**Starting clean:** Do not carry-over insects from one crop to another. Keep thrips numbers down to less than 10/card/week in the fall and winter on poinsettias and *Dracaena*. Avoid keeping houseplants or allowing weeds to grow in the greenhouse. When each batch of media arrives for a new crop, check it for fungus gnats by filling a 1 gal Zip-lock bag 1/2-full with moist soil. If fungus gnat adults emerge within 3 weeks, consider applying a fungus gnat treatment at planting time. Check incoming plant material carefully. If insects are found treat them with an appropriate product listed below to start as clean as possible.

**Scouting:** Monitor thrips and whiteflies with yellow sticky cards. Change cards once per week. Use at least one card per house or one per 2,000 ft². Check the first plants to flower for thrips. For spider mites and aphids, check susceptible plants like marigold (mites) and pepper (aphids), weekly. Potato wedges can be stuck in soil and checked 24 hours later for fungus gnat larvae.

**Systemic insecticides:** Use Marathon, Tristar, Flagship, Safari, or Aria in poinsettia pots, lily pots, or in hanging baskets prone to problems with whiteflies, aphids, mealybugs or soft scales. Note: Aria does not work on silverleaf whitefly. But note that thrips and mites could still be a problem because these insecticides are not effective on mites and thrips may be resistant to them.

**Preventing outbreaks:** If yellow sticky cards or scouting indicates an increase in aphids, mites, thrips, fungus gnats or whiteflies, apply one of the following insecticide products once per week:

**Thrips:** Aria, AzaGuard, Axatin XL, Mesurol, Orthene 97, Overture, Pedestal, Pylon, Sanmite

**Aphids:** Aria, Azatin, Benefit, BotaniGard, Distance, Endeavor, Enstar II, Flagship, Kontos, Marathon, Ornazin, Orthene 97, Precision, Safari, Tristar

**Whiteflies:** Aria, Azatin, BotaniGard, Distance, Endeavor, Enstar, Kontos, Ornazin, Orthene 97, Pedestal (do not use on poinsettias), Precision, Safari, Sanmite, Talus, Judo.

For soil systemics- whiteflies are least likely to be resistant to Safari.

**Mites:** Akari, Avid, Floramite, Hexygon, Judo, Kontos, Ovation, ProMite, Pylon, Sanmite, Shuttle-O, Tetrasan,

**Broad mites:** Avid, Akari, Judo, Pylon, SanMite.

**Fungus gnats:** Azatin XL, Adept (not on poinsettias), Benefit, Distance, Marathon, Flagship, Tristar or Safari as a soil drench.

**Mealybugs:** Aria, Flagship, Orthene 97, Safari, Talus and Tristar.


*This information is for educational purposes only. Reference to commercial products or trade names does not imply endorsement by MSU Extension or bias against those not mentioned.*