

## **HEC Crop Monitoring Report 8/25/10**

**IT'S A GIRL! Barry Dickhoff is a proud father of Tenley Emma, born Tuesday, August 24<sup>th</sup>.**

### **Soybeans**

- All of the soybeans are at least in the R5 stage and many are in the R6 stage. Some of the earlier varieties or earlier planted soybeans have started to change color and dry down. It is time to stop spraying the soybeans for bugs at this time as any applications will likely not be economical.
- Over the last week we have had many questions about soybean staging. Staging a soybean plant during the reproductive stages is not really that easy. That is because the soybean varieties that we raise in our geography are indeterminate. According to NDSU, "Indeterminate varieties develop leaves and flowers simultaneously throughout a portion of their reproductive period, with one to three pods at the terminal apex". Basically that means that these varieties are growing vegetatively and reproductively at the same time. That means that the soybean plant will grow taller, put on more nodes, and keep flowering faster than the flowers/pods can mature at lower nodes on the plant. It is by analyzing the top 4 nodes that we are able to determine the current reproductive stage of the soybean. For example, when there is a pod 3/16inch long at one of the top 4 nodes, the soybean plant is in the full pod stage (R3). Soybeans are very sunlight sensitive and it is the change in daylight hours that determines when the plant should be changing staging. R5 stage is when, at one of the upper 4 nodes, there is a pod that has a seed that is at least 1/8" long. R6 stage is when, at one of the upper 4 nodes, there is a pod that has a green seed that completely fills the pod cavity. Below there is a link to a website that explains the different soybean stages of a plant.
- This is the method that we use to determine when we are past the point of spraying for soybean aphids:
  - Final spray decisions should be made at the R5 stage. At R6, it is really too late and the applications should have been at that point. However, we like to be little conservative on the staging. So rather than staging a strict R5 stage, check the top 4 nodes and make sure that you can feel a seed in the pod. It will not be quite filling the whole cavity, but is more substantial than the 1/8" seed size requirement of the R5 stage.
- [http://extension.agron.iastate.edu/soybean/production\\_growthstages.html](http://extension.agron.iastate.edu/soybean/production_growthstages.html)

### **Corn**

- The corn is denting to full dent. That means we are about 20 days away from maturity.

### **Sugarbeets**

- It is very important to stay on top of the cercospora spraying this year. Do not overextend the application period. Both the infection values and the level of infection in the field are higher this year than what we have seen in years past. It seems the worst of the infection is in the Moorhead district, but we still need to stay on top of this situation since we are not far away from them. Also, for the

grower that applied Headline end of last week through the beginning of this week, it is recommended that you scout for cercospora into the beginning of September and monitor the infection values at that time. If the hot, humid weather persists, and infection continues, another application may be warranted. Long story, short, it is recommended to stay on schedule for cercospora spraying, observe the Pre-Harvest Intervals, and scout your fields beginning of September.

## **Sugarbeet Fungicides**

### **Rate; Protection Interval; Pre-Harvest Interval**

<b>Product</b>	<b>Rate</b>	<b>Protection Interval</b>	<b>PHI</b>
Eminent 125 SL	13 oz	14 days	14 days
Inspire XT	7 oz	14 days	21 days
Proline 480 SC	5 oz	14 days	7 days
Headline	9 oz	14 days	7 days
Gem	7 oz	14 days	21 days
Super Tin 80 WP	5 oz	10-14 days	7 days
Super Tin 4L	8 oz	10-14 days	7 days
Agri Tin Flowable	5 oz	10-14 days	7 days

Source: American Crystal Sugar Company