

1. PaDIL Species Factsheet



Scientific Name:

Anastrepha fraterculus (Wiedermann, 1830)
(Diptera: Tephritidae: Trypetinae: Toxotrypanini)

Common Name

South American Fruit Fly

Live link: <http://www.padil.gov.au:80/pests-and-diseases/Pest/Main/142123>

Image Library

Australian Biosecurity

Live link: <http://www.padil.gov.au:80/pests-and-diseases/>

Partners for Australian Biosecurity image library



Museum Victoria
<http://museumvictoria.com.au/>



CRC National Plant Biosecurity
<http://www.crcplantbiosecurity.com.au/>



Plant Health Australia
<http://www.planthealthaustralia.com.au/>



Department of Agriculture, Fisheries and Forestry
<http://www.daff.gov.au/>



Department of Agriculture and Food, Western Australia
<http://www.agric.wa.gov.au/>

2. Species Information

2.1. Details

Specimen Contact: Museum Victoria - discoverycentre@museum.vic.gov.au

Author: McCaffrey, Sarah and Ken Walker

Citation: McCaffrey, Sarah and Ken Walker (2011) South American Fruit Fly (*Anastrepha fraterculus*) Updated on 8/31/2012 Available online: PaDIL - <http://www.padil.gov.au>

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2.2. URL

Live link: <http://www.padil.gov.au:80/pests-and-diseases/Pest/Main/142123>

2.3. Facets

Commodity Overview: Field Crops and Pastures, Horticulture

Commodity Type: General, Citrus, Pome fruits, Stone fruits, Viticulture

Distribution: Central and South America, USA and Canada

Group: Flies

Status: Exotic species - absent from Australia

2.4. Other Names

Acrotoxa fraterculus (Wiedemann)

Anastrepha brasiliensis Greene

Anastrepha costarukmanii Capoor

Anastrepha peruviana Townsend

Anastrepha pseudofraterculus Capoor

Anastrepha scholae Capoor

Anastrepha soluta Bezzi

Anthomyia frutalis Weyenbergh

Dacus fraterculus Wiedemann

Tephritis mellea Walker

Trypeta fraterculus (Wiedemann)

Trypeta unicolor Loew

2.5. Diagnostic Notes

This species is of great economic importance because of the wide variety of plants which it attacks and its extensive distribution. In most of South America it probably is the most important species of *Anastrepha*.

A. fraterculus has a broad host range, particularly in the family Myrtaceae, but it is also a pest of citrus and apples (*Malus domestica*) in some areas.

Identification to species is very difficult, in particular, it is essential to dissect the aculeus (ovipositor piercer) of a female specimen to achieve positive identification. The adult of *A. fraterculus* is very difficult to separate from that of *A. obliqua*; if necessary, specimens should be referred to a specialist. The following description applies to both species.

Colour: scutum without any silvery or hoary patterning; base of scutellum and posterior margin of scutum without a black mark; apical section of vein M (beyond dm-cu crossvein) crossed by an oblique marking; in cell r4+5 this marking often joins the marking on crossvein dm-cu to form an inverted V-shaped band (known as the V-band). Abdomen: aculeus tip serrate and less than 0.18 mm wide; aculeus at most 2.0 mm long. Wing length 5-7 mm.

Source:

See weblink for "EPPO Factsheet"

Small to rather small, yellow brown. Mesonotum 2.75 to 3.3 mm long, yellow brown; the humerus, median stripe widened posteriorly anterior to acrostichal bristles and barely including these bristles, lateral stripe from transverse suture to scutellum, and scutellum bright yellow; a small diffuse scutoscutellar black spot may or may not be present; pleura yellow and yellow brown; metanotum and postscutellum rather broadly blackened laterally. Macrochaetae yellow brown to black; pile yellow brown. Sternopleural bristle slender.

Wing 5.35 to 7.2 mm long, the bands yellow-orange and brown. As already stated, adult forms currently recognized within the *A. fraterculus* complex show substantial variation in the wing pattern. In the Brazilian form costal band typically touching S band and V band typically separated from S band.

Ovipositor sheath 1.65 to .1 mm long. stout, tapering apically, spiracles about 0.7 mm from base. Rasper a rather small patch of hooks in 4 or 5 rows. Ovipositor 1.5 to 1.95 mm long, stout, base distinctly widened, tip narrowed beyond end of oviduct and before serrate portion, the serrations blunt and rounded, extending little more than half length of tip, sometimes less.

Source:

See weblinks "Featured Creatures"

For full description, follow this link:

Description

2.6. Web Links

Featured Creatures: http://entnemdept.ufl.edu/creatures/fruit/tropical/south_american_fruit_fly.htm

EPPO Factsheet: http://www.eppo.org/QUARANTINE/insects/Anastrepha_fraterculus/ANSTFR_ds.pdf

3. Diagnostic Images



Ancash, 9 June 1961, Trabago Coll
Dorsal Image - Female: Sarah McCaffrey m



Ancash, 9 June 1961, Trabago Coll
Head Front Image - Female: Sarah McCaffrey Museum Victoria



Ancash, 9 June 1961, Trabago Coll
Head Side Image - Female: Sarah McCaffrey Museum Victoria



Ancash, 9 June 1961, Trabago Coll
Head Top Image - Female: Sarah McCaffrey Museum Victoria



Ancash, 9 June 1961, Trabago Coll
Lateral Image - Female: Sarah McCaffrey Museum Victoria



Ancash, 9 June 1961, Trabago Coll
Posterior Image - Female: Sarah McCaffrey Museum Victoria



Ancash, 9 June 1961, Trabago Coll
Thorax Side Image - Female: Sarah
McCaffrey Museum Victoria



Ancash, 9 June 1961, Trabago Coll
Thorax Side Image - Female: Sarah
McCaffrey Museum Victoria

4. Other Images



Ancash, 9 June 1961, Trabago Coll
Dorsal Image - Male: Sarah McCaffrey
Museum Victoria



Ancash, 9 June 1961, Trabago Coll
Head Front Image - Male: Sarah McCaffrey
Museum Victoria



Ancash, 9 June 1961, Trabago Coll
Head Side Image - Male: Sarah McCaffrey
Museum Victoria



Ancash, 9 June 1961, Trabago Coll
Head Top Image - Male: Sarah McCaffrey
Museum Victoria



Ancash, 9 June 1961, Trabago Coll
Lateral Image - Male: Sarah McCaffrey
Museum Victoria



Ancash, 9 June 1961, Trabago Coll
Posterior Image - Male: Sarah McCaffrey
Museum Victoria



Ancash, 9 June 1961, Trabago Coll
Thorax Above Image - Male: Sarah
McCaffrey Museum Victoria



Ancash, 9 June 1961, Trabago Coll
Thorax Side Image - Male: Sarah McCaffrey
Museum Victoria

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Monday, January 20, 2020
