



# Monitoring

Most species of fruit fly respond to synthetic lures (also called pheromones or para-pheromones). These lures are attractive to male fruit flies, although females are occasionally caught in traps, particularly if large numbers of males have already been caught.

## Male traps

Lynfield traps are used by DAFWA to monitor for Medfly. The trap is a vertical plastic 1 litre jar, with a white screw-on lid. Four holes 2.5 cm in diameter allow fly entry.

- Lure: Capilure® wicks or Magnet™ plug (commercial preparations of trimedlure). Wicks consist of 2 mL Capilure® soaked into cotton held together by a metal clip. Magnet™ plug is a solid form of Capilure®.
- Killing agent: DDVP (dichlorvos) is used to kill flies that enter the trap. A square centimetre of DDVP is placed on the bottom of the trap.
- **Longevity:** Both the lure and DDVP should be changed every 3 months.
- **Trap range:** About 25 m. Medfly does not normally move more than 50 m, unless no suitable hosts are available.
- Availability: Lynfield trap and Capilure® wicks are not yet commercially available, but may be purchased from the Department of Agriculture and Food.

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Lynfield trap - wicks soaked in Capilure® are hung from the lid



McPhail trap

# Female traps

Female traps differ from male traps in that they have a base that can also hold liquid attractants.

**McPhail traps** consist of a plastic container with a clear dome mounted on a yellow base. The base of the trap clips into position. Flies enter the trap through a hole in the base.

**Tephri traps** comprise a yellow base fitted with an opaque lid. Four fly entry holes, 2.1 cm in diameter, are 90 degrees to each other.

Availability: Commercially available.

Lures consist of either two (2-part) or three sachets (3-part) of ammonium acetate, putrescine and trimethylamine. The food-based lure attracts both male and female Medflies.



Tephri trap

# **Setting monitoring traps**

Place traps in fruiting trees (if present) about 1.5 m from the ground, in shade and in the middle of the block of trees. If using both male and female traps, these should be installed in pairs, 25 m apart. Traps should be moved to each block within an orchard as the crop ripens for maximum effect.

### How many traps do I need?

At least two traps per hectare (one male, one female) or a minimum of four traps per orchard (two male, two female).

### What do the trap catches mean?

An **action threshold** is the point at which a treatment must be applied to prevent pest numbers from causing economic damage.

### Scoring system of trap counts

Medfly caught/trap/week	Action required
1-4	Weekly bait spraying
5-9	Twice-weekly bait spraying
10 or more	Twice-weekly bait spraying, cover spray if necessary

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