

Crop Progress and Notes

This was a nice weekend with a poor ending. Severe storms rolled through Ida, Crawford and Carroll counties in the early morning hours of Monday. Other storms rolled through Sac and Calhoun counties on Sunday. There are early reports of up to softball size hail running a diagonal from Kiron to Manning and other reports of more than 10 inches of rain. On the second page I will have a repeat of the section on corn and soybean hail damage from last week's *Crop Connection*. In general, where hail and high winds have not been problematic, the corn and soybeans look good. Not much to mention for devastating levels of insects or high disease pressure. Although, there are some western bean cutworms, soybean aphids and bean leaf beetles present. There are also some diseases present in corn and soybean fields. My advice is to go out, scout and make treatment decisions based on what you see.

Western Bean Cutworms

Last week I got several calls regarding western bean cutworm (WBC). Traps sites in Monona, Ida and Sac counties are reporting single reports in the single digits except for a report around July 20th with 15 to 20 WBC moths. Marlin Rice, ISU entomology, reported from two black light traps located in Woodbury and Boone county as having very low WBC moth activity. Therefore, that indication would be that WBC should be a minor pest this year. Having said that, I have received a couple reports of WBC egg masses. The existing treatment threshold is when 8% of the plants have egg masses or young larvae.

Soybean Aphid Publications—NEW—Fresh Off the Press

Fresh out last week is a new publication, *Speed Scouting Soybean Aphids*; CSI 15. And new out yet today or tomorrow is *Soybean Aphid Management Field Guide 2008*; CSI 11. They can be viewed as a pdf at the [Iowa Soybean Association](#) webpage or purchased at [Extension's On-line Store](#). Later this week they may also be picked up at your local county Extension office.

Asian Soybean Rust Update

At the present time present risk of soybean rust in Iowa is low. There are no new reports in the southern states, except for Florida. Most counties in the panhandle of Florida have kudzu or soybean infected with soybean rust. Other states summarize their status as "no new reports of rust; hot and dry". Iowa's Soybean Rust Sentential plots are coming back with brown spot, frogeye leaf spot, *Cercospora* leaf blight and downy mildew. Most plots have low levels of brown spot and sporadic incidences of other diseases.

Northwest On-Farm Project Field Day Set for August 4th Near Larchwood

Evaluating root systems in a root pit, an update of NW Iowa on-farm projects and a discussion of corn growth and development will be the highlighted topics during the evening of August 4 at the Larry Warner farm near Larchwood in Lyon County. ISU Extension corn specialist, Roger Elmore, will be the keynote presenter, along with Joel DeJong, ISU Extension field agronomist, and Josh Sievers, NW Iowa on-farm research project coordinator. The program starts with a free supper for attendees at 5:30 pm, followed by the presentations in the field. The Warner farm where this field day will be held is 1 mile North of Lester, at the intersection of K-30 and 140th Street in Lyon County. For more info contact Josh Sievers, sieversj@iastate.edu.

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Serving; Calhoun,
Carroll, Crawford,
Greene, Ida,
Monona and
Sac counties.

Web pages to View:

- [Soybean Aphid Management Field Guide 2008](#)
- [Speed Scouting Soybean Aphids](#)
- [Soybean Aphid](#)
- [Field Extension Education Laboratory](#)
- [ICM News](#)
- [Sensitive Crops Directory](#)
- [Soybean Disease & Pest Management Field Guide](#)

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CCA CEU Opportunity Set for August 5th Near Otho

Certified crop advisers are invited to attend a field day near Otho, Iowa on August 5th (rain date of August 7th). The main focus of the program will be on soil and water management. The fee for the day is \$75. Lunch is included. Four soil and water and one crop management CCA credits have been approved for this field day. Presentations during the day include; strip tillage machinery and GPS technology; soil pits with a focus on how soils affect crop production; water quality practices; controlled drainage; Iowa Learning Farm tillage plot; view several different terraces and water management practice designs. More information is available at <http://www.extension.iastate.edu/wright/news/Aug5tour.htm>. Program information and registration information is also available from the Webster County Extension Office (fishera@iastate.edu) or from John Holmes (jdholmes@iastate.edu).

Assessing Hail Damage Yield Loss for Corn and Soybeans

Here are a couple tables to help assess hail damage to soybeans (Table 1 and 2) and corn (Table 3). The publications credited are not the most current, but the tables provide the best data to date for assessing hail damage yield losses.

Soybean hail damage yield loss has 3 components; 1) stand loss, 2) defoliation and 3) node loss. For each percent stand loss there is a proportional percent yield loss. Tables 1 and 2, below address the defoliation and node loss yield components. Adapted from *Soybean Yield Loss Due to Hail Damage*, NebGuide A-8, November 1985.

Table 1. Estimated percent yield loss due to soybean leaf defoliation for indeterminate varieties.

Growth Stage	Percent Leaf Area Destroyed			
	10	40	70	100
R1-R2	0	5	9	23
R3	2	6	14	33
R4	3	9	22	56
R5	4	13	31	75
R6	1	11	23	53

Table 2. Estimated percent yield loss due to nodes lost and broken over (number of nodes is expressed as percent of total nodes).

Growth Stage	Percent Nodes Cut Off				Percent Nodes Broken Over			
	5	25	45	65				
R1-R2	1	-	12	23	0	2	6	14
R2.5	2	10	18	32	1	6	11	20
R3	3	14	25	41	2	10	17	25
R3.5	4	19	35	53	2	13	23	33

Table 3. Estimated percent corn yield loss due to defoliation at various growth stages. Adapted from *Assessing Hail Damage to Corn*, National Corn Handbook, NCH-1, May 1985.

Growth Stage	Percent Leaf Area Destroyed				
	10	25	50	75	100
16 - leaf	1	4	18	36	61
Tasseled	3	9	31	62	100
Brown Silk	2	8	26	53	88
Blister	2	7	22	45	73
Milk	1	5	18	37	59
Soft Dough	1	2	12	26	41
Dent	0	0	7	16	24
Mature	0	0	0	0	0