, 1923  <i>H. rostochiensis</i> Wollenweber, 1923  <i>H. (Globodera) rostochiensis</i> (Wollenweber, 1923) Skarbilovich, 1959  <i>H. schachtii solani</i> Zimmerman, 1927  <i>H. solani</i> Zimmerman, 1927  <i>H. pseudorostochiensis</i> Kirjanova, 1963  <i>H. pseudorostochiensis</i> (Kirjanova, 1963) Mulvey &amp; Stone, 1976  <i>Globodera arenaria</i> Chizhov, Udalova &amp; Nasonova, 2008 <b>syn. n.</b></p>
<b>Pest common name</b>	<p>Golden potato cyst nematode  Cyst nematode  Golden nematode  Potato cyst nematode (PCN)  Root nematode  Yellow potato cyst nematode  Golden eelworm  Golden nematode eelworm  Golden nematode of potato  Potato golden nematode  Potato root eelworm</p>
<b>Regulatory status</b>	<p>Great Britain: Regulated quarantine pest (non-European populations) and Regulated quarantine pest with limited distribution (European populations).</p> <p>Northern Ireland: Regulated quarantine pest known to occur (do not differentiate between European and non-European populations)</p>

<b>Pest status in UK (as per ISPM 8<sup>1</sup>)</b>	<p>Absent: pest not recorded (non-European populations only)</p> <p>Present: not widely distributed and under official control (European populations)</p>
<b>Global distribution</b>	<p><b>Africa:</b> Algeria, Egypt, Kenya, Libya, Rwanda, South Africa, Tunisia, Uganda,</p> <p><b>Asia:</b> Armenia, China, Georgia, India (Himachal Pradesh, Jammu and Kashmir, Tamil Nadu, Uttarakhand), Indonesia (Java, Sulawesi, Sumatra), Iran, Japan (Hokkaido, Kyushu), Kazakhstan, Kyrgyzstan, Lebanon, Oman, Pakistan, Philippines, Russia, Sri Lanka, Tajikistan.</p> <p><b>Europe:</b> Albania, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal (inc. Azores and Madeira), Romania, Russia, Serbia, Slovakia, Slovenia, Spain (including Canary Islands), Sweden, Switzerland, Türkiye, Ukraine, UK</p> <p><b>North America:</b> Canada (Alberta, British Columbia, Newfoundland and Labrador, Quebec), Mexico, Panama, United States (Delaware, New York).</p> <p><b>Oceania:</b> Australia (Victoria, Western Australia), New Zealand, Norfolk Island.</p> <p><b>South America:</b> Bolivia, Chile, Columbia, Ecuador, Falkland Islands, Peru, Venezuela.</p>
<b>Main hosts</b>	<p><i>Allium cepa</i>, <i>Allium cepa</i> var. <i>aggregatum</i>, <i>Allium porrum</i>, <i>Asparagus officinalis</i>, <i>Beta vulgaris</i>, <i>Brassica</i> spp., <i>Capsicum</i> spp., <i>Dahlia</i> spp., <i>Datura tatula</i>, <i>D. ferox</i>, <i>Fragaria</i> spp., <i>Gladiolus</i> spp., <i>Hyacinthus</i> spp., <i>Hyoscyamus niger</i>, <i>Iris</i> spp., <i>Lilium</i> spp., <i>Lycopersicon aureum</i>, <i>L. glandulosum</i>, <i>L. hirsutum</i>, <i>L. esculentum peruvianum</i>, <i>L. pimpinellifolium</i>, <i>L. pyriforme</i>, <i>L. racemigerum</i>, <i>Narcissus</i> spp., <i>Nicotiana acuminata</i>, <i>Physalis longifolia</i>, <i>P. philadelphica</i>, <i>Physochlaina orientalis</i>, <i>Salpiglossis</i> sp., <i>Saracha jaltomata</i>, <i>Solanum acaule</i>, <i>S. aethiopicum</i>, <i>S. ajanhuiri</i>, <i>S. ajuscoense</i>, <i>S. alandiae</i>, <i>S. alatum</i>, <i>S. americanum</i>, <i>S. anomalocalyx</i>, <i>S. antipoviczii</i>, <i>S. armatum</i>, <i>S. ascasabii</i>, <i>S. auriculatum</i>, <i>S. asperum</i>, <i>S. aviculare</i>, <i>S. berthaultii</i>, <i>S. blodgettii</i>, <i>S. boergeri</i>, <i>S. brevidens</i>, <i>S. brevimucronatum</i>, <i>S. bukasovii</i>, <i>S. bulbocastanum</i>, <i>S. calcense</i>, <i>S. calcense</i> × <i>S. cardenasii</i>, <i>S. caldasii</i>, <i>S. canasense</i>, <i>S. capsicibaccatum</i>, <i>S. capsicoides</i>, <i>S. cardiophyllum</i>, <i>S. carolinense</i>, <i>S. chacoense</i>, <i>S. chaucha</i>, <i>S. chenopodioides</i>, <i>S. chloropetalum</i>, <i>S. citrillifolium</i>, <i>S.</i></p>

	<p><i>coeruleiflorum</i>, <i>S. commersonii</i>, <i>S. curtilobum</i>, <i>S. curtipes</i>, <i>S. demissum</i>, <i>S. demissum</i> × <i>S. tuberosum</i>, <i>S. dulcamara</i>, <i>S. durum</i>, <i>S. elaeagnifolium</i>, <i>S. ehrenbergii</i>, <i>S. famatinae</i>, <i>S. fraxinifolium</i>, <i>S. fructo-tecto</i>, <i>S. garciae</i>, <i>S. gibberulosum</i>, <i>S. giganteum</i>, <i>S. gigantophyllum</i>, <i>S. gilo</i>, <i>S. glaucophyllum</i>, <i>S. goniocalyx</i>, <i>S. gourlayi</i>, <i>S. gracile</i>, <i>S. heterophyllum</i>, <i>S. heterodoxum</i>, <i>S. hirtum</i>, <i>S. hispidum</i>, <i>S. indicum</i>, <i>S. integrifolium</i>, <i>S. intrusum</i>, <i>S. jamesii</i>, <i>S. jujuyense</i>, <i>S. juzepczukii</i>, <i>S. kesselbrenneri</i>, <i>S. kurtzianum</i>, <i>S. lanciforme</i>, <i>S. lapazense</i>, <i>S. lechnoviczii</i>, <i>S. leptostygma</i>, <i>S. ligustrinum</i>, <i>S. longipedicellatum</i>, <i>S. luteum</i>, <i>S. lycopersicum</i>, <i>S. macolae</i>, <i>S. macrocarpon</i>, <i>S. maglia</i>, <i>S. malinchense</i>, <i>S. mamilliferum</i>, <i>S. marginatum</i>, <i>S. mauritianum</i>, <i>S. melongena</i>, <i>S. miniatum</i>, <i>S. mochiquense</i>, <i>S. multidissectum</i>, <i>S. muricatum</i>, <i>S. neocardenasii</i>, <i>S. nigrum</i>, <i>S. nitidibaccatum</i>, <i>S. ochroleucum</i>, <i>S. okadae</i>, <i>S. oplocense</i>, <i>S. ottonis</i>, <i>S. pampasense</i>, <i>S. parodii</i>, <i>S. penelli</i>, <i>S. photinocarpum</i>, <i>S. phureja</i>, <i>S. pinnatum</i>, <i>S. pinnatisectum</i>, <i>S. platense</i>, <i>S. platypterum</i>, <i>S. polyacanthos</i>, <i>S. polyadenium</i>, <i>S. prinophyllum</i>, <i>S. quitoense</i>, <i>S. radicans</i>, <i>S. raphanifolium</i>, <i>S. rostratum</i>, <i>S. rybinii</i>, <i>S. salamanii</i>, <i>S. saltense</i>, <i>S. sambucinum</i>, <i>S. sanctae-rosae</i>, <i>S. sarrachoides</i>, <i>S. scabrum</i>, <i>S. schenkii</i>, <i>S. schickii</i>, <i>S. semidemissum</i>, <i>S. simplicifolium</i>, <i>S. sinaicum</i>, <i>S. sisymbriifolium</i>, <i>S. sodomaeum</i>, <i>S. soukupii</i>, <i>S. sparsipilum</i>, <i>S. spegazzinii</i>, <i>Solanum</i> spp., <i>S. stenotomum</i>, <i>S. stoloniferum</i>, <i>S. suaveolens</i>, <i>S. subandigenum</i>, <i>S. sucrense</i>, <i>S. tarijense</i>, <i>S. tenuifilamentum</i>, <i>S. tlaxcalense</i>, <i>S. tomentosum</i>, <i>S. toralopanum</i>, <i>S. triflorum</i>, <i>S. tuberosum</i>, <i>S. tuberosum</i> ssp. <i>andigena</i>, <i>S. tuberosum</i> ssp. <i>tuberosum</i>, <i>S. tuberosum</i> 'Aquila', <i>S. tuberosum</i> 'Xenia N', <i>S. utile</i>, <i>S. vallis-mexicae</i>, <i>S. vernei</i>, <i>S. verrucosum</i>, <i>S. villosum</i>, <i>S. violaceimarmoratum</i>, <i>S. wittmackii</i>, <i>S. witttonense</i>, <i>S. xanti</i>, <i>S. yabari</i> and <i>S. zuccagnianum</i>, <i>Tulipa</i> spp.</p>
<p><b>Likelihood for establishment in UK</b></p>	<p>Very likely.</p> <p>European populations already established in the UK; non-European populations not expected to differ in biological requirements and thus are able to establish.</p>
<p><b>Website(s)</b></p>	<p><a href="http://intranet.fera.gsi.gov.uk/applicat/ph/warehouse/organism/info.cfm?csref=4276&amp;pageType=INFO">http://intranet.fera.gsi.gov.uk/applicat/ph/warehouse/organism/info.cfm?csref=4276&amp;pageType=INFO</a></p> <p><a href="https://planthealthportal.defra.gov.uk/pests-and-diseases/uk-plant-health-risk-register/viewPestRisks.cfm?csref=4276&amp;riskId=27239">https://planthealthportal.defra.gov.uk/pests-and-diseases/uk-plant-health-risk-register/viewPestRisks.cfm?csref=4276&amp;riskId=27239</a></p> <p><a href="https://www.cabidigitallibrary.org/doi/10.1079/cabicompndium.27034">https://www.cabidigitallibrary.org/doi/10.1079/cabicompndium.27034</a></p> <p><a href="https://gd.eppo.int/taxon/HETDRO">https://gd.eppo.int/taxon/HETDRO</a></p> <p><a href="https://gd.eppo.int/taxon/HETDRO/distribution">https://gd.eppo.int/taxon/HETDRO/distribution</a></p>

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<https://onlinelibrary.wiley.com/doi/10.1111/epp.12836?af=R>

## References

Subbotin, S.A., Mundo-Ocampo, M. and Baldwin, J.G., 2010. *Systematics of Cyst Nematodes (Nematoda: Heteroderinae), Part A*. Brill. pp 108.

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