4-H Day Entomology Judging Contest

2023 Study Guide

Cicada

• Measures- .8 to 2"

 Certain cicada species called periodical cicadas spend most of their lives underground and only emerge once every decade or two





Types-

- Bush Cicada
- Dog Days Cicada
- Periodical Cicada
- Prairie Cicada

Spotted Cucumber Beetle



- Measures 3/16 to ¼"
- Cucumber beetles feed mainly on cucumber, cantaloupe, squash, pumpkin, gourd, and watermelon but may also feed on beans, corn, potatoes and other crops.



Green Lacewings

- 13 species in Kansas
- Around ¼" in length
- Adults feed on nectar, pollen, and honeydew, while the larvae are active predators of soft-bodied insect pests: aphids, thrips, whiteflies, leafhoppers, spider mites and mealybugs



Dobsonfly

- Measures 2-4"
- The larvae are aquatic, living in streams, and the adults are often found along streams as well.







Painted Lady Butterfly

Wing Span is 1 and 3/4"

Butterflies pass through the 4 stagesegg, larva, pupa, and adult. This process is complete metamorphosis.





Tomato Hornworm Moth

- Wingspan is 4-5"
- Large numbers of caterpillars can occur in home gardens and can quickly defoliate plants.





Whitelined Sphinx

Wingspan is 2.5 to 3.5"





Scorpion

- Scorpions in Kansas are not deadly. Their sting is much like a bee.
- 1/8"



Grasshopper

Types-

- Lubber Grasshopper
- Obscure Grasshopper
- Boopedon Grasshopper
- Snakeweed Grasshopper
- Measure 2-5"





Monarch Butterfly

- Wingspan is 3.5-4"
- Butterflies form chrysalises

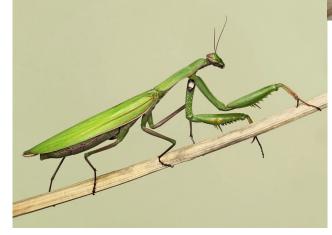




Praying Mantis

Types:

- Robust Prairie Mantid
- Slender Prairie Mantid
- Carolina Mantid
- Chinese Mantid
- Measure 2-5"
- Praying Mantids are consider friends to farmers and work well as a natural form of pest control, by eating other insects.





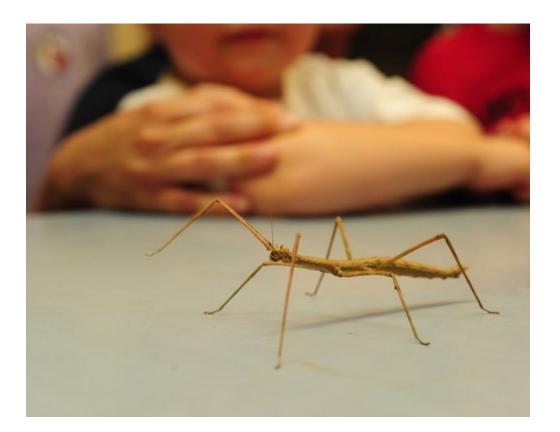


Egg Case (Carolina Mantid)

Walking Stick



Measures 1-12"



Cicada Killer



• Measures 2"



Cricket

Types-

- Field Cricket
- House Cricket
- Crickets and all true insect have 6 legs.







Stonefly

- .25 to 2.5 inches
- Larvae are aquatic insects



Stonefly Nymph



Asparagus Beetle





- Measures ¼" long
- Insects use their antennae to- hear and smell, find and taste food, and feel surfaces

Katydid



- . 5 to 2.5 inches
- Also called bush crickets



Bagworm



- ¾ to 1" when mature
- Highly destructive to evergreen trees



Green June Beetle



The green June beetle on a fig leaf.

¾ to 1" long



Photo by J. R. Baker

Blister Beetle



- 3/8 to 1" long
- Most adults feed only on flower parts, but some eat leaves as well.



Ailanthus Webworm





Moth measures ½" long

Bed Bug



4-7mm in length



Bumble Bee

- 10-20mm in length
- Honeybees and bumblebees are social insects that live in colonies





Elm Leaf Beetle

About ¼" long



The elm leaf beetle.

Photo by Joseph Berger, Bugwood.org

Mud Dauber

Types-

- Blue Mud Dauber
- Black and Yellow Mud Dauber

Measures- 7/8- 1" long



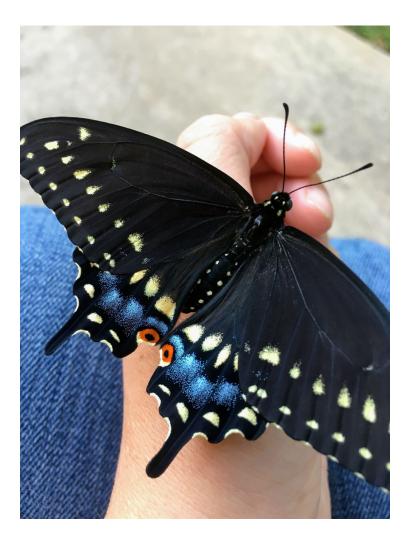


Courtesy of the National Pest Management Association / Tom Myers

Black Swallowtail

• Wing span is 3"

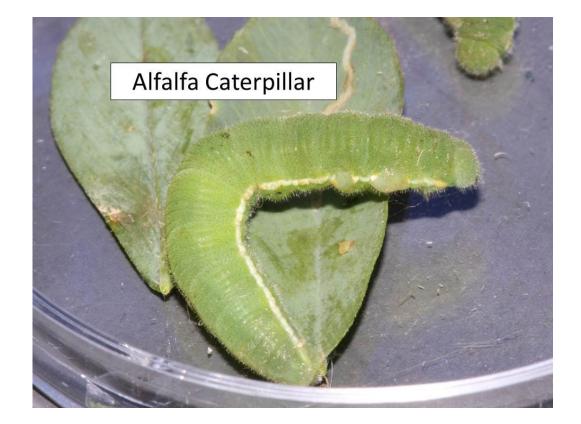




Alfalfa Caterpillar Moth

- Wing span is 2-2 1/2"
- Moths form cocoons





Painted Hickory Borer

- 7/8-1" long
- Females lay their eggs in severely weakened hickory trees. They do little damage to the tree



Goldenrod Soldier Beetle

- Size is about 1/2"
- They spend their time in the soil, where they are predators of other insects, eating grasshopper eggs, small caterpillars and other softbodied insects.



The goldenrod soldier beetle on goldenrod.

Photo by David Cappaert, Bugwood.org

Asian Lady Beetle

- ¼" long
- Usually 9 spots on wing covers

