CROP NOTES for August 10, 2018
Iowa State University Extension Information for Northeast Iowa
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SOYBEAN APHID UPDATE
What’s threshold?
How long do we scout?
What are treatment recommendations?

EVENTS
Aug. 7-27, Farmland Leasing Meetings; Many dates & locations across Iowa
Aug. 21-23, Iowa Drainage School, ISU Northeast Research Farm, Nashua
Aug. 28, Annie’s Project (Women’s Farm Management Program), New Hampton
Aug. 28-30, Farm Progress Show, Boone
Sept. 5, Annual Fall Field Day at the ISU Research Farm, Nashua
Sept. 6, Annual Fall Field Day at the ISU Research Farm, Crawfordsville
Sept. 6, Annual Fall Field Day at the ISU Northern Research Farm near Kanawha

SOYBEAN APHID UPDATE
We had basically no soybean aphid activity this season through July. In late-July through early August we identifies the typical migration of winged soybean aphid from the north (NE, N, NW) to start colonies in many of the soybean fields in NE Iowa. The aphid populations to the north were also quite low this season, but they have increased of late with SE MN reporting some fields above threshold being treated now. Late last week I found three fields in northeast Iowa that reach threshold based on Speed Scouting.

So, What’s threshold?, How long do we scout?, and What are treatment recommendations?

1) What’s threshold? Threshold up to R5.5 stage is 250 aphids/plant with 80% or more of the plants infested. Or, use Speed Scouting which is a quicker easier method of accessing >40 aphids/plant with a sequential scouting technique. Speed Scouting instructions can be found at: https://www.ent.iastate.edu/soybeanresearch/files/page/files/2009_speed_scouting_blank_form.pdf
Scout the latest planted fields first. These least mature fields are likely to be most attractive to the migrating aphids and favor their development. Scout the entire plant... all of the leaves, not just the upper leaves. Its easiest to just pull the plant out of the ground and turn it upside down to identify aphid numbers.

2) How long do we scout? Scout to R5.5 stage soybeans. R5 stage soybeans are defined as having seeds that are 1/8-inch long in the pod at one of the four uppermost nodes on the main stem with a fully developed leaf. From beginning R5 stage to beginning R6 stage is usually about 15 days. R6 stage has pods containing green seeds that fill the pod to capacity at one of the four uppermost nodes on the main stem with a fully developed leaf. R5.5 stage is often reached about mid-Aug, but could be earlier for earlier planted soybeans, and later for late planted soybeans. The University of MN suggests to scout to early R6 stage, although they admit that the 250 threshold would no longer apply by this stage. They point out that high aphid populations found at early R6 could be yield robbing and should be treated, however, regular scouting and timely application of insecticides
based on the threshold through the R5 growth stage should eliminate any difficult decisions with high populations found at R6 stage.

3) **Treatment recommendations.** Insecticide product recommendations are becoming more interesting as some soybean aphids in MN have shown resistance to pyrethroid insecticides such as bifenthrin and lambda-cyhalothrin. Information about soybean aphid resistance to insecticides as available at: [https://www.ag.ndsu.edu/publications/crops/management-of-insecticide-resistant-soybean-aphids](https://www.ag.ndsu.edu/publications/crops/management-of-insecticide-resistant-soybean-aphids). Apply full labeled rates of insecticides. Use label recommended nozzles to maintain pressure and volume to ensure good penetration and coverage of the soybean canopy.

**EVENTS**

**Aug. 7-27, Farmland Leasing Meetings, many dates & locations across Iowa**
Check the following website for dates, times and locations of upcoming meetings: [https://www.extension.iastate.edu/agdm/info/meetings.html](https://www.extension.iastate.edu/agdm/info/meetings.html)

Here is a list of most meetings in northeast Iowa:

- Aug. 13, 1:00 pm to 4:00 pm, Waterloo
- Aug. 14, 1:00 pm to 4:00 pm, New Hampton
- Aug. 15, 1:00 pm to 3:00 pm, Waukon
- Aug. 16, 9:00 am to 12:00 pm, Fayette
- Aug. 16, 1:30 pm to 3:30 pm, Cresco
- Aug. 21, 1:00 pm to 4:00 pm, Epworth
- Aug. 22, 6:00 pm to 9:00 pm, Cedar Rapids
- Aug. 23, 1:30 pm to 4:30 pm, Allison
- Aug. 23, 7:00 pm to 9:00 pm, Grundy Center
- Aug. 27, 1:00 pm to 4:00 pm, Monticello

**Aug. 21-23, Iowa Drainage School, ISU Northeast Research Farm, Nashua**
A 3-day program to train stakeholders in sub-surface drainage concepts, planning and laying out drainage systems including surveying a profile, laying out the system, calculating tile line sizes and spacing using actual field data, making connections, and setting up drainage control structures, NRCS program requirements, and fixing common drainage system issues. It is a combination of hands-on training, lecture and discussion, and problem solving using examples. For more details and registration, go to: [http://www.aep.iastate.edu/ids/](http://www.aep.iastate.edu/ids/)

**Aug. 28, Annie’s Project (“Women’s Farm Management Program”), New Hampton**
5:30 PM - 9:00 PM on Aug. 28, Sept. 4, 11, 18, 25, and Oct. 2. Annie’s Project is a six-week program intended to educate and empower farm women to be better business partners by managing and organizing critical information, improving decision-making skills, and networking with other farm women. The program starts on Aug. 28 in New Hampton at the ISU Extension office. The class meets for six consecutive evenings from 6:00 to 9:00 pm, with a light supper served at 5:30 pm. Registration is $75 for the 18-hour program and includes all materials as well as the light supper. Class size is limited to 25 women. For more information go to: [http://www.aep.iastate.edu/womeninag/2018/newhampton.html](http://www.aep.iastate.edu/womeninag/2018/newhampton.html), and/or contact Val Horner, 641-394-2174, email: vhorner@iastate.edu

**Aug. 28-30, Farm Progress Show, Boone**

**Sept. 5, Annual Fall Field Day at the ISU Northeast Research Farm near Nashua**
1:00 PM to 4:15 PM starting at the Borlaug Learning Center - ISU Research Farm near Nashua. We have four specialist to speak at the event starting at 1:00 pm with Steve Johnson:

- Steve Johnson, ISU Extension Farm Management Specialist, “What's in your crop marketing plan?”
- Dr. Antonio Mallarino, ISU Extension Soil Fertility Specialist, “Research updates on liming soils and the use of high rates of gypsum”
• Meaghan Anderson, ISU Extension Agronomist, “Herbicide resistance and herbicide injury issues in 2018”
• Dr. Daren Mueller, ISU Extension plant pathologist, “Managing corn and soybean crop diseases in 2018”

Free snacks and educational materials. CCA credits available. For more information please contact Brian Lang, bjlang@iastate.edu, 563-387-7058.

**Sept. 6, Annual Fall Field Day at the ISU Southeast Research Farm near Crawfordsville**
1:30 PM to 3:30 PM, details provided at: [https://www.extension.iastate.edu/Pages/eccrops/meetserc.html](https://www.extension.iastate.edu/Pages/eccrops/meetserc.html)

**Sept. 6, Annual Fall Field Day at the ISU Northern Research Farm near Kanawha**
9:30 to Noon. The focus of this field day will be on cover crops. We will discuss cover crop species selection, seeding rates, nematode impacts from cover crops, soil health benefits from cover crops, termination strategies, cover crop impacts on crop diseases and nitrogen management. Stay tuned for more details.

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