



## Pacific Pests and Pathogens - Mini Fact Sheet Edition

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### Fruit flies - Solomon Is. (021)



Photo 1. Mango fly, *Bactrocera frauenfeldi*.



Photo 2. Melon fly, *Bactrocera cucurbitae*.



Photo 3. Breadfruit fly, *Bactrocera umbrosa*.



Photo 4. Solomon fly, *Dacus solomonensis*.



Photo 5. Fruit fly eggs.



Photo 6. Fruit fly larvae or maggots.



Photo 7. Fruit fly pupae.



Photo 8. Newspaper with edges folded and stapled to form a bag in which to insert fruit to protect it from fruit flies.



Photo 9. Banana leaves used to wrap a fruit bunch to prevent attack by fruit flies, other pests, and to promote uniform ripening, in Papua New Guinea.

## Summary

- *Bactrocera frauenfeldi* - avocado, breadfruit, citrus, capsicum, carambola, guava, jackfruit, Malay apple, mango, papaya, plantain, soursop, and more; *B. solomonensis* - cucurbits; *B. cucurbitae* - cucurbits; *B. umbrosa* - breadfruit and jackfruit.
- Females need protein to lay viable eggs.
- Cultural control: bag fruit with paper or leaves; collect fallen fruit and destroy; harvest early (banana and papaya); some non-hosts, e.g., chilli, pineapple.
- Chemical control: use a commercial protein bait spray, e.g. MPPIL, Royal Tongalure or Bactrogel.

## Common Name

Breadfruit fly, mango fly, melon fly, Solomon fly

## Scientific Name

Mango fly (*Bactrocera frauenfeldi*) (Photo 1); melon fly (*Bactrocera cucurbitae*) (Photo 2); breadfruit fly (*Bactrocera umbrosa*) (Photo 3); Solomon fly (*Dacus solomonensis*) (Photo 4). There are many more fruit fly species in Solomon Islands, but these are pests of economic importance.

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Information (and photos 1,3-9) *Fruit flies in Fiji Islands* (2000), SPC Pest Advisory Leaflet 28; and from *Fruit fly control methods for Pacific island countries and territories* (2001), SPC Pest Advisory Leaflet 40. Photo 2 West Micronesia Regional Invasive Species Council Wiki. ([http://www.guaminsects.net/gisac/index.php?title=Bactrocera\\_cucurbitae](http://www.guaminsects.net/gisac/index.php?title=Bactrocera_cucurbitae)).

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The mobile application is available from the Google Play Store and Apple iTunes.

