

SHELBY COUNTY CROP TALK

May 8, 2020

Crop Scout:

Cool, wet weather has slowed crop progress over the past week. However, I have been seeing a lot of emerging crops. Most emerged crops were planted on or before 4-21. So far this season, we have accumulated roughly 220 GDUs. We are currently behind the previous three-year average in terms of GDU accumulation. I have some concern for corn planted Thursday. Friday's cold soils and cold rain swelling the seed could result in "corkscrew" shoots, loss of vigor or death for many seedlings. The picture to the right of a twisted corn coleoptile with this problem was taken Thursday. The shoot will never penetrate the soil surface.



Pests I have seen active in fields this week include grubs in corn and aphids in wheat. Make sure to check your fields and call me with any questions you have.

Frost:

Every year mother nature brings old and new challenges to agriculture. The past couple years seem to be chock-full of challenges. It seems that corn and soybeans are emerging from the ground just in time for a potential frost. The question I've been asked this week is "How susceptible to a frost are young plants?"

Susceptibility of each crop is dependent on the growth stage of the plant, the temperature, and the duration of the freeze. The location of a growing point is dependent on the crop. While corn may have leaves above ground, the growing point will be underground until about V5 or V6. A soybean plant's growing point will be above ground as soon as the plant emerges. Temps below 28 degrees for 1-2 hours can be fatal for soybeans. A couple of hours at these temps will cause the most damage to the plants. Soybeans will blacken or show water-soaked lesions on the cotyledons and stem. Corn plants will show dying brown leaves several hours after the event.



The leaves will turn brown then translucent. About 3-5 days after the frost event the corn plant should start pushing out new undamaged growth. When assessing plant damage, it is best to wait 3-5 days before making any management decisions. This gives the plants adequate time to recover if they are going to recover from the injury.



LOGAN KOLB

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Logan@greenecrop.com

(812) 550-7710

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The area's most at risk during the frost event are low lying areas, areas with high residue, and dry soils. Cold air settles into low lying areas so the low spots in the field will often experience the coldest temps. Areas of the field with residue cover will trap soil heat and not allow it to help prevent frost. A dry soil will change temps more easily and will provide less heat to the plant. No-tilled soybeans will likely be the most susceptible to frost damage.

Wheat, with an exposed growing point is also very much at risk.



Frost and Replant Resources:

- Soybean Replant Decision
 - <https://extension.umn.edu/soybean-planting/soybean-damage-and-replanting>
- Corn Replant Decision
 - <https://www.agry.purdue.edu/ext/corn/news/timeless/CornReplant.html>
- University Minnesota
 - <https://extension.umn.edu/corn-planting/corn-crop-damage-and-replant-options>
- Corny News Compendium
 - <https://www.agry.purdue.edu/ext/corn/news/timeless/FrostedCorn.html>

Crop Insurance Replant Coverage (by Nathan Bush):

When it comes to replant, be aware of how your policy works. Some 2020 replant rules within crop insurance are different than in the past. For multi-peril Revenue Protection (RP) and Yield Protection (YP) policies, the following apply:

20-20 Rule: You must have at least 20 acres of replant or 20% of a unit with replant to file a claim.

Self-Certification: For this year, the RMA has increased the acreage amount from 50 acres to 100 acres that a grower can self-certify. So, if you have less than 100 acres to replant, an adjuster would not need to verify the fields.

Coverage Amounts for 2020 season:

- Corn replant will pay \$31.04/acre (Projected Price of \$3.88 x 8 bushels)
- Soybean replant will pay \$27.51/acre (Projected Price of \$9.17 x 3 bushels)

Very Important! You **MUST contact your agent** to file the claim **BEFORE** replanting!



LOGAN KOLB

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Logan@greencrop.com

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