



FRUITION[®] NOVA[®]

FRUIT FLY LURE & TRAP FOR A RANGE OF FRUIT FLY SPECIES AS PER THE DIRECTIONS FOR USE TABLE USE INSTRUCTIONS & ASSEMBLY GUIDE

Australian Patent No. 2013327395
NZ Patent No. 630903

FRUITION® NOVA®

The Revolutionary Lure & Trap for a Range of Fruit Flies



INTRODUCTION

Fruition® Nova® Traps are a unique new system for monitoring and managing fruit fly populations, and were developed specifically to target the cucumber fly (*Bactrocera cucumis*).

Fruition Nova Traps will also attract and trap Jarvis' fruit fly (*B. jarvisi*), lesser Queensland fruit fly (*B. neohumeralis*) and Queensland fruit fly (*B. tryoni*).

Fruition Nova Traps are highly effective in attracting a range of fruit fly species, including cucumber fly, through a combination of colour, shape and smell. Fruit flies are attracted to the trap using aromas that resemble those of ripe fruit and, once in visual range, are able to detect the colour and shape of the trap structure. The sticky trap surface then traps the flies in such a way that they can be easily identified and counted.

As soon as fruit flies are detected, growers should implement a full Integrated Pest Management (IPM) program if not already commenced.

In all situations, begin protein bait spraying early with Fruition Natflav® 500 before fruit become susceptible to fruit fly infestation, and complement bait spraying with use of Fruition Nova Traps to allow monitoring of fruit fly population dynamics. If numbers of fruit flies continue to increase following implementation of a program of Fruition Natflav 500 protein bait sprays and Fruition Nova Traps, cover spraying of an approved insecticide may be required.

USE OF FRUITION NOVA TRAPS

Fruition Nova Traps can be used for both population monitoring and, in conjunction with other control strategies, for management as part of an IPM program, when susceptible crops are fruiting. It is important to deploy Fruition Nova Traps early in the crop for early detection and hence optimal management of fruit fly populations.

PLACEMENT OF FRUITION NOVA TRAPS

Fruition Nova Traps should be placed evenly around and throughout the site. Where previous crop history indicates that fruit flies enter the crop from a particular location (such as adjoining forested areas, sheltered gullies, adjacent creeks or waterways, etc.), Fruition Nova Traps should be deployed at a higher concentration closest to these sources of infestation, but within the range specified in the Directions for Use table.

TREE CROPS: Fruition Nova Traps should be hung in the fruiting zone, usually 1.5-2.0 metres above the ground. Ideally traps will be placed in the tree canopy in a location away from surrounding branches and clearly visible within the orchard.

OTHER CROPS: Fruition Nova Traps should be hung immediately above the crop canopy (about 0.5 metres), suspended from a firmly anchored rigid support such as a 'star picket' driven into the ground, and in adjacent trees or vegetation within 5.0 metres of the crop where traps can intercept fruit flies flying into the crop to lay eggs.

Ideally neighbouring crops will also be monitored as these can be a source of fruit fly infestations.

In cucurbit crops, cucumber fly typically roosts in vegetation around the crop and enters the crop mainly to lay eggs. In this situation, Fruition Nova Traps should be deployed at a higher concentration closest to these sources of infestation, but within the range specified in the Directions for Use table. Use of protein bait sprays applied weekly to the surrounding vegetation can assist in the IPM program.

TRAPS SHOULD BE REPLACED IF:

1. Sticky surfaces are heavily covered by fruit flies or foreign objects;
2. The lure sachet has expired – the Fruition Nova Trap gel lure in the open sachet will continue to be effective for up to 12 weeks;
3. The lure sachet or trap is damaged or missing.

STORAGE AND DISPOSAL OF FRUITION NOVA TRAPS

Store unused Fruition Nova Traps and lure sachets in original packaging out of direct sunlight and below 25°C.

Keep out of reach of children and animals.

Dispose of the used traps at the end of the cropping season through a waste disposal system in compliance with local, state or territory government regulations.

HANDLING PRECAUTIONS

Avoid contact with the adhesive surface. The adhesive is non-toxic and vegetable oil can be used to remove from skin.

SAFETY DATA SHEET

If additional information is required refer to the Safety Data Sheet. For a copy visit agnova.com.au

DIRECTIONS FOR USE:

PEST	SITUATION	TRAPS/HA	CRITICAL COMMENTS
Cucumber fly <i>(Bactrocera cucumis)</i> , Jarvis' fruit fly <i>(B. jarvisi)</i> , Lesser Queensland fruit fly <i>(B. neohumeralis)</i> , Queensland fruit fly <i>(B. tryoni)</i>	Monitoring fruit fly populations	15 traps/ha	<p>Fruition Nova Traps are suitable for a range of crops where there is a need to monitor for the presence of fruit flies before crop damage occurs.</p> <p>For optimal management of fruit fly populations, commence use of Fruition Nova Traps well before the fruit becomes attractive to fruit flies i.e. from the early stages of fruit set, when fruit is still hard and green.</p> <p>Ideally neighbouring crops will also be monitored as these can be a source of fruit fly infestations.</p> <p>Read section on PLACEMENT OF FRUITION NOVA TRAPS adjacent.</p> <p>Fruition Nova Traps should be monitored daily, with trap catches recorded and records maintained for each monitoring event.</p> <p>As soon as fruit flies are detected on Fruition Nova Traps, a full IPM program (as below) should be implemented to optimise fruit fly management for the season. This should include protein bait spraying with Fruition Natflav 500 if this has not already begun.</p>
	Implementing a full fruit fly IPM program	15-30 traps/ha	Low susceptibility crops
		30-50 traps/ha	Moderate - High susceptibility crops
			<p>Efficacy of a fruit fly management program is dependent on a range of factors including pest pressure during the season. For effective management of fruit flies, Fruition Nova Traps should be used as part of a broader strategic control program, involving other approved products and strategies approved for the control of fruit flies.</p> <p>A fundamental part of any IPM program is practicing good crop hygiene, including removal of fallen fruit which may be infested with fruit fly larvae.</p> <p>Fruition Nova Trap numbers may need to be greater than the minimum stated above based on a range of factors, including numbers of fruit flies trapped during the monitoring phase; crop history and susceptibility; crop canopy, size and density; crop value; surrounding crop type and maturity stage; seasonal conditions; etc.</p> <p>If a protein baiting program has not already started, commence applications of gelatinised Fruition Natflav 500 according to the label and reapply at least every 7 days. An insecticide registered for this use must be included with Fruition Natflav 500 according to the insecticide label.</p> <p>Continue to monitor and record trap catches until immediately after final harvest to ensure that the management program is adequate. If fruit fly numbers on Fruition Nova Traps indicate high or erratic pest pressure as fruit develops and becomes more susceptible to fruit fly attack, additional fruit fly control measures may need to be implemented, such as insecticide cover sprays where product registrations and permits allow.</p> <p>Typically, an effective IPM program will result in the number of freshly trapped fruit flies declining over time.</p>

Fruition Nova Trap Assembly Guide

FRUITION NOVA TRAP COMPONENTS

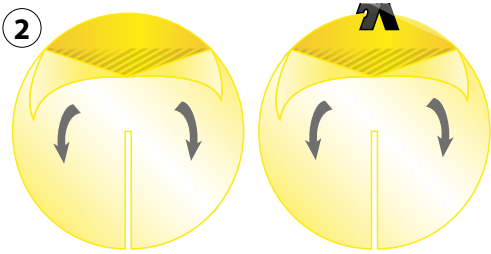
Each trap consists of two discs, a metal clip, a lure sachet and a soft wire tie.

1



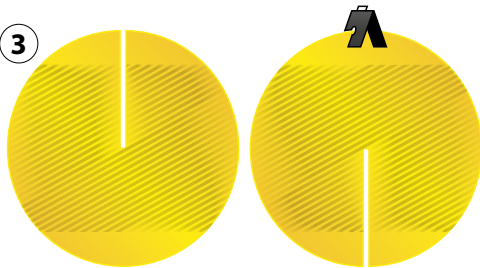
Tear open sachet approximately 20 mm where indicated, leaving torn segment attached. Set sachet aside.

2



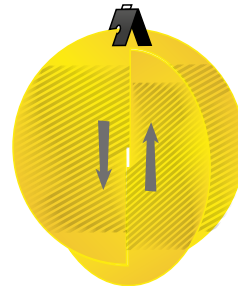
Holding discs by non-adhesive areas at either top or bottom, remove all paper on both sides ensuring sticky surfaces do not come into contact with other surfaces.

3



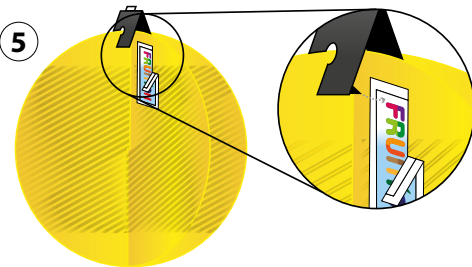
Arrange discs with slots opposing each other.

4



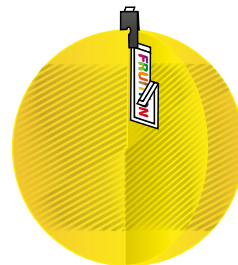
Slot discs together.

5



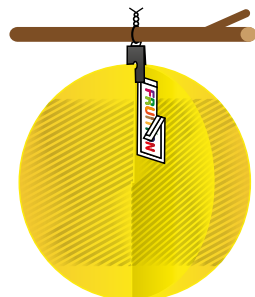
Place sachet on disc so spike on clip will pierce sachet, then pierce disc, when squeezed closed.

6



Squeeze both sides of clip simultaneously to close **FIRMLY** so that sachet is secured & spikes penetrate through opposite side of disc. Fold up spikes for extra security.

7



Thread tie through eyelet in clip and hang trap securely in desired location.



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