

UK pest status report for *Nacobbus aberrans sensu lato*

Field	Detail
Pest species name	<i>Nacobbus aberrans</i> (Thorne, 1935) Thorne & Allen, 1944
Pest taxon (order, family)	Tylenchida: Pratylenchidae
Synonyms	<p><i>Anguillulina aberrans</i> Thorne, 1935 <i>Pratylenchus aberrans</i> (Thorne, 1935) Filipjev, 1936 <i>Nacobbus batatiformis</i> Thorne & Schuster, 1956 <i>N. serendipiticus</i> Franklin, 1959 <i>N. serendipiticus bolivianus</i> Lordello, Zamith & Boock, 1961</p> <p>*<i>N. bolivianus</i> Lordello, Zamith & Boock, 1961 *<i>N. celatus</i> Lax <i>et al.</i>, 2021</p> <p>Lax <i>et al.</i>, 2021 consider the synonyms noted above to be true synonyms of <i>N. aberrans sensu stricto</i>; <i>N. bolivianus</i> and <i>N. celatus</i> (*) are considered to be valid species within <i>N. aberrans sensu lato</i>, and the authors identify an additional <i>Nacobbus</i> sp. (unnamed) to be part of this species complex. This publication does not follow classical zoological criteria to formally describe a new nematode species and is not currently included in the EPPO global database.</p>
Pest common name	False root-knot nematode
Regulatory status	Great Britain: Regulated quarantine pest. Northern Ireland: Regulated quarantine pest.
Pest status in UK (as per ISPM 8¹)	Absent: pest eradicated Found once in UK under glass, eradicated (Franklin, 1959 & Graham, 1958).
Global distribution	<p>Africa: Egypt.</p> <p>Asia: Absent.</p> <p>Europe: Absent.</p>

	<p>North America: Mexico, United States (Arkansas, Colorado, Kansas, Montana, Nebraska, South Dakota, Utah, Wyoming).</p> <p>Oceania: N/A.</p> <p>South America: Argentina, Bolivia, Chile, Ecuador, Peru.</p>
Main hosts	<p><i>Amaranthus</i> spp., <i>Atriplex confertifolia</i>, <i>Beta vulgaris</i>, <i>Beta vulgaris</i> var. <i>saccharifera</i>, <i>Brassica napus</i> var. <i>napobrassica</i>, <i>Brassica nigra</i>, <i>Brassica oleracea</i> var. <i>gemmifera</i>, <i>Brassica oleracea</i>, <i>Brassica oleracea</i> var. <i>gongylodes</i>, <i>Brassica oleracea</i> var. <i>italica</i>, <i>Brassica oleracea</i> var. <i>viridis</i>, <i>Brassica rapa</i> subsp. <i>pekinensis</i>, <i>Cactaceae</i>, <i>Capsicum annuum</i>, <i>Capsicum</i> spp., <i>Chenopodium album</i>, <i>Chenopodium quinoa</i>, <i>Cucumis sativus</i>, <i>Cucurbitaceae</i>, <i>Cucurbita maxima</i>, <i>Daucus carota</i>, <i>Lactuca sativa</i>, <i>Mammillaria vivipara</i>, <i>Opuntia</i> spp., <i>Phaseolus vulgaris</i>, <i>Pisum sativum</i>, <i>Sisymbrium irio</i>, <i>Solanum lycopersicum</i>, <i>Solanum melongena</i>, <i>Solanum</i> spp., <i>Solanum tuberosum</i>, <i>Spergula arvensis</i>, <i>Spinacia oleracea</i>, <i>Tragopogon porrifolius</i>, <i>Tribulus terrestris</i></p>
Likelihood for establishment in UK	<p>Very likely.</p> <p>The UK has similar hardiness zones as some of the US states where <i>N. aberrans sensu lato</i> is known to occur.</p>
Website(s)	<p>https://gd.eppo.int/taxon/NACOBABA</p> <p>https://gd.eppo.int/taxon/NACOBABA/distribution</p> <p>https://gd.eppo.int/taxon/NACOBABA/hosts</p> <p>https://gd.eppo.int/taxon/NACOBABA/categorization</p> <p>https://www.cabidigitallibrary.org/doi/10.1079/cabicompdiem.35671</p> <p>http://intranet.fera.gsi.gov.uk/applicat/ph/warehouse/organism/info.cfm?csIref=21151&pageType=INFO</p> <p>https://gd.eppo.int/taxon/NACOBABA/distribution/GB</p> <p>https://www.gardenia.net/guide/hardiness-zones-in-the-united-kingdom</p>

References

Geraert, E., 2013. *The Pratylenchidae of the world: identification of the family Pratylenchidae (Nematoda: Tylenchida)*. Academia Press. Pp 73-75.

Franklin, M.T. (1959) *Nacobbus serendipiticus* n. sp., a root-galling nematode from tomatoes in England. *Nematologica* 4, 286-293.

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Lax, P., Gonzalez-Iltig, R.E., Rondan Duenas, J.C., Andrade, A.J., Gardenal, C.N., Franco, J. and Doucet, M.E., 2021. Decrypting species in the *Nacobbus aberrans* (Nematoda: Pratylenchidae) complex using integrative taxonomy. *Zoologica Scripta*, 50(5), pp.667-688.

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