

2021 Cotton Research Verification/ Sustainability Program
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Weekly Update
Update #7 – July 2, 2021

General						
There are 16 fields within the CRVSP for 2021. Planting dates range from 5/1 to 5/22. Four fields within the program have now been watered for the first time, and many more pumps will likely kick on if the rain moving through the state is missed at the locations. Most fields are squaring now within the verification program. Some fields within the programs are starting to show signs of stress according to the target development curve.						
County	Field Name (Tillage Practice/ Cover Crop)	Date Planted & Variety	Plant Population	# Squaring Nodes	% Square Shed	General Information
Clay	Clay (No Cover)	5/14 NG 4936 B3XF	35,250	5	1.1	Last field visit was on 6/28, cotton was 10 nodes, and approximately 11" tall. No rain had been received since last field visit. Irrigation was attempted, but later realized that they needed to pull furrows to allow for water movement down the rows. There was a hard pan at 8". Low plant bug pressure was seen in insect checks. According to the target development curve this side of field is growing as it should and showing no signs of stress.
Clay	Clay (Cover)	5/14 NG 4936 B3XF	42,750	4	1.3	Last field visit was on 6/28, cotton was 9 nodes, and approximately 9.3" tall. No rain had been received since last field visit. Irrigation was attempted, but later realized that they needed to pull furrows to allow for water movement down the rows. There was a hard pan at 8". Low plant bug pressure was seen in insect checks. According to the target development curve this side of field is beginning to show some signs of stress.
Lee	Lee (No Cover)	5/15 PHY 390 W3FE	40,850	5	7.5	Last field visit was on 7/1, cotton was 9 nodes, and approximately 12.3" tall. No rain has been received since last field visit; however, it has been irrigated for the first time this season where 2" of water was applied. Hard pan is beginning to form at 8", field had good moisture. Low plant bug pressure was seen in insect checks, also seen a few lady bugs and click beetles. According to the target development curve this side of the field first started out slightly ahead of the target development curve but has now flattened out somewhat and is running right with the target development curve.
Lee	Lee (Cover)	5/1 PHY 360 W3FE	30,850	7	1.5	Last field visit was on 7/1, cotton was 11 nodes, and approximately 13.8" tall. No rain has been received since last field visit. Soil moisture was getting dry, pumps are expected to be kicked on to water this field sometime the afternoon of field visit. Hard pan is forming at 3". Low plant bug pressure was seen in insect checks, also seen a few lady bugs and click beetles. This field had a rough start but did not call for a replanting as all plants looked healthy early on. This field has shown signs of stress since COTMAN entry initiated this year; this is believed to likely be because of weather related reasons.

Lonoke	Lonoke (No Cover)	5/22 DP 2038 B3XF	23,000	1	0.0	Last field visit was on 6/30, cotton was 9 nodes, and approximately 8.5" tall. No rain had been received since last field visit. Soil moisture was fair, poly pipe has already been pulled, and irrigation will likely be started once they get part in and get pump ready to go if this rain is missed. A portion of the bottom Southeast half of field was drowned out when the field received 15+ inches of rainfall earlier in June. Hard pan has formed at 6". Snails, click beetles, spiders and parasitic wasps was all that was seen in insect checks. Weeds present was: Pigweed, Curly dock, and purseline. According to the target development curve this field is behind schedule. Field just started squaring this week so will monitor the target development curve for changes in the upcoming weeks.
Lonoke	Lonoke (Cover)	5/22 DP 2038 B3XF	23,250	1	0.0	Last field visit was on 6/30, cotton was 9 nodes, and approximately 9.3" tall. No rain has been received since last field visit. Soil moisture was fair, poly pipe has already been pulled, and irrigation will likely be started once they get part in and get pump ready to go if this rain is missed. Hard pan has formed at 6". Very low plant bug pressure was seen in insect checks, other insects noted was snails, and parasitic wasp. Weeds present was: purseline and curly dock. According to the target development curve this field is behind schedule. Field just started squaring this week so will monitor the target development curve for changes in the upcoming weeks.
Poinsett	Poinsett Judd Hill (Crop Intensification)	5/20 DP 2038 B3XF	12,609	1		Last field visit was on 7/1. Cotton is 8-9 node, 11" tall. No pest insects found. Beneficial insects found were lady beetles, spiders and lacewing larvae. Top 2" of soil is dry, fair moisture from 2" to 6" and good moisture past 6". .15" of rain since last visit.
Poinsett	Poinsett Judd Hill (Cereal rye)	5/20 DP 2038 B3XF	27,320	1		Last field visit was on 7/1. Cotton is 8-9 node, 12" tall. No pest insects found. Beneficial insects found were lady beetles, spiders and lacewing larvae. Top 2" of soil is dry, fair moisture from 2" to 6" and good moisture past 6". .15" of rain since last visit.
Poinsett	Poinsett Judd Hill (No Cover)	5/20 DP 2038 B3XF	29,613	1		Last field visit was on 7/1. Cotton is 8-9 node, 12" tall. No pest insects or beneficial insects found. Field was irrigated on 6-30.
Poinsett	Poinsett Lepanto (Cover)	5/21 Armor 9608 B3XF	29,150	-	-	Last field visit was on 6/28, cotton was 5-6 nodes, and approximately 7" tall. No rain has been received since last field visit. Soil moisture was fair. While out in field producer was busy pulling middles. Still likes pulling poly pipe to have field irrigation ready. If producer misses the rain moving through the state, field will need to be irrigated soon. Hard pan has formed at 8". Snails and lady bugs was all that was present in insect checks. This field has not begun squaring yet, but I have drawn out the target development curve by hand and this field is beginning to run flat to that of the target development curve so it is starting to show some signs of stress. Will continue to monitor the target development curve for changes in the upcoming weeks.
Poinsett	Poinsett Lepanto (No Cover)	5/21 Armor 9608 B3XF	31,700	-	-	Last field visit was on 6/28, cotton was 5-6 nodes, and approximately 6.5" tall. No rain has been received since last field visit. Soil moisture was fair. While out in field producer was busy pulling middles. Still likes pulling poly pipe to have field irrigation ready. If producer misses the rain moving

						through the state, field will need to be irrigated soon. Hard pan has formed at 4". Snails and lady bugs was all that was present in insect checks. This field has not begun squaring yet, but I have drawn out the target development curve by hand and this field is beginning to run flat to the target development curve so it is starting to show some signs of stress. Will continue to monitor the target development curve for changes in the upcoming weeks.
St. Francis	St. Francis (No Cover)	5/14 ST 5471 GLTP	36,700	3	3.4	Last field visit was on 7/1, cotton was 9 nodes, and approximately 11" tall. No rain has been received since last field visit. Field is dry and needs to be irrigated if the rain moving through the state is missed. Hard pan has formed at 6". Low plant bug pressure, snail, click beetles, and lady bugs was seen in insect checks. This field is showing signs of stress and the curve is beginning to flatten out instead of running parallel to the target development curve.
St. Francis	St. Francis (Cover)	5/14 ST 5471 GLTP	38,400	4	0.0	Last field visit was on 7/1, cotton was 10 nodes, and approximately 12.5" tall. No rain has been received since last field visit. Field is dry and needs to be irrigated if the rain moving through the state is missed. Hard pan has formed at 6". Low plant bug pressure, lady bugs and snails was seen in insect checks. This field is showing a sign of stress as the curve is slightly beginning to flatten out from the target development curve instead of running parallel.
Demo	BCI/US Trust Protocol (Cover)	5/20 DP 1646 B2XF	15,666	2-3		Last field visit was on 7/1. 8-9 node, 11" tall. No pests insects found in field. As for beneficial insects, many spiders, syrphid flies, and lacewing, both adult and larvae are in the field. Field has some pigweed and sicklepod which will be sprayed for soon. Soil dry down to 2" fair moisture from 2" - 4" and good moisture past 4". .05" of rain since last visit.
Demo	BCI/US Trust Protocol (No Cover)	5/20 DP 1646 B2XF	37,254	2-3		Last field visit was on 7/1. 8-9 node, 12" tall. No insect pests found. Very few beneficial insects found. Field has a flush of pigweed and sicklepod with patches of morning glory and smart weed, which will need to be sprayed soon to keep under control. Soil dry down to 4" fair moisture from 4" - 6" and good moisture past 6". .05" of rain since last visit.
Demo	ASHA (Cover)	5/15 UA 222	16,525	2-3		Last field visit was on 6/30. 9-10 node cotton, 12-14" tall. No pests found in field, beneficial insects found in field were lady beetles and lady beetle larvae, lacewing larvae and spiders throughout the field. Top 3" of soil is starting to dry, fair moisture from 3" - 6" with good moisture past 6". No rain received since last visit.