



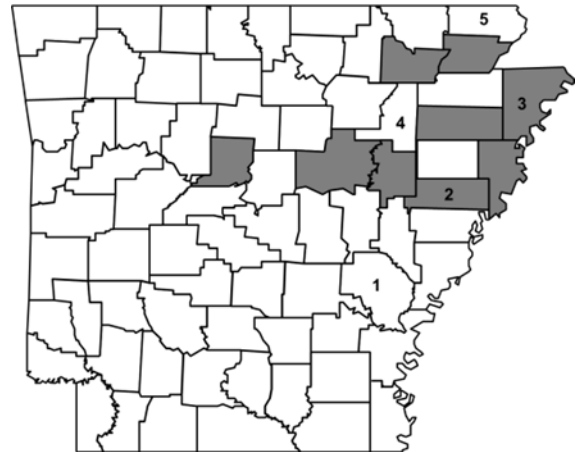
Arkansas Rice Cultivar Testing, 2014-2016

Cultivar performance data included in this publication are from the Arkansas Rice Performance Trials (ARPT), Producer Rice Evaluation Program (PREP) trials in grower fields, and from seeding date studies conducted during 2014-2016. Additional information can be found on the University of Arkansas System Division of Agriculture Cooperative Extension Service website (<http://www.uaex.edu/rice>) and the annual B.R. Wells Rice Research Series publication (<http://arkansasagnews.uark.edu/1356.htm>).

The current reported state average yield for 2016 is **159** bu/A as reported by the USDA Crop Reporting Service (<http://usda.mannlib.cornell.edu/usda/current/CropProd/CropProd-11-09-2016.pdf>).

The ARPT, PREP, and seeding date studies are supported through grower check-off funds administered by the Arkansas Rice Research and Promotion Board. These studies are conducted every year to compare promising new experimental lines and newly-released cultivars from the breeding programs in Arkansas, Louisiana, Texas, and Mississippi with established cultivars currently grown in Arkansas.

Locations (1 - 5) of the ARPT and PREP sites (shaded) conducted in 2016.



1. Rice Research & Extension Center (RREC), Stuttgart, AR
2. Pine Tree Research Station (PTRS), Colt, AR
3. Northeast Research & Extension Center (NEREC), Keiser, AR
4. Newport Extension Center (NEC), Newport, AR
5. Bowers Farm, Clay County, AR

ADDITIONAL INFORMATION SOURCES

University of Arkansas Cooperative Extension Service <http://www.uaex.edu/rice>

- Rice Information Sheet No. 172
- Rice Information Sheet No. 173
- Rice Information Sheet No. 175

Prepared by: Jarrod T. Hardke, Rice Extension Agronomist; Karen Moldenhauer, Professor, Breeding; Xueyan Sha, Assoc. Professor, Breeding; Yeshi Wamishe, Extension Plant Pathologist; Rick Norman, Professor, Soil Fertility; Donna Frizzell, Program Assoc.; Eddie Castaneda, Program Assoc.; Garrett Lee, Program Tech.; Debbie Ahrent Wisdom, Program Assoc.; Maurice Blocker, Program Assoc.; Jill Bulloch, Program Assoc.; Tony Beaty, Program Assoc.; Ralph Mazzanti, Program Assoc.; Ron Baker, Program Assoc.; Stewart Runsick, Clay Co. CEA; Mike Duren, Program Tech.; Yihalem Liyew, Program Tech., and Justin Chlapecka, Poinsett Co. CEA.

Arkansas Rice Performance Trials (ARPT)

2014-2016 Summary – All Locations

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	Straw Strength ²	50% Heading ³	Plant Height	Test Weight	Milled Kernel Wt ⁴	Chalky Kernels ⁴	Milling Yield by Year				Grain Yield by Year			
		Rating	Days	in.	lbs/bu	mg	%	2014	2015	2016	Mean	2014	2015	2016	Mean
		% Head Rice - % Total Rice								Bushels / Acre					
Caffey	M	1.5	84	38	42.2	23.5	1.69	57-69	56-68	49-67	54-68	216	179	170	188
CL111	L	1.1	80	39	43.0	21.3	1.74	63-71	62-70	58-67	61-69	179	144	149	157
CL151	L	1.9	81	39	42.4	19.8	3.12	65-71	61-70	53-70	60-70	202	166	164	177
CL153	L	1.0	81	39	42.9	20.3	1.57	--	62-69	57-69	59-69	--	154	169	161
CL163	L	1.5	85	38	42.3	20.7	1.63	63-70	61-70	54-70	59-70	186	151	150	162
CL172	L	1.0	81	37	42.4	21.6	1.69	--	58-69	50-69	54-69	--	142	161	152
CL272	M	1.0	81	38	42.9	22.5	1.89	--	62-70	53-69	58-69	--	162	176	169
Diamond	L	1.7	83	41	42.6	21.5	1.23	61-69	60-69	55-68	59-69	218	186	188	197
Jupiter	M	2.5	84	37	41.4	21.1	2.69	59-68	61-68	57-69	59-68	213	176	167	186
LaKast	L	1.2	81	42	42.9	21.8	1.30	62-71	56-68	55-69	58-70	202	162	182	182
Mermentau	L	1.1	82	38	42.7	20.1	2.05	66-71	63-69	57-70	62-70	181	161	159	167
Roy J	L	1.0	87	41	42.1	20.9	1.35	62-70	61-70	55-69	59-70	207	169	167	181
RT CL XL745	L	3.6	78	44	42.9	22.4	2.22	61-71	58-69	46-69	55-70	203	187	192	194
RT XL753	L	1.6	79	44	43.4	21.7	2.68	57-71	54-69	45-67	52-69	259	212	231	234
RT XL760	L	3.3	82	47	42.6	21.0	2.98	--	59-69	52-68	55-68	--	207	205	206
Taggart	L	1.5	86	43	42.5	22.7	1.29	60-70	58-70	47-69	55-70	200	167	179	182
Thad	L	1.0	84	38	42.6	20.9	0.53	--	58-69	52-70	55-69	--	137	147	142
Titan	M	1.5	79	38	42.4	23.0	1.92	55-69	56-68	54-69	55-69	235	165	192	197
Wells	L	1.1	84	41	42.6	21.7	1.46	57-70	57-70	52-69	56-70	192	161	171	175
Mean		2.2	81.1	39.3	43.4	21.5	1.84	61-70	59-69	53-69	57-69	207	168	178	182

¹ Grain Length: L=long grain; M=medium grain; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging (2013, 2014, & 2016 data - no lodging in 2015); ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot; ⁴ Data from Riceland Grain Quality Lab, 2013-2015.

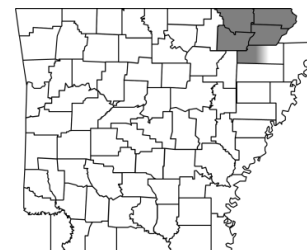
Arkansas Rice Performance Trials (ARPT)

Clay County 2014-2016 Summary – Foley Silt Loam Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	Straw Strength ²	50% Heading ³	Plant Height	Test Weight	Milling Yield by Year				Grain Yield by Year			
						2014	2015	2016	Mean	2014	2015	2016	Mean
	Rating	Days	in.	lbs/bu	% Head Rice - % Total Rice				Bushels / Acre				
Caffey	M	1.0	92	40	42.6	53-70	65-68	43-68	54-69	235	194	196	208
CL111	L	1.0	88	39	43.5	60-70	65-71	54-69	60-70	188	160	157	168
CL151	L	2.5	89	39	43.2	62-71	66-71	49-70	59-71	203	182	149	178
CL153	L	1.0	87	40	43.6	--	66-72	61-70	64-71	--	166	180	173
CL163	L	1.5	92	40	42.8	61-69	63-70	55-70	60-70	195	133	145	158
CL172	L	1.0	88	38	43.2	--	65-71	46-70	56-70	--	156	171	163
CL272	M	1.0	87	39	43.7	--	61-69	52-68	57-69	--	171	198	185
Diamond	L	2.0	89	40	43.7	57-67	64-70	51-68	57-69	214	189	181	194
Jupiter	M	4.5	91	38	41.7	55-68	66-69	58-70	60-69	177	183	133	165
LaKast	L	1.0	88	42	44.1	60-71	61-68	56-71	59-70	212	178	194	194
Mermentau	L	1.0	91	39	43.0	66-71	66-71	59-71	64-71	191	174	173	180
Roy J	L	1.0	95	43	42.6	60-71	62-69	47-69	56-70	224	182	191	199
RT CL XL745	L	2.5	86	45	43.8	60-72	63-71	44-70	55-71	211	194	194	199
RT XL753	L	1.5	86	43	44.0	56-71	60-71	36-67	51-70	268	219	252	247
RT XL760	L	4.0	89	48	43.1	--	63-70	50-68	56-69	--	211	179	195
Taggart	L	1.0	93	44	42.7	57-71	63-71	44-69	55-70	228	182	193	201
Thad	L	1.0	89	38	43.6	--	62-69	50-70	56-69	--	130	156	143
Titan	M	2.5	87	39	43.0	55-70	64-69	55-69	58-70	240	180	209	210
Wells	L	1.0	91	41	43.3	49-70	64-72	51-69	55-70	205	179	194	193
Mean		1.7	89	41	43.2	58-70	64-70	51-69	57-70	214	177	181	187

¹ Grain Length: L=long grain; M=medium grain; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging (2013, 2014, & 2016 data - no lodging in 2015); ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot.



Arkansas Rice Performance Trials (ARPT)

RREC, Arkansas County 2014-2016 Summary – Dewitt Silt Loam Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	Straw Strength ² Rating	50% Heading ³ Days	Plant Height in.	Test Weight lbs/bu	Milling Yield by Year				Grain Yield by Year			
						2014	2015	2016	Mean	2014	2015	2016	Mean
						% Head Rice - % Total Rice				Bushels / Acre			
Caffey	M	1.0	85	39.5	41.7	57-68	67-69	62-69	62-69	201	182	169	184
CL111	L	1.0	80	39.6	42.8	65-72	67-70	62-68	65-70	148	133	170	150
CL151	L	1.0	81	38.2	41.9	65-71	67-71	54-70	62-71	183	136	199	172
CL153	L	1.0	83	38.2	41.7	--	66-69	58-70	62-70	--	124	191	157
CL163	L	1.0	83	39.9	42.0	63-69	65-70	59-71	62-70	182	145	184	170
CL172	L	1.0	82	36.8	41.3	--	66-70	60-72	63-71	--	133	174	153
CL272	M	1.0	85	38.6	41.4	--	61-69	57-70	59-70	--	141	162	152
Diamond	L	1.0	82	42.4	42.2	62-69	63-71	63-69	63-70	212	172	202	195
Jupiter	M	1.0	85	36.9	41.3	61-68	66-68	59-70	62-69	227	194	207	209
LaKast	L	1.0	79	42.3	42.5	63-71	57-69	61-71	60-70	176	149	189	171
Mermentau	L	1.0	82	37.3	42.2	67-71	63-67	60-70	63-69	163	137	169	156
Roy J	L	1.0	87	43.2	41.8	62-70	63-69	62-70	62-70	184	146	159	163
RT CL XL745	L	2.0	78	45.8	42.5	56-70	59-70	59-71	58-70	186	198	235	206
RT XL753	L	1.0	79	46.8	42.8	54-70	53-69	63-70	57-70	232	210	258	233
RT XL760	L	1.0	83	48.6	41.1	--	61-69	55-69	58-69	--	204	238	221
Taggart	L	1.0	85	43.2	42.4	61-70	62-72	56-70	60-71	172	143	186	167
Thad	L	1.0	86	37.5	41.6	--	61-69	59-71	60-70	--	133	197	165
Titan	M	1.0	79	40.1	42.2	53-68	63-69	59-70	58-69	228	173	223	208
Wells	L	1.0	83	39.6	42.4	59-71	61-71	57-70	59-71	174	131	170	159
Mean		1.1	83	40.8	42.0	60-70	63-70	59-70	61-70	191	157	194	179

¹ Grain Length: L=long grain; M=medium grain; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging (2013, 2014, & 2016 data - no lodging in 2015); ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot.



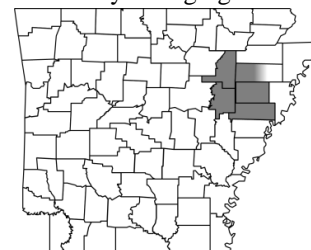
Arkansas Rice Performance Trials (ARPT)

PTRS, St. Francis County 2014-2016 Summary – Calloway Silt Loam Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	Straw Strength ² Rating	50% Heading ³ Days	Plant Height in.	Test Weight lbs/bu	Milling Yield by Year				Grain Yield by Year			
						2014	2015	2016	Mean	2014	2015	2016	Mean
						% Head Rice - % Total Rice				Bushels / Acre			
Caffey	M	1.0	78	37.3	43.0	57-70	40-67	45-66	47-67	233	176	162	190
CL111	L	1.0	73	39.6	43.4	63-71	56-68	54-64	58-68	195	139	150	161
CL151	L	2.0	74	39.0	42.9	65-72	50-68	50-68	55-69	212	161	175	183
CL153	L	1.0	73	40.1	44.0	--	57-68	55-67	56-68	--	150	165	157
CL163	L	1.0	81	38.1	43.1	62-70	60-69	49-66	57-68	185	148	137	157
CL172	L	1.0	75	37.9	43.5	--	54-69	47-68	50-69	--	128	149	138
CL272	M	1.0	73	38.6	44.0	--	37-67	51-67	44-67	--	158	178	168
Diamond	L	1.0	79	40.4	42.7	62-70	59-68	48-64	56-67	216	171	185	191
Jupiter	M	1.0	78	36.8	42.3	60-68	45-68	52-66	52-67	239	164	157	186
LaKast	L	1.0	74	42.1	43.6	64-71	54-68	49-67	56-69	219	148	173	180
Mermentau	L	1.0	76	38.3	43.0	66-71	61-69	55-68	61-69	192	140	148	160
Roy J	L	1.0	82	40.4	42.6	62-71	59-70	52-67	58-69	214	170	164	183
RT CL XL745	L	4.0	71	44.9	43.0	60-71	54-68	43-68	52-69	208	189	188	195
RT XL753	L	1.0	73	45.1	43.5	58-71	49-68	45-65	51-68	265	209	209	228
RT XL760	L	3.0	74	45.5	43.0	--	57-68	50-66	54-67	--	210	226	218
Taggart	L	1.0	82	43.8	42.7	56-70	49-69	48-69	51-70	204	159	170	178
Thad	L	1.0	79	38.0	43.5	--	47-67	41-66	44-67	--	109	128	118
Titan	M	1.0	72	37.3	42.7	54-69	43-66	53-67	50-67	232	142	170	182
Wells	L	1.0	78	41.9	42.9	52-71	49-69	54-69	52-69	195	165	152	170
Mean		1.3	76	40.3	43.1	60-70	52-68	50-67	53-68	215	160	168	176

¹ Grain Length: L=long grain; M=medium grain; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging (2013, 2014, & 2016 data - no lodging in 2015); ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot.



Arkansas Rice Performance Trials (ARPT)

NEREC, Mississippi County 2014-2016 Summary – Sharkey Silty Clay Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	Straw Strength ²	50% Heading ³	Plant Height	Test Weight	Milling Yield by Year				Grain Yield by Year			
						2014	2015	2016	Mean	2014	2015	2016	Mean
		Rating	Days	in.	lbs/bu	% Head Rice - % Total Rice				Bushels / Acre			
Caffey	M	2.0	85	36.2	41.7	55-70	61-66	52-68	56-68	160	206	181	182
CL111	L	1.7	84	37.6	42.4	59-71	64-70	61-67	61-69	65	147	157	123
CL151	L	3.0	84	37.2	41.6	64-71	63-69	57-71	61-70	120	188	177	162
CL153	L	1.0	85	38.6	41.9	--	64-69	60-70	62-69	--	185	180	183
CL163	L	2.3	87	35.7	41.8	62-70	63-69	62-71	62-70	95	180	152	142
CL172	L	1.0	85	36.3	41.0	--	65-70	54-71	59-70	--	165	170	167
CL272	M	1.0	82	36.6	42.2	--	62-68	58-70	60-69	--	206	188	197
Diamond	L	2.0	87	40.2	41.5	61-70	63-69	55-67	59-69	126	232	211	190
Jupiter	M	2.3	85	36.3	41.0	57-69	64-67	59-71	60-69	128	201	207	179
LaKast	L	2.0	84	40.7	42.1	59-71	63-70	58-71	60-71	91	184	190	155
Mermentau	L	1.3	85	36.9	42.2	62-71	64-69	62-71	63-71	93	187	181	154
Roy J	L	1.0	92	40.6	41.5	64-72	63-69	58-70	62-70	116	195	187	166
RT CL XL745	L	3.0	79	40.8	42.7	62-71	58-68	42-69	54-69	48	185	183	139
RT XL753	L	1.7	81	41.0	42.8	46-70	60-69	43-67	50-69	86	218	235	180
RT XL760	L	3.0	86	46.6	41.5	--	60-68	57-70	58-69	--	226	202	214
Taggart	L	1.7	90	42.5	41.9	59-71	64-70	53-70	59-70	103	194	197	165
Thad	L	1.0	87	37.6	41.7	--	65-69	57-71	61-70	--	177	166	172
Titan	M	2.3	80	37.4	42.1	49-69	64-69	59-70	57-69	160	200	201	187
Wells	L	1.3	88	38.7	41.9	59-71	63-70	58-70	60-70	109	182	189	160
Mean		1.8	85	38.8	41.9	58-71	63-69	56-70	59-70	107	192	187	169

¹ Grain Length: L=long grain; M=medium grain; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging (2013, 2014, & 2016 data - no lodging in 2015); ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot.



Arkansas Rice Performance Trials (ARPT)

Desha County 2013-2015 Summary – Sharkey & Perry Clay Soils

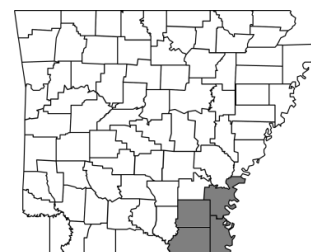
University of Arkansas System Division of Agriculture

****2016 trial was lost due to blackbird damage.**

Cultivar	Grain Length ¹	Straw Strength ²	50% Heading ³	Plant Height	Test Weight	Milling Yield by Year				Grain Yield by Year			
						2013	2014	2015	Mean	2013	2014	2015	Mean
		Rating	Days	in.	lbs/bu	% Head Rice - % Total Rice				Bushels / Acre			
Caffey	M	1.0	78	39	42.7	64-68	62-68	50-68	59-68	204	195	139	180
CL111	L	1.0	76	42	43.3	63-69	68-71	56-69	62-70	206	185	141	178
CL151	L	1.0	76	41	42.6	63-69	68-71	59-69	63-70	134	211	164	170
CL153	L	--	73	--	48.0	--	--	58-69	58-69	--	--	144	144
CL163	L	1.0	80	40	43.9	--	67-70	59-68	63-69	--	181	149	165
CL172	L	1.0	78	38	42.9	65-69	69-71	56-69	63-70	232	161	130	174
CL272	M	--	75	--	47.4	--	--	37-67	37-67	--	--	132	132
Diamond	L	1.0	78	43	42.7	62-68	65-68	51-68	59-68	251	228	169	216
Jupiter	M	1.0	80	40	41.7	63-67	60-67	63-68	62-67	157	210	137	168
LaKast	L	1.0	79	40	42.8	64-70	67-71	46-66	59-69	230	203	150	194
Mermentau	L	1.0	78	41	43.0	64-68	68-70	60-69	64-69	220	176	167	187
Roy J	L	1.0	80	41	42.4	64-70	64-68	56-71	61-69	231	205	149	195
RT CL XL745	L	3.0	76	45	43.3	62-70	67-72	55-69	61-70	177	205	167	183
RT XL753	L	1.0	75	43	43.8	63-70	68-73	48-68	60-70	256	271	202	243
RT XL760	L	--	75	--	48.2	--	--	54-68	54-68	--	--	187	187
Taggart	L	1.0	79	43	43.1	63-69	67-70	55-69	62-69	238	197	157	198
Thad	L	--	74	--	47.0	--	--	58-68	58-68	--	--	137	137
Titan	M	1.0	76	40	42.1	64-68	65-69	45-65	58-68	216	241	129	196
Wells	L	1.0	80	45	42.5	63-70	67-70	50-68	60-70	221	195	149	188
Mean		1.1	77	41.3	43.9	63-69	66-70	53-68	59-69	212	204	153	181

¹ Grain Length: L=long grain; M=medium grain; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging;

³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot.



Arkansas Rice Performance Trials (ARPT)

2016 Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	Straw Strength ²	50% Heading ³	Plant Height	Test Weight	Milling Yield ⁴	Grain Yield by Location and Planting Date					
							CLAY April 13	NEC May 23	NEREC April 25	PTRS May 11	RREC April 5	MEAN
		Rating	Days	in.	lbs/bu	%HR-%TR	Bushels / Acre					
Caffey	M	1.0	86	40	38.4	49-67	196	140	181	162	169	170
CL111	L	1.0	82	42	39.0	58-67	157	111	157	150	170	149
CL151	L	2.8	82	40	38.3	53-70	149	119	177	175	199	164
CL153	L	1.0	85	41	39.0	57-69	180	127	180	165	191	169
CL163	L	1.3	87	40	38.6	54-70	145	131	152	137	184	150
CL172	L	1.0	85	39	38.7	50-69	171	141	170	149	174	161
CL272	M	1.0	85	40	39.3	53-69	198	152	188	178	162	176
Diamond	L	1.5	85	43	39.1	55-68	181	163	211	185	202	188
Jupiter	M	1.8	86	39	37.7	57-69	133	132	207	157	207	167
LaKast	L	1.3	82	44	39.3	55-69	194	163	190	173	189	182
Mermentau	L	1.0	85	40	38.9	57-70	173	125	181	148	169	159
Roy J	L	1.0	90	44	38.7	55-69	191	135	187	164	159	167
RT 7311 CL	L	2.3	80	46	38.8	54-69	183	185	219	207	245	208
RT CL XL745	L	3.5	79	46	38.3	46-69	194	163	183	188	235	192
RT Gemini 214 CL	L	2.5	86	48	39.0	53-69	167	186	224	233	246	211
RT XL753	L	1.3	80	46	39.6	45-67	252	202	235	209	258	231
RT XL760	L	3.3	87	49	38.4	52-68	179	182	202	226	238	205
Taggart	L	1.0	88	45	38.9	47-69	193	147	197	170	186	179
Thad	L	1.0	88	39	38.9	52-70	156	89	166	128	197	147
Titan	M	1.5	80	40	38.9	54-69	209	155	201	170	223	192
Wells	L	1.0	85	43	38.8	52-69	194	150	189	152	170	171
Mean		1.6	84.3	42.6	38.8	53-69	181	148	190	173	199	178

¹ Grain Length: L=long grain; M=medium grain; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging;

³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot; ⁴ %HR = head rice; %TR = total milled rice

Producer Rice Evaluation Program (PREP) On-Farm Trials

2016 Grain Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	County Location / Planting Date / Soil Type								MEAN
		Conway	Crittenden	Greene	Lawrence	Mississippi	Poinsett	White	Woodruff	
		April 26	April 15	April 13	April 8	April 15	April 13	April 26	April 8	
		Roellen silty clay	Sharkey silty clay loam	Foley-Bonn silt loam	Hilleman silt loam	Sharkey-Steele silty clay	Henry silt loam	Immanuel silt loam	Overcup silt loam	
Grain Yield (Bushels / Acre)										
CL111	L	162	187	188	209	181	162	118	157	171
CL151	L	176	224	194	221	181	193	158	167	189
CL153	L	203	214	201	213	177	199	148	156	189
CL163	L	172	145	185	185	153	177	109	137	158
CL172	L	186	209	186	211	188	195	150	160	186
CL272	M	214	215	216	229	176	211	152	173	198
CLX1024	L	144	181	195	182	177	179	109	131	162
CLX1111	M	247	226	211	226	184	220	177	185	209
Diamond	L	212	235	201	229	197	220	188	167	206
Jupiter	M	244	206	226	232	196	236	176	170	211
LaKast	L	173	209	199	220	169	208	137	169	185
Mermentau	L	176	199	199	203	173	183	146	134	177
Roy J	L	247	227	200	211	201	201	172	157	202
RT 7311 CL	L	225	240	230	245	230	249	211	161	224
RT CLXL745	L	192	226	224	218	213	215	192	186	208
RT Gemini 214 CL	L	273	247	248	238	252	247	206	187	237
RT XL753	L	242	260	224	279	244	250	235	179	239
RT XL760	L	260	240	234	238	220	233	190	178	224
Thad	L	204	192	210	218	182	188	117	130	180
Titan	M	209	233	214	254	204	240	168	172	212
Mean		208	216	209	223	195	210	163	163	198

¹ Grain Length: L=long grain; M=medium grain.

Producer Rice Evaluation Program (PREP) On-Farm Trials

2016 Milling Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	County Location / Planting Date / Soil Type								MEAN
		Conway	Crittenden	Greene	Lawrence	Mississippi	Poinsett	White	Woodruff	
		April 26	April 15	April 13	April 8	April 15	April 13	April 26	April 8	
		Roellen silty clay	Sharkey silty clay loam	Foley-Bonn silt loam	Hilleman silt loam	Sharkey-Steele silty clay	Henry silt loam	Immanuel silt loam	Overcup silt loam	
Milling Yield (% Head Rice - % Total Rice)										
CL111	L	54-69	66-73	49-69	58-73	56-71	50-69	60-72	48-70	55-71
CL151	L	56-71	66-73	51-68	57-71	53-70	47-70	60-71	49-70	55-70
CL153	L	59-71	65-73	52-69	58-72	56-71	52-70	64-72	52-71	57-71
CL163	L	59-71	61-71	52-68	59-72	51-69	56-70	60-71	57-70	57-70
CL172	L	56-70	65-72	54-69	59-72	55-70	53-69	62-72	54-71	57-70
CL272	M	52-69	63-70	49-67	55-69	53-69	33-67	56-69	22-66	48-68
CLX1024	L	59-70	66-73	47-68	58-72	53-70	44-67	61-72	50-70	55-70
CLX1111	M	47-70	59-70	44-66	51-69	47-68	27-67	56-69	19-66	44-68
Diamond	L	49-69	58-71	47-68	57-71	51-70	51-70	60-71	39-69	52-70
Jupiter	M	58-68	62-67	54-66	57-68	57-69	48-67	62-69	45-66	55-68
LaKast	L	48-69	61-72	44-67	60-73	56-71	43-69	50-71	44-69	51-70
Mermentau	L	62-71	66-72	55-69	61-72	59-71	57-70	63-72	55-71	60-71
Roy J	L	52-70	60-72	50-69	58-73	55-71	50-69	59-72	41-69	53-71
RT 7311 CL	L	47-69	59-72	41-68	49-70	46-69	41-68	57-71	43-69	48-70
RT CLXL745	L	49-70	59-72	46-68	47-71	51-70	43-69	58-72	40-69	49-70
RT Gemini 214 CL	L	50-69	60-71	50-68	53-70	48-69	45-68	60-71	44-67	51-69
RT XL753	L	49-70	59-72	39-68	53-72	42-68	38-69	56-71	35-68	46-70
RT XL760	L	53-70	60-71	47-67	52-70	53-69	48-69	58-71	46-67	52-69
Thad	L	53-70	62-70	52-68	58-72	51-70	53-69	61-71	48-69	55-70
Titan	M	51-68	64-71	45-67	56-70	53-69	33-67	54-69	19-66	47-68
Mean		53-70	62-71	48-68	56-71	52-70	46-69	59-71	42-69	52-70

¹ Grain Length: L=long grain; M=medium grain.

DD50 Planting Date Trials

RREC, Arkansas County – 2016 Grain & Milling Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Yields (Bushels/Acre)							Milling Yield (%HR-%TR) ¹						
	Mar 22	Apr 5	Apr 23	May 6	May 23 ²	June 9	Mean	Mar 22	Apr 5	Apr 23	May 6	May 23 ¹	June 9	Mean
CL111	181	200	157	150	93	152	168	65-71	67-73	62-72	63-73	--	63-72	64-72
CL151	216	216	154	132	118	117	167	62-70	66-72	64-72	64-72	--	62-71	63-72
CL153	211	206	177	138	77	152	177	66-72	67-73	65-73	66-73	--	65-73	66-73
CL163	191	206	172	146	99	140	171	61-70	62-72	63-72	62-71	--	66-73	63-72
CL172	212	193	167	118	63	157	170	64-71	67-73	61-72	59-70	--	66-73	63-72
CL272	215	203	177	129	72	167	178	66-70	68-71	61-71	56-70	--	60-70	62-70
Diamond	230	225	190	159	131	193	200	57-69	61-71	58-71	59-71	--	64-72	60-71
Jupiter	219	214	208	166	116	172	196	63-68	66-69	63-69	65-70	--	65-69	65-69
LaKast	213	218	185	177	139	171	193	53-69	60-72	57-72	53-71	--	65-73	58-72
Mermentau	181	167	146	133	115	158	157	63-71	66-72	62-72	64-72	--	66-72	64-72
Roy J	195	179	179	148	135	168	174	58-70	65-73	60-72	60-71	--	66-74	62-72
RT 7311 CL	249	264	198	231	151	196	227	57-70	60-72	53-71	56-72	--	64-74	58-72
RT CLXL729	237	241	193	223	163	186	216	59-69	59-70	57-70	60-71	--	64-73	60-70
RT CLXL745	222	217	205	216	148	184	209	59-71	63-73	55-72	60-73	--	67-75	61-73
RT Gemini 214 CL	258	235	216	232	202	191	227	58-70	61-71	59-71	62-71	--	65-73	61-71
RT XL753	247	264	204	237	205	193	229	58-71	63-73	48-70	51-72	--	63-74	57-72
RT XL760	257	233	206	231	197	201	225	58-69	61-71	58-71	62-72	--	65-73	61-71
Thad	216	218	196	145	107	169	189	61-70	65-72	61-72	63-71	--	64-72	63-71
Titan	223	228	191	169	98	169	196	65-69	67-70	60-70	53-69	--	62-70	61-70
Wells	206	185	156	134	98	175	171	58-71	63-73	58-73	59-72	--	63-74	60-72
Mean	219	216	184	171	126	171	192	61-70	64-72	59-71	60-71	--	64-72	62-71

¹%HR = head rice, %TR = total milled rice; ²May 23 planting date not included in average due to bird damage at trial emergence.

General Rice Cultivar Characteristics

University of Arkansas System Division of Agriculture

Cultivar	Grain Type	Year Released & Source	Pedigree	Highlights
Antonio	L	2012 – Texas	Cypress/Cocodrie	A short season, semi-dwarf long-grain variety with very good yield potential and milling quality. Similar to Cocodrie for agronomic characteristics.
Bengal	M	1992 – Louisiana	Mars/M-201//Mars	A short season, semi-dwarf medium-grain variety with good yield potential and milling quality. It has a preferred large grain size.
Bowman	L	2007 – Mississippi	RU8603006/3/Mars/Newrex//Tebonnet	A short season, high-amylose long-grain variety designed for canning rice market. Has good grain and milling yield potential and is susceptible to blast and moderately susceptible to sheath blight and straighthead.
Caffey	M	2011 – Louisiana	Bengal//Mercury/Rico/3/Mercury/Rico//Bengal	A short season, semi-dwarf medium-grain variety with excellent yield potential and milling quality. Susceptible to blast, sheath blight, and panicle blight.
Cheniere	L	2003 – Louisiana	Newbonnet/Katy/3/82CAY21/Lemont//L-202	A short season, semi-dwarf long-grain variety with good yield potential and milling quality comparable to Cypress. Susceptible to sheath blight and blast.
CL111	L	2008 – BASF, Horizon Ag	Proprietary variety: 9502008-A/Drew/3/CFX-29//AR 1142/LA 2031	An early season, semi-dwarf long-grain Clearfield variety similar to CL 131. Susceptible to blast, straighthead, and bacterial panicle blight.
CL151	L	2007 – BASF, Horizon Ag	Proprietary variety: CFX-26/4/Lemont//2001-5/3/Lemont//L-202/Taducan	A mid-season, semi-dwarf long-grain Clearfield variety similar to Cocodrie with good yield potential and high tolerance to Newpath herbicide. It is very susceptible to blast and straighthead, and susceptible to lodging and sheath blight.
CL153	L	2016 – BASF, Horizon Ag	Proprietary variety: 950208-A//AR 1188/Cocodrie/3/CFX-26/9702128/4/Cheniere	A mid-season, semi-dwarf long-grain Clearfield variety similar to CL151 with good yield potential and high tolerance to Newpath herbicide. Susceptible to sheath blight, kernel smut, and false smut. Moderately susceptible to blast.
CL163	L	2015 – BASF, Horizon Ag	Proprietary variety: 248CO13E-1	A mid-season, semi-dwarf long-grain Clearfield variety with good yield potential and milling quality and high tolerance to Newpath herbicide. Susceptible to sheath blight and blast. Moderately susceptible to bacterial panicle blight. High amylose content.
CL172	L	2016 – BASF, Horizon Ag	Proprietary variety: 248Drew16C-1-3/6/LaGrue//Katy/Starbonnet/5/Newbonnet/Katy//RA73/Lemont/4/LeBonne//9902/3/Dawn/9695//Starbonnet	A mid-season, semi-dwarf long-grain Clearfield variety with good yield potential and milling quality. High tolerance to Newpath herbicide. Moderately susceptible to sheath blight, blast, bacterial panicle blight, and kernel smut. Susceptible to false smut.

General Rice Cultivar Characteristics (cont.)

University of Arkansas System Division of Agriculture

Cultivar	Grain Type	Year Released & Source	Pedigree	Highlights
CL272	M	2016 – BASF, Horizon Ag	Proprietary variety: Neptune//Bengal/CL161	A mid-season, medium-grain Clearfield variety. High tolerance to Newpath herbicide. Very susceptible to bacterial panicle blight. Susceptible to sheath blight and blast.
Colorado	L	2012 – Texas	Cocodrie/L-202	A short season, semi-dwarf long-grain variety with good yield potential and milling quality.
Della-2	L-A	2012 – Louisiana	Cypress//L-205//Della	A short season, semi-dwarf long-grain aromatic variety with good yield and very good grain quality. Improved lodging compared to Della.
Diamond	L	2016 – Arkansas	Francis/Roy J	A mid-season, long-grain variety with excellent yield potential and good milling quality. Very good straw strength. Susceptible to blast and sheath blight, moderately susceptible to bacterial panicle blight. Very susceptible to false smut.
Francis	L	2002 – Arkansas	Lebonnet/9902/3/Dawn/9695/Starbonnet/4/ LaGrue	A short season, long-grain variety with excellent yield potential, susceptible to rice blast and very susceptible to kernel smut. It is the best long grain for high pH and salt soils of NE Arkansas west of Crowley’s ridge but should not be stressed for water due to blast concerns.
Jazzman	L-A	2009 – Louisiana	96 a-8/Ahrent	A mid-season, Jasmine-type aromatic variety with good yield potential and milling quality.
Jazzman-2	L-A	2011 – Louisiana	9502008//Katy/902207x2/3/ Jasmine 85/Della//Leah/Della	A mid-season, Jasmine-type aromatic variety with fair yield and good milling compared to Jazzman. Susceptible to sheath blight, bacterial panicle blight, and straighthead.
Jupiter	M	2006 – Louisiana	Mercury//Mercury/Koshihikari/3/Bengal// Mercury/Rico	A mid-season, semi-dwarf, medium-grain variety with excellent yield potential and milling quality. It has a small grain size but has moderate resistance to bacterial panicle blight.
LaKast	L	2014 – Arkansas	LaGrue//Katy/Starbonnet/3/LaGrue	A mid-season, long-grain variety with excellent yield potential and good milling quality. Susceptible to blast and sheath blight.
Mermentau	L	2012 – Louisiana	AR1188/Cocodrie//9502088/LaGrue	A mid-season, semi-dwarf, long-grain variety with good yield potential and physical characteristics similar to Cocodrie, Cheniere, and Catahoula.
MM14	M	2014 – Missouri	Baldo/RU9201093	A mid-season, medium-grain variety with good yield potential. Susceptible to bacterial panicle blight.

General Rice Cultivar Characteristics (cont.)

University of Arkansas System Division of Agriculture

Cultivar	Grain Type	Year Released & Source	Pedigree	Highlights
Rex	L	2010 – Mississippi	Rosemont//Rexmont/IR36	A short season, semi-dwarf long-grain variety with excellent yield potential and good milling quality. Very good straw strength, but is susceptible to most diseases.
Roy J	L	2010 – Arkansas	LaGrue//Katy//Starbonnet/5/Newbonnet//Katy//RA73/Lemont/4/Lebonnet/9902/3/Dawn/9695//Starbonnet	A mid-season, long-grain variety with excellent yield potential and good milling quality. Excellent straw strength. Susceptible to blast and moderately susceptible to sheath blight.
RT 7311 CL	L	2016 – RiceTec, Inc.	Proprietary hybrid	A short season, long-grain hybrid with excellent yield potential. Moderately susceptible to sheath blight.
RT CLXL729	L	2007 – RiceTec, Inc.	Proprietary hybrid	A short season, long-grain Clearfield hybrid with excellent yield potential and moderately susceptible to sheath blight, and moderately resistant to blast.
RT CLXL745	L	2008 – RiceTec, Inc.	Proprietary hybrid	A short season, long-grain Clearfield hybrid with excellent yield potential, moderately susceptible to sheath blight, and moderately resistant to blast, and susceptible to lodging. Reported to have improved tolerance to shattering.
RT CLXP756	L	2011 – RiceTec, Inc.	Proprietary hybrid	A mid-season, long-grain Clearfield hybrid with good yield potential and average milling quality. Similar to CL XL729.
RT CLXL4534	L	2013 – RiceTec, Inc.	Proprietary hybrid	A short season, long-grain Clearfield hybrid with good yield potential.
RT Gemini 214 CL	L	2016 – RiceTec, Inc.	Proprietary hybrid	A mid-season, long-grain Clearfield hybrid with excellent yield potential. Susceptible to sheath blight.
RT XL723	L	2005 – RiceTec, Inc.	Proprietary hybrid	A short season, long-grain hybrid with excellent yield potential, average milling quality; resistant to blast and moderately susceptible to sheath blight.
RT XL753	L	2011 – RiceTec, Inc.	Proprietary hybrid	A short season, long-grain hybrid with excellent yield potential. Resistant to blast, moderately susceptible to sheath blight and straighthead.
RT XL760	L	2014 – RiceTec, Inc.	Proprietary hybrid	A short season, long-grain hybrid with good yield potential.
Taggart	L	2009 – Arkansas	LaGrue//Katy//Starbonnet/5/LaGrue//Lemont//RA73/3/LaGrue/4/LaGrue	A mid-season, long-grain variety with very good yield potential and average milling quality. Resistant to straighthead. Moderately susceptible to sheath blight and rice blast.

General Rice Cultivar Characteristics (cont.)

University of Arkansas System Division of Agriculture

Cultivar	Grain Type	Year Released & Source	Pedigree	Highlights
Thad	L	2016 – Mississippi	Rosemont/3/Mars/Newrex//Tebonnet	A mid-season, long-grain variety with good yield potential and milling quality. Susceptible to blast, sheath blight, and straighthead, very susceptible to false smut. High amylose content.
Titan	M	2016 – Arkansas	M206//Bengal/Lafitte /3/Jupiter	A short season, medium-grain variety with excellent yield potential. Moderately susceptible to blast and bacterial panicle blight. It has a preferred large grain size.
Wells	L	1999 – Arkansas	Newbonnet/3/Lebonnet/CI9902//Labelle	A short season, long-grain variety with excellent yield potential, average to good milling quality, large kernel size similar to Lemont, but is susceptible to rice blast. Only moderately susceptible to kernel smut and most other diseases.

Arkansas Rice Cultivar Reactions to Diseases and Lodging

University of Arkansas System Division of Agriculture

Cultivar	Sheath Blight	Blast	Straight head	Bacterial Panicle Blight	Narrow Brown Leaf Spot	Stem Rot	Kernel Smut	False Smut	Lodging	Black Sheath Rot
Antonio	S	S	--	MS	MS	S	S	MS	MS	--
Caffey	MS	MR	--	MS	R	--	--	MS	MR	--
Cheniére	S	MS	VS	MS	S	S	S	S	MR	MS
CL111	VS	MS	S	VS	S	VS	S	S	MS	S
CL151	S	VS	VS	VS	S	VS	S	S	S	S
CL153	S	MS	--	MS	S	--	S	S	MR	--
CL163	VS	S	--	MS	R	--	MS	--	MS	--
CL172	MS	MS	--	MS	S	--	MS	S	MR	--
CL272	S	MS	--	VS	S	--	MS	--	MR	S
Cocodrie	S	S	VS	S	S	VS	S	S	MR	S
Della-2	S	R	--	MS	MS	--	--	--	--	--
Diamond	S	S	--	MS	--	S	S	VS	MS	--
Francis	MS	VS	MR	VS	S	S	VS	S	MS	S
Jazzman	MS	MR	S	S	S	S	MS	S	MS	MS
Jazzman-2	S	MS	--	VS	S	--	S	S	--	--
JES	S	R	VS	S	R	VS	MS	MS	S	MR
Jupiter	S	S	S	MR	MR	VS	MS	MS	S	MR
LaKast	MS	S	MS	MS	MS	S	S	S	MS	MS
Mermentau	S	S	VS	MS	MS	--	S	S	MS	--
MM14	--	--	--	S	--	--	--	S	--	--
Rex	S	S	S	S	MS	S	S	S	MR	S
Roy J	MS	S	S	S	R	S	VS	S	MR	MS
RT 7311 CL	MS	--	--	--	--	--	S	--	MS	--
RT CL XL729	MS	R	MS	MR	R	S	MS	S	S	S
RT CL XL745	S	R	R	MR	R	S	S	S	S	S
RT CL XP756	MS	--	--	--	--	--	--	S	--	S
RT Gemini 214 CL	S	--	--	--	--	--	MS	--	MS	--
RT XL723	MS	R	S	MR	MS	S	MS	S	MS	S
RT XL753	MS	R	MS	MR	R	--	MS	S	MS	S
RT XL760	MS	MR	--	MR	R	--	MS	VS	S	--
Taggart	MS	MS	R	MS	MS	S	S	S	MS	MS
Thad	S	S	S	MS	-	-	S	VS	MR	-
Titan	S	MS	--	MS	--	--	MS	MS	MS	--
Wells	S	S	S	S	S	VS	S	S	MS	MS

Reaction: R = Resistant; MR = Moderately Resistant; MS = Moderately Susceptible; S = Susceptible; VS = Very Susceptible
 Cells with no values indicate no definitive Arkansas disease rating information is available at this time. Reactions were determined based on historical and recent observations from test plots and grower fields across Arkansas and other rice states in southern USA. In general, these ratings represent expected cultivar reactions to disease under conditions that most favor severe disease development.

Table prepared by Y. Wamishe, Assistant Professor/Extension Plant Pathologist