

# Industrial Pest Control Products



An overview of the Suterra Industrial product portfolio delivering pest solutions

- ✓ A complete range of effective, easy to use and safe 'bio-rational' products
- ✓ Generally, no product registration required
- ✓ Pesticide free

Find out more at  
[www.suterra.com](http://www.suterra.com)

**Suterra**<sup>®</sup>

# Company introduction



## Providing technological expertise on a global scale

Suterra is a major developer and manufacturer of bio-rational insect pest monitoring and control products, distributing globally through the Retail Household and Garden, Industrial Pest Control and Crop Protection markets.

The unified business activity of 150 Suterra employees worldwide has created one of the largest global companies based on pheromone technologies.

Suterra's research and technical staff have over a century's worth of combined experience in semio-chemical research, synthesis, pest behaviour and agriculture. Our scientists enjoy a global reputation through their field work and published research.

Suterra design, develop and manufacture bio-rational insect monitoring and control products for our customers and distribution partners worldwide.

These products for the Industrial market sector are based on Suterra's three main areas of technological expertise:

- 1) Insect behaviour modifying chemicals (pheromones, attractants and repellents).
- 2) Controlled release technology for pheromones and other volatile compounds.
- 3) Insect glue technology and application.

### What we do:

- Needs driven product design and manufacture with technical support.
- Technical Data Sheets and Material Safety Data Sheets.
- Traceability – applicable products are printed with a unique code that enables date of manufacture and batch identification.
- Extensive range of traps and monitoring products.
- Insect mating disruption control products.

Suterra's commercial pest control division is a certified ISO9001 Company and has extensive quality control and inspection procedures.

Customer service and product quality/effectiveness are our highest priority. Our relationships with our marketing partners are very important to us and we have dedicated customer service personnel to ensure best practice.

### Product Advantages:

- Generally no product registration is required for monitoring products, but some pheromones have been notified under the Biocides Directive (98/8/EC) and these will be supported with requisite data.
- Our products have a minimum of a 2 year shelf-life from the date of manufacture.
- Many of the products are ready-to-use (RTU) with the specific attractants either in or on the glue surface to aid ease of use.
- None of our products contain harmful chemical insecticides or pesticides.
- Proprietary controlled release technology is an integral part of our global product portfolio.
- Product designs are continually reviewed and upgraded in order to incorporate new or more cost-effective materials and technology, whilst maintaining and improving product effectiveness.

TYPE OF PEST	PRODUCT SOLUTION
Cockroach	Lo-Line™ Trap, Winged Detector Trap, Corner Detector Trap, Pop-Up Trap
Bed Bug	Bed Bug Monitoring Trap, Bed Bug Tape Roll
Stored Product Moths	Easetrap DeltaTrap, SP Locator, Black Stripe Funnel Trap, Black Stripe Disposable Trap
Stored Product Beetles	Window Trap, Pitfall Trap, Black Stripe Disposable Trap
Wasp	Disposable Wasp Bag, Dome Trap, Liquid Wasp Bait
Blue/Green Bottle Fly	Disposable Fly Bag
Vinegar/Small Fruit Fly	Fruit Fly Trap, Fly Roll for FICS Machine
House Fly	Fly Attractant Tablet, Fly Roll for FICS Machine
Whitefly	Medium/Large/Extra Large Yellow Sticky Trap, Maxi Roll
Aphids	Medium/Large/Extra Large Yellow Sticky Trap, Maxi Roll
Sciarids	Medium/Large/Extra Large Yellow Sticky Trap, Maxi Roll
Thrips	Medium/Large/Extra Large Blue Sticky Trap, Maxi Roll
Silverfish	Silverfish/Crawling Insect Trap

## Global Suterra

Suterra is the leading provider of bio-rational products for crop protection and commercial pest control worldwide, with offices in the USA, UK, Spain and Argentina. We are dedicated to making the world a better place. *Naturally.* The majority of Suterra's products are exported, for which the company has received the prestigious "Queen's Award for Export Achievement" three times.



**Suterra®**

# Cockroach trapping



## The Pest - Cockroach

About ten species of cockroach have adapted to human environments, and thus become 'pest' species. The most important are the German cockroach, *Blattella germanica*, the American cockroach, *Periplaneta americana*, and the Oriental cockroach, *Blatta orientalis*. Their eggs are laid in a very tough protective membrane called an ootheca. This egg case is extremely durable, which is one of the reasons why cockroaches are difficult pests to deal with.

## Cockroach Monitoring Traps

Cockroaches are an ever present problem in residential and industrial situations, despite the range of chemical treatments available to control them. Populations often become well established before being seen, with the subsequent difficulty of locating the sources and treating the problem effectively.

There are four main problems associated with cockroach infestation:

- Aesthetic damage - embarrassing unsightly detritus around infested areas.
- Mechanical damage - contamination of food and surfaces, staining of clothes.
- Disease transmission - cockroaches have been shown to transmit disease.
- Allergies and asthma - cockroaches are the number one cause of asthma in inner city children.

Cockroach traps are an excellent tool, designed to identify the problem quickly, often before visual sighting of an insect, making any treatment easier, quicker and more cost effective. All traps are based on many years of Suterra's scientific and biological experience in insect trapping.



Traps are:

- Specifically designed to use the insect's own behaviours against it to maximise catch.
- Low profile for placement under and within items.
- Coated with our proprietary dry touch glue for long lasting insect trapping without sticky fingers.
- Supplied with an attractant designed to be an irresistible lure for the insects.

## Tips and Techniques in Cockroach Trapping

- Use of traps will help inspire customers' confidence in the treatment, especially if used in long term surveillance. No catch means no need to treat. If insects are caught, a positive identification can be made and appropriate action taken to control the pest.
- Why conduct unnecessary night time inspections? Save time by using monitoring traps.
- Use detectors for smaller areas, low populations or for a quick investigation. If populations are expected to be high or the area is large, use larger sized traps.
- Placement depends on the environment, but ideally traps should be placed at wall/floor junctions.
- Keeping records of catches helps build a knowledge of infestation and helps demonstrate to the customer the effectiveness of any service regime.
- For best and consistent results use the Lo-Line™ with attractant tablet. To save time and money in setting the traps in place, use the pre-baited ready to use Lo-Line™ Plus+ alternative.
- Lo-Line™ traps and detectors can be used with attractants for other crawling insects such as Carpet Beetles, Museum Beetles, Biscuit Beetles, Larder Beetles and more.


## Large sticky traps designed to catch high insect numbers

PRODUCT	CODE	DESCRIPTION	OPTIONS
	13664	<b>Lo-Line™ Plus+ Cockroach Trap</b> Ready-to-use, pre-baited trap. Well known and trusted AgriSense branded traps. Flat profile, 4 entrances with ramped access. Instructions in 6 languages.	AgriSense branded. Unprinted. Private label (minimum order quantities apply).
	10001	<b>Lo-Line™ Cockroach Trap</b> High performance tablet attractant trap. Well known and trusted AgriSense branded traps. Flat profile, 4 entrances with ramped access. Instructions in 6 languages.	AgriSense branded. Unprinted. Private label (minimum order quantities apply).

## Small sticky traps designed to detect the location of cockroach infestations

PRODUCT	CODE	DESCRIPTION	OPTIONS
	13713	<b>Corner Detector Plus+ Trap</b> Ready-to-use, pre-baited trap. Corner style Detector Trap with compact design. Can include sticky tape strip to secure in place for ease of use.	AgriSense branded. Private label (minimum order quantities apply).
	10063	<b>Corner Detector Trap</b> High performance tablet attractant trap. Corner style Detector Trap with compact design. Can include sticky tape strip to secure in place for ease of use.	AgriSense branded. Unprinted. Private label (minimum order quantities apply).
	13913	<b>Winged Detector Plus+ Trap</b> Ready-to-use, pre-baited trap. Low profile trap. Designed for narrow spaces. Can include sticky tape strip to secure in place for ease of use.	AgriSense branded. Unprinted. Private label (minimum order quantities apply).
	10040	<b>Winged Detector Trap</b> High performance tablet attractant trap. Low profile trap. Designed for narrow spaces. Can include sticky tape strip to secure in place for ease of use.	AgriSense branded. Unprinted. Private label (minimum order quantities apply).
	14813	<b>Pop Up Cockroach Trap (GB Pat. No. GB2460432)</b> Ready-to-use, time-saving trap - no folding, no waste. Pre-baited with food attractant on the glue surface.	AgriSense branded.

## Sticky Pads for Cockroach Monitors

PRODUCT	CODE	DESCRIPTION	OPTIONS
	13729	<b>Plastic Sticky Pads for Cockroach Monitor</b> Ready-to-use. Coated on one side with cockroach glue and food attractant lure. Silicone quick release paper.	Standard size 77mm x 58mm.

# Bed Bug trapping



## The Pest - Bed Bugs

Bed bugs are parasitic insects that prefer to feed on human blood. The common bed bug, *Cimex lectularius*, is the most famous species of the *Cimicidae* family. The name of the “bed bug” is derived from the insect’s preferred habitat of being in the vicinity of beds and other areas where people sleep. Bed bugs are mainly active at night but are not exclusively nocturnal and are capable feeding on their host without being noticed. A number of adverse health effects may occur due to bed bug bites, these include skin rashes, psychological effects and allergic symptoms.

## Bed Bug Monitoring Traps

Following several years of R&D, with a focus on a screening program from a library of key ingredients, Suterra has formulated a refined blend of active ingredients into a monitoring trap which is specifically designed for the professional user. The AgriSense Bed Bug Monitoring Trap is a monitoring tool that offers the Pest Control Operator (PCO) a trap that is sensitive and discreet while maintaining cost-effectiveness.



In addition to the monitoring benefits, the AgriSense Bed Bug Monitoring Trap offers a direct time-saving component for the professional user in reducing room inspection times, necessary for control measures to be implemented.

The AgriSense Bed Bug Monitoring Trap offers significant value in guiding the PCO to the rooms that have bed bugs present and, following insecticide treatment of these rooms, the traps are effective in directing control efforts to the rooms requiring secondary or follow-up treatments.

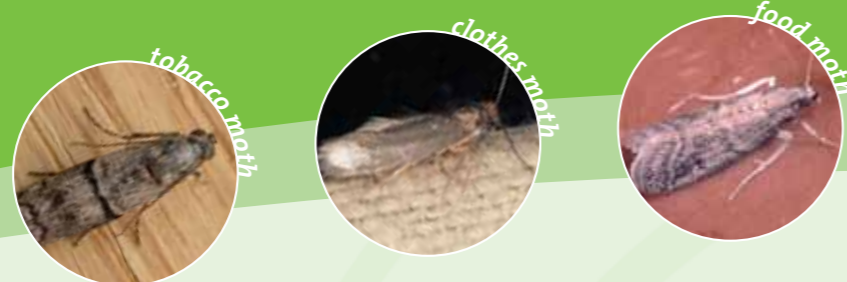
## Tips and Techniques in Bed Bug Trapping

- The AgriSense Bed Bug Monitoring Trap is ideally placed in the bedroom on the floor next to the skirting board, under the headboard of the bed. This allows for effective and discreet monitoring of the presence of bed bugs.
- The trap should be placed in the room for a week. Following analysis of the distribution of the bed bug infestation, the extent of the infestation in the block or hotel can then be managed with best practice bed bug control techniques.
- If no bed bugs are caught in the trap following the recommended placement duration, this does not guarantee that the room is free from bed bugs. Additionally, to the untrained eye and without knowledge of insect morphology, bed bug nymphs can sometimes be misinterpreted as other insects, such as booklice.
- If there is doubt in confirming the identity of the trapped insects, it is recommended to consult a qualified entomologist.
- The trap is intended as one of the tools available to assist the PCO to guide the implementation of control measures according to the recommended best practice guidelines to control bed bugs.
- The AgriSense Bed Bug Monitoring Trap has a 2 year storage shelf life. The trap is recommended to be replaced every 4 weeks when in service.

## Traps for Bed Bugs

PRODUCT	CODE	DESCRIPTION	OPTIONS
	16817	<b>AgriSense Bed Bug Monitoring Trap</b> Discreet, effective and easy to use. Catches bed bugs at all stages of development. Pesticide and insecticide free.	AgriSense branded.
	14379	<b>Bed Bug Tape Roll</b> 50 metre roll of double-sided, glue coated, clear plastic sticky trap which acts as a barrier to the bed bugs. Low tack glue for fixing to surfaces and high tack side (AgriSense crawling insect glue) for insect catch.	Unprinted.

# Stored Product Moth trapping



## The Pest - Stored Product Moths

Moths are a serious pest in industries that require the long term storage of organic materials. Moth larvae can directly attack or damage through spoilage of many cereal based foods, confectionary such as chocolate, fabrics such as clothing and tapestries, or dried leaf materials such as tobacco. They are responsible for the largest number of customer complaints regarding cereal foods and cause considerable economic damage.





## Stored Product Moth Monitoring Traps

Monitoring is the major element in protecting produce and materials against the pests that occur. Pheromone lure traps use the insects' own sex attractant against them. Pheromones are the natural chemical messengers emitted by females to attract males. By copying these compounds and combining them with controlled release technology, Suterra produces lures to attract male moths into traps from which they cannot escape.








## Tips and Techniques in Moth Trapping

- Pheromone monitoring is a vital part of any integrated pest management programme. Suterra understands this and provides a full range of traps and attractants to make the PCO's job easier.
  - For large areas, semi-permanent traps can be placed 10-20m apart at easily inspected heights.
  - Use larger numbers of Disposable Delta Traps and SP Locator traps to quickly locate infestation sources to exact pallets or containers. These can then be removed quickly, thus preventing further investigation and reducing the need for treatment.
  - Keep records. This will create a knowledge base to help you treat problems quickly and effectively.
  - Moths mainly fly at night, meaning it can take time for an infestation to be noticed. Pheromone trapping works 24 hours a day and will show infestations quickly.
- Good hygiene, harbourage denial and quarantine of inbound stock are recommended. Examine packages to avoid bringing damaged goods and storage pests into stores.
- Check for the following signs of infestation: larvae in food packaging, unsightly webbing, cast skins and frass (faecal pellets)
- Ventilate the storage area to discourage moisture-loving pests. Susceptible materials stored for six months or more, especially during the hot summer months, can cause serious infestations.
- Place some traps outdoors in food production areas, especially around bins.
- Dispose of heavily infested foods in strong, wrapped, plastic bags or sealed containers for disposal.
- Be sure to carefully examine foods in the least disturbed storage areas. Inspect unopened cardboard boxes since pests can chew into these boxes and plastic inserts.
- There may be multiple generations per year in some locations. The life cycle depends on temperature so a year round monitoring programme is essential.
- Suterra's unique black stripe products increase attraction and are proven to increase catch by up to 15%.

## Traps for Stored Product Moths

PRODUCT	CODE	DESCRIPTION	OPTIONS
	16999	<b>Easiset Delta Trap</b> A large, plastic delta trap for semi-permanent monitoring over large areas and outdoors.	Can be used with a variety of moth pheromone lures.
	10086	<b>SP Locator</b> A small cardboard sticky trap suited for placement under and around pallets for final identification of the infestation source. Place up to 5m apart.	AgriSense branded.
	10097	<b>Black Stripe Funnel Trap</b> As a permanent trap it is the perfect tool for long term monitoring. Unique black stripe design proven to increase insect catch. Available with and without lures.	Available as kits with lures for Stored Product Moth (10103).
	10070	<b>Black Stripe Disposable Delta Trap</b> A cardboard sticky trap which assembles in to a delta shape. Unique black stripe design proven to increase insect catch. Available with and without lures.	Available as kits with lures for either Stored Product Moth (10077), Tobacco Moth (10078) or Clothes Moth (10089).

## Pheromone Lures

PRODUCT	CODE	DESCRIPTION
	10557	<b>Standard Stored Product Moth Lure (6 weeks)</b> For Stored Product Moths ( <i>Ephestia spp</i> & <i>Plodia interpunctella</i> )
	10474	<b>Standard Tobacco Moth Lure (6 weeks)</b> For Tobacco Moth ( <i>Ephestia elutella</i> )
	10578	<b>Standard Clothes Moth Lure (6 weeks)</b> For Clothes Moth ( <i>Tineola bisselliella</i> )
	10580	<b>Long Life Clothes Moth Lure (12 weeks)</b> For Clothes Moth ( <i>Tineola bisselliella</i> )
	10606	<b>Spectrum™ Blue Long Life Stored Product Moth Lure (12 weeks)</b> For Stored Product Moths ( <i>Ephestia spp</i> & <i>Plodia interpunctella</i> ) from January to March
	10607	<b>Spectrum™ Green Long Life Stored Product Moth Lure (12 weeks)</b> For Stored Product Moths ( <i>Ephestia spp</i> & <i>Plodia interpunctella</i> ) from April to June
	10608	<b>Spectrum™ Red Long Life Stored Product Moth Lure (12 weeks)</b> For Stored Product Moths ( <i>Ephestia spp</i> & <i>Plodia interpunctella</i> ) from July to September
	10609	<b>Spectrum™ Yellow Long Life Stored Product Moth Lure (12 weeks)</b> For Stored Product Moths ( <i>Ephestia spp</i> & <i>Plodia interpunctella</i> ) from October to December

All pheromone dispensers are produced to rigorous quality standards and packed in vapour-proof, sealed sachets with production date codes.

# Stored Product Beetle trapping



## The Pest - Stored Product Beetles

Beetles can be difficult pests to detect and can be found in many situations and products such as tobacco, fabric, grain and flour. The adults are fairly long lived and both adults and larvae need to feed, so both are responsible for damage. The adults' need to feed means they are less responsive to chemical attractants, which makes them more difficult to lure into traps than moths.

## Stored Product Beetle Monitoring Traps

Suterra's Beetle Traps make detection and treatment easy as they allow early detection and identification of the problem, help locate the source and provide population information. All of which enables the industry technicians to make better decisions about how best to deal with an infestation. That is why monitoring is the major element in protecting produce and material against pests.

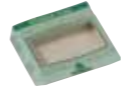

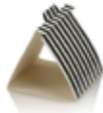
Because beetle pests are so varied and their habits are so different, a good understanding of their biology is essential in knowing how best to catch them. Appropriate use of different attractants and different traps based on this knowledge will provide more effective monitoring. Suterra provides a full range of traps and attractants for every situation whether it is textile storage, bulk grain or food storage, making choosing the appropriate combination easy.

The choice of attractant can be sex pheromone (emitted by females to attract males), aggregation pheromone (produced by either sex) or food lures.






## Tips and Techniques in Beetle Trapping

- Correct use of traps and regular monitoring will inspire customer confidence.
- Correct choice of trap and lure are key to success.
- Keeping records of catches helps build a knowledge of infestation and helps demonstrate to the customer the effectiveness of any service regime.
- Monitoring should be an important part of an integrated pest management programme.
- Good hygiene, harbourage denial and quarantine of inbound stock are recommended.
- Examine packages to avoid bringing damaged goods and storage pests in to stores.
- Ventilate the storage area to discourage moisture-loving pests. Susceptible materials stored for six months or more, especially during the hot summer months, can cause serious infestations.
- Careful sanitation is the best method to avoid stored product pests. Clean up all spillages as these pests can survive on a small amount of food.
- Locate the source of the infestation and quickly get rid of it. Dispose of heavily infested foods in strong, wrapped, plastic bags or in sealed containers for garbage disposal. If detection is made early it may be the only material infested. Be sure to carefully examine foods in the least disturbed storage areas. Inspect unopened cardboard boxes since pests can chew into these boxes and plastic inserts.

## Traps for Stored Product Beetles

PRODUCT	CODE	DESCRIPTION	OPTIONS
	10071	<b>AgriSense Window Trap</b> Highly effective for small beetles, with a window for easy inspection and roughened entry ramp for increased catch. Available with and without lures.	AgriSense branded. Available as kits with lures for Flour Beetle ( <i>Tribolium</i> Window Trap Kit <b>10069</b> ) and Carpet Beetle.
	10106	<b>AgriSense Pitfall Traps</b> Designed for detection and monitoring of beetle and weevil pests on and near the surface of stored grain, pulses and feedstuffs.	AgriSense branded. Use with the General Grain Beetle Attractant lure for increased efficacy.
	10070	<b>Black Stripe Disposable Delta Trap</b> A cardboard sticky trap which assembles in to a delta shape. Unique black stripe design proven to increase insect catch. Available with and without lures.	Available as kits with lures for Tobacco Beetle ( <i>Lasioderma</i> Trap Kit <b>10076</b> ).

## Pheromone Lures

PRODUCT	CODE	DESCRIPTION
	10543	<b>Standard Tobacco Beetle Dispenser (6 weeks)</b> For Tobacco Beetle ( <i>Lasioderma serricorne</i> )
	10542	<b>Standard Carpet Beetle Dispenser (6 weeks)</b> For Carpet Beetle ( <i>Attagenus spp</i> )
	10544	<b>Long Life Tobacco Beetle Dispenser (12 weeks)</b> For Tobacco Beetle ( <i>Lasioderma serricorne</i> )
	10546	<b>Long Life Flour Beetle Dispenser (12 weeks)</b> For Flour Beetle ( <i>Tribolium confusum</i> and <i>Tribolium castaneum</i> )
	10588	<b>General Grain Beetle Attractant Lure</b> For use in Pitfall Traps or in other sticky traps (cockroach traps and detectors). Formulated to attract the following beetles: - Flour Beetle ( <i>Tribolium confusum</i> and <i>Tribolium castaneum</i> ) - Weevils ( <i>Sitophilus oryzae</i> and <i>Sitophilus granarius</i> ) - Lesser Grain Borer ( <i>Rhizopertha dominica</i> ) - Grain Beetle ( <i>Oryzaephilus mercator</i> , <i>Oryzaephilus ferrugineus</i> , <i>Oryzaephilus pusillus</i> , <i>Oryzaephilus surinamensis</i> )

All pheromone dispensers are produced to rigorous quality standards and packed in vapour-proof, sealed sachets with production date codes.

# Wasp trapping



## The Pest - Wasps

The common wasp (*Vespula vulgaris*) and the German wasp (*Vespula germanica*) are ubiquitous throughout Europe, North America, Australia and New Zealand. Following the summer months, and at the onset of cooler weather, the wasp's attention moves to a carbohydrate food source. At this time the wasps are highly attracted to sugary foods and drinks which bring them in to direct contact with people.

## Wasp Monitoring Traps



Suterra understands the need for professional pest controllers to have an effective system to deal with wasps. That is why we have developed our Dome Trap and Disposable Wasp Bag Trap with liquid attractant system which has become the industry standard. The best method of avoiding problems with wasps is to treat the nest with an approved pesticide. However, Suterra's wasp traps are ideal for use in conjunction with such treatments as not all worker wasps may be reached, and the traps will help catch those not affected. If nests cannot be found or wasps are arriving from outside the area, traps can be used to distract wasps away from sensitive public spaces such as gardens, restaurants, outdoor eating areas, as well as where people work such as offices and food and drink factory environments.

The key to the performance is the liquid attractant which uses the wasp's requirement for sugary, carbohydrate foods against them. Throughout spring, worker wasps are busy preying on other insects to feed the developing grubs in the nest and can also be seen collecting nest-building materials. At this time of year they are rarely a pest as they are rarely noticed by people. The problem arises in late summer when the nest brood begins to decline and workers do not find their sugar reward from within the nest so are forced to go hunting for it elsewhere.



## Tips and Techniques in Wasp Trapping

- Place traps in shaded locations suspended from trees, posts or poles, as this will offer improved efficacy.
- If the nest location is known, situate the traps between the nest and places where they are considered a problem (such as patio areas) in order to intercept foraging wasps.
- Use AgriSense formulated Liquid Wasp Bait to give the most effective results.
- When treating wasp nests, do so at dusk or early morning when wasps are least active.
- Other traps are bulky, do not collapse into easily transportable kits, and some even recommend the use of beer, other sugary drinks and honey as an attractant. Selecting the professionally developed and tested AgriSense Liquid Wasp Bait will save time and money, but will also serve to deter beneficial insects such as bees, as the attractant contains a bee deterrent.
- Check and refill the AgriSense Liquid Wasp Bait regularly as high temperatures can cause evaporation. The liquid bait can be topped up with water for a period, but when attraction is seen to decline, replace it with fresh liquid bait.

## Traps for Wasps

PRODUCT	CODE	DESCRIPTION	OPTIONS
	10120	<b>Wasp Dome Trap</b> Industry standard wasp trap. Easy assembly, two-piece trap with bayonet fit allowing the bottom section to be easily removed so it can be filled and re-filled with AgriSense Liquid Wasp Bait as necessary. Robust and re-usable plastic trap designed for use outdoors.	AgriSense Liquid Wasp Bait sold separately. Each trap requires 250ml of Liquid Wasp Bait.
	16989	<b>Disposable Wasp Bag Trap</b> Highly effective, safe and easy to use trap, designed for use outdoors. Add AgriSense Liquid Wasp Bait to the trap and hang. Once the trap is full of dead wasps close screw cap and dispose in household waste.	AgriSense Liquid Wasp Bait sold separately. Each trap requires 500ml of Liquid Wasp Bait.

## AgriSense Liquid Wasp Bait - formulated with bee deterrent

PRODUCT	CODE	DESCRIPTION	OPTIONS
	10112	<b>1 Litre Liquid Wasp Bait</b> Specially formulated Liquid Bait. Attractive to wasps and also nuisance flies. Repellent to beneficial insects, so safe for bees.	Available in cartons of 4x1 Litre Bottles.
	16977	<b>5 Litre Liquid Wasp Bait</b> Specially formulated Liquid Bait. Attractive to wasps and also nuisance flies. Repellent to beneficial insects, so safe for bees. Supplied with pump dispenser for ease of use.	Available in cartons of 2x5 Litre Bottles.

# Fly trapping



## The Pest - Flies

Blue bottle and green bottle flies (*Calliphora*) are a serious pest of farms, stables, gardens and bin areas. The females lay their eggs where they feed, usually in decaying meat, garbage or faeces. When the larvae hatch from the eggs they immediately begin feeding on the decomposing matter located around the hatching area. More than just a nuisance, these flies are carriers of diseases in both humans and animals.

Fruit flies can be found almost anywhere indoors where fruit is allowed to rot and ferment. They will breed in and around ripened fruit and other food items, and are also known to breed in drains, empty cans and bottles. In ideal conditions their entire life cycle can be completed in about one week, but can take much longer if cooler conditions persist.

House flies are an ubiquitous problem around residential and industrial spaces, carrying filth as well as important disease causing organisms. The life cycle varies between species and climatic locations. In warmer areas flies are a problem all year round, whilst in cooler climates the problem is mostly prevalent during the warmer summer months.

### Disposable Fly Bag Traps

The Fly Bag traps are an effective way to lure blue bottle, green bottle and house flies away from sensitive outdoor areas with the specially formulated food grade attractant contained within a water soluble sachet. The flies are caught and trapped inside the bag which can be disposed of once full of flies.

### Fruit Fly Traps

Due to their small size it is practically impossible to exclude fruit flies from buildings. A small and discrete yellow plastic, ready-to-use trap with an attractive lemon shaped design, the Fruit Fly Trap contains a food based, non-pesticide attractant designed to attract and trap fruit flies in sensitive areas.

### Fly Rolls for FICS Machines

The Fly Rolls are designed as replacement parts for timed, self-winding, electronic FICS machines. The 13m long glue roll continuously winds through the machine at timed intervals to reveal fresh acetate for maximum catch of flying insects such as house flies and fruit flies.


### Fly Attractant Tablet

Containing a sex pheromone and a protein based food attractant, the Fly Attractant Tablet is designed for use on fly boards to increase their attraction to the common house fly.


### Tips and Techniques in Fly Trapping

- Add tap water to the Fly Bag trap, up to the fill level indicated on the side of the bag. The attractant will be released from the water-soluble sachet contained within. Keep water topped up to the fill level (don't allow the trap to dry out).
- A 5mm hole should be pierced through the cavity at the front of the Fruit Fly Trap, and the trap hung near to, or placed inside, the fruit bowl or other sensitive areas which fruit flies may be drawn to.
- When the Fly Rolls are fully wound they should be replaced.



## Traps for Blue/Green Bottle Flies

PRODUCT	CODE	DESCRIPTION
	17044	<b>Disposable Fly Bag</b> Effective, safe and easy to use trap, designed for use outdoors. Pre-baited trap containing water-soluble sachet of food grade attractant. Once the trap is full of dead flies close screw cap and dispose in household waste.

## Traps for Fruit Flies

PRODUCT	CODE	DESCRIPTION
	10108	<b>Fruit Fly Trap</b> Lemon shaped, small and discrete yellow plastic, ready-to-use trap. Food based, non-pesticide liquid attractant.

## Traps and Lures for House Flies

PRODUCT	CODE	DESCRIPTION
	10587	<b>Fly Attractant Tablet</b> Large tablet - 25mm diameter. Contains both the house fly sex pheromone and a protein based food attractant.
	10125	<b>Fly Roll for FICS Machine</b> 24mm diameter core. 13m glue roll with 10m glued area. Each roll individually boxed in mountings.



# Fly trapping



## The Pest - Flies

Whitefly and aphids are an important pest of greenhouses, gardens and house plants. They suck the sap from leaves and stems, often transmitting plant viruses in the process. Their honeydew secretions can also lead to sooty mould growth on leaves.

Sciarids or fungus gnats are primarily nuisance insects, although in high infestations larval feeding on roots can stunt plant growth.

There are special species of thrips in the world which can infest greenhouse, garden and house plants. Many feed on the leaves of plants but some will infest the flowers or affect fruits. Some of the species, including those that can be found in European and North American greenhouses, will transmit plant diseases.


## Yellow and Blue Sticky Traps and Rolls

Concern over the use of chemical insecticides in crops grown in greenhouses and plastic tunnels, as well as resistance problems amongst the pests themselves, has fuelled the search for alternative products that are compatible with the increasing use of predators, parasites, beneficial insects and pollinators. University research has demonstrated that certain insect pests are attracted to specific wavelengths of light within the yellow and blue spectra. Suterra has matched this spectral sensitivity in plastic traps coated with a user-friendly, no-mess, dry-touch glue. These traps are available in various sizes, either individually wrapped or in continuous rolls of a standard width and length. The glue is UV light stable, unaffected by water and has excellent properties enabling the retention of large numbers of insect pests.

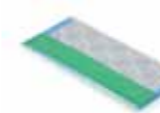
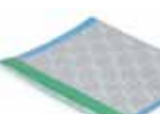


## Tips and Techniques in Fly Trapping

- After removal from the outer packaging, the cover papers should be removed exposing the sticky surfaces. The traps should be hung just above the crop using the green ties provided.
- The traps or rolls should be placed in the crop immediately after crop emergence or transplanting, before insect pest populations start to build up. Where sufficient traps are installed, the build up of pest levels may be greatly reduced, allowing a delay in the introduction of beneficials and a reduction in the total number of introductions.
- Since the traps emit no chemicals and rely on colour to attract pests, they may be left in place right up to harvest, giving protection throughout the season.
- The Maxi Rolls are coated both sides with glue and are best used hung horizontally above the crop, around the sides of the greenhouse or between rows. This minimises chance capture of predators or parasites.
- There are no species or crop varieties adversely affected by the use of Sticky Traps and Rolls. However, as their surfaces are coated with an aggressive glue, they should be kept clear of foliage and flowers and away from people and pets.

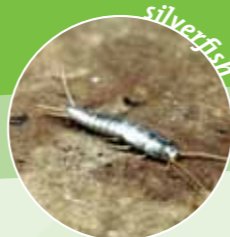
## Traps for Whitefly, Aphids and Sciarids

PRODUCT	CODE	DESCRIPTION	OPTIONS
	10285	<b>Medium Yellow Sticky Trap</b> 100mm x 245mm. One hole for green ties (supplied). Water resistant. Coated both sides with non-drying/non-drip insect glue.	AgriSense branded. Unprinted.
	10271	<b>Large Yellow Sticky Trap</b> 200mm x 245mm. Two holes for green ties (supplied). Water resistant. Coated both sides with non-drying/non-drip insect glue.	AgriSense branded. Unprinted.
	10268	<b>Extra Large Yellow Sticky Trap</b> 400mm x 245mm. Four holes for green ties (supplied). Water resistant. Coated both sides with non-drying/non-drip insect glue.	AgriSense branded. Unprinted.
	10157	<b>Maxi Roll - Yellow Sticky Trap</b> 245mm x 25m. Water resistant. Coated both sides with non-drying/ non-drip insect glue.	AgriSense branded. Unprinted.

## Traps for Thrips

PRODUCT	CODE	DESCRIPTION	OPTIONS
	10304	<b>Medium Blue Sticky Trap</b> 100mm x 245mm. One hole for green ties (supplied). Water resistant. Coated both sides with non-drying/non-drip insect glue.	AgriSense branded. Unprinted.
	10303	<b>Large Blue Sticky Trap</b> 200mm x 245mm. Two holes for green ties (supplied). Water resistant. Coated both sides with non-drying/non-drip insect glue.	AgriSense branded. Unprinted.
	10313	<b>Extra Large Blue Sticky Trap</b> 400mm x 245mm. Four holes for green ties (supplied). Water resistant. Coated both sides with non-drying/non-drip insect glue.	AgriSense branded. Unprinted.
	10168	<b>Maxi Roll - Blue Sticky Trap</b> 245mm x 25m. Water resistant. Coated both sides with non-drying/ non-drip insect glue.	AgriSense branded. Unprinted.

# Silverfish trapping



## The Pest - Silverfish

Silverfish are placed in the order *Thysanura* which is considered one of the most primitive of the living insect orders. There are three species considered common: the common silverfish, *Lepisma saccharina*, the grey or longtailed silverfish, *Ctenolepisma longicaudata*, and the fourlined silverfish, *Ctenolepisma lineata*. Silverfish are an increasing problem in potentially damp areas such as bathrooms, shower rooms and kitchens due to their preference for warm, humid environments. They multiply under carpets and other flooring materials and create damage and decay by eating starchy items such as wallpaper and wallpaper paste, as well as books and some fabrics.


## Silverfish Traps

The Silverfish Trap is a waterproof plastic trap coated on one side with the AgriSense proprietary dry-touch, no-mess, crawling insect glue. The trap is covered with a siliconised quick release paper and creased to assemble into a triangular shape. As well as silverfish, this trap will also catch other nuisance crawling insects such as woodlice which, despite their name, will do no damage to wood, structural timbers or furniture. Whilst the trap contains no attractant, it serves as an extremely reliable "blunder" trap for these invertebrates.

## Tips and Techniques in Silverfish Trapping

- Silverfish are found throughout the year depending upon temperature. They are active at night, hide during the day and avoid direct sunlight. Woodlice, however, are mostly present in winter and early spring.
- The traps should be folded along the creases and the cover paper removed. They should be folded into a triangular delta shape and the short length of peelable glue on the end of the trap used as a closure. Press down the glued end to seal the trap.
- Traps should be distributed throughout the area being monitored, with particular attention being paid to those areas most susceptible to infestation, for example damp, dark areas, alongside skirting boards or under furniture where dust can accumulate.
- Replace the trap after 6 weeks or when the sticky surface becomes saturated with dead insects or dust. Once this happens, fold shut and dispose of trap via standard waste disposal means.

## Traps for Silverfish and Crawling Insects

PRODUCT	CODE	DESCRIPTION	OPTIONS
	10386	<b>Silverfish/Crawling Insect Trap</b> Safe, effective and easy to use. Coated with dry-touch, no-mess glue. Extremely reliable "blunder" trap.	Unprinted.

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