



# Pheromone Chemicals

The name you can always trust

Mfrs: Pheromone Traps, Lures, Yellow sticky traps

STICK THEM BEFORE THEY SUCK YOUR CROP

## YELLOW STICKY TRAPS:

Small flying insect pests are attracted by the unique yellow color and stick to the non-drying glue coating the trap

Many insect pests are difficult to control with insecticides. By catching the winged adults with Yellow Sticky Traps before they reach the plants, the build up of pests will be delayed. Existing insect populations may also be reduced. If the problem is severe biological controls may be used.

Yellow sticky traps are a non toxic way to control and monitor –

- |                |                     |                       |            |
|----------------|---------------------|-----------------------|------------|
| 1. White flies | 6. Fruit flies      | 11. Moths             |            |
| 2. Aphids      | 7. Cucumber beetles | 12. Flea beetles      |            |
| 3. Jassids     | 8. Fungus gnats     | 13. Leaf miners       |            |
| 4. Thrips      | 9. Leaf hoppers     | 14. Cabbage butterfly | white etc. |
| 5. Onion fly   | 10. Frog hoppers    |                       |            |

As an integral part of integrated pest management program they can be used in commercial crops, greenhouses, homes, orchards, flower and vegetable gardens, anywhere insects are a problem.

## **Salient features**

The glue does not dry out and the traps will last until the surface area is completely covered with insects, even through rain.

They store indefinitely until you need them.

Non poisonous and weatherproof!

## HOW MANY TRAPS TO USE:

### **FOR GREEN /GLASS House**

Where the traps are to be used for pest suppression in glasshouses, as a guideline, use at least one trap per 25 sq. feet of greenhouse area. (e.g. two traps in a 6' x 8' greenhouse, three traps in an 8' x 10' greenhouse and five traps in an 8' x 12' greenhouse) increasing or decreasing the density in light of the severity of the problem.

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If the sole purpose is to monitor pest populations then traps can be used at a much lower density at ~ 1 trap per 100 to 1000 square meters depending on the crop and the size of the glasshouse.

## How to Use

Remove the protective cover paper from the traps. Suspend the traps just above the plants (25 to 30 cm zone) using the wire provided. Additional traps may be suspended near vents and doors to catch any insects flying from outside. Where plants are grown on benches, traps may be laid horizontally on the bench, removing the cover paper from the upper surface. Preferably they should be placed facing East - West direction.

## When to Use

Best results will be achieved if traps are introduced early in the season, before the pest is established. If adults are already present they should be disturbed by tapping the plants. Significant increases in pest capture are achieved, particularly of whiteflies.

## How long does it last?

The trap will stay sticky and attractive for several months. They should be changed sooner if more than half the surface is covered with insects or dust.

## Monitoring methods:

For Fungus Gnats Sticky Traps are most effective when placed horizontally on the potting media surface, although vertically positioned cards hung over the crop canopy are also effective and trap more of other types of insect pests as well. In greenhouses cards placed under the benches, close to intake vents, near doorways and outside the greenhouse can provide additional information to detect breeding areas.

Continuous monitoring (weekly) can provide the following information:

- 1) First detection of low populations
- 2) Population density increases or decreases over time
- 3) The level and length of suppression resulting from the implementation of suppression tactics.

## Add essential oils or other scents to attract specific pest

- Grapefruit oil (or shredded grapefruit peel) will attract fruit flies
- Rose oil (or rose petals!) will attract thrips
- Cinnamon oil, cypress oil, and rosemary oil will also attract thrips

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- Melissa oil will also attract thrips, fungus gnat, and biting insects like horse flies, deer flies and mosquitoes
- Lemon oil will attract whitefly and fungus gnat
- Clove oil will attract leaf miner
- Kumquat will also attract biting insects like horse flies, deer flies and mosquitoes

## RECOMMENDATIONS

### 1. CENTRAL INTEGRATED PEST MANAGEMENT CENTRE

**Yellow pan / sticky traps:** - Set up yellow pan / sticky traps for monitoring whitefly @ 25 yellow pans / sticky traps per ha.

### 2. CENTRAL INSTITUTE OF COTTON RESEARCH

Recommends 50 yellow sticky traps/ha

### 3. JNKVV, JABALPUR, MP

Set up yellow pan/sticky traps for monitoring whitefly @ 25 yellow pans/sticky traps/ha.

### 4. NATIONAL HORTICULTURE BOARD – POMEGRANATES

White flies can be trapped by hanging bright yellow sticky traps at the height of the crop canopy.

### 5. NATIONAL RESEARCH CENTRE FOR GRAPES – PUNE

Install 4-5 blue/yellow sticky colored traps per acre.

## ECONOMIC THRESHOLD LEVELS (ETL'S):

### DEPARTMENT OF AGRICULTURE, DIRECTORATE OF PLANT PROTECTION & STORAGE - GOI, - COTTON

Jassids	: 2 jassids or nymphs per leaf or appearance of second grade jassid injury. (Yellowing in the margins of the leaves) (15-20 jassids / plant in Groundnut)
Whitefly	: 5 – 10 nymphs or adults per leaf before 9 AM.
Aphids	: 10 % affected plants counted randomly.
Thrips	: 5 – 10 thrips / leaf

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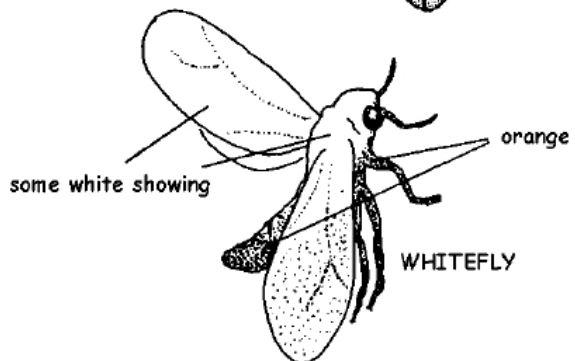
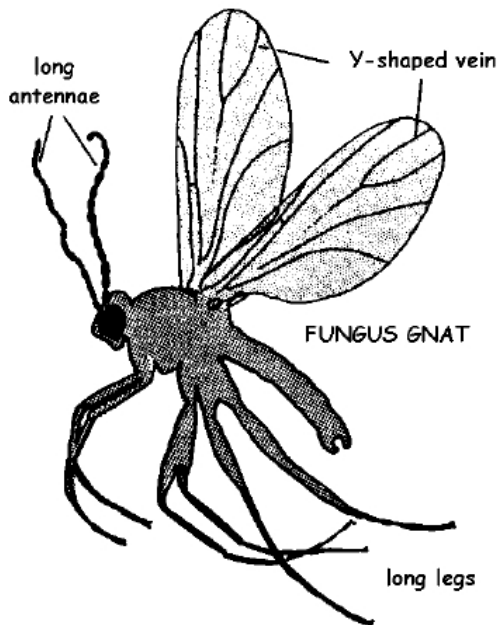
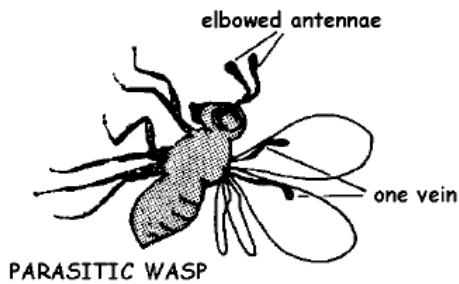
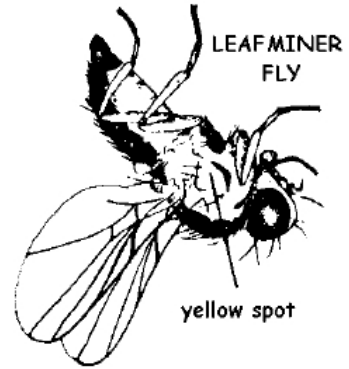
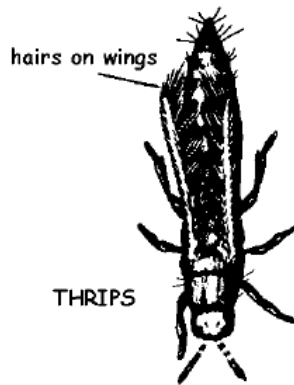
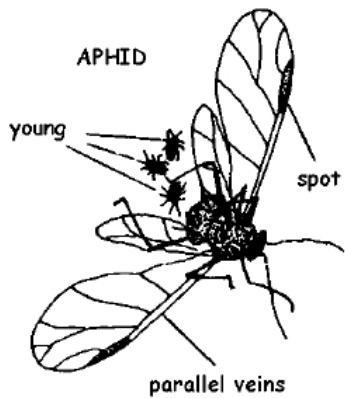
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## INSECTS FOUND ON STICKY TRAPS



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## Specifications for yellow sticky traps:

Base Material used	:	rigid PVC
GSM of base material	:	270gsm
Color	:	Yellow
GSM of release liner	:	90gsm
Glue coating gsm	:	38gsm
Glue type	:	Pressure sensitive hot melt adhesive
Glue coating size	:	110 x 254 mm on each side
Size of each trap	:	110 x 280 mm

Total surface area of each individual trap is 42 square inches.

Available with or without grid design for ease of counting

Always place trap in vertical position at 25 cm height above crop canopy or 30cms above ground level and east-west direction for catching more number of leafhoppers, whitefly and flower thrips.

## Advantages of our Traps

- Premium quality traps
- Easy to handle
- Proprietary No-mess water resistant glue
- Highly attractive to insect pests, less effect on pollinating insects
- Ideal early detection of pests
- IPM / NPM / Organic compatible

Please contact for further details

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