Nearly every year the most damaging pest of pecan in Arkansas is the stink bug. Monitoring and management should begin when the pecans are in the water stage. Feeding in earlier stages can also cause damage, such as pecan drop and blackening of the kernel. Populations usually peak in mid to late June and mid to late August but can vary, which is why monitoring is very important to correctly time insecticide applications.

The plants surrounding your pecan orchard will influence stink bug populations. Stink bugs will favor feeding on the seed heads of grasses and weeds. These plants are very attractive to stink bugs, and they will stay in these areas and reproduce. When they have depleted this food source, stink bugs will move into your pecans. If you can limit the number of host plants around your orchard, it will help manage the population. Many growers will mow frequently or plant cover crops like clover, which are both great ways to help manage stink bug habitat to help decrease the population.

Surrounding crops will influence stink bug populations in your orchard, especially soybeans and other preferred row crops planted nearby. When these neighboring soybeans or other preferred crops are harvested, stink bugs will migrate into the pecan orchard in large numbers. It has also been noted that sometimes when adjacent fields of crops are sprayed (soybeans, etc.), adult stink bugs from those fields may move to another field or to your pecans. Keep open communication with your neighbors so you can be prepared to put out a spray during crop harvest if needed. Monitoring with pyramid traps can be very useful in these situations to stay ahead of this pest.

Pyramid traps can be used in numerous crops. They are hard to find ready to buy, so here are some instructions on how to make them and use them to monitor stink bugs in pecan.

**How to Construct a Homemade Stink Bug Trap**

**You will need:**
- Yellow or black corrugated plastic or plywood
- Plastic will last several years but will need to be well anchored or your trap may blow away.

![Figure 1. Yellow trap body sections with measurements and screen trap top with measurements.](image)
How to Construct (Figure 1):

- Cut off the two trap body sections from corrugated plastic or plywood according to the dimensions in the above picture.
- Cut a slit vertically in each trap body section so they fit together and form a pyramid (look at finished trap below for reference).
- Cut out two sections of screen for the upper portion of the trap according to the picture and staple the sides together, leaving the top and bottom portions open.
- Cut out two sections of screen for the inner ‘funnel’ portion of the trap, or cut one piece and fold it over, stapling it into a cone shape and leaving a hole at the top large enough for a stink bug to crawl through.
- Insert the cone portion of the mesh inside the upper portion and staple into place once centered.
- These dimensions are only guidelines, and small variations should be okay.
- When setting up traps in the field, attach the screen portion to the trap body with binder clips, clothespins or similar device on two sides.
- Roll down the top opening a couple of times and clip to close.
- Pound 4-foot-long rebar approximately 1 foot into the ground. Use four pieces to make a tight square and slip the trap into the rebar so that one side of the trap comes in between each piece of rebar. For maximum hold, attach the corners of the trap with wire to the rebar by punching a small hole in the plastic/wood of the trap base. This trap design has held up to wind quite well.

Using your stink bug traps:

- You want three traps on each side of the pecan orchard and three traps in the middle
- Traps should be at least 30 meters (approximately 100 feet) apart.
- Check the traps weekly, beginning at the water stage.
- We do not have a good economic injury level, but have found that if you are finding stink bugs in the traps then damage is occurring in the lower canopy.
- Our current recommendations are to spray when you begin finding stink bugs and continue to spray at 10-day intervals through dough stage if you continue finding stink bugs. Consult our MP144 for a list of products registered for stink bug management in pecans [https://www.uaex.edu/publications/pdf/mp144/d-pecan.pdf](https://www.uaex.edu/publications/pdf/mp144/d-pecan.pdf) or pick up an MP144 guide up for free at your local county extension office.

Commercial Trap Options:

- Commercial traps in the 4-foot size are available for purchase. These traps have a plastic jug-like trap top and are available from Dead-Inn Pyramid traps. They can be found here: [http://www.agbio-inc.com/dead-inn-pyramid-trap.html](http://www.agbio-inc.com/dead-inn-pyramid-trap.html) or call 303-469-9598.
- You can also purchase black pyramid trap bottoms at Great Lakes IPM and just make screen tops yourself. The trap bottoms can be found here: IPM [http://www.greatlakesipm.com](http://www.greatlakesipm.com) or call 800-235-0285.