

## UK pest status report for *Anastrepha fraterculus*

Field	Detail
<b>Pest species name</b>	<i>Anastrepha fraterculus</i> (Wiedemann, 1830)  A complex of cryptic species, at least eight morphotypes have been described
<b>Pest taxon (order, family)</b>	Insecta: Diptera: Tephritidae: Trypetinae
<b>Synonyms</b>	<i>Anastrepha braziliensis</i> : Greene, 1934 <i>Anastrepha costarukmanii</i> : Capoor, 1954 <i>Anastrepha fraterculus</i> var. <i>soluta</i> : Bezzi, 1909 <i>Anastrepha lambayecae</i> : Korytkowski & Ojeda, 1968 <i>Anastrepha peruviana</i> : Townsend, 1913 <i>Anastrepha pseudofraterculus</i> : Capoor, 1955 <i>Anastrepha scholae</i> : Capoor, 1955 <i>Anthomyia frutalis</i> : Weyenburgh, 1974 <i>Dacus fraterculus</i> : Wiedemann, 1930 <i>Tephritis mellea</i> : Walker, 1837 <i>Trypeta unicolor</i> : Loew, 1862
<b>Pest common name</b>	South American fruit fly
<b>Regulatory status</b>	Great Britain: Not regulated  Northern Ireland: Regulated quarantine pest
<b>Pest status in UK (as per ISPM 8<sup>1</sup>)</b>	Absent: pest not recorded
<b>Global distribution</b>	<b>Central America:</b> Belize, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, Panama, Trinidad & Tobago  <b>North America:</b> Mexico, United States (Texas)

	<b>South America:</b> Argentina, Bolivia, Brazil, Colombia, Ecuador, French Guiana, Guyana, Paraguay, Peru, Suriname, Uruguay, Venezuela
<b>Main hosts</b>	<p>The complex as a whole is broadly polyphagous, but the preferred hosts are mainly Myrtaceae, particularly guava (<i>P. guajava</i>)</p> <p>Major hosts: <i>Acca sellowiana</i> (pineapple guava), <i>Annona cherimola</i>, <i>Campomanesia xanthocarpa</i>, <i>Chrysophyllum gonocarpum</i>, <i>Eriobotrya japonica</i> (loquat), <i>Eugenia brasiliensis</i> (brazil cherry), <i>Eugenia involucrata</i>, <i>Eugenia pyriformis</i>, <i>Eugenia uniflora</i> (Surinam cherry), <i>Feijoa sellowiana</i> (Horn of plenty), <i>Fortunella japonica</i> (round kumquat), <i>Malus domestica</i> (apple), <i>Prunus persica</i> (peach) <i>Prunus</i> spp., <i>Psidium cattleianum</i> (strawberry guava), <i>Psidium guineense</i> (Guinea guava), <i>Pyrus communis</i> (pear), <i>Spondias tuberosa</i>, <i>Syzygium jambos</i> (rose apple), <i>Ziziphus joazeiro</i></p> <p>Other hosts: <i>Anacardium occidentale</i> (cashew), <i>Annona muricata</i> (soursop), <i>Averrhoa carambola</i> (starfruit), <i>Capsicum annuum</i> (pepper), <i>Carica papaya</i> (papaya), <i>Chrysophyllum caimito</i> (star-apple), <i>Citrus</i> spp., <i>Coffea arabica</i> (coffee), <i>Cydonia oblonga</i> (quince), <i>Fortunella</i> spp., <i>Fragaria x ananassa</i> (strawberry), <i>Juglans neotropica</i>, (Andean walnut), <i>Malpighia emarginata</i> (west Indian cherry), <i>Mangifera indica</i> (mango), <i>Manilkara zapota</i> (sapodilla), <i>Olea europaea</i> (olive), <i>Punica granatum</i> (pomegranate), <i>Rubus glaucus</i> (Andes black raspberry), <i>Spondias</i> spp., <i>Terminalia catappa</i> (tropical almond), <i>Vitis vinifera</i> (grape)</p>
<b>Likelihood for establishment in UK</b>	Tropical fruit fly unlikely to establish in UK
<b>Website(s)</b>	<p><a href="https://gd.eppo.int/taxon/ANSTFR">https://gd.eppo.int/taxon/ANSTFR</a></p> <p><a href="https://entnemdept.ufl.edu/creatures/fruit/tropical/south_american_fruit_fly.htm">https://entnemdept.ufl.edu/creatures/fruit/tropical/south_american_fruit_fly.htm</a></p> <p><a href="https://www.cabidigitallibrary.org/doi/10.1079/cabicompndium.5648">https://www.cabidigitallibrary.org/doi/10.1079/cabicompndium.5648</a></p> <p><a href="https://www.fruitflyidentification.org.au/species/anastrepha-fraterculus-2/">https://www.fruitflyidentification.org.au/species/anastrepha-fraterculus-2/</a></p>

## References

Hernández-Ortiz, V. et al. 2012. Cryptic Species of the *Anastrepha fraterculus* complex (Diptera: Tephritidae): A multivariate approach for the recognition of South American morphotypes. *Annals of the Entomological Society of America*. 105. 305-318. 10.1603/AN11123.

IPPC. 2016. ISPM 27 Diagnostic protocols for regulated pests DP 9: Genus *Anastrepha* Schiner. International Plant Protection Convention (IPPC)

White IM, Elson-Harris MM. 1994. Fruit flies of economic significance: Their identification and bionomics. CAB International. Oxon, UK. 601 pp.

<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>