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# Preparation of yellow sticky trap and its benefits

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## INTRODUCTION

Colored sticky traps are utilized in many crops with the intention of mass catching and monitoring (Amutha, 2022). Many insects are found to favor a certain type of light wavelengths and that is why entomologists and scientists are involved in to create monitoring tools and defenses against numerous insect pests that take advantage of this behavior (Pinto-Zevallos and Vanninen, 2013). Yellow sticky traps (YSTs) are one such trap that are used for the insects such as White flies, leaf miners, and aphids on different crops such as Cotton, mustard, vegetables such as eggplant, cucumber and flowers (Anon, 2022). These trap helps in monitoring of pests which is a crucial component of integrated pest management (IPM) and can helps keeping insect populations below the economic injury level (EIL). Moreover, they offer quantifiable information on the growth of pest populations, which helps to assess the effectiveness of plant protection methods (Bockmann, Hommes, and Meyhofer, 2015).

## Benefits of YSTs

- No extra cost as there is no electricity is used for its operation
- Helps in reducing the use of pesticides and other destructive chemicals
- Installation is very simple and easy with no requirement of maintenance
- These are effective against a variety of sucking pests like whitefly, aphids, jassids etc.
- A very good tool for managing pests during seedling preparation for any crops
- Helps in early detection and monitoring of pest population at early stages
- Prevent pests from acting as a vector for other diseases such as thrips from causing disease of black spot, yellow vein mosaic, etc.

- The use of strong water insoluble adhesive/glue helps traps work even during rainfall and it can also be kept in outdoor conditions for longer duration.

### Material required

- Card board (1.5 ft. X 1.0 ft. size)
- Yellow colour Chart/oil paint
- Glue or white grease
- Wire or rope
- Bamboo poles (these are not compulsory).

### Flow chart of preparation steps of YSTs

Take a rectangle shaped new or used sheet of plywoodboard/hardboard cardboard

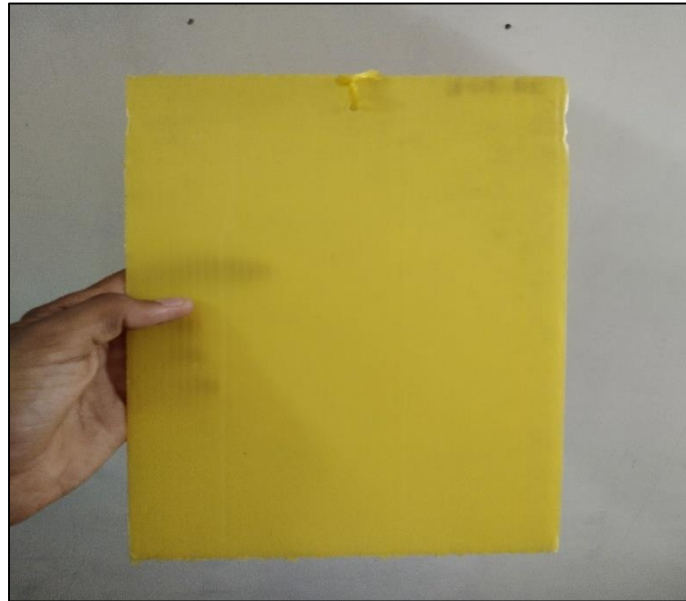
↓  
Paint it using Yellow colour oil paint

↓  
Allow it for drying

↓  
Put on some grease/glue on the yellow trap

↓  
Make a hole in center of the cardboard

↓  
Tie a rope to the cardboard and hang it in the greenhouse above the crop canopy with the help of bamboo poles.



**Figure 1:** Picture of Yellow Sticky Trap (YST) available in the market. These are easy to use and are cost effective alternatives for pest monitoring for control at greenhouse level.

## CONCLUSION

Yellow sticky traps (YSTs) have a very good potential to be used in the greenhouse to monitor and evaluate the pest's population. This way, pest management can be started at the Economic Injury Level (EIL) which can save the waste of money for the farmers and can also help them in utilizing the biocontrol agents at a more suitable time. The steps for making YSTs are very simple so the farmers can prepare and utilize these without and technical assistance.

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