

UK pest status report for *Liriomyza trifolii*

Field	Detail
Pest species name	<i>Liriomyza trifolii</i> (Burgess, 1880)
Pest taxon (order, family)	Insecta: Diptera: Agromyzidae
Synonyms	<i>Agromyza phaseolunata</i> Frost, 1943; <i>Liriomyza alliovora</i> Frick, 1955; <i>Oscinis trifolii</i> Burgess, 1880
Pest common name	American serpentine leaf miner; broad bean leaf miner; Californian leaf miner; celery leaf miner; Chrysanthemum leaf miner
Regulatory status	Great Britain: Regulated quarantine pest Northern Ireland: Protected zone quarantine pest
Pest status in UK (as per ISPM 8¹)	Absent: pest eradicated. The last outbreak under glass in the UK was in 1996, but this pest has been regularly intercepted since then in plants and produce entering the UK.
Global distribution	Africa: Benin, Cote d'Ivoire, Egypt, Ethiopia, Guinea, Kenya, Madagascar, Mauritius, Mayotte, Morocco, Nigeria, Reunion, Senegal, South Africa, Sudan, Tanzania, Tunisia, Zambia, Zimbabwe. North America: Canada, United States of America. South America & Caribbean: Argentina, Bahamas, Barbados, Bermuda, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, French Guiana, Guadeloupe, Guatemala, Guyana, Martinique, Mexico, Netherlands Antilles, Peru, Puerto Rico, St Kitts-Nevis, Trinidad and Tobago, Venezuela, Virgin Islands (British), Virgin Islands (US), Asia: China, India, Iran, Israel, Japan, Jordan, Korea (Republic), Lebanon, Oman, Philippines, Saudi Arabia, Taiwan, United Arab Emirates, Vietnam, Yemen, Europe: Austria, Belgium, Bosnia and Herzegovina, Croatia, Cyprus, Finland, France, Greece, Italy, Malta, Moldova, Netherlands, Portugal, Romania, Russia, Serbia, Spain (inc. Islas Canarias), Switzerland, Türkiye, Australasia & Oceania: Australia, American Samoa, Guam, Micronesia, Northern Mariana Islands, Samoa, Tonga.

Main hosts	Highly polyphagous, recorded from 29 families with a preference for members of the Asteraceae, but also Brassicaceae: cabbages (<i>Brassica</i> spp.); Caryophyllaceae: <i>Gypsophila</i> sp.; Chenopodiaceae: spinach (<i>Spinacia oleracea</i> L.), beetroot (<i>Beta vulgaris</i> L.); Cucurbitaceae: cucumbers (<i>Cucumis</i> sp.), pumpkins (<i>Cucurbita</i> spp.); Fabaceae: soybean (<i>Glycine max</i> L.), alfalfa (<i>Medicago sativa</i> L.), bean (<i>Phaseolus vulgaris</i> L.), pea (<i>Pisum sativum</i> L., <i>Pisum</i> spp.), <i>Trifolium</i> sp., faba bean (<i>Vicia faba</i> L.); Liliaceae: onion (<i>Allium cepa</i> L.), garlic (<i>Allium sativum</i> L.); and Solanaceae: peppers (<i>Capsicum annuum</i> L., <i>Capsicum frutescens</i> L.), <i>Petunia</i> spp., potato (<i>Solanum tuberosum</i> L.), and tomato (<i>Lycopersicon esculentum</i> Mill.).
Likelihood for establishment in UK	Highly likely, but only in protected cultivation i.e. under glass
Website(s)	https://keys.lucidcentral.org/keys/v3/leafminers/key/Polyphagous%20Agromyzid%20Leafminers/Media/Html/Liriomyza_trifolii.htm https://gd.eppo.int/taxon/LIRITR https://planthealthportal.defra.gov.uk/pests-and-diseases/uk-plant-health-risk-register/viewPestRisks.cfm?csIref=9382 https://cipotato.org/riskatlasforafrica/liriomyza-trifolii/

References

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