

IOWA STATE UNIVERSITY

Extension and Outreach

CROP NOTES for July 6, 2020

Iowa State University Extension Information for Northeast Iowa

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Past issues of Crop Notes are posted at:

<http://www.extension.iastate.edu/winneshiek/page/crop-notes-brian-lang>

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GROWTH & DEVELOPMENT

Corn

- After V10, corn develops a new leaf every 56 GDD. Our current weather (27 GDD/day) adds 3 leaves in a week. All ear shoots are initiated (around 8 to 10 of them), but the upper 2 ear shoots will dominate, and eventually the upper most ear shoot will dominate, forming at node 13 on the plant \pm a node.

- The potential number of kernels per row are still being determined and are not fully determined until about 1 week prior to silking (R1).

Soybeans

- R1 - 1st open flower on the main stem. This is the cutoff for application of dicamba in DT soybeans, and is the initial timing for some preventative White mold treatments. It takes about 4 to 5 days to get to R2.
- R2 - open flower on 1 of the 2 upper most nodes on the main stage with a fully developed leaf. The end of R2 is the cutoff for glyphosate application. It takes about 9 to 10 days to get to R3.
- R3 - has a 3/16-inch long pod at 1 of 4 uppermost nodes on the main stem with a fully developed leaf. A decision on whether or not to apply a foliar fungicide is usually made during this stage. It takes about 9 to 10 days to get to R4.
- R4 - has a 3/4-inch long pod at 1 of 4 uppermost nodes on the main stem with a fully developed leaf.

COVER CROPS

Cost Share Programs

There are a variety of cover crop cost share programs in Iowa with:

- IDALS
- EQIP
- CSP
- Water quality initiative projects
- Industry-based initiatives
- Crop insurance discount
- Seed corn crops

The following June 2020 fact sheet explains these programs:

<https://www.cfra.org/sites/default/files/publications/Cover%20crop%20cost-share%20IA%20fact%20sheet%20%281%29.pdf>

INSECTS

Japanese Beetles

The greatest threat is to ornamentals (roses, Linden trees, etc.) and garden crops (raspberries, green beans, etc.). On occasion into later July and August this insect has caused sufficient defoliation (>20% defoliation) along the outer rows of some soybean fields to warrant treatment. This is especially true south of Hwy 3 and with greater activity into east central Iowa. It's a very mobile insect so control with an insecticide application is often temporary.



Potato Leafhopper (PLH)

The current dry and warm weather is quite favorable for PLH. Continue scouting through August. Scouting and management tips are available at: <http://www.extension.iastate.edu/CropNews/2009/0615hodgson.htm> The only way to properly scout for PLH is with a 15-inch diameter sweep net.

Soybean Aphid

Our typical window for serious scouting of soybean aphid in northeast Iowa is mid-July through August. Speed scouting is the preferred method for scouting. It's simple and quick. A free scouting card with instructions is available at: https://www.ent.iastate.edu/soybeanresearch/files/page/files/2009_speed_scouting_blank_form.pdf

The current weather pattern of hot and dry is NOT favorable for soybean aphid growth and reproduction.

FYI, here's my aphids counts per week for 100 random plants in a local field near Decorah.

DATE	CROP STAGE	% INFESTATION	AVG. APHIDS/PLANT OF INFESTED PLANTS
JUNE 9	V1	1	1
JUNE 18	V3	6	21
JUNE 23*	V4	6	4
JUNE 30	V5	19	4
JULY 6	R1	31	5

*5 inches of rain that fell from June 19 through June 22. High rain events have been known to adversely affect aphid populations.

DISEASES

Septoria Brown Spot

It is very common to find Septoria brown spot in the lower canopy of soybeans, and that is often as far as it develops (photo 1). As long as it does not advance into the mid- to upper canopy, it does not warrant a foliar fungicide application. We can timely scout for this disease during R2-R3 soybeans to see if the disease is advancing up the canopy (photo 2). And not to be confused

with Bacterial blight (photo 3) which concentrates its activity in the upper canopy. Bacterial blight is not controlled by a fungicide application. Also important is that the current warm-dry weather pattern is unfavorable for foliar disease development.



Photo 1. Septoria brown spot in the lower canopy at V3. June 20, 2014.



Photo 2. Septoria brown spot advanced to mid-canopy in R2-R3. July 17, 2014.



Photo 3. Bacterial blight. Notice the yellow halos around the lesions which are not found with Septoria brown spot.

WEEDS

Herbicide Drift & Specialty Crop Growers

The North Central IPM Center created a fact sheet series on Herbicide-Drift Risk Management. Written for specialty crop growers, this series provides detailed information on steps a grower can take to prevent and prepare for drift damage, as well as tips on documenting and reacting to damage.

- Overview of Dicamba and 2,4-D Drift Issues
- Frequently Asked Questions
- Preparing for Drift Damage
- Responding to Drift Damage

Go to: <https://ipm-drift.cfaes.ohio-state.edu/dicamba-and-24-d-fact-sheet-series>

UPCOMING EVENTS

July 7, 14, 28, Aug. 4, Silage Beef Webinar Series

12:30 to 1:30 PM. Topics include:

- July 7, Silage production and the impacts of dry weather and limited water.
- July 14, Making silage under adverse conditions.
- July 28, Tips and tricks for silage pile construction.
- Aug. 4, Silage feeding and management for beef cattle in the current environment.

For more details and registration, go to: <https://www.extension.iastate.edu/news/silage-beef-webinar-series-begins-july-7>

July 9, 16 & 23, Iowa Swine Day 2020 Webinar Series

12:00 to 2:30 PM. Each webinar provides two presentations with online Q&A. The webinars are offered via Webex and can be accessed via any computer or mobile device with internet connection. The program is free but registration is required to receive connection information. Go to: <http://www.aep.iastate.edu/iowaswineday/>

Topics include:

- July 9, Topic 1 - Global status and trends of FADs – prevention, preparedness, and response. An update on ASF and foreign animal diseases. What about preventing them from getting here? Are we ready to respond? What do pork producers need to do? Topic 2 - Host genetic response to PRRS vaccination and infection in sows. We will cover novel and efficient strategies that allow for genetic selection for improved reproductive performance in PRRS-challenged sows.
- July 16, Topic 1 - 10 ways to reduce wean-to-finish mortality and how to implement them. Wean to finish mortality in challenging times becomes more important than ever. This presentation will give 10 simple steps to improve your grow finish mortality. Topic 2 - Dietary feed technologies to improve pig performance under stress.
- July 23, Topic 1 - How Iowa is preparing for a foreign animal disease. Share the work done by the Foreign Animal Disease Task Force at Iowa Pork Producers Association improving the preparedness of pork producers for a foreign animal disease outbreak like ASF. Share the next steps and some lessons learned from that COVID-19 Market

Disruptions that will exponentially improve preparedness for pork producers. Topic 2 - Experiences in COVID-19 diagnostics, and their direct application on the US Pork Industry.

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