



Arkansas Rice Update

Dr. Jarrod Hardke

September 6, 2019 No. 2019-27

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DIVISION OF AGRICULTURE
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Harvest Progress

“You got to dodge him, you got to duck him, you got to keep that diesel truckin’, just put that hammer down and give it hell.”

Yields are rolling in a little more this week. The southern part of the state is rolling much further along overall, while from I-40 north things are really just getting started good.

We’re overall a few percent off from last year, but still holding very steady. We range anywhere from a few very low fields up to fields equaling last year, and all points in between.

There has been some indication that yields are improving for some as we move into mid- and late April plantings. Trends in Stuttgart planting dates support this with some cultivars increasing slightly and overall not falling off compared to earlier planting dates (**Table 1**). The early planting date at Pine Tree struggled while the later April planting date performed similar to Stuttgart (**Table 2**).

This is a unique occurrence as even mid-April is on average noticeably lower than earlier dates. This is most likely driven by the mild conditions throughout the summer continuing to provide optimal growing conditions.

The extended forecast continues to be hot, sunny, and dry. This crop is maturing fast – moisture is getting away from many who are seeing a lot of green tissue but the grain is getting very dry. Time to get after it.

Table 1. Preliminary data for small-plot planting date studies, RREC, Stuttgart, 2019.

Cultivar	Grain Type	Planting Date		
		March 21 2019	April 3 2019	April 16 2019
ARX7-1087	L	222	221	219
CL153	CL	226	224	202
CLL15	CL	222	222	220
CLXAR19	CL	245	255	231
Diamond	L	233	235	223
PVL01	PL	199	194	187
RT 7301	L	269	258	258
RT 7501	L	261	263	277
RT 7321 FP	FL	237	239	256
RT 7521 FP	FL	230	240	252
RT CLXL745	CL	203	231	226
RT Gemini 214 CL	CL	250	260	271
RT XP753	L	259	251	271
ARX7-1121	M	253	243	225
CL272	CM	232	220	236
CLM04	CM	230	209	226
Jupiter	M	248	229	238
RT 3201	M	219	222	225
Titan	M	239	226	230
ARoma17	LA	201	186	178
MEAN	--	234	231	233

Grain Type: L = long-grain, M = medium-grain, CL = Clearfield long-grain, CM = Clearfield medium-grain, FL = FullPage long-grain, PL = Provisia long-grain.

Arkansas Row Crops Radio Podcast

Check out the next episode on rice!

Discussing harvest progress, grain moisture, and sodium chlorate in low moisture rice:

<https://arkrowcropsradio.podbean.com/e/ep-002-rice-harvest-2019-progress-with-jarrod-hardke/>.

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Table 2. Preliminary data for small-plot planting date studies, PTRS, Colt, 2019.

Cultivar	Grain Type	Planting Date	
		April 2 2019	April 24 2019
ARX7-1087	L	160	215
CL153	CL	134	178
CLL15	CL	163	237
CLXAR19	CL	169	230
Diamond	L	159	236
PVL01	PL	149	180
RT 7301	L	161	259
RT 7501	L	177	234
RT 7321 FP	FL	157	266
RT 7521 FP	FL	157	266
RT CLXL745	CL	147	231
RT Gemini 214 CL	CL	171	255
RT XP753	L	175	266
ARX7-1121	M	199	245
CL272	CM	123	207
CLM04	CM	167	208
Jupiter	M	159	231
RT 3201	M	171	208
Titan	M	137	232
ARoma17	LA	155	197
MEAN	--	160	228

Grain Type: L = long-grain, M = medium-grain, CL = Clearfield long-grain, CM = Clearfield medium-grain, FL = FullPage long-grain, PL = Provisia long-grain.

Estimating Harvest Loss

Each year there are questions about estimating rice yield lost out of the combine. **Table 3** provides the straightforward answer, but it's not that simple. The combine doesn't spread residue (and grain) as wide as the combine header, so simply counting the number of grains in a square foot behind the machine will overestimate loss.

To be more accurate, you really need to count the number of kernels in a strip the width of the combine (**Table 4**). For instance, with a 30 ft header, you would need to count the kernels on the ground in a strip 30 ft long and 4 inches wide (which amounts to 10 square feet). Divide the kernels counted in that strip by 10 to get your number per square foot.

Table 3. Converting rice field loss counts into bushels per acre.

Number of Rice Kernels Per Square Foot*	Average Field Loss Bu/A
25	1.3
50	2.5
75	3.7
100	5.1
125	6.4
250	12.8

* Evaluate over a uniform area representing entire header width for accuracy.

Table 4. Dimensions for Field Loss Estimate.

Sample Area to Obtain 10 Square Feet Across Header Width	
Header Width	Sample Dimensions
20	20 ft x 6 in
25	25 ft x 4.8 in
30	30 ft x 4 in
35	35 ft x 3.4 in

USA Rice Outlook Conference Scheduled for Dec. 8-10 in Little Rock

For more information and to register: <https://www.usarice.com/news-and-events/meetings-events/usa-rice-outlook-conference>.

Visit our website at <http://www.uaex.edu>



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Visit <http://www.RiceAdvisor.com> for your DD50 login, calculators for seeding rate, drill calibration, and fertilizer, and links to videos and publications. Let us know what you think!

Additional Information

Arkansas Rice Updates are published periodically to provide timely information and recommendations for rice production in Arkansas. If you would like to be added to this email list, please send your request to rice@uaex.edu.

This information will also be posted to the Arkansas Row Crops blog (<http://www.arkansas-crops.com/>) where additional information from Extension specialists can be found.

More information on rice production, including access to all publications and reports, can be found at <http://www.uaex.edu/rice>.

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