Scarab beetle adults

**European chafer**
- Length – 0.5-0.55”
- Translucent elytra
- Lt. yellow band of hairs behind pronotum

**Japanese beetle**
- Length – 0.3-0.4”
- Metallic green and copper
- Alternating black/white

**Oriental beetle**
- Length – 0.4”
- Pronotum green or brown
- Banding on elytra

**Asiatic garden beetle**
- Length – 0.3-0.45”
- Spine rows on ventral abdomen segments

**Black turfgrass ataenius**
- Length – 0.2”
- Brwn-black
- Broad clypeus

**Northern masked chafer**
- Length – 0.4-0.46”
- Dark brwn head/light brwn clypeus

**May/June beetle**
- Length – 0.4-1”
- Varying size and color
- Toothed tarsal claw

**Green June beetle**
- Length – ¾ - 1”
- Metallic green-tan
- Light lateral color band
white grubs

http://grubid.cals.cornell.edu

European chafer

Japanese beetle

Oriental beetle

Asiatic garden beetle

Black turfgrass ataenius

Northern masked chafer

May/June beetle

Green June beetle

0.75”
Crane flies

European Crane fly

Tipula oleracea
- 13 antennal segments
- gap width

Native Crane fly

Tipula paludosa
- 14 antennal segments
Weevils

Annual bluegrass weevil

Bluegrass billbug

0.75”
Hairy chinch bug

- Stylet mouth
- Wings make x-pattern
- Head narrow compared to rest of body

Ants

*Lasius neoniger*

- Gold-brown ants
- 1/10”
- Crown of hairs on end of abdomen
- Pedicel broad, plate-like
Larvae

**Lepidoptera** (caterpillars)
- distinct head capsule
- true legs
- prolegs

**Coleoptera**
- white grubs
- distinct head capsule
- Distinct legs or none
- No prolegs
- C-shaped or straight
- weevils

**Diptera** (crane fly)
- no distinct head capsule
- no legs
- Often with lobes and spiracles on terminal abdominal segment

**Coleoptera**
- white grubs
- weevils

**Annual bluegrass weevil** – 0.15”

**Bluegrass billbug** – 0.3”
moths

Black cutworm
- dagger-shaped marking

Fall armyworm
- white wing markings

Sod webworm
- labial palpi (snout)
- gold/silver wing marking
caterpillars

Black cutworm
- paired dorsal/lateral spiracles
- rough textured skin
- often curl up on side
- 1-1.7”

Fall armyworm
- prominent lateral stripes
- four spots – posterior
- ~1”

Sod webworm
- 1/3-1”
- Green-gray-brown
- Most spp. with dark dorsal spots
Predators

**ground beetle**
- fast moving
- variable in size and color
- lateral ridge on venter of pronotum

**big eyed bug**
- true bug (like chinch bug)
- stout with wide-set eyes

**rove beetle**
- elytra (wing coverings) truncated
- long body form
- often found in soil

**histerid beetle**
- aka “clown beetle”
- clubbed antennae
- round