



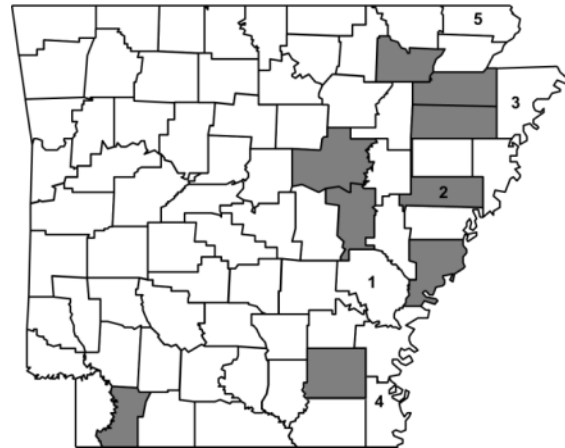
Arkansas Rice Cultivar Testing, 2015-2017

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 2015-2017. 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 2017 is **164** bu/A as reported by the USDA Crop Reporting Service (<http://usda.mannlib.cornell.edu/usda/nass/CropProd//2010s/2017/CropProd-11-09-2017.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, Mississippi, Missouri, and Texas with established cultivars currently grown in Arkansas.

Locations (1 - 5) of the ARPT (numbered) and PREP sites (shaded) for 2017.



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. Whitaker Farm, Chicot County, 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. 173
- Rice Information Sheet No. 175
- Rice Information Sheet No. 176

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Arkansas Rice Performance Trials (ARPT)

2015-2017 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	%	2015	2016	2017	Mean	2015	2016	2017	Mean
		% Head Rice - % Total Rice							Bushels / Acre						
CL111	L	1.3	81	39	41.9	21.3	2.78	62-70	58-67	58-70	59-69	144	149	167	153
CL151	L	2.1	81	38	41.3	19.9	3.57	61-70	53-70	58-70	57-70	166	164	191	174
CL153	L	1.0	84	38	41.7	20.1	1.90	62-69	57-69	61-71	60-70	154	169	185	169
CL163	L	1.5	86	38	41.3	20.7	2.32	61-70	54-70	60-70	58-70	151	150	190	164
CL172	L	1.0	84	36	41.1	21.1	1.93	58-69	50-69	60-70	56-70	142	161	180	161
CL272	M	1.0	84	38	41.7	21.9	2.23	62-70	53-69	52-68	56-69	162	176	193	177
Diamond	L	1.4	84	40	41.3	21.4	1.61	60-69	55-68	56-69	57-69	186	188	206	194
Jupiter	M	1.8	85	36	40.3	20.9	2.35	61-68	57-69	59-67	59-68	176	167	203	182
LaKast	L	1.5	81	41	42.0	21.7	1.53	56-68	55-69	56-70	56-69	162	182	188	177
MM14	M	1.1	83	33	42.8	21.1	1.46	61-69	.	55-68	58-68	155	--	186	171
Roy J	L	1.0	88	41	40.8	20.7	1.70	61-70	55-69	60-70	58-70	169	167	196	177
RT 7311 CL	L	2.0	83	42	38.9	20.5	5.38	--	54-69	50-69	52-69	--	208	214	211
RT CLXL745	L	2.7	79	43	41.7	22.4	3.27	58-69	46-69	52-70	52-69	187	192	202	194
RT Gemini 214 CL	L	2.1	88	45	39.1	20.1	4.74	--	53-69	56-69	54-69	--	211	215	213
RT XP753	L	1.4	80	43	42.2	21.2	3.12	54-69	45-67	49-70	49-68	212	231	220	221
RT XP760	L	2.5	85	45	41.5	20.8	4.03	59-69	52-68	55-69	55-69	207	205	218	210
Taggart	L	1.1	87	43	41.2	22.7	1.54	58-70	47-69	59-71	55-70	167	179	183	176
Thad	L	1.0	87	37	41.5	20.6	1.05	58-69	52-70	57-70	56-69	137	147	185	156
Titan	M	1.6	80	38	41.3	22.5	1.95	56-68	54-69	51-68	53-68	165	192	200	186
Wells	L	1.1	85	40	41.4	21.9	1.75	57-70	52-69	55-70	55-70	161	171	182	171
AREX-41105	LA	1.0	85	39	41.4	21.8	1.35	62-70	59-69	62-71	61-70	142	162	176	160
AREX-61124	L	1.0	88	38	39.1	21.4	3.39	--	59-68	63-71	61-70	--	162	186	174
CLX-61030	M	1.3	88	39	38.2	22.1	2.45	--	55-67	58-68	56-67	--	169	202	186
CLX-61111	L	1.2	86	38	38.7	20.6	3.06	--	56-68	58-70	57-69	--	176	190	183
Mean		1.4	84	40	41.0	21.2	2.54	59-69	53-69	57-70	56-69	165	177	194	180

¹ Grain Length: L=long grain, M=medium grain, LA=long grain aromatic; ² Relative straw strength based on field tests using scale: 1=very strong straw, 5=very weak straw; based on percent lodging (2014, 2016, & 2017); 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, 2014-2016.

Arkansas Rice Performance Trials (ARPT)

Clay County 2015-2017 Summary – 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			
		Rating	Days	in.	lbs/bu	2015	2016	2017	Mean	2015	2016	2017	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
CL111	L	1.0	88	39	42.5	65-71	54-69	62-71	61-70	160	157	197	171
CL151	L	2.5	89	38	42.0	66-71	49-70	62-70	59-70	182	149	199	177
CL153	L	1.0	91	38	41.9	66-72	61-70	62-71	63-71	166	180	190	179
CL163	L	1.5	92	39	41.7	63-70	55-70	64-71	61-70	133	145	192	156
CL172	L	1.0	91	35	41.7	65-71	46-70	60-71	57-71	156	171	187	171
CL272	M	1.0	91	38	42.2	61-69	52-68	61-71	58-70	171	198	218	196
Diamond	L	2.0	89	39	42.2	64-70	51-68	58-71	57-70	189	181	227	199
Jupiter	M	2.5	91	37	40.6	66-69	58-70	61-70	62-70	183	133	218	178
LaKast	L	1.0	88	41	42.8	61-68	56-71	61-71	60-70	178	194	201	191
MM14	M	1.0	89	33	43.0	66-69	--	59-69	63-69	173	--	195	184
Roy J	L	1.0	95	41	41.2	62-69	47-69	65-72	58-70	182	191	209	194
RT 7311 CL	L	3.0	92	43	39.2	--	56-70	59-71	57-70	--	183	244	214
RT CLXL745	L	2.5	85	44	43.0	63-71	44-70	60-71	55-71	194	194	218	202
RT Gemini 214 CL	L	2.5	95	45	39.7	--	52-69	61-70	57-69	--	167	227	197
RT XP753	L	1.5	86	41	43.3	60-71	36-67	59-71	52-70	219	252	230	234
RT XP760	L	3.0	91	46	41.9	63-70	50-68	56-71	56-70	211	179	218	203
Taggart	L	1.0	93	43	41.5	63-71	44-69	61-72	56-70	182	193	190	188
Thad	L	1.0	92	37	42.3	62-69	50-70	59-71	57-70	130	156	194	160
Titan	M	2.0	87	37	42.2	64-69	55-69	49-69	56-69	180	209	198	196
Wells	L	1.0	91	41	42.1	64-72	51-69	57-72	57-71	179	194	191	188
AREX-41105	LA	1.0	92	38	42.0	66-71	60-69	61-71	62-71	139	177	197	171
Mean		1.6	90	40	41.9	64-70	51-69	60-71	58-70	174	180	207	188

¹ Grain Length: L=long grain, M=medium grain, LA= long grain aromatic; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging (2014, 2016, & 2017 data - no lodging in 2015); ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot.



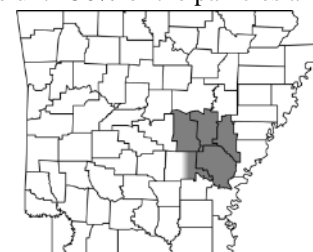
Arkansas Rice Performance Trials (ARPT)

RREC, Arkansas County 2015-2017 Summary – 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			
		Rating	Days	in.	lbs/bu	2015	2016	2017	Mean	2015	2016	2017	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
CL111	L	1.0	83	39	40.3	67-70	62-68	69-72	66-70	133	170	170	157
CL151	L	1.0	84	37	39.9	67-71	54-70	65-70	62-70	136	199	200	178
CL153	L	1.0	85	36	40.5	66-69	58-70	66-71	63-70	124	191	189	168
CL163	L	1.0	85	38	40.2	65-70	59-71	61-69	62-70	145	184	189	173
CL172	L	1.0	85	35	40.0	66-70	60-72	66-70	64-71	133	174	186	164
CL272	M	1.0	87	37	39.9	61-69	57-70	64-68	61-69	141	162	196	166
Diamond	L	1.0	85	40	40.1	63-71	63-69	60-68	62-70	172	202	214	196
Jupiter	M	1.0	88	35	39.4	66-68	59-70	62-65	62-68	194	207	198	200
LaKast	L	1.0	82	41	40.5	57-69	61-71	57-69	58-70	149	189	194	177
MM14	M	1.0	85	34	41.7	66-71	--	65-67	65-69	166	--	194	180
Roy J	L	1.0	89	41	39.6	63-69	62-70	61-69	62-70	146	159	197	167
RT 7311 CL	L	2.0	84	40	37.8	--	62-70	53-68	57-69	--	245	206	226
RT CLXL745	L	2.5	81	43	40.4	59-70	59-71	58-70	59-70	198	235	208	214
RT Gemini 214 CL	L	1.0	88	42	37.5	--	57-70	57-68	57-69	--	246	210	228
RT XP753	L	1.5	81	45	40.8	53-69	63-70	57-70	58-70	210	258	231	233
RT XP760	L	1.0	85	46	39.9	61-69	55-69	58-69	58-69	204	238	218	220
Taggart	L	1.0	87	42	40.2	62-72	56-70	61-70	60-71	143	186	182	170
Thad	L	1.0	87	36	40.4	61-69	59-71	62-70	61-70	133	197	188	173
Titan	M	1.5	82	38	40.1	63-69	59-70	61-67	61-69	173	223	214	204
Wells	L	1.0	85	38	40.3	61-71	57-70	62-71	60-71	131	170	166	156
AREX-41105	LA	1.0	85	38	40.1	68-72	63-70	67-71	66-71	120	169	162	150
Mean		1.2	85	39	40.0	63-70	59-70	62-69	61-70	155	200	196	186

¹ Grain Length: L=long grain, M=medium grain, LA=long grain aromatic; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging (2014, 2016, & 2017 data - no lodging in 2015); ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot.



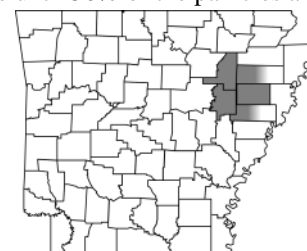
Arkansas Rice Performance Trials (ARPT)

PTRS, St. Francis County 2015-2017 Summary – 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			
		Rating	Days	in.	lbs/bu	2015	2016	2017	Mean	2015	2016	2017	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
CL111	L	1.0	74	41	42.4	56-68	54-64	53-68	54-67	139	150	151	147
CL151	L	2.0	73	40	41.9	50-68	50-68	54-68	52-68	161	175	186	174
CL153	L	1.0	78	40	42.3	57-68	55-67	58-69	56-68	150	165	171	162
CL163	L	1.0	82	39	41.6	60-69	49-66	60-69	56-68	148	137	191	159
CL172	L	1.0	79	38	41.7	54-69	57-68	61-69	54-69	128	149	160	146
CL272	M	1.0	76	39	42.4	37-67	51-67	43-65	44-67	158	178	174	170
Diamond	L	1.0	80	41	41.4	59-68	48-64	60-69	56-67	171	185	177	178
Jupiter	M	1.0	78	36	41.0	45-68	52-66	55-65	51-66	164	157	184	168
LaKast	L	1.0	75	42	42.6	54-68	49-67	58-70	54-68	148	173	172	164
MM14	M	1.0	76	33	43.2	55-68	--	47-65	51-66	134	--	152	143
Roy J	L	1.0	83	41	41.3	59-70	52-67	60-69	57-68	170	164	184	173
RT 7311 CL	L	1.5	77	46	39.2	--	50-66	52-68	51-67	--	207	213	210
RT CLXL745	L	2.5	71	45	41.7	54-68	43-68	53-69	50-68	189	188	199	192
RT Gemini 214 CL	L	1.0	85	48	39.3	--	53-67	56-67	54-67	--	233	219	226
RT XP753	L	1.0	73	46	42.2	49-68	45-65	51-68	48-67	209	209	201	206
RT XP760	L	2.0	79	46	41.7	57-68	50-66	54-66	54-67	210	226	207	214
Taggart	L	1.0	82	44	41.5	49-69	48-69	60-70	52-70	159	170	177	169
Thad	L	1.0	84	39	41.7	47-67	41-66	61-70	50-68	109	128	162	133
Titan	M	1.0	70	37	41.6	43-66	53-67	50-66	49-66	142	170	164	159
Wells	L	1.0	79	41	41.7	49-69	54-69	57-70	53-69	165	152	164	160
AREX-41105	LA	1.0	79	40	41.4	53-70	55-66	62-70	57-69	146	156	169	157
Mean		1.2	78	41	41.6	52-68	50-67	56-68	53-68	158	174	180	172

¹ Grain Length: L=long grain, M=medium grain, LA=long grain aromatic; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging (2014, 2016, & 2017 data - no lodging in 2015); ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot.



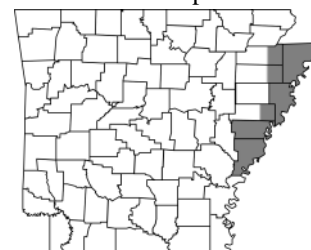
Arkansas Rice Performance Trials (ARPT)

NEREC, Mississippi County 2015-2017 Summary – 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			
		Rating	Days	in.	lbs/bu	2015	2016	2017	Mean	2015	2016	2017	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
CL111	L	1.0	85	38	41.8	64-70	61-67	62-71	62-69	147	157	161	155
CL151	L	2.5	84	36	40.9	63-69	57-71	59-71	60-70	188	177	178	181
CL153	L	1.0	88	37	40.9	64-69	60-70	64-72	62-70	185	180	181	182
CL163	L	1.0	89	36	41.0	63-69	62-71	63-72	62-71	180	152	184	172
CL172	L	1.0	89	35	40.0	65-70	54-71	61-71	60-71	165	170	177	171
CL272	M	1.0	85	36	41.2	62-68	58-70	61-69	60-69	206	188	195	196
Diamond	L	1.0	88	39	40.3	63-69	55-67	61-71	60-69	232	211	208	217
Jupiter	M	1.0	86	36	39.9	64-67	59-71	64-68	62-69	201	207	208	205
LaKast	L	1.5	84	41	41.7	63-70	58-71	60-72	61-71	184	190	197	190
MM14	M	1.0	87	32	42.3	63-68	--	64-69	64-68	169	--	201	185
Roy J	L	1.0	93	40	39.7	63-69	58-70	65-72	62-70	195	187	186	189
RT 7311 CL	L	1.5	84	40	38.9	--	56-69	52-70	54-70	--	219	206	212
RT CLXL745	L	3.0	79	40	41.3	58-68	42-69	52-70	51-69	185	183	--	184
RT Gemini 214 CL	L	3.5	89	42	38.7	--	57-70	59-71	58-70	--	224	202	213
RT XP753	L	1.0	82	40	41.8	60-69	43-67	48-70	50-69	218	235	222	225
RT XP760	L	4.0	88	44	40.8	60-68	57-70	58-70	58-69	226	202	219	216
Taggart	L	1.0	91	42	40.4	64-70	53-70	65-72	60-71	194	197	184	192
Thad	L	1.0	89	37	40.9	65-69	57-71	61-71	61-70	177	166	188	177
Titan	M	1.0	81	36	41.0	64-69	59-70	60-69	61-70	200	201	212	204
Wells	L	1.0	89	39	40.7	63-70	58-70	58-71	60-70	182	189	191	187
AREX-41105	LA	1.0	89	40	41.0	64-69	63-71	62-71	63-70	182	173	168	174
Mean		1.5	87	38	40.7	60-71	56-70	63-69	60-70	190	190	193	192

¹ Grain Length: L=long grain, M=medium grain, LA=long grain aromatic; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging (2014, 2016, & 2017 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)

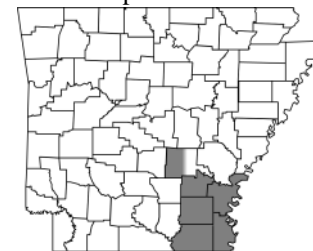
Desha County 2014-2017 Summary – Clay Soil

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			
		Rating	Days	in.	lbs/bu	2014	2015	2017	Mean	2014	2015	2017	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
CL111	L	2.0	77	38	43.2	68-71	56-69	43-69	56-70	185	141	157	161
CL151	L	2.5	79	40	43.1	68-71	59-69	49-69	59-70	211	164	195	190
CL153	L	1.0	80	36	44.9	--	58-69	53-70	56-70	--	144	196	170
CL163	L	2.0	82	39	42.6	67-70	59-68	49-69	59-69	181	149	195	175
CL172	L	1.0	80	36	43.1	69-71	56-69	54-70	60-70	161	130	186	159
CL272	M	1.0	81	40	44.5	--	37-67	33-67	35-67	--	132	181	157
Diamond	L	1.0	80	41	43.2	65-68	51-68	43-68	53-68	228	169	204	200
Jupiter	M	1.0	83	39	42.0	60-67	63-68	54-68	59-68	210	137	210	186
LaKast	L	3.0	81	40	42.8	67-71	46-66	44-70	52-69	203	150	179	177
MM14	M	1.0	83	39	42.9	57-69	53-69	40-68	50-68	219	135	190	181
Roy J	L	1.0	82	39	42.9	64-68	56-71	50-70	57-69	205	149	205	186
RT 7311 CL	L	2.0	82	41	39.8	--	--	34-68	34-68	--	--	201	201
RT CLXL745	L	2.5	77	42	43.2	67-72	55-69	34-69	52-70	205	167	181	184
RT Gemini 214 CL	L	2.0	86	45	41.2	--	--	46-69	46-69	--	--	217	217
RT XP753	L	1.5	77	42	43.6	68-73	48-68	32-69	50-70	271	202	214	229
RT XP760	L	2.0	81	43	44.8	--	54-68	50-69	52-68	--	187	226	207
Taggart	L	1.0	81	42	43.4	67-70	55-69	46-69	56-70	197	157	184	180
Thad	L	1.0	80	38	44.0	--	58-68	44-69	51-69	--	137	193	165
Titan	M	1.0	80	38	42.5	65-69	45-65	33-68	48-67	241	129	214	195
Wells	L	1.0	82	45	42.8	67-70	50-68	43-69	53-69	195	149	196	180
AREX-41105	LA	1.0	80	40	43.1	67-69	59-70	59-71	62-70	183	122	185	163
Mean		1.5	81	40	43.0	66-70	54-68	45-69	52-69	206	150	196	184

¹ Grain Length: L=long grain, M=medium grain, LA=long grain aromatic; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging (2014 & 2017 data - no lodging in 2015); ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot.

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



Arkansas Rice Performance Trials (ARPT)

2017 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 6	CHICOT April 14	NEREC April 7	PTRS May 10	RREC April 7	MEAN
		Rating	Days	in.	lbs/bu	%HR-%TR	Bushels / Acre					
CL111	L	1.4	88	36	39.0	58-70	197	161	157	151	170	167
CL151	L	1.8	88	36	39.0	58-70	199	178	195	186	200	191
CL153	L	1.0	91	35	39.2	61-71	190	181	196	171	189	185
CL163	L	1.4	91	36	38.8	60-70	192	184	195	191	189	190
CL172	L	1.0	91	33	38.6	60-70	187	177	186	160	186	180
CL272	M	1.0	89	36	39.2	52-68	218	195	181	174	196	193
Diamond	L	1.0	91	38	38.8	56-69	227	208	204	177	214	206
Jupiter	M	1.0	91	35	38.2	59-67	218	208	210	184	198	203
LaKast	L	1.8	89	39	39.4	56-70	201	197	179	172	194	188
MM14	M	1.0	90	34	39.1	55-68	195	201	190	152	194	186
PVL01	L	1.0	94	35	38.6	57-70	176	144	185	134	174	163
Roy J	L	1.0	94	40	38.3	60-70	209	186	205	184	197	196
RT CLXL745	L	2.2	85	39	39.2	52-70	218	.	181	199	208	202
RT 7311 CL	L	1.8	87	39	39.0	50-69	244	206	201	213	206	214
RT 7812 CL	L	2.8	94	41	37.9	57-70	237	237	203	222	192	218
RT Gemini 214 CL	L	1.6	90	41	39.2	56-69	227	202	217	219	210	215
RT XP753	L	1.4	87	38	39.4	49-70	230	222	214	201	231	220
RT XP760	L	1.8	90	41	39.4	55-69	218	219	226	207	218	218
Taggart	L	1.0	94	41	38.6	59-71	190	184	184	177	182	183
Thad	L	1.0	92	36	39.2	57-70	194	188	193	162	188	185
Titan	M	1.2	85	36	39.1	51-68	198	212	214	164	214	200
Wells	L	1.0	91	39	38.9	56-71	191	191	196	164	166	182
AREX-41105	LA	1.0	92	38	39.1	62-71	197	168	185	169	162	176
AREX-61124	L	1.0	90	36	39.0	63-71	202	186	192	157	192	186
AREX-71084	L	1.0	93	37	39.0	57-69	229	217	205	201	201	210
AREX-71124	M	1.6	87	35	38.5	55-68	237	201	208	172	229	209
CLX-61030	M	1.0	90	37	38.3	58-68	205	205	206	204	191	202
CLX-61111	L	1.0	89	35	38.9	58-70	205	191	182	182	192	190
CLX-61133	L	1.8	90	39	38.6	61-70	193	165	162	183	187	178
Mean		1.6	84	43	38.8	53-69	181	148	190	173	199	178

¹ Grain Length: L=long grain, M=medium grain, LA=long grain aromatic; 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

2017 Grain Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	County Location / Planting Date / Soil Type										MEAN
		Drew	Phillips	White	Prairie	St. Francis	Lawrence	Craighead	Lafayette	Poinsett		
		April 10	Mar 29	April 12	May 8	April 19	April 21	April 10	Mar 28	April 18		
		Calhoun Silt Loam	Sharkey Clay	Calhoun Silt Loam	DeWitt Silt Loam	Henry / Calloway Silt Loam	Dundee Silt Loam	Jackport Silt Clay Loam	Bossier Clay	Henry Silt Loam		
Grain Yield (Bushels / Acre)												
CL111	L	220	216	222	163	166	203	--	164	182	192	
CL151	L	239	230	236	179	178	205	173	162	197	200	
CL153	L	215	224	230	174	156	216	181	184	187	196	
CL163	L	219	224	209	173	153	174	176	179	184	188	
CL172	L	217	208	215	179	152	194	185	205	178	192	
CL272	M	217	230	203	186	165	224	197	158	166	194	
Diamond	L	231	242	217	193	174	226	208	200	204	211	
Jupiter	M	231	237	231	201	148	255	214	158	207	209	
LaKast	L	222	234	226	191	169	208	208	188	210	206	
MM14	M	208	206	199	191	154	225	196	201	200	198	
PVL01	L	205	199	183	159	143	180	141	177	169	173	
Roy J	L	208	230	223	165	157	198	191	188	186	194	
RT CLXL745	L	245	232	216	203	190	231	--	168	221	213	
RT 7311CL	L	276	244	240	219	177	261	222	237	247	236	
RT 7812CL	L	278	239	243	212	186	240	246	208	260	235	
RT Gemini 214 CL	L	249	239	230	212	184	244	205	184	233	220	
RT XP753	L	269	248	262	234	173	237	231	232	250	237	
RT XP760	L	266	239	233	211	178	216	177	204	253	220	
Thad	L	228	240	216	186	159	191	174	211	175	198	
Titan	M	267	248	257	189	176	259	207	200	227	225	
Mean		235	230	224	191	167	219	196	190	207	207	

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

Producer Rice Evaluation Program (PREP) On-Farm Trials

2017 Milling Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	County Location / Planting Date / Soil Type									
		Drew	Phillips	White	Prairie	St. Francis	Lawrence	Craighead	Lafayette	Poinsett	MEAN
		April 10	Mar 29	April 12	May 8	April 19	April 21	April 10	Mar 28	April 18	
		Calhoun Silt Loam	Sharkey Clay	Calhoun Silt Loam	DeWitt Silt Loam	Henry / Calloway Silt Loam	Dundee Silt Loam	Jackport Silt Clay Loam	Bossier Clay	Henry Silt Loam	
Milling Yield (%Head Rice - %Total Rice)											
CL111	L	60-70	58-71	66-72	65-72	--	66-72	63-72	51-70	60-71	61-71
CL151	L	62-69	56-70	66-71	63-70	--	66-71	62-72	47-69	58-69	60-70
CL153	L	62-70	60-71	66-71	64-71	--	66-72	64-73	50-70	59-68	61-71
CL163	L	60-68	59-69	66-72	62-69	--	61-70	62-71	52-69	57-69	60-70
CL172	L	64-70	65-72	66-71	64-70	--	67-72	65-72	55-70	59-70	63-71
CL272	M	60-65	56-68	66-68	65-69	--	67-70	64-70	45-69	60-68	60-68
Diamond	L	59-68	59-70	63-71	60-67	--	63-70	63-72	48-69	58-70	59-70
Jupiter	M	58-63	62-66	65-70	63-67	--	63-67	65-70	52-69	62-68	61-67
LaKast	L	59-70	53-69	64-67	62-71	--	65-72	63-73	48-70	60-71	59-70
MM14	M	59-66	59-67	69-74	63-68	--	64-68	64-70	48-69	62-69	61-69
PVL01	L	60-69	63-71	69-73	59-68	--	64-71	59-72	53-69	59-70	61-70
Roy J	L	60-69	62-72	64-71	59-68	--	61-69	66-74	53-71	59-70	61-70
RT CLXL745	L	57-69	54-70	67-71	60-71	--	65-72	51-70	42-69	58-70	57-70
RT 7311CL	L	56-68	49-68	67-72	60-70	--	64-72	53-70	36-68	58-71	55-70
RT 7812CL	L	61-68	62-71	68-71	63-70	--	65-71	60-72	55-71	63-71	62-71
RT Gemini 214 CL	L	56-67	51-67	68-73	62-70	--	64-71	59-71	45-68	59-70	58-69
RT XP753	L	58-69	50-70	68-72	64-72	--	66-72	44-70	36-69	55-71	55-71
RT XP760	L	58-68	53-68	68-73	59-69	--	63-71	59-70	47-68	60-70	58-70
Thad	L	61-70	62-74	64-71	62-70	--	65-71	62-72	46-69	56-69	60-71
Titan	M	61-67	51-67	65-69	66-69	--	67-71	50-70	33-67	60-69	57-69
Mean		59-68	57-70	66-71	62-70	--	65-71	60-71	47-69	59-70	59-70

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

DD50 Planting Date Trials

RREC, Arkansas County – 2017 Grain & Milling Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Yields (Bushels/Acre)							Milling Yield (%HR-%TR) ¹						
	Mar 21	Apr 5	Apr 18	May 2	May 19	June 15	Mean	Mar 21	Apr 5	Apr 18	May 2	May 19	June 15	Mean
CL111	183	184	183	169	152	127	166	66-70	67-71	65-72	67-73	66-72	71-74	67-72
CL151	202	201	200	174	185	142	184	64-69	64-69	66-71	66-71	66-71	69-73	66-71
CL153	181	188	202	177	161	127	173	66-70	65-69	67-72	68-73	67-72	70-73	67-72
CL163	187	194	189	189	176	140	179	62-69	63-69	65-72	65-71	67-71	69-73	65-71
CL172	185	176	198	177	170	111	170	66-70	66-70	66-71	65-71	68-72	70-73	67-71
CL272	213	195	219	175	169	128	183	64-67	63-66	63-69	66-69	58-68	63-70	63-68
Diamond	222	222	213	199	218	155	205	59-68	62-69	62-71	62-69	65-70	67-72	63-70
Jupiter	209	205	220	190	218	161	201	59-63	61-64	65-68	64-67	62-67	69-71	63-67
LaKast	207	202	195	180	188	143	186	57-69	58-69	60-71	63-72	66-72	69-73	62-71
PVL01	165	163	181	146	152	92	150	64-71	65-70	64-72	63-72	65-72	68-72	65-71
Roy J	216	195	206	173	197	150	190	62-69	63-70	63-71	62-70	66-71	66-71	64-71
RT 7311 CL	252	244	226	225	229	174	225	58-69	58-68	57-70	62-71	62-71	65-72	60-70
RT 7812 CL	250	235	228	204	244	163	221	59-68	60-68	62-70	65-71	67-72	63-69	63-70
RT CLXL745	209	212	209	153	203	146	189	60-70	61-69	55-70	60-71	64-72	68-73	61-71
RT Gemini 214 CL	237	221	237	200	225	132	209	59-68	60-68	60-70	63-71	65-71	63-69	62-69
RT XP753	257	252	239	223	240	187	233	61-70	59-69	57-70	62-71	63-72	68-73	62-71
RT XP760	223	212	239	207	202	140	204	58-67	58-68	60-70	63-70	65-70	63-70	61-69
Thad	198	194	199	172	186	134	181	61-69	62-69	62-71	65-71	66-71	65-71	63-70
Titan	237	221	219	186	186	171	203	64-67	63-67	54-68	65-70	57-68	66-69	61-68
Wells	186	169	187	177	178	134	172	62-71	64-71	64-72	63-72	65-72	69-73	64-72
Mean	211	204	210	185	194	143	191	62-69	62-69	62-71	64-71	64-71	67-72	63-70

¹%HR = head rice, %TR = total milled rice.

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.
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.
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/LeBonnet/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.
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.
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.

General Rice Cultivar Characteristics (cont.)

University of Arkansas System Division of Agriculture

Cultivar	Grain Type	Year Released & Source	Pedigree	Highlights
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.
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.
PVL01	L	2017 – BASF, Horizon Ag	Proprietary variety	A mid-season, long-grain variety with fair yield potential and excellent milling quality. Susceptible to blast, sheath blight, and bacterial panicle blight. Very susceptible to false smut.
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. Resistant to blast, moderately susceptible to sheath blight.
RT 7812 CL	L	2017 – RiceTec, Inc.	Proprietary hybrid	A short season, long-grain hybrid with excellent yield potential and good milling quality.

General Rice Cultivar Characteristics (cont.)

University of Arkansas System Division of Agriculture

Cultivar	Grain Type	Year Released & Source	Pedigree	Highlights
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 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, resistant to blast, and susceptible to lodging.
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. Resistant to blast, susceptible to sheath blight, and very susceptible to false smut.
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 XP753	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 XP760	L	2014 – RiceTec, Inc.	Proprietary hybrid	A short season, long-grain hybrid with good yield potential. Moderately resistant to blast and bacterial panicle blight, moderately susceptible to sheath blight, and very susceptible to false smut.
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.
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 2017 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
Cheniere	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	--
Jazzman-2	S	MS	--	VS	S	--	S	S	--	--
Jupiter	S	S	S	MR	MR	VS	MS	MS	S	MR
LaKast	MS	S	MS	MS	MS	S	S	S	MS	MS
MM14	--	--	--	S	--	--	--	S	MS	--
PVL01	S	S	--	S	--	--	--	VS	MS	--
Roy J	MS	S	S	S	R	S	VS	S	MR	MS
RT 7311 CL	MS	R	--	--	--	--	S	S	MS	--
RT 7812 CL	--	--	--	--	--	--	--	S	S	--
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 Gemini 214 CL	S	R	--	--	--	--	MS	VS	MS	--
RT XP753	MS	R	MS	MR	R	--	MS	S	MS	S
RT XP760	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.