Largeheaded Grasshopper
*Phoetaliotes nebrascensis*

Facts
- Prefers tall grasses.
- Feeds on grasses by climbing plants and consuming blades.
- Begins to hatch in early June.
- Egg laying location variable.

Adult Identification
- Body light gray.
- Body length: male - 0.7 inch, female - 0.8 inch.
- Head rounded and large compared to body.
- Has a body spur between the front legs.
- Usually has short wings.
- Upper part of hind legs has a brown stripe.
- Lower part of hind legs is blue.

Nymph Identification
- Body light gray.
- Side of pronotum (plate behind head) has a dark stripe near top.
- Body length of 4th instar nymph: 0.4 inch.
- Head rounded with black stripe behind eyes that continues across the upper pronotum.
- Narrow pale yellow crescent on head below eyes that continues across pronotum.
- Upper part of hind legs has a lengthwise broken black stripe.
- Lower part of hind legs is blue-green or reddish.

Migratory Grasshopper
*Melanoplus sanguinipes*

Facts
- More of a concern on depleted or weedy rangeland.
- Will migrate in mass to new feeding areas.
- Feeds on grasses and forbs by climbing on plants and consuming blades.
- Begins to hatch in mid-May.
- Lays eggs in soil at the base of grasses.

Adult Identification
- Body tan or gray, black stripe with light spots on head behind eyes that continues and widens across part of the upper pronotum (plate behind head).
- Body length: male - 0.9 inch, female - 1.0 inch.
- Has a body spur between the front legs.
- Lower part of hind legs is blue-green or reddish.

Nymph Identification
- Body tan or gray.
- Body length of 4th instar nymph: 0.4 inch.
- Head rounded with black stripe behind eyes that continues across the upper pronotum.
- Narrow pale yellow crescent on head below eyes that continues across pronotum.
- Upper part of hind legs has a lengthwise broken black stripe.
- Lower part of hind legs is blue-green or reddish.

Biology and Management
Many kinds of summer-feeding grasshoppers are found in Nebraska rangeland and pastures. Of these, the six species listed in this guide are most likely to be numerous during outbreak years. These species overwinter as eggs and hatch through much of May and June. When abundant, they can cause severe damage to rangeland and pastures, especially when dry conditions limit grass growth. Identification of the species present is important because some have greater potential for damage than others. Identification of the nymphal development stage is important because control efforts are most effective when targeted at the 3rd and 4th instar stages.

Nymph Development

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Whitewhiskered Grasshopper  
*Ageneotettix deorum*  
**Facts**  
- Spends much of its time on the ground.  
- Feeds on grasses and sedges by climbing plants and clipping blades which fall to the ground unconsumed.  
- Begins to hatch in early May.  
- Lays eggs among grass roots.  

**Adult Identification**  
- Body slender, tan and gray.  
- Body length: male - 0.7 inch, female - 0.9 inch.  
- Forewings have dark spots.  
- Top of pronotum (plate behind the head) has a light colored “X” pattern.  
- Upper part of hind legs has two black bars.  
- Lower part of hind legs is medium blue.  

**Nymph Identification**  
- Body black on side with light tan on top.  
- Head slightly slant-faced, black with light tan patch below eye.  
- Body length of 4th instar nymph: 0.4 inch.  
- White antennae.  
- Upper part of hind legs mottled dark.

Bigheaded Grasshopper  
*Aulocara elliotti*  
**Facts**  
- Spends much of its time on the ground.  
- Feeds on grasses and sedges by climbing plants and consuming blades and cutting them off.  
- Begins to hatch in early May.  
- Lays eggs in bare soil.  

**Adult Identification**  
- Body robust, grey with dark brown areas.  
- Body length: male - 0.7 inch, female - 0.9 inch.  
- Head relatively large and slightly slant-faced.  
- Forewings have dark spots.  
- Top of pronotum (plate behind the head) has a light colored “X” pattern.  
- Upper part of hind legs has three brown bands.  
- Lower part of hind legs is medium blue.  

**Nymph Identification**  
- Body drab gray and tan with dark brown areas.  
- Body length of 4th instar nymph: 0.5 inch.  
- Head slightly slant-faced.  
- Top of pronotum has light colored “X” pattern.  
- Upper part of hind legs has two dark bars and four to seven dark spots.

Striped Grasshopper  
*Amphitornus coloradus*  
**Facts**  
- Rarely becomes a dominant species.  
- Feeds on grasses and sedges by climbing plants and consuming blades and cutting them off.  
- Begins to hatch in early May.  
- Lays eggs in soil at the base of grasses or sedges.  

**Adult Identification**  
- Body slender, cream-colored with brown stripes.  
- Body length: male - 0.75 inch, female - 0.9 inch.  
- Head slant-faced, top with brown stripes divided by a cream-colored stripe that extends down the pronotum (plate behind the head).  
- Upper part of hind legs has three brown bands.  
- Lower part of hind legs is pale blue.  

**Nymph Identification**  
- Body cream colored with brown stripes.  
- Body length of 4th instar nymph: 0.5 inch.  
- Head slant-faced, top with brown stripes divided by a cream-colored stripe that extends down the body.  
- Upper part of hind legs has a lengthwise brown band.

Spottedwinged Grasshopper  
*Cordillacris occipitalis*  
**Facts**  
- Particular problem in rangeland with sandy loam soils.  
- Feeds on grasses by climbing plants and consuming blades.  
- Begins to hatch in early May.  
- Lays eggs in bare soil.  

**Adult Identification**  
- Body slender, tan and gray.  
- Body length: male - 0.7 inch, female - 0.9 inch.  
- Head slant-faced with a brown stripe on the sides.  
- Forewings spotted brown with ivory stripe near base.  

**Nymph Identification**  
- Body tan with brown side stripes from eye to abdomen.  
- Body length of 4th instar nymph: 0.4 inch.  
- Head slant-faced.  
- Upper part of hind legs has a lengthwise brown stripe.