

eco-naturalure®

MALE FRUIT FLY TRAP

MONITORING MALE QUEENSLAND FRUIT FLY

Determining the presence of fruit fly is essential when trying to eradicate this pest early in the season. Early detection and control will minimise fruit spoiled. In areas where fruit fly are a major problem it may be difficult to identify when they first emerge from the ground. A monitoring device such as the **eco-naturalure** Fruit Fly Trap, if hung in foliage near fruit early in the season will help indicate their presence and enable early control. The **eco-naturalure** Fruit Fly trap is for monitoring MALE Queensland Fruit Fly ONLY. Male fruit fly are attracted to the trap by a female pheromone impregnated in the wick. An insecticide is also present and kills males once they enter the trap. As soon as male fruit fly are found in the trap **eco-naturalure** Fruit Fly Bait Concentrate should be applied.

Note: Wick should be replaced every 3 months (round pink disk in trap).
Call 1800 634 204 to re-order.



MALE FRUIT FLY TRAP

eco-naturalure®

FRUIT FLY BAIT CONCENTRATE

eco-naturalure AND THE ENVIRONMENT

eco-naturalure works specifically on fruit fly and is non toxic to humans and animals. It is certified as an allowable input for organic growers by the Biological Farmers of Australia (BFA) and is completely biodegradable.

The unique formulation of **eco-naturalure** makes it perfect for use in Integrated Pest Management (IPM) systems. Beneficial insects and non-target pests are not harmed if they land on a spray site. However, care should be taken at the time of spraying as airborne droplets may harm beneficial insects.

eco-naturalure has no withholding period when used as directed.

* WA Department of Agriculture

** Department of Primary Industries and Fisheries, Queensland

† NSW Department of Agriculture

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eco-naturalure®

FRUIT FLY BAIT CONCENTRATE

ACTIVE CONSTITUENT: 0.24 g/L SPINOSAD



Mediterranean fruit fly*



Queensland fruit fly**

FOR THE CONTROL OF

FRUIT FLIES, INCLUDING QUEENSLAND FRUIT FLY AND MEDFLY, INFESTING VARIOUS TREE, FRUIT, NUT, VINE AND VEGETABLE CROPS AND ORNAMENTALS AND ON FLY RESTING SITES, INCLUDING NON-CROP VEGETATION



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eco-naturalure[®]

FRUIT FLY BAIT CONCENTRATE



eco-naturalure is the first fruit fly control to combine a unique protein-based fruit fly attractant and a highly effective BFA registered insecticide called **spinosad**. The product also contains humectants (sugars), which keep the product moist and attractive to fruit fly for up to 7 days.

WHY USE **eco-naturalure**?

- Attracts and kills both male and female fruit fly
- Controls Queensland and Mediterranean fruit fly
- Natural ingredients, with BFA organic certification
- NO WITHHOLDING PERIOD – spray and eat the same day
- Very low toxicity to other insects and animals



Mediterranean fruit fly*



Queensland fruit fly**

HOW DOES **eco-naturalure** WORK?

Lure and Kill: **eco-naturalure** lures fruit fly to feed on it. As fruit fly feed they also ingest a natural insecticide called **spinosad**. **Spinosad** effectively kills fruit fly once ingested.

Target Juvenile Females: Targeting female fruit fly will help minimize fruit lost to maggots (fruit fly larvae). Early application is the most effective way to ensure females are killed before they have a chance to mate and lay their eggs in fruit. Reducing the population of fruit fly early in the season will result in less damaged fruit. Apply from flower drop.

HOW TO USE **eco-naturalure** FRUIT FLY BAIT CONCENTRATE

- As fruit fly are most commonly found on or around plant foliage/branches, **eco-naturalure** should be sprayed either directly onto foliage and branches, or on a board and placed in amongst plant foliage/branches.
- Spray should be kept off the ground. Apply at mid height or close to where fruit is hanging.
- When applying spray ensure it is adequately mixed with water. Do not apply undiluted.
- Foliar and branch/board application rates vary:
Foliar/Application – use 10ml **eco-naturalure** to 60ml of water
Branch/Trunk/Board Applications – use 10ml **eco-naturalure** to 15 ml of water. Less water is used in this case so the product sticks onto branches/trunks/boards; and remains hydrated.

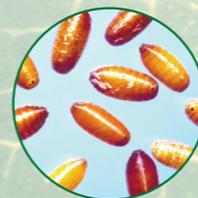
Apply the appropriate mixture above to a 1m² patch of foliage/branch/trunk or board. A 1m² patch must be applied per 50m² area requiring protection. The bait in **eco-naturalure** is strong enough to entice fruit fly to feed from within a 50m² area, so there is no need to spray the entire tree/plant.



Eggs[†]



Larvae[†]



Pupae[†]



Adult[†]

HOW TO USE **eco-naturalure** FRUIT FLY BAIT CONCENTRATE



- Apply weekly as the food attractant and spinosad need replenishing each week.
- Re-apply if it rains as the food source and spinosad will be diluted.
- Re-applying to the same foliage or board each week can promote the growth of sooty mould. Avoid this by spraying a different area of the tree or plant. Boards should also be cleaned.
- Ideal board materials will not allow the product to dry out, run off or be absorbed by the material. Metal should NOT be used. Masonite, painted timber or plasticized surfaces can be used.
- Keep areas free from fermenting protein sources such as rotting fruit, open compost heaps, and manures including pet and chicken poo, so fruit fly don't feed on these instead of **eco-naturalure**.
- Be aware that neglected fruit trees in your neighbourhood can harbour fruit fly. In such instances fruit fly will be harder to control. Better protection can be gained by increasing the number of bait patches within and around your backyard (one bait every 30m of fence line), as well as the use of male traps which will aid with monitoring and control.
- The use of male Queensland fruit fly traps (which can be purchased from OCP) are also recommended for monitoring fruit fly in areas that are prone to heavy infestation. These contain a female pheromone called Q-lure and a toxicant in the form of a wick that attract and kill male fruit fly. Male traps should be hung early in the season (August) to control males and monitor female activity. Wicks need replacing every three months for effective monitoring.