

Matt & Rick's Scouting Report From Halstad 5/13/10

This weeks update has not changed that much. With the warmer weather coming, we expect to see the overall emergence of the corn and beets to be completed in this next week.

- **Ground Temperature**
 - NDAWN ground temperatures for Ada, MN are 48 degrees for bare soil and 47 degrees for turf (5/12/2010), which are down from 46 and 46 respectively one week ago.
 - These temperatures slowing any crop growth.
- **Moisture**
 - We have received 1.29 inches of rain at the NDAWN site in Ada in the last week, which has kept field work at a stand-still.
- **Crops**
 - Wheat is from emergence to two leaf stage, which is about where it was last week. The condition of the wheat is improving in relationship to wheel tracks and clumpy soil.
 - Some of the corn that was up last weekend has frost damage, but should be fine because the growing point is still below ground.
- **Weeds**
 - The weed situation so far has been low and we have mainly seen dandelions and volunteer wheat that was missed during tillage.

Adam & Sarah's Scouting Report From Hillsboro 5/13/10

Winter Wheat

The Winter Wheat crop is off to a great start. Stands are very good. There is not a lot of weeds out there at this time, but with the amount of moisture we've had look for that to change as it starts to warm up this weekend.

Frost Damage

There was no harm done to the sugarbeet stands with our recent frost. The corn did show some frost damage but will be alright as the growing point is still below ground.

Weather Conditions

- Another wet week is holding us up from getting our warm-season crops planted.
- Soil Temps have changed dramatically in the last couple of weeks. Here are some stats from the Hillsboro NDAWN station at Hillsboro for the time period of April 12th through May 12th.
 - The Maximum soil temperature at a 4" depth under bare, black soil was 61 degrees. This maximum temperature was recorded on two days during this time period. Those temperatures were recorded on April 22 and April 23rd.
 - The minimum soils temperature recorded at a 4" depth under bare, black soil was 43 degrees. That temperature was recorded on May 7th.
 - The maximum soil temperature at a 4" depth under turf was 52 degrees and that was recorded on April 14th.
 - The minimum soil temperature at a 4" depth under turf was 44 degrees and that temperature was recorded on the April 12th

Condition of the Corn

- With the soil temperatures changing we were a little concerned that it could be hard on the corn seed. There is a phenomena called corkscrewing that can effect the vigor and emergence of the corn. The coleoptile is driven to the soil surface by seeking warmer temperatures. If the temperatures end up being cooler as it grows up, the coleoptile gets confused and starts growing down, as the plant seeks warmer temperatures. This can really affect the vigor of the seed and has been known to cause replant situations.
- Good News... the corn that was not emerged was all in good condition. The seed was firm and healthy and the coleoptile was straight and growing towards the surface.
- The corn that was emerged over the weekend did sustain some frost damage. Any of the leaf surface above the soil had a brown/yellow appearance.



Corkscrew Corn. Picture from Purdue University

