



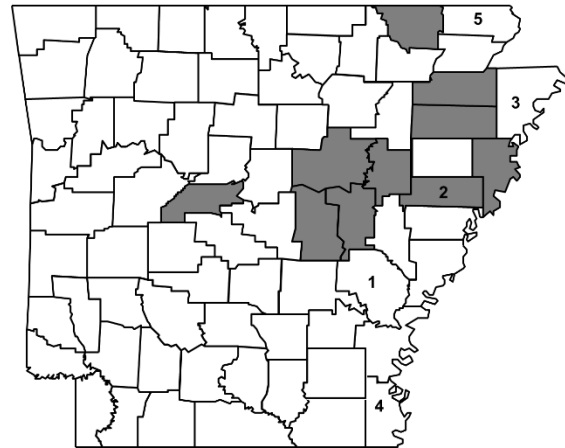
Arkansas Rice Cultivar Testing, 2016-2018

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 2016-2018. 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://arkansas-ag-news.uark.edu/research-series.aspx>).

The current reported state average yield for 2018 is **167** bu/A as reported by the USDA Crop Reporting Service (<http://usda.mannlib.cornell.edu/usda/current/CropProd/CropProd-11-08-2018.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 2018.



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. 175
- Rice Information Sheet No. 176
- Rice Information Sheet No. 177

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Arkansas Rice Performance Trials (ARPT)

2016-2018 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			
								2016	2017	2018	Mean	2016	2017	2018	Mean
		Rating	Days	in.	lbs/bu	mg	%	% Head Rice - % Total Rice				Bushels / Acre			
ARoma 17	LA	1.0	87	38	39.2	22.0	1.39	59-69	62-71	56-70	59-70	162	176	164	168
CL151	L	1.9	83	36	39.1	20.3	3.13	53-70	58-70	54-70	55-70	164	191	185	180
CL153	L	1.0	86	36	39.4	20.3	1.61	57-69	61-71	58-70	58-70	169	185	183	179
CL172	L	1.0	87	35	38.9	21.4	1.68	50-69	60-70	57-70	56-70	161	180	166	169
CL272	M	1.0	86	37	39.5	22.1	2.22	53-69	52-68	49-70	51-69	176	193	183	184
Diamond	L	1.2	86	39	39.3	21.3	1.42	55-68	56-69	52-69	54-69	188	206	206	200
Jupiter	M	1.3	87	36	38.4	21.1	2.15	57-69	59-67	53-69	56-68	167	203	199	190
LaKast	L	1.4	84	40	39.6	22.2	1.49	55-69	56-70	53-67	55-69	182	188	187	186
PVL01	L	1.0	90	34	39.1	21.7	0.85	--	57-70	53-69	55-69	--	163	162	163
Roy J	L	1.0	91	40	38.8	20.9	1.50	55-69	60-70	54-69	56-70	167	196	189	184
RT 7311 CL	L	2.0	82	40	39.3	21.0	4.24	54-69	50-69	50-70	51-69	208	214	209	210
RT CLXL745	L	2.4	80	41	39.1	22.2	2.70	46-69	52-70	52-70	50-70	192	202	190	195
RT Gemini 214 CL	L	1.8	86	43	39.4	20.6	3.35	53-69	56-69	53-69	54-69	211	215	235	220
RT XP753	L	1.2	82	40	39.8	21.2	2.58	45-67	49-70	49-71	48-69	231	220	229	227
RT XP760	L	2.2	87	43	39.3	20.9	3.30	52-68	55-69	53-69	53-69	205	218	226	216
Titan	M	1.2	81	36	39.2	22.5	1.55	54-69	51-68	46-70	50-69	192	200	192	195
Wells	L	1.0	87	40	39.2	22.5	1.64	52-69	55-70	48-71	52-70	171	182	184	179
CLX6-1030	M	1.3	87	39	38.5	22.2	2.06	55-67	58-68	51-69	55-68	169	202	205	192
CLX6-1111	L	1.1	85	36	39.1	21.1	2.33	56-68	58-70	56-70	57-70	176	190	192	186
CLX6-1133	L	1.4	86	37	39.3	21.1	1.40	--	61-70	55-69	58-70	--	178	181	179
ARX7-1084	L	1.0	90	36	39.5	22.0	2.25	--	57-69	54-69	55-69	--	210	201	206
ARX7-1087	L	1.0	88	38	39.5	20.0	1.34	--	59-71	57-70	58-70	--	192	186	189
Mean		1.3	86	38	39.2	21.4	2.10	53-69	57-69	53-69	54-69	183	196	193	191

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; 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, 2015-2017.

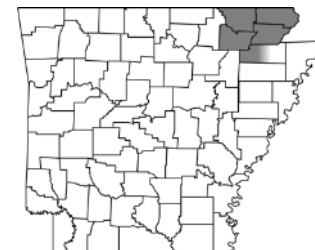
Arkansas Rice Performance Trials (ARPT)

Clay County 2016-2018 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	2016	2017	2018	Mean	2016	2017	2018	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
ARoma 17	LA	1.0	91	37	40.6	60-69	61-71	52-71	58-71	177	197	178	184
CL151	L	2.0	88	35	40.5	49-70	62-70	46-71	52-70	149	199	198	182
CL153	L	1.0	91	35	40.2	61-70	62-71	53-71	59-71	180	190	198	189
CL172	L	1.0	91	32	40.2	46-70	60-71	52-71	53-71	171	187	179	179
CL272	M	1.0	92	37	40.7	52-68	61-71	35-71	49-70	198	218	205	207
Diamond	L	1.7	89	39	40.7	51-68	58-71	48-72	52-70	181	227	228	212
Jupiter	M	2.0	91	37	39.6	58-70	61-70	40-71	53-70	133	218	230	194
LaKast	L	1.0	87	40	40.9	56-71	61-71	54-72	57-71	194	201	213	203
PVL01	L	1.0	92	32	40.2	--	57-71	54-71	55-71	--	176	177	176
Roy J	L	1.0	95	41	39.9	47-69	65-72	50-72	54-71	191	209	204	201
RT 7311 CL	L	3.7	86	40	40.1	56-70	59-71	36-72	50-71	183	244	233	220
RT CLXL745	L	3.0	85	40	40.6	44-70	60-71	41-72	48-71	194	218	214	209
RT Gemini 214 CL	L	2.7	89	43	40.4	52-69	61-70	41-72	51-70	167	227	247	213
RT XP753	L	1.3	86	38	41.1	36-67	59-71	37-73	44-71	252	230	261	248
RT XP760	L	3.0	91	42	40.2	50-68	56-71	45-71	51-70	179	218	236	211
Titan	M	1.7	86	36	40.8	55-69	49-69	27-71	44-70	209	198	216	208
Wells	L	1.0	89	40	40.5	51-69	57-72	38-73	49-71	194	191	211	199
CLX6-1030	M	2.0	92	37	39.8	46-66	62-71	37-71	48-69	153	205	226	195
CLX6-1111	L	1.0	90	35	39.9	57-70	60-71	51-72	56-71	202	205	212	206
CLX6-1133	L	1.0	87	34	39.5	--	65-72	53-72	59-72	--	193	187	190
AREX7-1084	L	1.0	91	34	40.8	--	59-70	50-71	54-71	--	229	196	213
AREX7-1087	L	1.0	88	36	40.7	--	61-73	59-72	60-72	--	205	204	204
Mean		1.6	89	37	40.4	51-69	60-71	45-72	52-71	182	208	212	201

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.



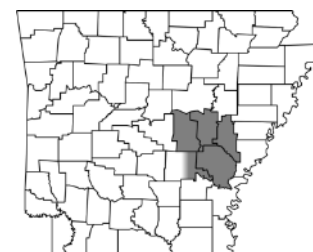
Arkansas Rice Performance Trials (ARPT)

RREC, Arkansas County 2016-2018 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	2016	2017	2018	Mean	2016	2017	2018	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
ARoma 17	LA	1.0	87	37	37.5	63-70	67-71	61-69	64-70	169	162	160	164
CL151	L	1.0	85	35	37.2	54-70	65-70	63-70	61-70	199	200	190	196
CL153	L	1.0	88	34	37.7	58-70	66-71	63-70	62-70	191	189	189	189
CL172	L	1.0	88	33	37.3	60-72	66-70	60-69	62-70	174	186	162	174
CL272	M	1.0	88	36	37.2	57-70	64-68	60-69	60-69	162	196	174	178
Diamond	L	1.0	87	39	37.4	63-69	60-68	57-68	60-68	202	214	204	207
Jupiter	M	1.0	90	35	37.0	59-70	62-65	61-68	61-68	207	198	207	204
LaKast	L	1.0	85	40	37.4	61-71	57-69	58-70	59-70	189	194	191	191
PVL01	L	1.0	92	32	36.7	--	63-70	56-68	59-69	--	174	172	173
Roy J	L	1.0	91	41	37.0	62-70	61-69	52-66	58-68	159	197	193	183
RT 7311 CL	L	1.7	84	40	37.3	62-70	53-68	60-69	58-69	245	206	218	223
RT CLXL745	L	2.0	84	40	37.4	59-71	58-70	60-69	59-70	235	208	221	221
RT Gemini 214 CL	L	1.0	88	41	37.3	57-70	57-68	59-69	58-69	246	210	231	229
RT XP753	L	1.3	84	39	37.8	63-70	57-70	62-71	61-70	258	231	252	247
RT XP760	L	1.0	88	43	37.3	55-69	58-69	59-69	57-69	238	218	232	229
Titan	M	1.3	84	36	37.4	59-70	61-67	64-70	61-69	223	214	208	215
Wells	L	1.0	88	38	37.4	57-70	62-71	57-70	59-70	170	166	189	175
CLX6-1030	M	1.0	89	38	37.0	60-68	63-66	62-68	61-67	191	191	196	193
CLX6-1111	L	1.0	86	34	37.6	61-70	66-71	62-71	63-70	209	192	201	201
CLX6-1133	L	1.0	88	36	37.7	--	66-70	61-69	63-69	--	187	205	196
AREX7-1084	L	1.0	90	35	37.2	--	63-68	60-68	60-68	--	201	204	202
AREX7-1087	L	1.0	90	38	37.2	--	60-70	58-69	59-69	--	203	183	193
Mean		1.1	88	37	37.3	60-69	62-69	60-70	60-69	204	197	199	199

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.



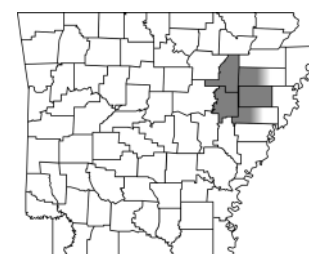
Arkansas Rice Performance Trials (ARPT)

PTRS, St. Francis County 2016-2018 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	2016	2017	2018	Mean	2016	2017	2018	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
ARoma 17	LA	1.0	83	40	39.1	55-66	62-70	55-69	57-69	156	169	160	162
CL151	L	1.7	78	39	39.4	50-68	54-68	55-69	53-68	175	186	196	186
CL153	L	1.0	83	39	39.6	55-67	58-69	58-70	57-69	165	171	180	172
CL172	L	1.0	84	37	39.2	57-68	61-69	57-69	55-69	149	160	167	159
CL272	M	1.0	81	38	40.1	51-67	43-65	50-70	48-68	178	174	201	185
Diamond	L	1.0	83	41	39.3	48-64	60-69	51-69	53-67	185	177	195	186
Jupiter	M	1.0	82	36	38.6	52-66	55-65	54-68	54-66	157	184	177	172
LaKast	L	1.0	81	42	40.2	49-67	58-70	52-70	53-69	173	172	190	178
PVL01	L	1.0	87	35	39.0	--	54-68	55-69	55-69		134	165	150
Roy J	L	1.0	88	41	39.1	52-67	60-69	54-70	55-68	164	184	190	180
RT 7311 CL	L	1.3	76	43	39.8	50-66	52-68	52-69	51-68	207	213	232	217
RT CLXL745	L	2.0	75	43	38.9	43-68	53-69	53-69	50-69	188	199	209	199
RT Gemini 214 CL	L	1.0	83	46	39.9	53-67	56-67	54-69	54-68	233	219	240	231
RT XP753	L	1.0	77	44	39.8	45-65	51-68	51-70	49-67	209	201	232	214
RT XP760	L	1.7	84	44	39.4	50-66	54-66	53-68	52-67	226	207	221	218
Titan	M	1.0	75	37	39.4	53-67	50-66	47-69	50-67	170	164	201	178
Wells	L	1.0	84	41	39.4	54-69	57-70	47-70	53-70	152	164	172	162
CLX6-1030	M	1.0	83	41	38.7	55-64	55-66	57-69	55-66	176	204	209	197
CLX6-1111	L	1.0	81	40	39.4	53-65	55-68	56-70	55-68	176	182	194	184
CLX6-1133	L	1.0	82	40	39.3	--	59-68	56-70	57-69	--	183	198	190
AREX7-1084	L	1.0	86	37	39.5	--	54-67	52-69	53-68	--	201	204	202
AREX7-1087	L	1.0	86	39	39.5	--	61-71	57-70	59-70	--	169	183	176
Mean		1.1	82	40	39.4	51-66	56-68	53-69	54-68	180	183	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; ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot.



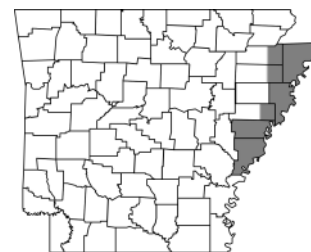
Arkansas Rice Performance Trials (ARPT)

NEREC, Mississippi County 2016-2018 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	2016	2017	2018	Mean	2016	2017	2018	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
ARoma 17	LA	1.0	90	40	39.6	63-71	62-71	51-68	59-70	173	168	149	163
CL151	L	2.0	84	35	39.4	57-71	59-71	44-67	54-69	177	178	157	171
CL153	L	1.0	89	36	39.4	60-70	64-72	52-68	59-70	180	181	160	174
CL172	L	1.0	90	34	38.8	54-71	61-71	56-68	57-70	170	177	142	163
CL272	M	1.0	86	36	39.6	58-70	61-69	39-67	53-69	188	195	155	179
Diamond	L	1.0	90	38	39.3	55-67	61-71	50-68	55-69	211	208	189	203
Jupiter	M	1.0	88	35	38.5	59-71	64-68	52-66	58-68	207	208	191	202
LaKast	L	1.3	85	38	40.0	58-71	60-72	42-54	54-65	190	197	161	182
PVL01	L	1.0	93	33	40.1	--	59-70	43-65	51-68	--	144	122	133
Roy J	L	1.0	95	40	38.6	58-70	65-72	55-69	59-70	187	186	178	183
RT 7311 CL	L	1.3	84	39	39.8	56-69	52-70	45-68	51-69	219	206	134	186
RT CLXL745	L	2.3	79	38	39.3	42-69	52-70	49-69	48-69	183	--	116	149
RT Gemini 214 CL	L	2.7	89	41	39.6	57-70	59-71	51-66	56-69	224	202	226	217
RT XP753	L	1.0	83	39	40.4	43-67	48-70	36-69	42-68	235	222	165	207
RT XP760	L	3.0	89	42	39.3	57-70	58-70	48-67	54-69	202	219	202	208
Titan	M	1.0	80	35	39.5	59-70	60-69	33-68	51-69	201	212	160	191
Wells	L	1.0	90	39	39.3	58-70	58-71	38-69	51-70	189	191	164	181
CLX6-1030	M	1.3	88	38	38.5	60-67	62-68	42-67	55-67	191	205	180	192
CLX6-1111	L	1.0	87	35	39.4	59-69	63-72	50-67	57-69	171	191	157	173
CLX6-1133	L	1.0	88	37	40.6	--	61-71	48-67	54-69	--	165	146	156
AREX7-1084	L	1.0	95	36	39.9	--	61-70	50-68	56-69	--	217	198	207
AREX7-1087	L	1.0	92	37	40.2	--	60-71	53-68	56-70	--	192	157	175
Mean		1.3	88	37	39.5	56-70	60-71	47-67	54-69	194	193	164	182

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.



Arkansas Rice Performance Trials (ARPT)

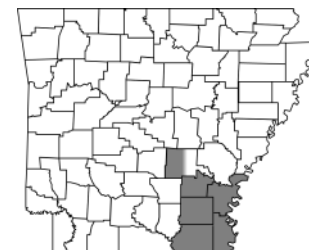
Chicot County 2015-2018 Summary – Clay Soil

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	2015	2017	2018	Mean	2015	2017	2018	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
ARoma 17	LA	1.0	81	37	42.3	59-70	59-71	60-70	59-70	122	185	173	160
CL151	L	2.3	80	36	42.1	59-69	49-69	61-71	56-70	164	195	184	181
CL153	L	1.0	80	35	42.9	58-69	53-70	62-71	58-70	144	196	188	176
CL172	L	1.0	81	35	42.2	56-69	54-70	62-70	57-70	130	186	178	165
CL272	M	1.0	82	37	42.7	37-67	33-67	59-70	43-68	132	181	179	164
Diamond	L	1.0	81	37	42.5	51-68	43-68	57-70	50-69	169	204	213	195
Jupiter	M	1.0	84	35	40.9	63-68	54-68	58-70	58-69	137	210	192	180
LaKast	L	2.3	79	38	42.3	46-66	44-70	58-71	49-69	150	179	181	170
PVL01	L	1.0	85	36	39.7	--	53-70	59-70	56-70	--	185	177	181
Roy J	L	1.0	85	38	42.1	56-71	50-70	58-71	55-70	149	205	178	177
RT 7311 CL	L	1.3	82	39	39.5	--	34-68	58-71	46-70	--	201	228	215
RT CLXL745	L	2.0	78	39	42.5	55-69	34-69	60-72	50-70	167	181	190	179
RT Gemini 214 CL	L	1.3	83	41	40.2	--	46-69	59-71	53-70	--	217	232	224
RT XP753	L	1.3	78	39	42.6	48-68	32-69	60-72	47-70	202	214	234	217
RT XP760	L	1.3	80	40	42.9	54-68	50-69	60-71	55-69	187	226	240	218
Titan	M	1.0	80	34	41.8	45-65	33-68	60-70	46-68	129	214	177	173
Wells	L	1.0	82	39	42.3	50-68	43-69	58-71	50-70	149	196	185	177
CLX6-1030	M	1.0	85	40	39.0	--	50-68	58-70	54-69	--	206	211	209
CLX6-1111	L	1.0	83	34	40.2	--	45-69	61-71	53-70	--	182	194	188
CLX6-1133	L	3.0	84	37	39.7	--	52-70	60-70	56-70	--	162	167	164
AREX7-1084	L	1.0	89	36	40.1	--	50-68	58-69	54-69	--	205	201	203
AREX7-1087	L	1.0	85	38	40.0	--	50-70	59-71	54-71	--	190	202	196
Mean		1.3	82	37	41.4	53-68	46-69	59-71	53-69	152	196	196	187

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.

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



Arkansas Rice Performance Trials (ARPT)

2018 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 12	CHICOT May 1	NEREC May 3	PTRS April 19	RREC April 11	MEAN
		Rating	Days	in.	lbs/bu	%HR-%TR	Bushels / Acre					
ARoma 17	LA	1.0	84	35	39.8	56-70	178	173	149	160	160	164
CL151	L	1.2	80	33	39.9	54-70	198	184	157	196	190	185
CL153	L	1.0	83	33	39.8	58-70	198	188	160	180	189	183
CL172	L	1.0	84	31	39.5	57-70	179	178	142	167	162	166
CL272	M	1.0	84	35	40.0	49-70	205	179	155	201	174	183
Diamond	L	1.0	83	36	39.9	52-69	228	213	189	195	204	206
Jazzman-2	LA	1.2	83	30	39.8	57-70	159	142	117	135	145	140
Jupiter	M	1.0	84	34	39.3	53-69	230	192	191	177	207	199
LaKast	L	1.0	82	36	40.0	53-67	213	181	161	190	191	187
PVL01	L	1.0	86	32	39.6	53-69	177	177	122	165	172	162
Roy J	L	1.0	90	38	39.4	54-69	204	178	178	190	193	189
RT 7311 CL	L	1.8	79	37	40.2	50-70	233	228	134	232	218	209
RT 7321 FP	L	1.6	79	39	40.3	48-70	245	218	170	223	217	214
RT 7323 FP	L	1.6	81	38	40.3	54-69	225	216	201	228	230	220
RT CLXL745	L	1.6	77	37	39.7	52-70	214	190	116	209	221	190
RT Gemini 214 CL	L	1.4	82	39	40.1	53-69	247	232	226	240	231	235
RT 7501	L	1.2	82	35	40.0	52-70	244	230	212	229	259	235
RT 7801	L	1.8	85	38	39.6	49-69	234	259	230	228	231	237
RT XP753	L	1.0	80	36	40.4	49-71	231	234	165	232	252	229
RT XP760	L	1.4	83	38	40.1	53-69	236	240	202	221	232	226
Titan	M	1.0	78	32	39.8	46-70	216	177	160	201	208	192
Wells	L	1.0	85	37	39.9	48-71	211	185	164	172	189	184
CLX5-4083	L	1.0	82	32	39.8	51-69	196	168	148	173	195	176
CLX6-1133	L	1.0	81	34	40.1	55-69	187	167	146	198	205	181
CLX6-1111	L	1.0	84	32	39.9	56-70	212	194	157	194	201	192
CLX6-1030	M	1.2	84	37	39.2	51-69	226	211	180	209	196	205
CLXAR19	L	1.0	86	36	39.6	50-69	224	207	189	214	198	207
ARX7-1084	L	1.0	87	35	40.0	54-69	196	201	198	204	204	201
ARX7-1087	L	1.0	85	37	39.9	57-70	204	202	157	183	183	186
Mean		1.2	83	35	39.9	53-69	213	198	168	198	202	196

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

2018 Grain Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	County Location / Planting Date / Soil Type										MEAN
		Craighead	Crittenden	Lonoke	Perry	Poinsett	Prairie	Randolph	St. Francis	White	Woodruff	
		April 11	May 3	April 19	May 10	April 20	April 18	May 2	May 14	May 2	April 11	
		Henry Silt Loam	Alligator Silty Clay	Hebert Silt Loam	Moreland Silty Clay	Henry Silt Loam	Dewitt Silt Loam	McCrary Fine Sandy Loam	Henry Silt Loam	Calloway Silt Loam	Overcup Silt Loam	
Grain Yield (Bushels / Acre)												
ARoma 17	LA	175	184	157	216	132	178	183	156	181	163	172
CL151	L	193	112	211	179	129	172	193	163	200	204	176
CL153	L	218	231	201	197	132	135	176	155	213	199	186
CL172	L	202	193	182	196	133	159	180	158	171	177	175
CL272	M	223	225	187	204	161	174	187	180	194	208	194
Diamond	L	197	245	210	220	167	185	198	190	207	199	202
Jupiter	M	181	238	193	232	155	183	193	176	228	222	200
LaKast	L	219	230	192	199	155	208	201	176	196	214	199
PVL01	L	150	219	200	170	120	168	160	127	187	179	168
Roy J	L	206	260	209	212	146	183	183	179	205	191	197
Titan	M	228	230	194	223	170	216	203	184	237	228	211
RT 7311 CL	L	249	242	251	264	179	202	208	199	237	249	228
RT 7321 FP	L	245	247	214	256	153	215	198	206	255	245	223
RT 7323 FP	L	232	231	256	248	174	229	193	188	232	228	221
RT CLXL745	L	194	213	239	235	152	223	209	186	220	233	210
RT Gemini 214 CL	L	221	217	248	244	191	234	198	207	260	250	227
RT 7501	L	219	271	225	250	207	241	224	183	259	256	234
RT 7801	L	241	285	222	214	203	216	224	202	234	251	229
RT XP753	L	256	280	258	262	191	218	219	210	239	270	240
RT XP760	L	222	242	261	227	190	228	196	184	244	231	223
CLX6-1133	L	149	130	185	125	113	159	172	166	195	173	157
CLX6-1111	L	192	235	217	194	141	191	189	172	209	219	196
CLX5-4083	L	217	226	213	173	130	206	162	163	198	194	188
CLX6-1030	M	234	227	203	210	151	200	201	202	220	205	205
ARX7-1084	L	203	216	213	174	161	188	194	177	200	204	193
Mean		211	225	214	213	158	196	194	180	217	216	202

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

Producer Rice Evaluation Program (PREP) On-Farm Trials

2018 Milling Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	County Location / Planting Date / Soil Type										MEAN
		Craighead	Crittenden	Lonoke	Perry	Poinsett	Prairie	Randolph	St. Francis	White	Woodruff	
		April 11	May 3	April 19	May 10	April 20	April 18	May 2	May 14	May 2	April 11	
		Henry Silt Loam	Alligator Silty Clay	Hebert Silt Loam	Moreland Silty Clay	Henry Silt Loam	Dewitt Silt Loam	McCrary Fine Sandy Loam	Henry Silt Loam	Calloway Silt Loam	Overcup Silt Loam	
Milling Yield (%Head Rice - %Total Rice)												
ARoma 17	LA	57-69	64-72	61-70	57-71	51-69	61-71	46-71	57-71	64-73	63-71	58-71
CL151	L	54-69	64-72	63-71	45-66	45-68	58-70	37-70	51-70	65-73	62-70	55-70
CL153	L	59-71	64-72	63-71	49-68	51-70	61-70	45-71	55-70	64-73	64-71	57-71
CL172	L	58-69	64-71	62-70	55-68	52-69	59-69	49-71	58-70	64-72	62-71	58-70
CL272	M	63-70	65-72	64-71	32-68	34-69	44-70	28-71	39-69	67-73	63-71	50-70
Diamond	L	52-69	59-71	59-70	48-68	47-69	57-70	38-72	51-70	61-72	57-68	53-70
Jupiter	M	63-69	68-72	66-70	45-68	50-69	38-69	34-70	38-69	65-70	59-69	53-69
LaKast	L	53-70	63-73	59-72	49-69	47-70	58-71	43-71	57-71	63-72	59-71	55-71
PVL01	L	55-69	62-72	60-70	46-68	47-68	57-69	48-71	58-71	63-72	59-69	56-70
Roy J	L	55-71	64-73	57-71	52-70	47-70	56-70	41-71	56-71	62-73	55-69	55-71
Titan	M	62-70	59-71	60-70	36-67	38-69	52-70	22-71	47-70	66-72	63-71	50-70
RT 7311 CL	L	54-70	63-73	54-70	43-69	43-70	57-71	31-71	49-70	60-72	59-71	51-71
RT 7321 FP	L	53-70	60-73	54-70	44-69	37-71	59-71	28-71	47-70	61-73	59-71	50-71
RT 7323 FP	L	54-69	62-72	58-70	52-70	46-70	59-71	34-71	54-70	61-72	59-70	54-70
RT CLXL745	L	55-71	62-73	57-70	48-68	44-70	60-72	36-71	53-71	61-72	61-71	54-71
RT Gemini 214 CL	L	55-70	61-72	59-71	49-70	46-71	59-71	33-71	53-70	61-71	56-70	53-71
RT 7501	L	56-70	62-71	60-71	52-70	47-70	57-71	30-71	51-70	62-72	62-71	54-71
RT 7801	L	55-70	59-73	56-70	51-70	42-70	56-70	22-70	46-69	61-71	57-70	51-70
RT XP753	L	56-71	62-74	61-73	48-71	40-71	58-72	31-72	47-70	61-73	61-72	52-72
RT XP760	L	54-69	61-72	58-71	53-70	46-70	59-71	37-70	54-70	60-72	57-70	54-70
CLX6-1133	L	55-68	62-71	61-70	50-69	49-69	59-70	50-70	57-69	60-70	58-69	56-69
CLX6-1111	L	58-71	64-73	61-71	52-69	49-70	60-70	42-72	58-70	62-72	61-71	57-71
CLX5-4083	L	53-69	60-72	58-70	47-68	42-69	59-70	30-72	53-70	61-72	59-70	52-70
CLX6-1030	M	65-70	61-72	66-70	38-68	42-69	45-70	30-71	45-70	64-71	61-70	52-70
ARX7-1084	L	57-70	63-72	59-69	45-68	43-70	58-70	31-70	54-71	60-70	59-69	53-70
Mean		56-70	62-72	60-70	48-69	45-70	56-70	36-71	51-70	62-72	60-70	54-70

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

DD50 Planting Date Trials

RREC, Arkansas County – 2018 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 20	May 2	May 15	June 4	Mean	Mar 21	Apr 5	Apr 20	May 2	May 15	June 4	Mean
CL151	220	238	215	169	199	178	203	61-70	63-70	61-70	58-70	56-67	57-69	60-69
CL153	222	219	204	173	179	175	195	61-71	63-70	61-70	58-70	57-67	57-69	59-69
CL172	210	220	199	167	177	172	191	61-70	60-69	59-69	58-69	56-66	57-67	59-68
CL272	222	231	210	172	186	188	201	61-69	62-68	64-70	62-69	54-66	56-68	60-68
Diamond	246	251	221	191	207	202	220	58-69	58-68	55-69	50-68	51-66	60-68	55-68
Jupiter	252	248	224	172	226	223	224	61-68	61-67	62-67	62-68	56-65	54-69	59-67
LaKast	211	229	215	176	186	196	202	56-69	57-69	55-70	50-70	49-67	57-68	54-69
PVL01	202	203	180	167	176	163	182	59-70	60-69	58-70	56-69	52-65	56-69	57-69
Roy J	223	219	190	169	204	207	202	60-70	55-69	53-69	52-70	53-67	58-69	55-69
RT 7311 CL	262	282	258	227	242	241	252	58-70	58-69	55-69	52-69	53-68	57-68	55-69
RT CLXL745	238	256	237	203	229	226	232	56-71	58-69	58-70	54-70	54-68	57-69	56-69
RT Gemini 214 CL	260	273	246	208	247	240	246	59-69	59-99	57-69	55-69	54-66	57-69	57-68
RT 7801	267	273	240	241	212	252	247	57-69	56-68	55-68	53-68	50-66	56-68	55-68
RT XP753	263	289	255	226	245	251	255	60-70	60-71	58-70	51-70	53-69	59-70	57-70
Titan	236	245	206	172	215	209	214	60-70	64-69	65-70	59-69	55-67	50-68	59-69
Wells	214	221	184	161	170	195	191	61-71	59-69	56-70	48-70	50-68	58-69	55-70
CLX5-4083	244	231	217	165	200	186	207	63-71	59-69	58-69	54-69	50-66	51-66	56-68
CLX6-1111	233	251	217	178	190	195	211	62-69	61-70	59-70	56-70	52-66	54-68	57-69
CLX6-1133	205	223	209	188	200	181	201	60-69	58-68	56-67	55-67	52-64	54-67	56-67
ARX7-1084	247	250	233	197	229	209	228	55-64	60-68	57-68	52-68	55-66	58-68	56-67
Mean	234	243	218	186	206	204	215	60-69	60-69	58-69	55-69	53-66	56-68	57-69

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

DD50 Planting Date Trials

PTRS, St. Francis County – 2018 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 19	May 2	May 15	June 5	Mean	Mar 22	Apr 5	Apr 19	May 2	May 15	June 5	Mean
CL151	165	148	215	213	187	166	176	59-69	58-68	56-68	56-68	54-66	60-68	57-68
CL153	135	143	187	194	164	167	161	60-69	59-68	57-68	56-68	57-67	63-70	59-68
CL172	126	132	174	185	144	163	150	59-69	59-68	57-68	57-68	59-68	65-71	59-69
CL272	116	135	198	201	174	179	161	55-69	59-68	56-68	59-68	55-66	54-70	56-68
Diamond	152	161	208	214	173	186	177	54-68	52-68	52-68	53-67	55-67	61-70	55-68
Jupiter	137	127	189	186	185	205	168	58-67	60-66	60-66	59-66	56-65	53-67	58-66
LaKast	140	143	193	193	169	187	166	54-68	53-67	53-67	52-68	51-67	63-71	54-68
PVL01	137	136	164	173	153	160	152	58-69	57-68	53-66	51-66	53-66	62-71	56-68
Roy J	149	152	200	193	170	193	171	55-69	52-67	54-68	52-67	55-67	63-71	55-68
RT 7311 CL	185	199	241	237	210	192	205	52-67	52-67	53-68	54-68	49-66	59-68	53-67
RT CLXL745	164	128	221	244	204	203	189	58-69	57-67	56-68	57-68	55-67	64-71	58-68
RT Gemini 214 CL	183	198	235	248	229	242	220	54-67	53-66	54-64	56-66	54-66	63-71	55-67
RT 7801	161	191	240	233	196	205	197	54-66	52-66	53-67	52-67	47-65	58-70	53-67
RT XP753	196	196	243	244	191	228	211	56-69	56-68	54-68	55-69	51-67	63-71	56-69
Titan	118	124	175	187	171	201	160	57-68	59-66	59-67	60-67	51-66	58-69	57-67
Wells	121	121	181	183	175	168	154	55-69	52-68	48-67	49-68	51-69	63-72	53-69
CLX5-4083	132	132	180	185	157	173	156	55-68	56-67	52-67	52-67	50-67	61-69	55-67
CLX6-1111	138	150	192	198	183	201	174	58-69	58-68	57-68	57-68	55-67	63-71	58-68
CLX6-1133	153	163	190	201	177	182	175	58-69	57-68	55-67	54-66	54-65	61-69	57-67
ARX7-1084	151	142	192	213	191	192	178	54-67	53-66	54-67	53-66	53-67	65-71	55-68
Mean	148	151	201	206	180	190	175	56-68	56-67	55-67	55-67	53-67	61-70	56-68

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
ARoma 17	LA	2018 – Arkansas	Jazzman/PI597046	A mid-season, Jazmine-type aromatic variety with good yield potential; improved yield compared to Jazzman-2; moderately resistant to lodging; moderately susceptible to sheath blight, blast, and bacterial panicle blight; and susceptible to kernel smut and false smut.
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; very susceptible to sheath blight; and 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 with good yield potential; high tolerance to Newpath herbicide; 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; and 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; and 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 t/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; and 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; and susceptible to sheath blight and blast.
Della-2	LA	2012 – Louisiana	Cypress//L-205/Della	A short season, semi-dwarf long-grain aromatic variety with good yield potential; very good grain quality; and 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; and very susceptible to false smut.

General Rice Cultivar Characteristics (cont.)

University of Arkansas System Division of Agriculture

Cultivar	Grain Type	Year Released & Source	Pedigree	Highlights
Jazzman	LA	2009 – Louisiana	96 a-8/Ahrent	A mid-season, Jasmine-type aromatic variety with good yield potential and milling quality.
Jazzman-2	LA	2011 – Louisiana	9502008//Katy/902207x2/3/ Jasmine 85/Della//Leah/Della	A mid-season, Jasmine-type aromatic variety with fair yield potential; good milling compared to Jazzman; and susceptible to sheath blight, bacterial panicle blight, and straighthead.
Jupiter	M	2006 – Louisiana	Mercury//Mercury/Koshihikari/3/Ben gal// Mercury/Rico	A mid-season, semi-dwarf, medium-grain variety with excellent yield potential and milling quality; small grain size; moderately resistant to bacterial panicle blight; and moderately susceptible to kernel smut and false smut.
LaKast	L	2014 – Arkansas	LaGrue//Katy/Starbonnet/3/LaGrue	A mid-season, long-grain variety with excellent yield potential and good milling quality; moderately susceptible to sheath blight, straighthead, and bacterial panicle blight; and susceptible to blast.
PVL01	L	2017 – BASF, Horizon Ag	Proprietary variety	A mid-season, long-grain variety with fair yield potential and excellent milling quality; tolerant to Provisia herbicide; susceptible to blast, sheath blight, and bacterial panicle blight; and very susceptible to false smut.
Roy J	L	2010 – Arkansas	LaGrue//Katy/Starbonnet/5/Newbonnet/Katy//RA73/Lemont/4/Lebonnet/990 2/3/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; good milling quality; resistant to blast; and moderately susceptible to sheath blight.
RT 7321 FP	L	2018 – RiceTec, Inc.	Proprietary hybrid	A short season, long-grain hybrid with excellent yield potential; fair milling quality; and moderately susceptible to sheath blight and false smut.
RT 7323 FP	L	2018 – RiceTec, Inc.	Proprietary hybrid	A short season, long-grain hybrid with excellent yield potential; good milling yield; moderately susceptible to kernel smut; susceptible to sheath blight; and very susceptible to false smut.
RT CLXL729	L	2007 – RiceTec, Inc.	Proprietary hybrid	A short season, long-grain Clearfield hybrid with excellent yield potential; 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 very good yield potential; good milling yield; resistant to blast and straighthead; and susceptible to sheath blight and lodging.
RT CLXL4534	L	2013 – RiceTec, Inc.	Proprietary hybrid	A short season, long-grain Clearfield hybrid with good yield potential.

General Rice Cultivar Characteristics (cont.)

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Cultivar	Grain Type	Year Released & Source	Pedigree	Highlights
RT Gemini 214 CL	L	2016 – RiceTec, Inc.	Proprietary hybrid	A mid-season, long-grain Clearfield hybrid with excellent yield potential; good milling yield; 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 and 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; good milling yield; resistant to blast; and moderately susceptible to sheath blight and straighthead.
RT XP760	L	2014 – RiceTec, Inc.	Proprietary hybrid	A short season, long-grain hybrid with very good yield potential; moderately resistant to blast and bacterial panicle blight; moderately susceptible to sheath blight; and very susceptible to false smut.
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; has a preferred large grain size; and 7 days earlier maturity compared to Jupiter.
Wells	L	1999 – Arkansas	Newbonnet/3/Lebonnet/CI9902//Label le	A short season, long-grain variety with good yield potential and average to good milling quality; susceptible to blast and most other diseases.

Arkansas Rice Cultivar Reactions to 2018 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
ARoma 17	MS	MS	--	MS	--	--	S	S	MR	--
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	--	S	S	MR	--
CL272	S	MS	--	VS	S	--	MS	--	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
PVL01	S	S	--	S	--	--	VS	VS	MS	--
Roy J	MS	S	S	S	R	S	VS	S	MR	MS
RT 7311 CL	MS	R	--	--	--	--	MS	S	MS	--
RT 7321 FP	MS	--	--	--	--	--	S	MS	S	--
RT 7323 FP	S	--	--	--	--	--	MS	VS	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	MR	--	--	--	--	MS	VS	MS	--
RT 7501	S	--	--	--	--	--	S	S	--	--
RT XP753	MS	R	MS	MR	R	--	MS	S	MS	S
RT XP760	MS	MR	--	MR	R	--	MS	VS	S	--
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.