

Bootheel Crop Outlook Program Report

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Tentative dates for upcoming meetings

CCA Conference.....	November 25-26
Corn Conference.....	December 11
Soybean Conference.....	January 16
Cotton Conference.....	January 22
Rice Conference.....	February 13



Green Stink Bug nymphs attempting to feed in R7 soybean. Insecticide applications for green and brown stink bugs are not economically beneficial after R6.5 growth stage in soybean.

Rice Crop Outlook Program Update

Field	Cultivar	Stage	Management Information
1	Diamond	Mature	<p>5/10 – Planted 4/30 @ 68 lbs/A; Flood irrigation; Applied 1 pt Command and 2 oz Sharpen at planting.</p> <p>5/17 – Low end of field (heavy clay and poorly drained) is struggling to emerge due to wet weather.</p> <p>5/24 – Weeds starting to emerge, otherwise ok.</p> <p>5/31 – Some pigweed, barnyardgrass, and morningglory up.</p> <p>6/7 – Recommendation out for 24 oz Ricestar, .66 oz Permit Plus, 21 oz Facet, and COC; 240 lbs urea</p> <p>6/14 – Herbicide and urea yet to be applied; Facet rate may be increased due to slightly larger barnyardgrass.</p> <p>6/21 – Sprayed, fertilized, levees pulled, and flooding this week</p> <p>6/28 – Flooded deep to aid with control of larger crabgrass and barnyardgrass with Facet applied last week.</p> <p>7/5 – Some grass escapes</p> <p>7/12 – Midseason application may occur next week.</p> <p>7/19 – 100 lbs urea applied</p> <p>7/26 – Field looks good and uniform in color</p> <p>8/2 – Looks good</p> <p>8/9 – Looks good; no disease</p> <p>8/16 – Looks good</p> <p>8/23 – Looks good</p> <p>8/30 – Looks good</p> <p>10/1 – Ready to harvest</p>
2	CLXL753 (60 acres) RT XP760 (20 acres)	Harvested	<p>5/3 – Planted 4/10 @ 24 lbs/A; Flood irrigation; Applied 1 qt Roundup Powermax, 1 pt Command, and 2 oz Sharpen at planting.</p> <p>5/10 – Residual holding; stand good; growing well.</p> <p>5/17 – Palmer amaranth, broadleaf signalgrass, large crabgrass, and yellow nutsedge have come through pre-emerge herbicide; Applied Ricebeaux, Permit Plus, and Prowl H2O this week; may go to flood next week if weather cooperates.</p> <p>5/24 – Excellent weed control from herbicide application. When the field dries from this week’s showers, it will be fertilized, levees will be pulled, and the field will be flooded.</p> <p>5/31 – Applied 1 gal Ricebeaux to control barnyardgrass and pigweed; 200 lbs urea/A applied and levees pulled; gates will be put in and field will be flooded when the field dries from this week’s rain.</p> <p>6/7 – Flooded up</p> <p>6/14 – Looks good</p>

			<p>6/21 – Looks excellent 6/28 – Flew on 100 lbs urea on 6/25; Looks great 7/5 – Looks good and clean. 7/12 – Disease free; looks good 7/19 – Looks good 7/26 – Looks good 8/2 – Looks good 8/9 – Stopped pumping but still holding water 8/16 – Still holding water to help rice through heat over the weekend 8/23 – Drained and Drying down; Will update with yield when harvested 10/1 – 205 dry bushels/A</p>
3	CLXL753	Harvested	<p>5/3 – Planted 4/10 @ 21.5 lbs/A; Furrow irrigated rice; 30 lb N/acre at planting; Applied 12 oz Command at planting. 5/10 – 5 plants/sq ft; residual holding; 100 lbs ammonium sulfate applied 5/7. 5/17 – Applied Ricebeaux (3 qts) and Facet (1 qt) this week. 5/24 – Good weed control achieved; likely to fertilize and irrigate next week. 5/31 – Recommendation out to fertilize (90 units N as urea) when dry then start water. 6/7 – Recommendation out for 3 qts Stam, 8 oz Grandstand, and 2 pts Prowl. 6/14 – Sprayed and fertilized; Will start flushing soon. 6/21 – Looks great; Keeping it watered 6/28 – Flew on 100 lbs urea with Agrotain 7/5 – Looks good 7/12 – Applied 100 lb urea plus Agrotain 7/19 – Looks good 7/26 – Looks good 8/2 – Looks good 8/9 – Stink bugs present but not near threshold; looks good 8/16 – Still pumping water; looks good 8/23 – Pulled boards from low end 8/30 – Will update with yield when harvested 10/1 – 207 dry bushels/A</p>
4	CLXL745	Harvested	<p>5/3 – Planted 4/10 @ 18.8 lbs/A; Flood irrigation; 30 lb N/acre at planting; Applied 11 oz Command at planting. 5/10 – 5 plants/sq ft; residual holding. 5/17 – Some weeds emerged; Applied 50 lb. urea w/Agrotain and 50 lb. ammonium sulfate. 5/24 – Applied Newpath (4 oz) and Permit (0.75 oz) 5/31 – Will fertilize and flood when dry. 6/7 – Still wet; Still waiting for fertilize to be flown on before flooding. 6/14 – Fertilized and flooded up; looks good. 6/21 – N loss occurred due to applying to damp ground; 100 lb urea applied; maintaining flood</p>

			<p>6/28 –Fertilized last week; Maintaining flood 7/5 – Looks good 7/12 – Looks good; light levels of sheath blight 7/19 –Applied Quadris for sheath blight suppression 7/26 – Looks good 8/2 – Stink bugs present but not at threshold 8/9 – Looks good; May stop pumping next week 8/16 – Half of panicles are straw colored; Will stop pumping next week 8/23 – Drained; will update with yield when harvested 10/1 – 189 dry bushels/A</p>
5	CL111	Harvested	<p>Background: Furrow irrigated rice planted 4/11; League and Clearpath applied early post; Newpath, Loyant, and Riceone applied post. 50 lb urea / 50 lb of ammonium sulfate applied week of May 6th. 6/7 – Ground rig broadcast 90 units N before rain. 6/14 – Applied 1 pt Loyant plus MSO to crown to finish off pigweed. 6/21 – Good weed control; Keeping a flood on the low end and keeping the top wet. 6/28 – Applied 100 lbs urea with Agrotain 7/5 – Looks good 7/12 – Looks good 7/19 – Applied Stratego for sheath blight suppression; Applied 30 units N to top half of field 7/26 – Looks good 8/2 – Stink bugs <1/10 sweeps 8/9 – Stink bugs <2/10 sweeps 8/16 – 1/3rd brown heads; Still watering 8/23 – Still mostly green heads; Continuing to water 8/30 – Drained; Will update with yield when harvested 10/1 – 150 dry bushels/A</p>

Corn Crop Outlook Program Update

Field	Cultivar	Stage	Management Information
1	Crookham R502 (Popcorn)	Harvested	<p>5/3 – Planted 4/7; 36” rows; 29,000 seeds/A Applied 2 qts Bicep II Magnum 4/10. 5/10 – Aphids spotty, not bad; residual holding. 5/17 – 150 units N and 15 units S applied this week. 5/24 – Applied 0.75 oz Impact, and 1 qt AAtrex this week. 5/31 – Looks good. 6/7 – Looks good; weed control good 6/14 – Will start irrigating this week 6/21 – Applied Prevathon and generic lambdacyhalothrin; no disease 6/28 – Applied Trivapro and Prevathon; some green snap 7/5 – Looks good 7/12 – Looks good 7/19 – Looks good 7/26 – Looks good; watering when needed 8/2 – Will update with yield once harvested 10/1 – 5,200 lb/A</p>
2	Crookham R502 (Popcorn)	Harvested	<p>5/3 – Planted 4/7; 36” rows; 29,000 seeds/A Applied 2 qts Bicep II Magnum 4/10. 5/10 – Residual holding; looks good. 5/17 – 150 units N and 15 units S applied this week. 5/24 – Applied 0.75 oz Impact, and 1 qt AAtrex this week. 5/31 – Looks good. 6/7 – Looks good; residual holding. 6/14 – Looks good. 6/21 – Applied Prevathon and generic lambdacyhalothrin; no disease 6-28 – Applied Trivapro and Prevathon; some green snap 7/5 – Some greensnap 7/12 – Looks good 7/19 – Looks good 7/26 – Light common rust; continuing to water 8/2 – Will update with yield once harvested 10/1 – 5,200 lb/A</p>
3	Pioneer P1197	Harvested	<p>5/3 – Planted 4/10; 36” rows; 34,000 seeds/A Applied 20 oz Dual II Magnum and 1 qt Atrazine at planting. 5/10 – 33,000 emerged; residual holding. 5/17 – Herbicide and fertilizer will go out soon; Post herbicide will be Revulin Q (4 oz) and Atrazine (1.5 qts); Sidedress will be 60 gallons of 28-0-0- 4.</p>

			<p>5/24 – Looks good. 5/31 – Looks good. 6/7 – Looks good. 6/14 – Disease free. Flew on 85 lb urea and 50 lb ammonium sulfate 6/21 – Looks good. Should reach VT-R1 next week. 6/28 – Applying Trivapro and Besiege soon 7/5 – Looks good 7/12 – Looks good 7/19 – Looks good 7/26 – No Southern rust; Looks good 8/2 – Looks good 8/9 – Looks good 8/16 – Looks good 8/23 – Will update with yield when harvested 10/1 – 221 bushels/A</p>
4	Agventure 8614	Harvested	<p>Background – Planted 3/22; furrow irrigated on 38" rows; planted at 32,500 seeds/acre; pre-emerge banded behind planter; 90 units N at planting 5/17 – Plant health has declined over the last week with signs of N and S deficiency, likely due to decreased root growth because of cool/wet conditions early on; 120 units N applied with sidedress this week (37 gallons of 30-0-0-2) 5/24 – Looks good. Field responded quickly to sidedress application. 6/7 – Looks good. 6/14 – 100 lbs urea applied pre-tassel 6/21 – Looks good. Low levels of common rust. 6/28 – Looks good 7/5 – Looks good 7/12 – Looks good; Some common rust 7/19 – Looks good 7/26 – May reach black layer late next week; Will likely get watered one more time 8/2 – Will update with yield once harvested. 10/1 – 235 bushels/A</p>
5	Becks 6225	Harvested	<p>Background – Planted 5/14 at 34,500 seeds/A; 10 gallons of 28-0-0-4 starter; Applied 2.5 qts Acuron and 1 qt Atrazine pre 5/31 – Field is clean; looks good. 6/7 – Looks good; Weed free; Looking to sidedress when the weather allows. 6/14 – Sidedressed with 70 gallons 30-0-0-2; Clean and looks good. 6/21 – Looks good; Plenty of moisture. 6/28 – Light common rust in lower canopy; Looks good. 7/5 – Looking good; Will tassel soon 7/12 – Applied Trivapro and Besiege today 7/19 – Looks good</p>

			7/26 – Looks good 8/2 – Looks good 8/9 – Looks good 8/16 – Looks good; Light southern rust 8/23 – Looks good 8/30 – Looks good 10/1 – 228 bushels/A
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Soybean Crop Outlook Program Update

Field	Cultivar	Stage	Management Information
1	Terral 49L88	R8	<p>Background: Dryland; Drilled 7"; Field was initially planted 5/18 but was spotted in on 5/26 due to excess rainfall and seedling diseases causing reduced stand; 1 qt Liberty and 3.5 oz Zidua SC applied at second planting to control emerged Palmer and broadleaf signalgrass.</p> <p>5/31 – Initial planting is at VU; replanted areas are still emerging; stand should be good; weed free</p> <p>6/7 – Some broadleaf signalgrass emerged in wet spots, otherwise clean and looks good.</p> <p>6/14 – Broadleaf signalgrass (2-4"), morningglory (2-3"), and Palmer amaranth emerged (<1"); Post application of Liberty and Select to be applied this week.</p> <p>6/21 – Plants have auxin symptomology; Good grass control; Some 4" pigweed is burnt back but still alive and may regrow.</p> <p>6/28 – Near canopy; looks good</p> <p>7/5 – Most of the field is at canopy; Insect pressure low; No disease</p> <p>7/12 – Insect pressure low, some Septoria brown spot in lower canopy</p> <p>7/19 – Very light auxin injury; Septoria is the only disease present; Low insect pressure</p> <p>7/26 – Auxin injury slightly worse; no disease; Podworm moths present but did not sweep any worms.</p> <p>8/2 – Soybean podworm <1/25 sweeps; Septoria in lower canopy</p> <p>8/9 – Podworm <1/25; Stink bugs 2/25</p> <p>8/16 – Podworms <1/25 sweeps; Stink bugs 2/25 sweeps; No Frogeye Leaf Spot</p> <p>8/23 – Stink bugs 2 per 25 sweeps</p> <p>8/30 – Stink bugs 2/25 sweeps</p> <p>10/1 – May harvest this weekend</p>
2	Pioneer 46A93X	R7	<p>6/14 – Planted 6/10; Dryland; Drilled 7"; Zidua and Metribuzin will go out pre.</p> <p>6/21 – Good even emergence; 130-140k/acre; some pigweed up as residual was not rained in until 5 days after application; Early post application likely next week.</p> <p>6/28 – Pigweed (1-2") and broadleaf signalgrass emerged; Recommendation out to spray Engenia and Roundup Powermax</p> <p>7/5 – Overall field is pretty clean besides spotty pigweed. Hope to apply Engenia and Roundup PowerMax this weekend. A few Pigweed are now over 4" and will likely have to be pulled.</p> <p>7/12 – Applied Engenia, Roundup PowerMax, and Outlook this week</p>

			<p>7/19 – Weeds dying; Some large pigweed will survive; Most of field at canopy.</p> <p>7/26 – Field is at canopy; Septoria is the only disease present; Few insects.</p> <p>8/2 – Insect pressure low; Septoria in lower canopy</p> <p>8/9 – Podworms 2/25; Septoria in lower-mid canopy.</p> <p>8/16 – Podworms 2.5/25 sweeps; No Frogeye Leaf Spot</p> <p>8/23 – Podworms 3/25 sweeps; Trace of Frogeye</p> <p>8/30 – Podworms <1/25 sweeps; Very low Frogeye</p> <p>10/1 – Podworms and FLS never reached treatment levels; Field maturing fast due to recent dry heat.</p>
3	Asgrow 39X7	R8	<p>Background: planted on 15" rows on 5/26; Received Gramoxone, Warrant, and Metribuzin pre; Spot planted to fill in areas with stand loss due to excessive rain on 6/11</p> <p>6/21 – Cocklebur (2-4"), morningglory (3-4"), pigweed (1"), yellow foxtail (3-4 leaf), barnyardgrass (3-4 leaf), and prickly sida (1-3") have emerged; Will apply XtendiMax, Roundup PowerMax, and Warrant as soon as possible.</p> <p>6/28 – Field has been too wet to spray; Hopefully will get it sprayed this weekend</p> <p>7/5 – Field has been sprayed</p> <p>7/12 – Weeds dying</p> <p>7/19 – Looks good</p> <p>7/26 – Looks good</p> <p>8/2 – Green cloverworms increasing but defoliation low; Septoria in lower canopy</p> <p>8/9 – Podworms <1/25; Low Septoria and trace of Downy Mildew</p> <p>8/16 – Disease still low; 3.5 podworms per 25 sweeps</p> <p>8/23 – Podworms 3 to 4 per 25 sweeps; low disease pressure</p> <p>8/30 – Insect and disease pressure low</p> <p>10/1 – Waiting on harvest</p>

Wheat Crop Outlook Program Update

Field	Cultivar	Stage	Management Information
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The Wheat Crop Outlook Program will begin in Fall of 2019

General Comments

Wheat drills are moving in some areas of the Bootheel. Planting generally occurs from October 1-31, with the middle two weeks of the range being ideal. Keep in mind that wheat emerging before a hard freeze will be at greater risk for aphid infestation and [BYDV](#) development. Insecticide seed treatment and/or intensive scouting for aphids is necessary when planting early. Plant wheat from $\frac{3}{4}$ " to $1\frac{1}{2}$ " deep. Planting too shallow may not result in an adequate stand, and planting too deep will result in reduced tillering. Shoot for 25 to 35 plants per square foot. Planting rate will be dependent upon germination percentage and field conditions.

Wheat stand establishment is best when seeding with a grain drill. Although, some growers achieve adequate results by broadcasting and working in wheat. An approximate 30% increase in seed is necessary with broadcast wheat due to reduced emergence and uniformity. Calibrating a grain drill may result in worthwhile savings, especially if the drill has significant wear and tear. There are several different methods to calibrate a drill but all relate to calculating an amount of seed per unit area:

- 1) Elevate and rotate the drive wheel a predetermined amount to equal a certain area. Remove the seed tubes beforehand to catch the seed. Weigh the seed and convert to seeds per square foot.*
- 2) To calibrate the drill while in operation, remove several seed tubes and attach bags or cups in place to catch seed while the tractor travels a predetermined distance. Weigh the seed and convert to seeds per square foot.*
- 3) Some newer air drills have the option for a fairly accurate scale placed under the seed tank. Using your tractor to estimate the area traveled, an operator can easily keep an eye on lbs per acre planted as he/she moves throughout the field and convert to seeds per square foot using information from the seed tag.*
- 4) Place a heavy duty rubber mat in the path of the drill to allow seed to be left on the surface of the mat so that it may be counted over a certain distance.*
- 5) Place a predetermined amount of seed in the drill and calculate the area in which you travel before the drill is empty.*

Methods 1-3 are more accurate than methods 4-5, but not calibrating your grain drill could result in losses due to over or under seeding.

Rice Crop Outlook Program Sponsors



A special thanks goes to the Missouri Rice Research and Merchandising Council for support and funding of the program.



The University of Arkansas N-STaR Lab has funded analysis of samples for several fields. For more information on N-STaR sampling you may contact the lab at (479) 575-7569 or nstarlab@uark.edu.



Nutrien Ag Solutions in Sikeston and Helena Chemical in Dudley have generously donated urea needed for using the Trimble GreenSeeker to analyze the need for midseason nitrogen

COP Contributors

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