

## Melon fly (505)

### Samari

- Olketa bin faendem melon fly long samfala pat long Australia (Queensland), Guam, Kiribati, Nauru, Northern Mariana Islands, PNG, an Solomon Islands.
- Hem nao namba wan pest blong cucumber family wetem olketa solanum famili olsem egg plant an tomato.
- Frut flae hemi bonem eggs (wetem wanfala spesol – bakteria) insaed long olketa flaoa an frut taem hemi nilam go bodi blong frut an mekem wanfala mak lo hem. Datfala bakteria hemi kwiktaem fo mekem frut ia roten an wom blong fly hem kakaim an go het fo grou insaed long frut. Olketa frut wea flae hemi spoelem babae roten an foldaon long graon wea wom (lava) babae grou insaed gogo kasem taem babae hem senis go long piupa an den adalt. Adalt flae hem kolsap sem saes nomoa olsem haus flae, an hem garem wanfala yalo kala mark long solda blong hem an wetem tu mak olsem leta T long asi blong hem. Babae iu save lukim tu olketa smol braon kala long tufala wing blong hem. Life cycle takem 3 – 5 weeks. Adalt fly save live for many weeks.
- Hemi save spred taem hem flae go long nara ples (hem strong lelebet fo flae) or taem pipol an olketa animol karem go frut wea garem wom lo narafala ples.
- Nasrol enemies: *Psytalia fletcheri* (from india – Hawaii) Samfala save dae tu long *Momordica*, bata hemi no plande lo olketa frut wea pipol plandem.
- **Biosecurity:** Samfala niu sistem and arenjmen wea mekem market hemi isi wetem nara kandere olsem.
  - Olketa rul fo folom behaen havest , HTFA (High Temperature forced air); Low temp, sinkim daon insaed long insecticide, irradiation, eria wea fri from melon fly, eria wea evri fama mas waka tugada fo kontrolem melon flae.
  - Save doim tu kwarantint insaed long kandere taem wea melon flae hemi no barava olova long ples or samfala kandere wea oketa fri iet from frut flae bata garem boda wetem narawan wea i nogut finis.
- **Lokol kontrol:** (i) monitarem – usim pheromone fo trapem olketa mane wan(cure-lure); sekem olowe olketa frut blo u taem olketa gogo fo raep (ii) Usim protein bait – maripan or yeast autolysate olsem meresen fo spreim frut; (iii) Hygiene – kavarem frut blong iu wetem klin plastic bag; havest taem frut hem jas stat fo raep; pikim ap everi frut wea foldaon long graon, an olketa wea karem kil finis an mas bonem or berem long graon. (iv) Krop rotasin (v) bonem or berem olketa rabis frut or flaoa
- **Eradikasin:** Som aot kliia oketa aria fo kwarantint; kontrolem eni frut wea kam insaed or go aotsaed long aria, tekem aot everi frut long olketa tri an pikim olketa wea foldaon long graon an bonem. Samfala wei tu hem osem protein bait/sprei wetem insektisaed, male annihilation; an SIT (sterile insect technique)
- **Kemikol kontrol:** Protein bait (yeast hydrolysate) wetem insektisaed



Photo 1. Premature yellowing is the first external sign of damage (arrowed) on bitter gourd caused by melon fly, *Zeugodacus cucurbitae*. Yellowing of this kind results from egg-laying or larval feeding.



Photo 2. Damage and premature ripening caused by infestation of melon fly, *Zeugodacus cucurbitae*.



Photo 3. Maggots (larvae) of melon fly, *Zeugodacus cucurbitae*, from bitter melon.

**Komon nem:** Melon fly

**Saentifik nem:** *Zeugodacus cucurbitae*; fastaem tu olketa saentis bin kolek long *Bactrocera* (*Zeugodacus*) *cucurbitae*, and *Bactrocera cucurbitae*.



Photo 4. Maggots, melon fly, *Zeugodacus cucurbitae*, developing in chilli fruit.



Diagram. General scheme of fruit fly life cycle.



Photo 5. Adult melon fly, *Zeugodacus cucurbitae*.



Photo 6. Adult melon fly, *Zeugodacus cucurbitae*.



Photo 7. Adult melon fly, *Zeugodacus cucurbitae* (side view).



Photo 8. Adult melon fly, *Zeugodacus cucurbitae*, showing the T-shaped mark on the abdomen.



Photo 9. Adult melon fly, *Zeugodacus cucurbitae*, showing the wings from above. Note the smoky, fuzzy markings at the wing-tips and rear of the wings.



Photo 10. Close-up of Photo 9, adult melon fly, *Zeugodacus cucurbitae*, showing smoky, fuzzy markings at the wing-tips and rear of the wings.

---

Copyright © 2023. All rights reserved.



Australian Government  
Australian Centre for  
International Agricultural Research



Web edition hosted at <https://apps.lucidcentral.org/ppw>