

# Florida FFA Vegetable Judging Competition: A Study Guide<sup>1</sup>

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This guide links to articles about insects that are often used in the Florida FFA Vegetable Judging Competition. Click the name above each photo to learn more.

## Pests

### Aphids



Figure 1. Female adult green peach aphids, *Myzus persicae*, with immatures.  
Credits: USDA

### Banded Cucumber Beetle



Figure 2. Adult banded cucumber beetle, *Diabrotica balteata*.  
Credits: Jim Castner, UF/IFAS

### Bean Leafroller



Figure 3. Larva of the bean leafroller, *Urbanus proteus*.  
Credits: John L. Capinera, UF/IFAS

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## Cabbage Looper



Figure 4. Early instar larva of the cabbage looper, *Trichoplusia ni*.  
Credits: John L. Capinera, UF/IFAS

## Click Beetle



Figure 5. Adult click beetles: *Alaus myops*, left, and *Alaus oculatus*, right.  
Credits: M. C. Thomas, Division of Plant Industry

## Colorado Potato Beetle, Adult



Figure 6. Colorado potato beetles, *Leptinotarsa decemlineata*, feeding on foliage.  
Credits: David Cappaert, Michigan State University, [www.insectimages.org](http://www.insectimages.org)

## Colorado Potato Beetle, Larva



Figure 7. Larva of the Colorado potato beetle, *Leptinotarsa decemlineata*.  
Credits: UF/IFAS

## Corn Earworm



Figure 8. Larva of corn earworm, *Helicoverpa zea*. This is the light-colored or greenish form.  
Credits: John L. Capinera, UF/IFAS

## Cutworm



Figure 9. Side view of the larva of a black cutworm, *Agrotis ipsilon*.  
Credits: John L. Capinera, UF/IFAS



### Fall Armyworm



Figure 10. Larva of fall armyworm, *Spodoptera frugiperda*. Note the light-colored inverted "Y" on the front of its head.

Credits: John L. Capinera, UF/IFAS

### Field Cricket



Figure 11. Long-winged, adult male southeastern field cricket, *Gryllus rubens*.

Credits: Paul M. Choate, UF/IFAS

### Flea Beetle



Figure 12. An *Altica* sp. flea beetle feeding on *Cuphea hyssopifolia* (false heather) in Gainesville, Florida.

Credits: Lyle J. Buss, UF/IFAS

### Green Stink Bug



Figure 13. Adult green stink bugs, *Chinavia halaris*, on millet.

Credits: Russell F. Mizell III, UF/IFAS

### Harlequin Bug



Figure 14. Adult harlequin bug, *Murgantia histrionica*.

Credits: James Castner, UF/IFAS

### Imported Cabbageworm



Figure 15. Larva of imported cabbageworm, *Pieris rapae*.

Credits: John L. Capinera, UF/IFAS



### June Beetle



Figure 16. Adult green June beetle, *Cotinis nitida*.  
Credits: John L. Capinera, UF/IFAS

### Leaf-Footed Plant Bug



Figure 17. Adult leaf-footed bug, *Leptoglossus phyllopus*.  
Credits: John L. Capinera, UF/IFAS

### Leafhopper



Figure 18. An adult *Homalodisca vitripennis*, the glassy-winged sharpshooter.  
Credits: Chris Tipping, UF/IFAS

### Leafminer



Figure 19. Mines in squash leaf caused by *Liriomyza* leafminers.  
Credits: James Castner, UF/IFAS

### Lesser Cornstalk Borer



Figure 20. Mature larva of the lesser cornstalk borer, *Elasmopalpus lignosellus*.  
Credits: John L. Capinera, UF/IFAS

### Mexican Bean Beetle, Adult



Figure 21. Adult Mexican bean beetle, *Epilachna varivestis*.  
Credits: James Castner, UF/IFAS



### Mexican Bean Beetle, Larva



Figure 22. Larva of Mexican bean beetle, *Epilachna varivestis*.  
Credits: James Castner, UF/IFAS

### Mole Cricket



Figure 23. Adult tawny mole cricket, *Neoscapteriscus vicinus*.  
Credits: Paul M. Choate, UF/IFAS

### Pickleworm



Figure 24. Young pickleworm larva, *Diaphania nitidalis*.  
Credits: John L. Capinera, UF/IFAS

### Squash Bug



Figure 25. Adult (bottom) and nymph (top) squash bug, *Anasa tristis*.  
Credits: John L. Capinera, UF/IFAS

### Sweet Potato Weevil



Figure 26. Adult sweet potato weevil, *Cylas formicarius*.  
Credits: James Castner, UF/IFAS

### Tomato Hornworm



Figure 27. Last instar larva of the tomato hornworm, *Manduca quinquemaculata*.  
Credits: Paul M. Choate, UF/IFAS



## Twelve-Spotted Cucumber Beetle



Figure 28. The spotted cucumber beetle, *Diabrotica undecimpunctata howardi*.

Credits: James Castner, UF/IFAS

## White Grub



Figure 29. Typical white grub of the genus *Phyllophaga*.

Credits: John L. Capinera, UF/IFAS

## Wireworm



Figure 30. Larva of *Melanotus communis*, also known as a wireworm.

Credits: Lyle Buss, UF/IFAS

## Beneficials

### Earwig



Figure 31. Adult female European earwig, *Forficula auricularia*, with eggs and young.

Credits: Nabokov, en.wikipedia.org, Chester, United Kingdom

### Green Lynx Spider



Figure 32. Adult green lynx spider, *Peucetia viridans*.

Credits: UF/IFAS

### Ground Beetle



Figure 33. Adult *Calleida decora*, a ground beetle.

Credits: Lyle J. Buss, UF/IFAS



### Honey Bee



Figure 34. European honey bees, *Apis mellifera*, on a comb in a colony.  
Credits: Ashley N. Mortensen, UF/IFAS

### Lady Beetle



Figure 35. Adult *Coccinella septempunctata*, the seven-spotted lady beetle.  
Credits: James Castner, UF/IFAS

### Praying Mantis



Figure 36. Grizzled mantid, *Gonatista grisea* (Fabricius), nymph.  
Credits: Jeremy Cohen, University of South Florida

### Tachnid Fly



Figure 37. Tachnid fly *Ormia depleta* (Wiedemann), the Brazilian red-eyed fly.  
Credits: Lyle J. Buss, UF/IFAS

### Tiger Beetle



Figure 38. A tiger beetle, *Cicindela scutellaris unicolor*.  
Credits: Paul M. Choate, UF/IFAS

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