

# Small Fruit Insect Management



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# Potato Leafhopper



Hardest on young plants, make sure plants get enough water and nutrients

# Two-Spotted Spider Mites



Problems worst during extended hot, dry weather  
Can reproduce VERY quickly



# Strawberry Clipper



Plants usually compensate and yield normally

# Tarnished Plant (Lygus) Bugs



Feeding can cause misshaped fruit  
Poor pollination can cause similar symptoms



# Matted Row



Favors slugs and sap beetles

# Slugs





# Slug



Straw mulch provides moist shelter and  
place to overwinter



# Slug Damage



Damage ripe fruit as well as leaves

# Slug Damage



Provide entry points for direct and  
secondary pests

Distinguished as primary problem by slime



# Sap Beetles



Strawberry

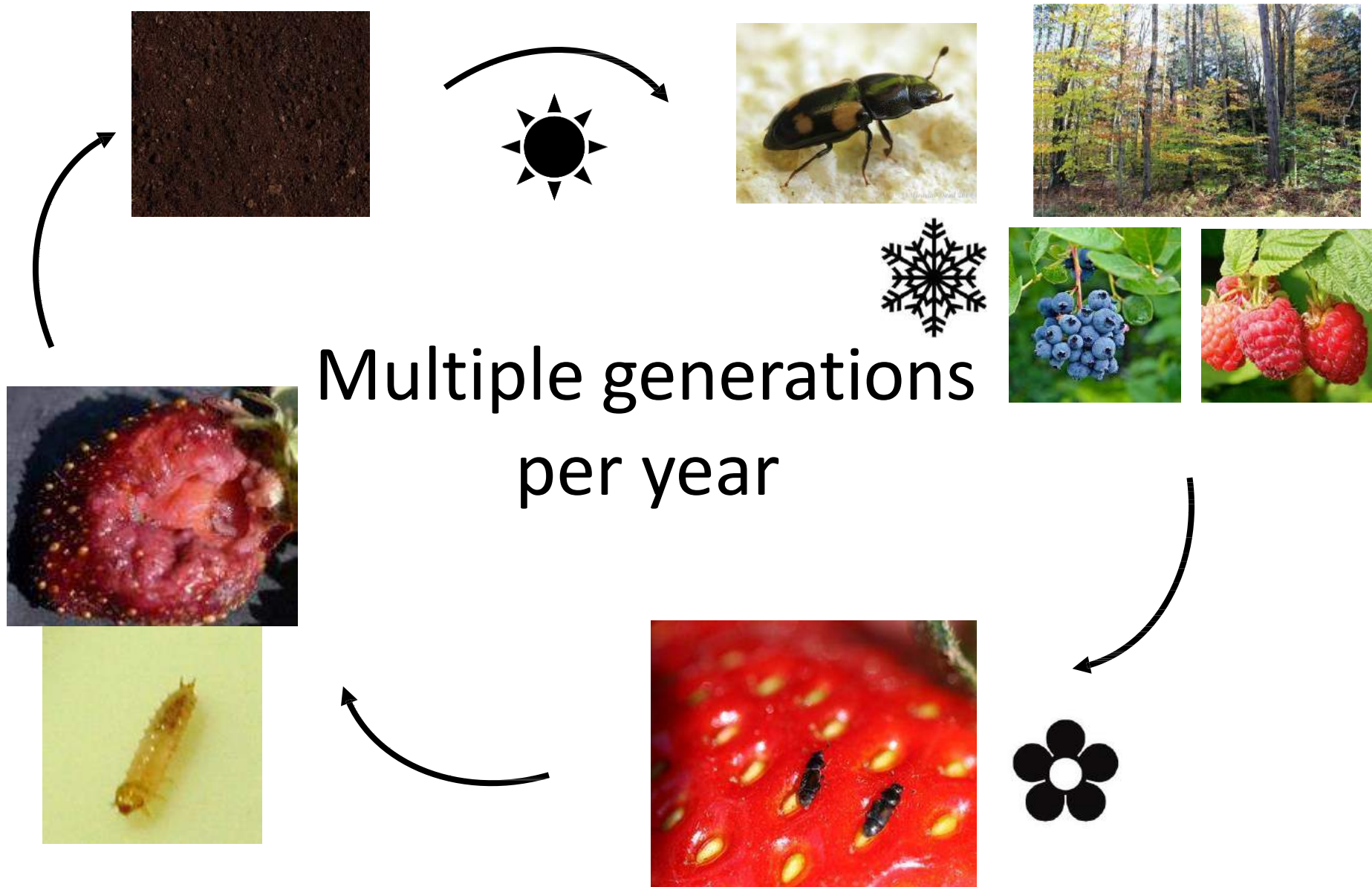


Dusky



Fourspotted

# Life Cycle





# Sap Beetle Damage



Adults and larvae directly feed in ripe to overripe fruit

# Sap Beetle Damage



Will also enter fruit that was already damaged



# Sap Beetle Damage



Can introduce pathogens

# Sanitation



Harvest frequently and keep  
plantings clean



# Cultural Management



Like to feed where  
fruit touches the  
ground

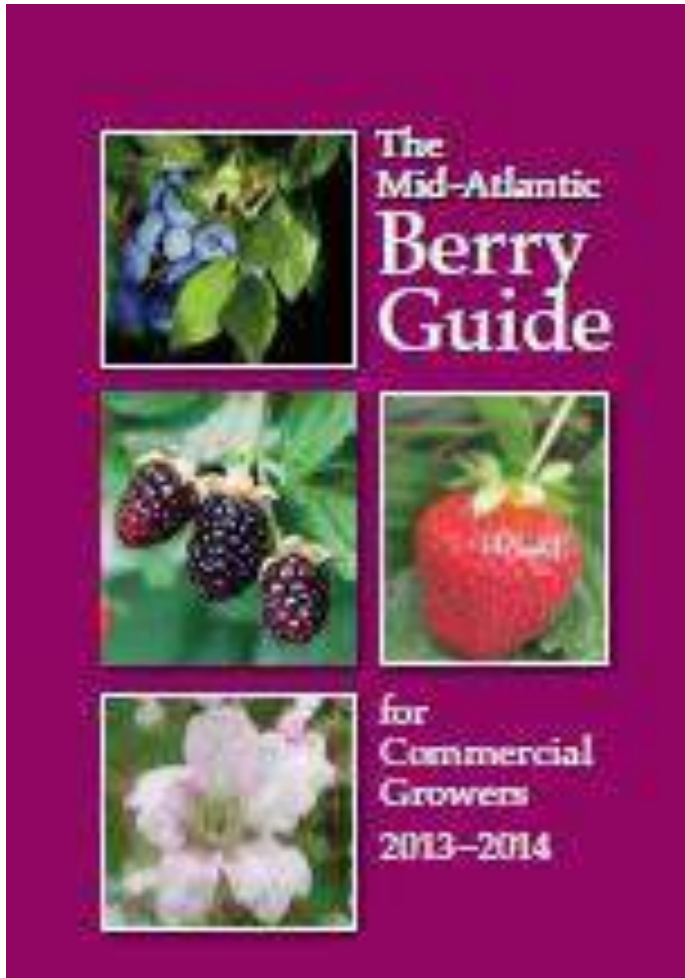
Heavy mulch layer  
encourages build up



# More Information

## Mid Atlantic Berry Guide

<https://extension.psu.edu/the-mid-atlantic-berry-guide-for-commercial-growers>



# More Information

Hambylab.weebly.com

Contact info, current  
research, news articles,  
fact sheets

## Spotted Wing Drosophila Monitoring and Management

Spotted wing drosophila (SWD), *Drosophila suzukii*, is an insect pest that continues to be a problem for growers of soft-skinned fruit such as blackberry, blueberry, cherry (sweet and tart), and raspberry (black and red). Unlike other vinegar fly species (*Drosophila* spp.) that lay their eggs in over-ripe, damaged, rotting, and fermenting fruit, SWD will attack undamaged fruit as it ripens.

Figure 1. SWD adult female (left) and male (right)



Adults are small flies about 1/16 to 1/8 inch long with red eyes and an amber colored body with black stripes on the abdomen (Figure 1). The male flies have a black spot towards the tip of each wing. The females do not have spots on the wings but they have a very prominent, saw-like ovipositor (egg laying structure), larger than other vinegar

flies. The female penetrates the skin of soft-skinned fruit laying the eggs just under the skin, leaving a small puncture on the fruit surface. Eggs hatch and larvae develop and feed and this damage can provide an entry site for other vinegar flies and secondary pathogens.

### SWD Has Wide Range of Host Plants

SWD hosts include many wild and cultivated fruit crops. In the mid-Atlantic region, wild relatives of common cultivated fruit [e.g. Allegheny (aka common) blackberry (*Rubus allegheniensis*), wild black raspberry (*Rubus occidentalis*), American red raspberry (*Rubus strigosus*), wild blueberry (*Vaccinium* spp.), wild cherry (*Prunus* spp.)] are present in the landscape surrounding fruit farms and may harbor SWD.

In addition to these close relatives of commercial hosts, SWD successfully develops on other wild, ornamental and non-crop fruiting plants in the landscape. Recent work in other regions has suggested that species of honeysuckle (*Lonicera* spp.) (abundant in many mid-Atlantic habitats)

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