

Friday, June 17, 2022



AGRISOMPO

NORTH AMERICA

Presented by



**VIRTUAL
CROP TOUR**



2022

American Roots – Helping Farmers Grow

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Week 6 Brings the Heat

There is a great debate as to who invented modern air-conditioning. Most will give credit to Willis Carrier. Of course, we recognize this name as many of us have Carrier air-conditioners that keep us cool still today. Prior to Carrier's development, a gentleman by the name of John Gorrie patented the "cold air machine". Others credit Benjamin Franklin and researchers at Cambridge University as they used liquids to cool a thermometer to --25 degrees on a summer day. The discovery led Franklin to tell folks that you could freeze to death in July!

Week 6 brought our first widespread heat wave to much of the "American Roots" Virtual Crop Tour areas. Early in the week, forecasts hovered near 100 degrees for most 10-day periods. It is difficult not to hear the echoes of 2012, which was the last time we saw this type of widespread consistent heat.

While we will eventually need a break from these scorching temperatures, in "Toohill's Topic of the Week", you can see that ASNA agronomist, Mike Toohill, shares some optimism as to what this heat will bring most of the growing areas. Just two weeks ago, Mike offered his "perfect recipe" for June weather. For the most part, June is following his prescription that leads to better plant health. Hopefully, timely moisture and lower temperatures will prevail in July. The bottom-line remains...the crop does not appear to have taken any steps backward through most of our survey area in Week 6. I realize that is a challenging statement for the folks affected by the rain/hail in the NE/KS/IA corridor and in areas like the Carolinas, Ohio and Texas...we realize there are some areas that are suffering.

Benjamin Franklin's proclamation of freezing to death on a summer today might be a stretch. However, we should consider that technology has our crops prepared to withstand this peril better today than throughout history. We can also take comfort in knowing that in the event that heat persists, we have strong coverage through many of the policies provided by Agri-Sompo North America!

Stay cool out there!



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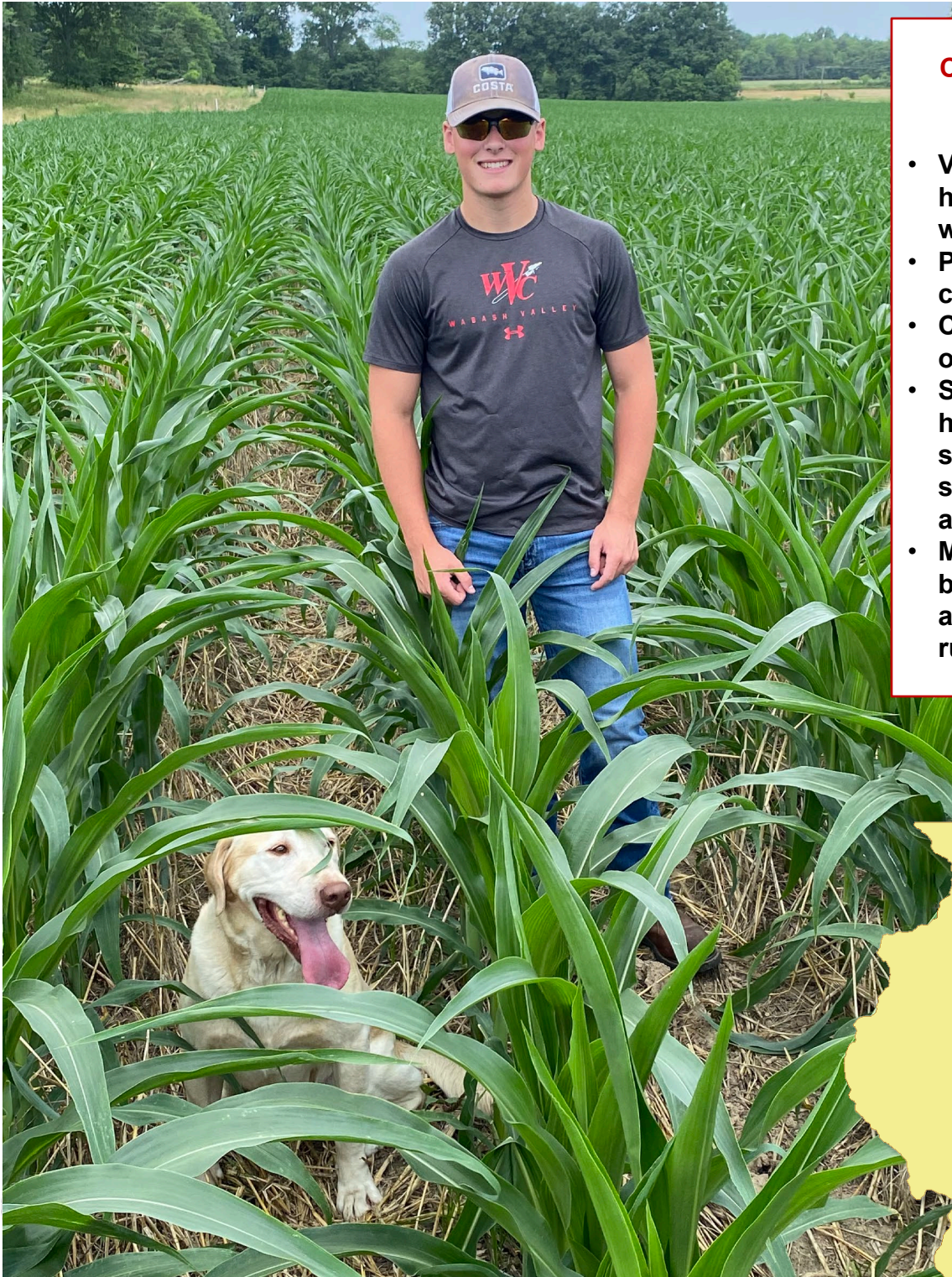
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Adam Hart
Hart, TX

- Irrigated Cotton pictured planted in wheat cover crop
- Irrigated stands look solid
- Dryland cotton is “hit or miss” ...some emerged, some waiting on moisture
- Very hot and windy conditions
- Rains are needed in most areas





Cal York & Beau Carmi, IL

- Very hot and humid early in the week
- Pictured is corn in cover crop
- Crops are an 8 out of 10 so far
- Soft Red Wheat harvest has started; yields slightly above-average
- Most nitrogen has been applied corn and sprayers are running non-stop



Illinois



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**Elliot Konschak
Henry Co, IA**

- It's too hot to drink coffee in Iowa!
Temps in high-90's
- Soybeans have grown with heat this week
- Adequate sub-soil moisture should sustain crops for a number of days despite heat
- Much too early to affect any pollination concerns in corn
- Crop looking good, but a break from heat would be good thing

Iowa



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South Carolina

Kelly Watford Horry County, SC

- Another “just in time” rain
- Non-irrigated corn has suffered to the point it almost zero yield
- Emerged cotton has fared well...withstanding heat/dry
- Some cotton acres switched to soybeans
- Peanuts (pictured) are doing well
- **NEED RAIN!!**





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Minnesota

**Red River Valley Insurance
Downer, MN**

- 90-95% planted in the region...just a challenge getting to that point!
- Hot temps have crops emerging 2-3 after planting!
- Everything is later than hoped, but looks good at this point
- Some Prevent Plant in the area



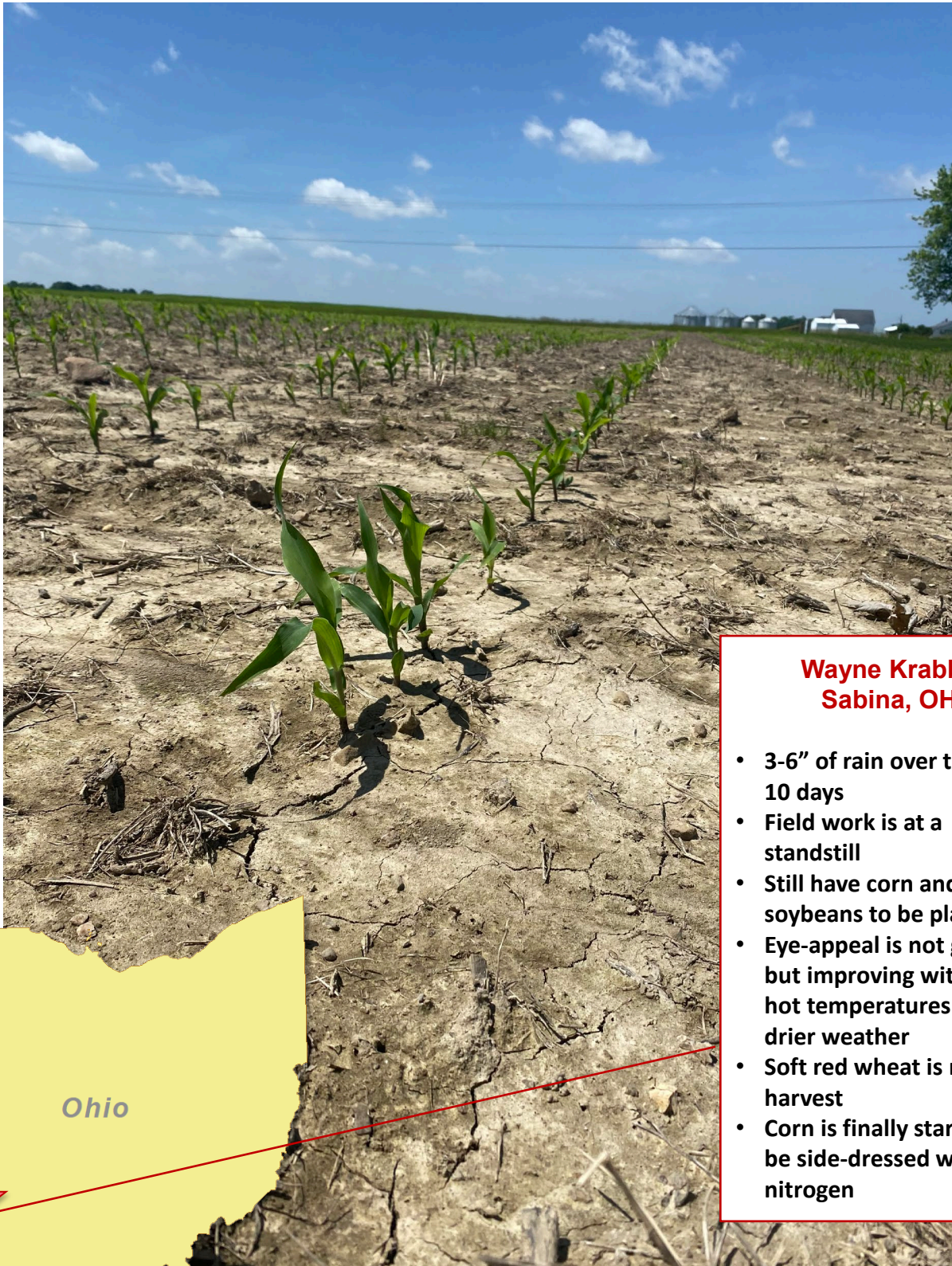
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**Wayne Krabbe
Sabina, OH**

- 3-6" of rain over the past 10 days
- Field work is at a standstill
- Still have corn and soybeans to be planted
- Eye-appeal is not good, but improving with these hot temperatures and drier weather
- Soft red wheat is nearing harvest
- Corn is finally starting to be side-dressed with nitrogen

Ohio



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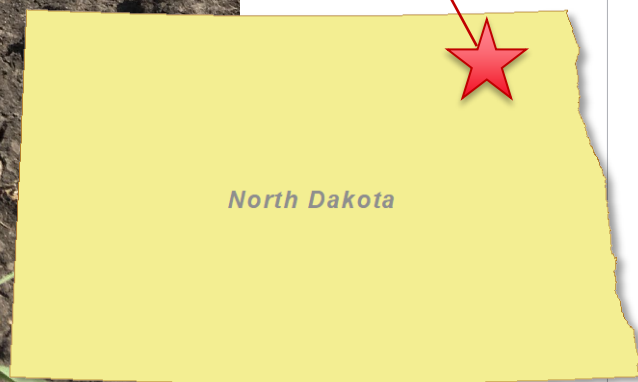


Minto Insurance Agency Minto, ND

- Pictured is corn planted on May 25
- Most farms will have some Prevent Plant acres in parts of fields
- Still planting soybeans, potatoes and canola
- A lot of our planting occurred in the first two weeks of June...our first June moisture came on the 13th



MINTO
INSURANCE AGENCY
Jason Flanders ♦ Devin Flanders



North Dakota



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Nebraska

**Jerod Dowell
Hastings, NE**

- Pictures show hail damage to corn field
- Despite some damage and re-planting from heavy rains and hail, overall the crop benefitted from the moisture
- Extremely high temperatures; too early to affect pollination, but will deplete moisture in a hurry





**Mike Carlson
Emmetsburg, IA**

- Very hot earlier in the week with some relief over the last couple of days
- Overall the crop seemed to take the heat well
- Soybeans had a growth spurt with hot conditions
- You can tell by looking at lawns that that rains are welcomed
- Still good yield potential



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HartLen Insurance Clyde, OH

- “Aunt Nellie” looks like she is shorter this week as the corn experienced major growth!
- Really behind normal growth pace in the region
- Lots of Prevent Planting Corn versus normal
- Too much rain for planting (even soybeans)
- Widespread struggle



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**Linda Hughes
Mayfield, KY**

- **Wheat harvest will begin and end in a short period time...early harvest results look like an above-average crop**
- **HOT over the last few days...corn rolling in lighter soils/compacted areas**
- **Normally corn would be close to pollination periods, but late planting has us behind (maybe a good thing with this heat)**
- **Double-crop beans are going into the ground with hopes of rain in the forecast to get them up**



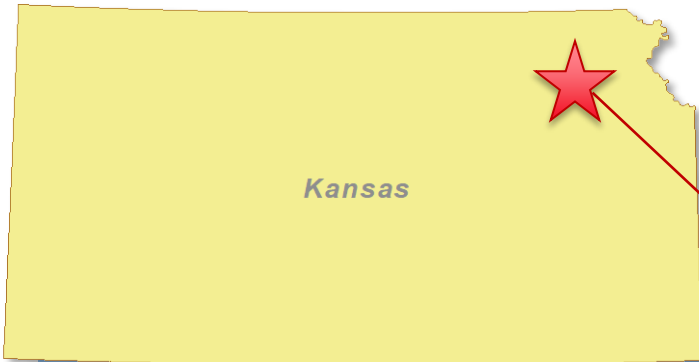
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Kansas



**Tim Strunk
Manhattan, KS**

- Big rains and hail affected much of the area over the last week
- Damage was severe in some areas (see corn field pictured)
- Farmers will need to re-plant some soybeans due to moisture
- We are in the final stages of soybean planting.
- A lot of hill ground benefited from the rains
- Heat has moved in and soon moisture will be needed...never a dull moment!

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**ASNA
EDGE**





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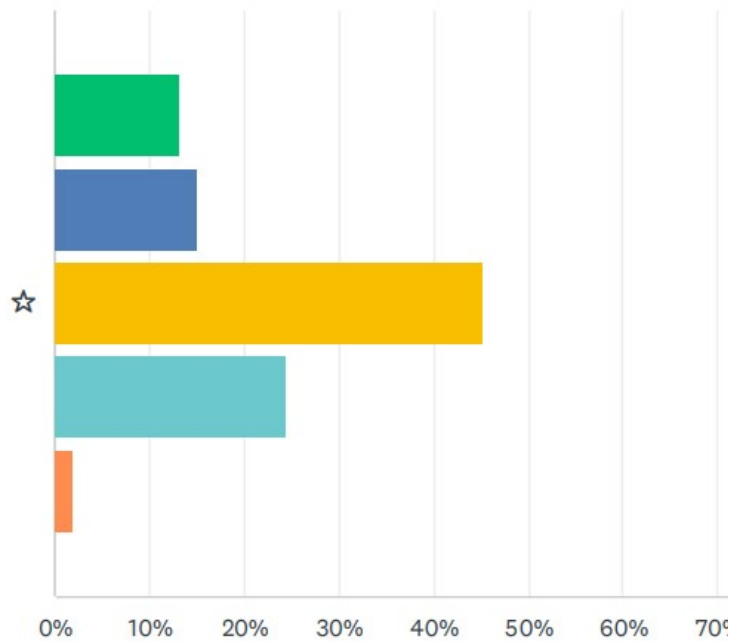
Mike Toohill
LeRoy, IL

- 100 degrees!
- Corn is rolling in some areas for protection
- Temperatures scheduled to subside over the weekend with excessive heat next week
- Soybean growth slow despite hot temperatures
- Herbicide application comprised most of the field work this week
- Looking good overall



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How do your overall stands and establishment look versus average at this point?

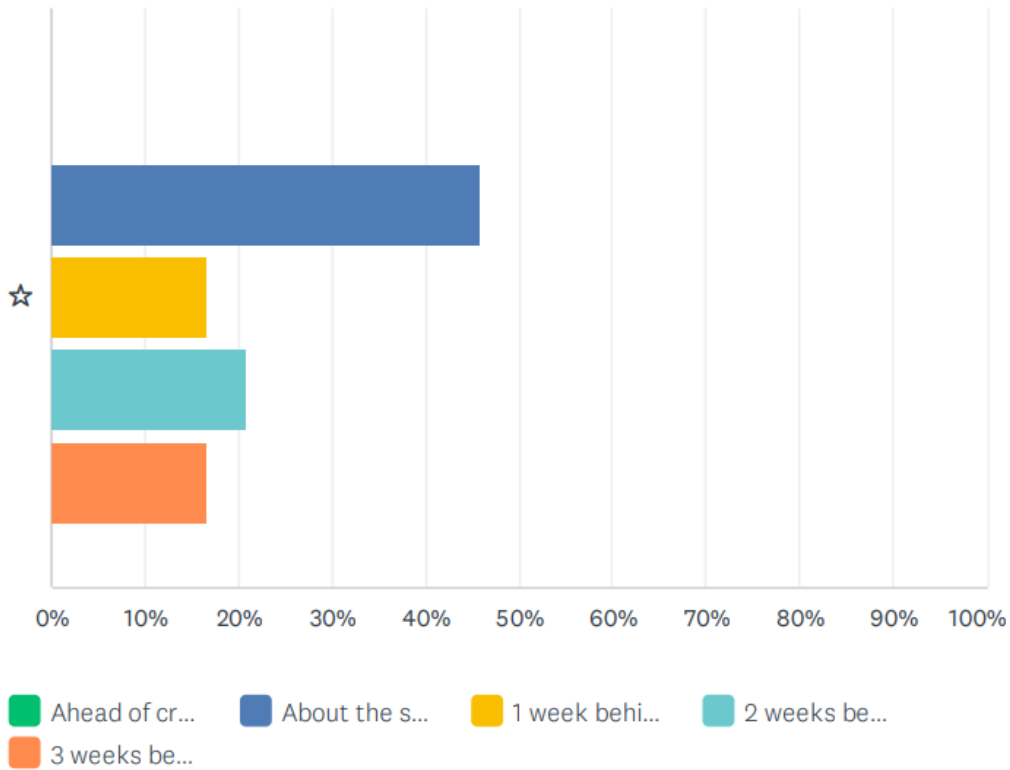


- Well below ...
- Slightly bel...
- Average
- Slightly abo...
- Well above ...



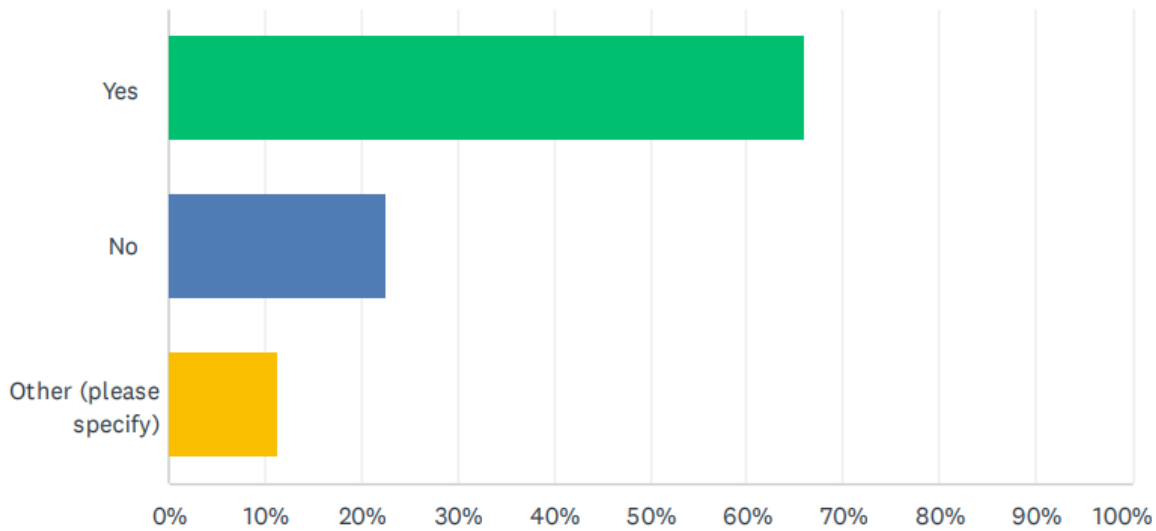
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As the crop develops, how far behind critical pollinations is your crop?



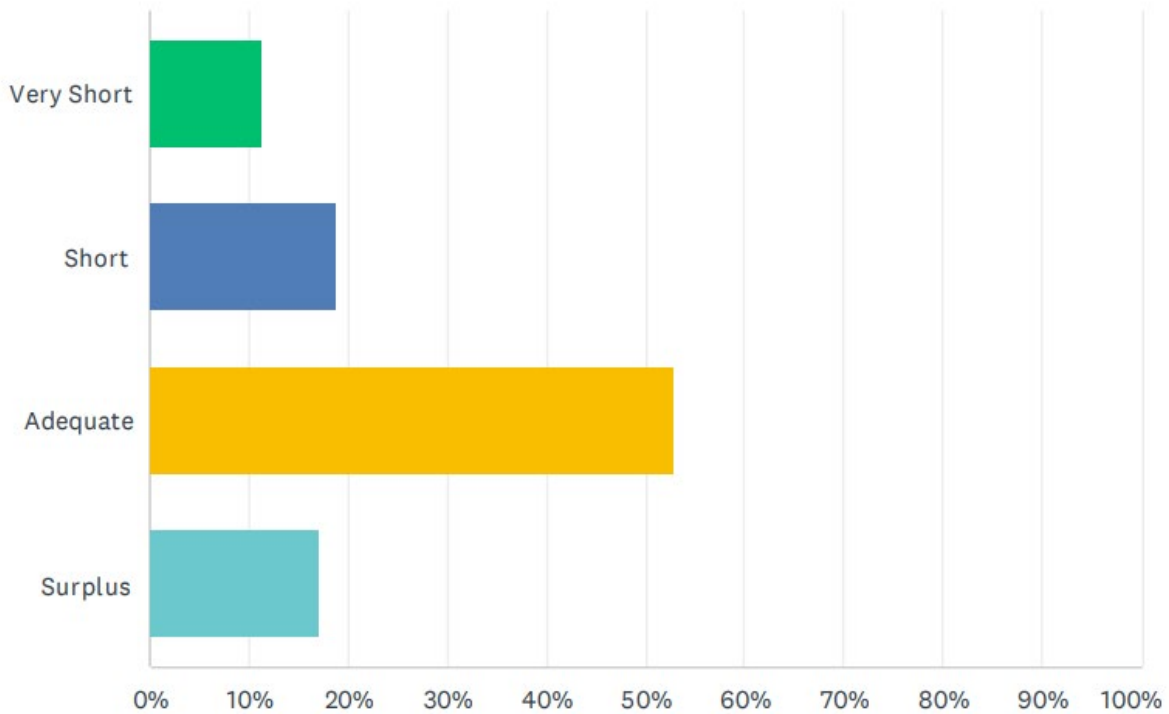
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Early crop eye appeal – Is the crop uniform with good color?



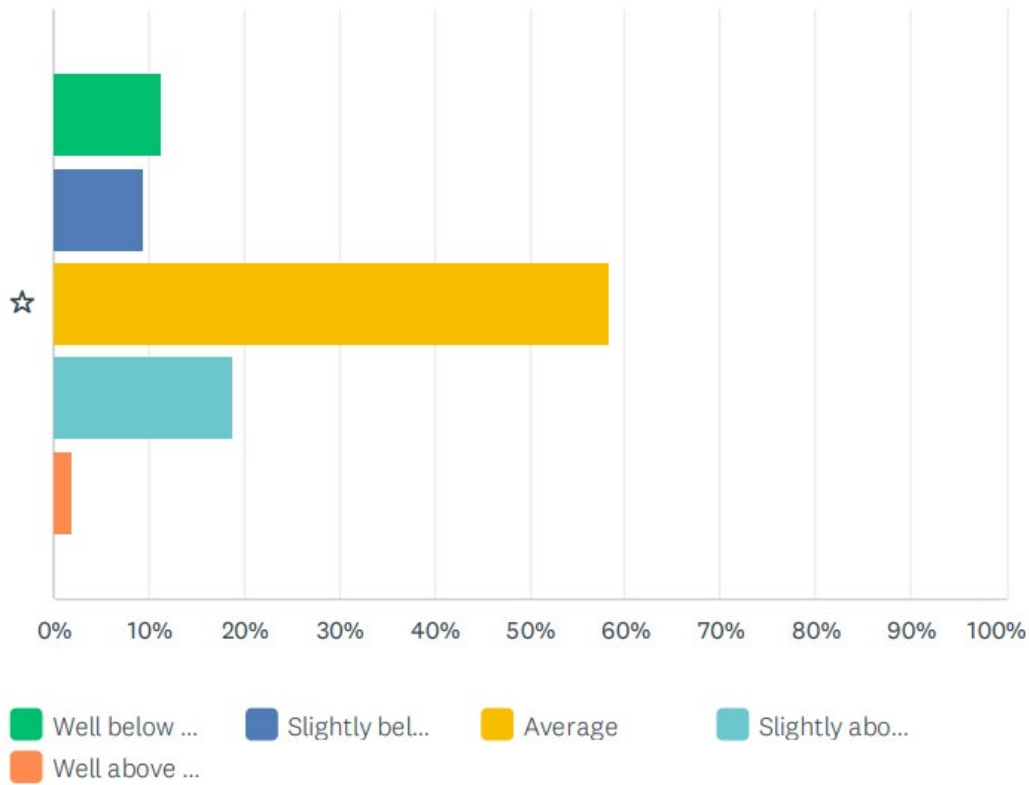
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How would you describe current topsoil moisture?



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At this point, how would you describe yield potential?



Toohill's Topic of the week:

Heat wave #1 moderating but what should we expect from heat wave #2?

Except for the growers in the south with flowering and filling corn and soybean fields, heat wave # 1 likely did much more good than harm. Why do I "say" that?

- The increase in growing degree day accumulation was a plus for the later planted U.S. corn crop.
- Most corn fields had enough soil moisture to grow through the heat resulting in some "bonus" GDDs. The corn GDD formula maxes out at 86 but if your corn wasn't rolling at those temperatures, then you were able to add some GDDs that won't show up "officially".
- The heat helped "push" the roots down in most areas.

When does heat wave #2 start? Here at Bloomington Illinois, that will be next Monday June 20th (see the Weather Channel extended below left). Next week it looks like we'll have another 4 days with heat warnings for much of the Corn Belt. The heat moderates towards the 24th but temperatures are still expected to remain above normal. Stress will mount in reproductive stage corn the south with heat wave #2. Very little if any Midwest corn will be pollinating during heat wave #2 but water use will be in the increase as more corn fields enter the rapid growth stages (see chart below right). I also expect to see a lot more leaf rolling with heat wave #2.

Thu 16	95°/69°	Partly Cloudy	7%	WSW 12 mph
Fri 17	88°/60°	Partly Cloudy	7%	NNW 12 mph
Sat 18	83°/61°	Sunny	3%	ENE 11 mph
Sun 19	88°/69°	Mostly Sunny	8%	S 12 mph
Mon 20	97°/75°	Sunny	5%	SW 16 mph
Tue 21	98°/77°	Sunny	5%	WSW 16 mph
Wed 22	96°/73°	Partly Cloudy	24%	W 11 mph
Thu 23	94°/71°	Partly Cloudy	24%	SSW 10 mph
Fri 24	91°/67°	Partly Cloudy	24%	SW 10 mph
Sat 25	89°/66°	Partly Cloudy	18%	SE 9 mph
Sun 26	89°/67°	Mostly Sunny	24%	SE 10 mph
Mon 27	90°/66°	Mostly Sunny	24%	S 10 mph
Tue 28	90°/69°	Isolated Thunderstorms	32%	S 12 mph
Wed 29	91°/69°	Mostly Sunny	18%	SSW 11 mph

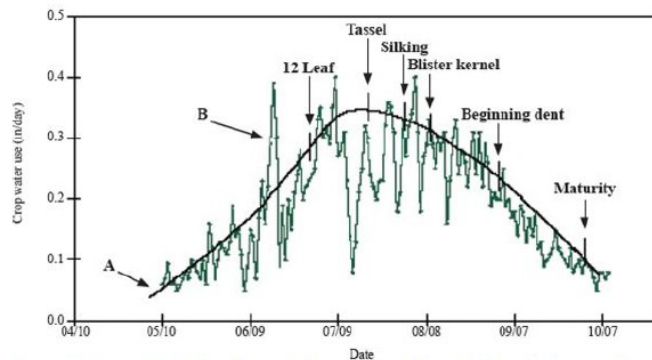


Figure 1. Example of long-term daily average (A) and individual year (B) corn water use with select growth stages. Source: Kranz, W.L. et al. 2008. Irrigation management for corn. NebGuide G1850. University of Nebraska-Lincoln Extension.

The bottom line with heat wave #2? We are still much better off getting the heat next week instead of early to mid-July when more U.S. corn will be pollinating. But all this June heat will pull on soil moisture reserves which will be problematic if the heat persists into July AND rains get scarcer. On the soybean side, the heat will slow growth as topsoils dry. More of the earlier planted bean fields will be flowering next week but it will be hard for most of the first flowers to develop into pods if the forecast verifies.

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Be a part of the story!

Take part by completing the week 7 survey by noon on June 23.

Week 7 Survey: <https://www.surveymonkey.com/r/KKDPWZ6>

Listen to our extended Thursday evening PM Market Update podcast with Sterling Smith: <https://www.podbean.com/media/share/pb-agr3q-1251379>

Catch up on all the latest on our webpage:

<https://www.agrisompo.com/resources/marketing/virtual-crop-tour/>

Be sure to join us for the USDA Special Report on the 30th. Click on the link in the box below to register.

June 30th
Special Report



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