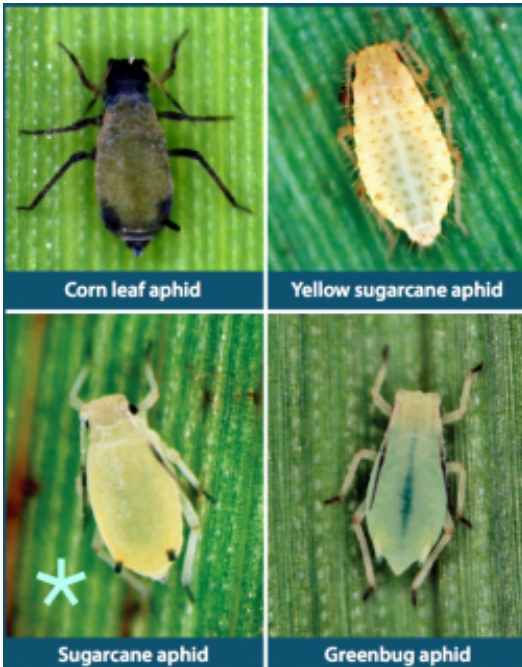


Scouting Sugarcane Aphids

Brian McCornack, Sarah Zukoff, J.P. Michaud & Jeff Whitworth
www.entomology.ksu.edu/extension

Adult Sugarcane Aphid (*)



Winged Adult



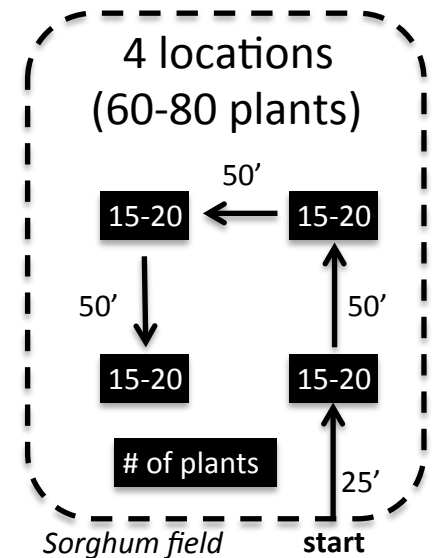
Information adapted from
NTO-043, Bowling et al. (2015) **TEXAS A&M**
AGRILIFE

Timing effective treatment to control *sugarcane aphids* (SCA) in sorghum depends on the size of the SCA population. To estimate the number of SCA in a field, follow these steps for scouting the field and use the **Sampling Protocol (below)** and % plants with honeydew (on back) to make treatment decisions.

First Detection: Is the Field at Risk?

Once a week, walk 25 feet into the field and examine plants along 50 feet of row (see right):

- If honeydew is present, look for SCA on the underside of a leaf above the honeydew.
- Inspect the underside of leaves from the upper and lower canopy from 15–20 plants per location.
- Sample each side of the field as well as sites near Johnsongrass and tall mutant plants.
- Check at least 4 locations per field for a total of 60–80 plants.



NOT Present?

If **no** SCA are present, or only a few wingless/winged aphids are on upper leaves, continue once-a-week scouting (**protocol above**).

or

Present?

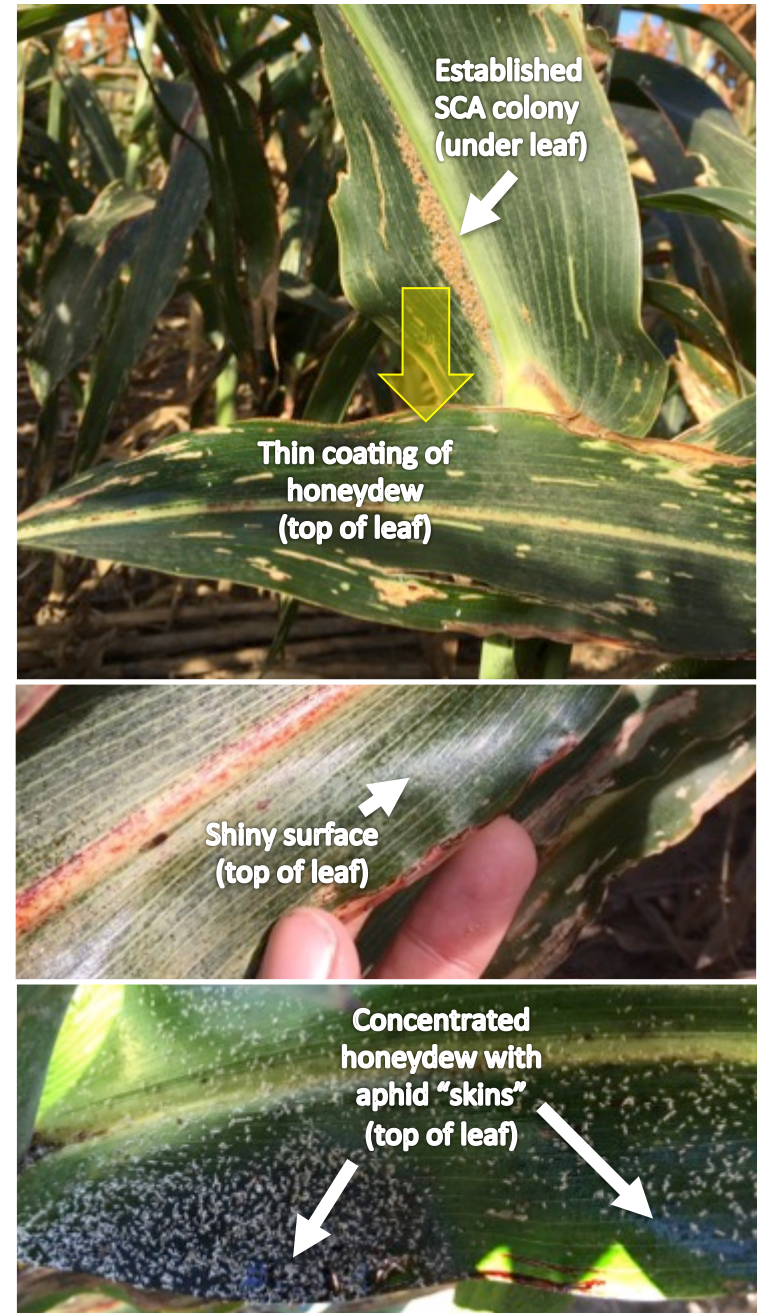
If SCA **are** found on lower or mid-canopy leaves, begin twice-a-week scouting. Use the Sampling Protocol (**above**) and % plants with honeydew (**on back**).

SCA Threshold by Growth Stage

Estimate the percentage (%) of infested plants with large amounts of sugarcane aphid (SCA) honeydew (see right) to help time foliar insecticides for SCA control on sorghum.

| Growth Stage | Threshold |
|--------------|--|
| Pre-Boot | 20% plants infested with localized area of heavy honeydew and established aphid colonies |
| Boot | 20% plants infested with localized area of heavy honeydew and established aphid colonies |
| Soft Dough | 30% plants infested with localized area of heavy honeydew and established aphid colonies |
| Dough | 30% plants infested with localized area of heavy honeydew and established aphid colonies |
| Black Layer | Heavy Honeydew and established aphid colonies in head *only treat to prevent harvest problems **observe Preharvest intervals |

Table courtesy of Angus Catchot at Mississippi State University



Learn more about sugarcane aphids at:
<http://myfields.info/pests/sugarcane-aphid>