

## UK pest status report for *Gymnosporangium globosum*

Field	Detail
<b>Pest species name</b>	<i>Gymnosporangium globosum</i> (Farl.) Farl.
<b>Pest taxon (order, family)</b>	<i>Pucciniales, Gymnosporangiaceae</i>
<b>Synonyms</b>	<i>Gymnosporangium fuscum</i> var. <i>globosum</i> Farl. <i>Aecidium globosum</i> (Farl.) Arthur
<b>Pest common name</b>	American hawthorn rust
<b>Regulatory status</b>	Great Britain: Regulated quarantine pest (as <i>Gymnosporangium</i> spp.) Northern Ireland: Regulated quarantine pest (as <i>Gymnosporangium</i> spp.)
<b>Pest status in UK (as per ISPM 8<sup>1</sup>)</b>	Absent: no pest records
<b>Global distribution</b>	<u>North America</u> : Canada, Mexico (localized), USA <u>Asia</u> : South Korea
<b>Main hosts</b>	<i>Crataegus</i> (Hawthorn) (wild host) <i>Malus domestica</i> <i>Amelanchier</i> <i>Juniperus</i> (especially <i>J. virginiana</i> ) (alternative host) <i>Pyrus</i> <i>Sorbus</i>
<b>Likelihood for establishment in UK</b>	Very likely, however, the impact of introduction and potential establishment would be limited. <i>G. globosum</i> is less damaging than <i>G. clavipes</i> and <i>G. juniperi-virginianae</i> to fruit crops, causing only minor leaf symptoms, and fruit infection is rare.

	While common in the US, the preferred alternative host <i>J. virginiana</i> is not widespread in the UK and Europe, making <i>G. globosum</i> lower risk to <i>Crataegus</i> and apple orchards in the UK if it establishes.
<b>Websites</b>	<p>CABI (2022) 'Gymnosporangium globosum (American hawthorn rust)' (2022) PlantwisePlus Knowledge Bank. CABI International. [Accessed 29/11/2022].  <a href="https://plantwiseplusknowledgebank.org/doi/10.1079/pwkb.species.26230">https://plantwiseplusknowledgebank.org/doi/10.1079/pwkb.species.26230</a></p> <p>CDFA (2019) California Pest Rating Proposal for <i>Gymnosporangium globosum</i> (Farl.) Farl. 1886: American hawthorn rust. California Department of Food and Agriculture. [Accessed 01/12/2022].  <a href="https://blogs.cdfa.ca.gov/Section3162/wp-content/uploads/2019/11/Gymnosporangium-globosum-PRP_ADA-Compliant.pdf">https://blogs.cdfa.ca.gov/Section3162/wp-content/uploads/2019/11/Gymnosporangium-globosum-PRP_ADA-Compliant.pdf</a></p> <p>Defra (2020) UK Risk Register Details for <i>Gymnosporangium globosum</i>  <a href="https://planthealthportal.defra.gov.uk/pests-and-diseases/uk-plant-health-risk-register/viewPestRisks.cfm?cslref=59">https://planthealthportal.defra.gov.uk/pests-and-diseases/uk-plant-health-risk-register/viewPestRisks.cfm?cslref=59</a></p> <p>EPPO (2022). Data Sheets on Quarantine Pests: <i>Gymnosporangium globosum</i>. EPPO Global Database. [Accessed on 29/11/2022].  <a href="https://gd.eppo.int/taxon/GYMNGL/documents">https://gd.eppo.int/taxon/GYMNGL/documents</a></p> <p>Species Fungorum [Accessed on 29/11/2022].  <a href="http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=518713">http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=518713</a></p>

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