

Arkansas Rice Performance Trials 2024

Introduction

Rice cultivar performance data included in this publication are from the Arkansas Rice Performance Trials (ARPT) conducted at research stations and on-farm locations throughout Arkansas. These studies are supported through grower check-off funds administered by the Arkansas Rice Research and Promotion Board and support from the University of Arkansas System Division of Agriculture.

Methods

The 2024 Arkansas Rice Performance Trials (ARPT) contained 28 rice cultivars and were conducted at the Rice Research and Extension Center (RREC) near Stuttgart, the Pine Tree Research Station (PTRS) near Colt, the Northeast Research and Extension Center (NEREC) near Keiser, the Northeast Rice Research and Extension Center (NERREC) near Harrisburg, a grower field in Clay Co. (CLAY) near McDougal, a grower field in Desha Co. (DESHA) near McGehee, a grower field in Lawrence Co. (LAW) near Walnut Ridge, a grower field in Jackson Co. (JAC) near Newport, a grower field in Greene Co. (GRE) near Paragould, a grower field in Faulkner Co. (FAU) near Conway, and a grower field in Arkansas Co. (ARK) near Gillett. A test location map can be found on the next page.

Plots in all tests were 8 rows wide on 7.5-inch drill spacing and approximately 20 feet in length depending on location. Seeds were packaged based on 33 seed/ft² for varieties and 11 seed/ft² for hybrids. These rates are slightly higher than standard

recommended rates to account for changes in soil type and seedbed condition at planting. For each test, entries were arranged in a randomized complete block design with four replications. Percent moisture was recorded, and plot weights were adjusted to 12% moisture. Plot weights were then converted to yield in bushels per acre (bu/ac).

Plots were visually rated for lodging at harvest and converted to a 1 to 5 scale to represent stalk strength. Canopy heights were measured prior to harvest. Disease susceptibility was evaluated prior to harvest for known rice diseases.

Samples from each plot were collected at harvest, dried to ~12% moisture, then milled to obtain percent head rice (%HR; whole kernels) and percent total milled rice (%TR) represented as HR-TR.

Planting date study results from RREC and NERREC are also included. Trials were planted approximately every two weeks beginning in late March. Methods were similar to those described for ARPT.

General rice cultivar characteristics are provided to describe the majority of rice cultivars currently available to growers. Also included is the 2024 Arkansas rice cultivar disease reaction table.

Additional Information

Extension rice website:

<http://www.uaex.uada.edu/rice>

B.R. Wells Arkansas Rice Research Studies:

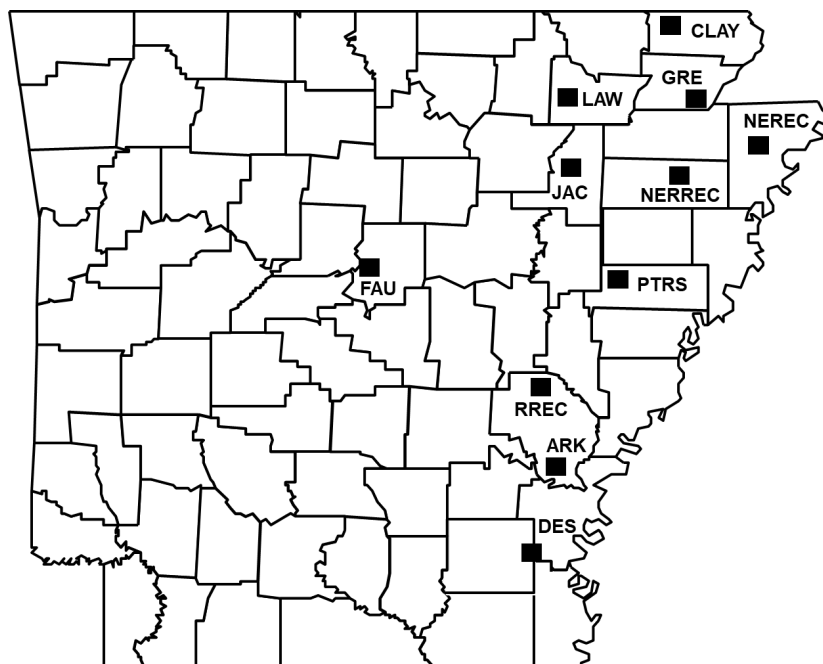
<https://aes.uada.edu/communications/publications/>

Arkansas Rice Performance Trials (ARPT)

Summary of Arkansas Rice Performance Trial Locations, 2024

University of Arkansas System Division of Agriculture

Site	Planting Date	Emergence Date	Harvest Date	Soil Type	Location Type
RREC, Arkansas Co., Stuttgart, Ark.	March 29	April 11	September 3	Dewitt silt loam	Research Station
PTRS, St. Francis Co., Colt, Ark.	April 24	May 6	September 24	Calhoun-Henry silt loam	Research Station
NEREC, Mississippi Co., Keiser, Ark.	May 29	June 7	October 14	Sharkey silty clay	Research Station
NERREC, Poinsett Co., Harrisburg, Ark.	April 23	May 6	October 2	Henry silt loam	Research Station
CLAY, Clay Co., McDougal, Ark.	April 5	April 15	August 28	Jackport silty clay	On-Farm
DESHA, Desha Co., McGehee, Ark.	May 21	May 28	September 23	Portland silt loam	On-Farm
LAW, Lawrence Co., Walnut Ridge, Ark.	April 16	April 28	September 10	Foley-Calhoun silt loam	On-Farm
JAC, Jackson, Co., Newport, Ark.	April 4	April 18	September 3	Dundee silt loam	On-Farm
GRE, Greene Co., Paragould, Ark.	April 3	April 17	August 22	Jackport silty clay loam	On-Farm
FAU, Faulkner Co., Conway, Ark.	April 16	April 28	September 23	Perry clay	On-Farm
ARK, Arkansas Co., Gillett, Ark.	April 15	April 24	August 26	LaGrue silty clay loam	On-Farm



Arkansas Rice Performance Trials (ARPT)

2024 Grain Yield Summary – All Locations

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	RREC bu/ac	PTRS bu/ac	NEREC bu/ac	NERREC bu/ac	CLAY bu/ac	DESHA bu/ac	GRE bu/ac	JAC bu/ac	LAW bu/ac	FAU bu/ac	ARK bu/ac	Mean bu/ac
Diamond	L	204	184	160	176 ¹⁹	197	171	153	198 ¹⁸	181	171 ²⁹	193 ¹⁰	181
Ozark	L	200	187	131	172 ¹⁷	205	165	184	191	194	168 ¹³	204	182
ProGold L4	L	201	170 ⁵	126	153 ²⁸	199	171	186	190 ²⁵	179 ³⁹	161 ¹⁰	189	175
DG263L	L	210	198 ⁴⁸	171	182 ²⁵	191	197	192	222 ¹⁰	173 ³¹	195 ²³	186	193
RTv7303	L	210	188 ⁸¹	199 ¹³	157	204	185	175	221	168 ⁹⁰	188 ⁶	187	189
CLL16	L	217	176	122	196 ⁷⁵	181	161	169	187 ²⁰	169 ²⁰	176 ³⁶	183	176
CLL18	L	220	198	142	155 ⁴³	217	175	175	205 ¹⁵	186	178 ¹¹	191	186
CLL19	L	184	181 ¹³	146	152 ⁴⁰	205	165	166	182	179	156	203	175
CLHA03	L	179	167	106	155 ¹⁵	182	161	177	182	164	163 ³	193	166
PVL03	L	170	144	104	131	162	156	144	161	142	152	163	148
PVL04	L	179	177	136	163	178	171	161	195 ²⁷	156	180 ⁸	187	171
DG563PVL	L	212	198	150	209	176	180	165	197 ²³	177 ⁸³	174 ²⁵	196	185
RTv7231MA	L	183	178 ¹⁵	128	182 ²⁰	212	168	185	208	199 ⁴	154	217	183
RT7331MA	L	224	194 ²⁵	151	191	230	194	194	227	195 ⁵⁵	196 ⁵	219	201
RT7421FP	L	238	222 ¹⁶	139	216 ²⁷	210	198	179	236	182 ⁸⁸	187 ²⁵	227	203
RT7521FP	L	238	200	139	200 ²⁰	243	200	200	223	144 ⁸¹	170 ⁶⁶	195	196
RT7302	L	243	197 ⁷³	141	234 ⁷	232	213	201	240	173 ⁹⁵	182 ⁵³	198	205
RT7401	L	247	216 ¹⁸	144	213 ¹⁰	218	206	191	239	188 ⁹⁶	197 ¹³	197	205
RTXP753	L	211	201 ¹⁰	171	205	238	196	190	234	182 ⁵⁴	193	214	203
DG3H2004	L	256	200 ⁴⁸	142	216 ³⁰	226	218	186	235 ¹⁵	155 ⁹¹	163 ⁹⁸	204	200
DG3H2007	L	234	198 ⁶⁵	139	169 ⁶²	232	210	214	246	119 ⁹⁶	200 ⁸³	211	198
Titan	M	188	206	170	170	219	152	183	212	198 ²⁸	173 ⁷	194	188
Taurus	M	194	188	126	102 ⁶⁸	222	179	189	204	181 ²⁵	160 ²⁵	191	176
DG353M	M	218	182	132	168 ³⁰	185	161	175	179	181	178 ⁴³	186	177
ProGold M3	M	201	187	170	189	208	176	192	191	185	159 ¹⁶	191	186
RT3202	M	247	196 ²⁴	127	199 ²⁰	225	202	210	221 ²³	174 ⁷²	181 ⁴	214	200
CLM04	M	210	183 ²³	128	140 ⁶⁵	184	176	182	178 ⁶³	156 ⁷⁹	167 ²⁶	186	172
CLM05	M	209	192	113	198	195	174	190	190 ²³	190 ²⁸	182	189	184
Mean	--	212	190	141	178	206	181	183	207	174	175	197	186

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

* Numbers in superscript beside yields represent percent lodging.

** NEREC had significant bird damage; ARK had volunteer rice present throughout; NERREC, LAW, and FAU had notable lodging affect yields for some cultivars.



Arkansas Rice Performance Trials (ARPT)

2024 Milling Yield Summary – All Locations

University of Arkansas System Division of Agriculture

Cultivar	Grain	RREC	PTRS	NEREC	NERREC	CLAY	DESHA	GRE	JAC	LAW	FAU	ARK	Mean
	Length ¹	HR-TR ²	HR-TR	HR-TR	HR-TR	HR-TR	HR-TR	HR-TR	HR-TR	HR-TR	HR-TR	HR-TR	HR-TR
Diamond	L	55-74	37-71	60-73	47-70	57-72	55-72	54-74	51-74	51-75	22-71	43-76	48-73
Ozark	L	55-74	43-71	64-73	48-70	60-73	53-71	55-74	56-73	51-75	25-71	49-76	51-73
ProGold L4	L	57-75	40-71	62-72	51-69	58-73	56-71	58-73	58-74	49-75	24-70	48-75	51-72
DG263L	L	59-72	40-69	54-69	40-68	54-71	59-70	57-72	54-72	40-72	31-69	39-74	48-71
RTv7303	L	62-71	41-68	61-70	45-66	53-71	59-70	59-71	56-71	46-72	28-68	47-74	51-70
CLL16	L	51-72	27-70	55-69	43-70	57-72	55-70	53-73	56-73	50-74	24-72	45-75	47-72
CLL18	L	56-73	42-70	58-71	41-68	56-71	53-70	55-72	54-73	51-74	27-69	46-75	49-71
CLL19	L	59-73	39-70	54-71	44-68	61-72	57-72	56-74	60-74	46-75	22-71	43-76	49-72
CLHA03	L	56-74	44-70	59-72	50-70	59-72	62-72	63-73	56-73	56-75	34-71	51-75	53-72
PVL03	L	61-75	33-70	57-71	46-70	55-74	58-73	57-75	57-74	45-76	25-72	46-73	49-73
PVL04	L	55-74	44-69	55-70	44-66	59-72	53-70	56-73	58-72	49-74	42-71	39-76	50-71
DG563PVL	L	63-73	44-69	56-68	50-68	56-71	62-70	59-70	59-73	46-72	36-70	50-74	53-71
RTv7231MA	L	53-72	15-70	42-68	27-67	54-74	51-70	54-72	48-73	36-74	13-68	46-75	40-71
RT7331MA	L	57-74	20-71	48-71	37-71	55-74	46-73	52-74	50-74	36-75	15-71	41-76	42-73
RT7421FP	L	50-74	32-70	55-70	41-70	51-72	50-69	52-73	46-73	26-74	14-70	50-75	42-72
RT7521FP	L	54-73	35-71	51-70	44-70	53-72	58-71	55-73	50-74	30-75	20-70	37-76	44-72
RT7302	L	59-75	21-70	50-70	43-70	55-73	51-73	54-74	50-74	24-75	18-71	39-76	42-73
RT7401	L	54-74	23-70	55-71	35-70	55-72	51-72	54-72	50-73	27-74	17-70	50-75	43-72
RTXP753	L	49-74	19-71	46-71	35-72	53-74	43-73	49-74	44-74	27-75	17-70	36-76	38-73
DG3H2004	L	58-74	27-70	42-68	43-70	52-72	50-71	51-71	49-74	30-74	20-66	37-75	42-71
DG3H2007	L	54-75	26-70	37-69	39-69	48-72	50-72	50-71	43-73	25-73	20-70	43-75	39-72
Titan	M	60-73	17-70	53-71	34-69	57-71	55-71	59-72	58-72	41-73	16-70	48-75	45-72
Taurus	M	62-74	21-70	57-71	36-69	62-72	57-72	67-73	54-73	41-75	22-69	47-76	48-72
DG353M	M	64-74	31-71	59-71	48-69	59-72	62-70	67-73	56-73	53-75	17-70	54-75	52-72
ProGold M3	M	67-74	41-70	62-70	56-68	63-71	63-68	68-72	60-73	54-73	31-70	57-74	57-71
RT3202	M	57-73	19-68	46-68	38-68	46-72	51-72	57-73	46-72	41-74	20-69	48-75	43-71
CLM04	M	64-74	29-70	62-70	47-69	59-72	64-69	69-72	56-73	42-73	22-69	66-74	53-71
CLM05	M	61-72	26-67	53-69	44-68	58-70	57-67	66-70	53-72	51-72	24-69	57-74	50-70
Mean	--	58-71	31-70	54-70	43-69	56-72	55-71	57-73	53-73	42-74	23-70	46-75	46-72

¹ Grain Length: L=long grain, M=medium grain; ² HR-TR = % Head Rice (whole kernel) and % Total Rice (total milled rice).

Arkansas Rice Performance Trials (ARPT)

2022-2024 Summary – Permanent Locations¹

University of Arkansas System Division of Agriculture

Cultivar	Grain	Straw Strength	50% Heading	Plant Height	Kernel Wt	Chalky Kernels	2022	2023	2024	Mean	2022	2023	2024	Mean
	Length ²	Rating ³	Days ⁴	in.	mg ⁵	% ⁵	HR-TR ⁶	HR-TR	HR-TR	HR-TR	bu/ac	bu/ac	bu/ac	bu/ac
Diamond	L	1.2	88	38	18.1	4.3	59-71	55-71	52-72	55-71	174	169	182	175
Ozark	L	1.2	89	37	18.3	6.2	61-71	57-71	54-72	57-71	192	176	177	182
DG263L	L	1.7	84	34	18.4	5.0	51-69	56-69	51-70	53-69	185	190	192	189
CLL16	L	1.3	91	38	19.3	4.2	56-70	54-69	48-70	53-70	173	170	175	173
CLL18	L	1.3	89	39	18.3	7.2	58-70	55-70	51-70	55-70	181	181	184	182
CLL19	L	1.4	86	34	18.3	7.7	60-70	57-70	52-71	56-71	184	174	172	177
PVL03	L	1.0	88	36	19.3	3.5	59-71	58-72	52-72	56-72	164	155	144	154
PVL04	L	1.0	90	34	18.7	7.3	--	57-70	52-70	54-70	--	155	167	161
RTv7231MA	L	1.5	82	35	16.6	2.3	49-70	53-71	40-70	47-70	181	180	175	179
RT7331MA	L	1.3	84	38	18.8	8.3	54-70	53-72	44-72	50-71	194	206	197	199
RT 7421 FP	L	1.3	86	40	18.4	6.9	53-71	54-71	47-71	51-71	187	214	204	201
RT 7521 FP	L	1.6	87	40	18.7	8.4	59-70	55-70	49-71	54-70	201	215	203	206
RT 7302	L	1.4	85	39	18.8	7.4	53-72	53-71	46-72	51-71	199	227	210	212
RT 7401	L	1.7	86	38	18.1	4.0	54-71	54-71	45-71	51-71	198	206	207	204
RT XP753	L	1.1	85	38	19.0	7.9	52-72	52-71	41-72	48-72	201	210	204	205
Titan	M	1.3	84	36	20.4	3.5	53-70	58-70	46-71	52-70	161	152	184	165
Taurus	M	1.4	86	34	18.6	3.2	56-70	60-71	49-71	55-71	180	178	168	175
DG353M	M	1.1	88	36	21.6	3.7	57-70	60-70	54-71	57-71	156	142	175	158
ProGold M3	M	1.0	88	33	18.5	4.8	--	64-70	59-70	61-70	--	176	189	182
RT3202	M	1.3	82	38	19.5	5.1	--	56-70	43-70	49-70	--	214	199	207
CLM04	M	1.6	89	39	19.4	4.0	61-70	63-69	54-70	59-70	160	156	170	162
CLM05	M	1.0	90	36	21.1	4.3	--	59-68	50-69	54-68	--	171	180	176
Mean	--	1.3	87	37	18.9	5.4	56-70	57-70	49-71	54-70	182	183	185	183

¹ RREC, PTRS, NEREC, NERREC, CLAY, and DESHA are permanent ARPT locations; ² Grain Length: L=long grain, M=medium grain; ³ Relative straw strength based on field tests using scale: 1=very strong straw, 5=very weak straw; based on percent lodging; ⁴ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot; ⁵ Data from Riceland Grain Quality Lab, 2021-2023 including milled kernel weight and % chalky kernels; ⁶ HR-TR = % Head Rice (whole kernel) and % Total Rice (total milled rice).

Arkansas Rice Performance Trials (ARPT)

RREC, Arkansas County 2022-2024 Summary – Silt Loam Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain	50% Heading	Plant Height	2022	2023	2024	Mean	2022	2023	2024	Mean
	Length ¹	Days ³	in.	HR-TR ⁴	HR-TR	HR-TR	HR-TR	bu/ac	bu/ac	bu/ac	bu/ac
Diamond	L	96	36	62-70	59-71	55-74	59-72	180	156	204	180
Ozark	L	98	35	62-70	63-72	55-74	60-72	207	168	200	191
DG263L	L	94	33	58-68	61-70	59-72	59-70	191	170	210	191
CLL16	L	100	37	61-69	62-71	51-72	58-70	181	163	217	187
CLL18	L	96	37	59-68	61-70	56-73	59-71	189	170	220	193
CLL19	L	93	32	61-69	64-71	59-73	61-71	193	164	184	180
PVL03	L	99	35	64-71	65-72	61-75	63-73	177	146	170	165
PVL04	L	98	33	--	61-71	55-74	58-72	--	135	179	157
RTv7231 MA	L	91	34	56-68	60-72	53-72	57-70	202	170	183	185
RT 7331 MA	L	92	35	63-71	63-72	57-74	61-73	220	210	224	218
RT 7421 FP	L	95	39	61-71	59-72	50-74	57-72	211	219	238	223
RT 7521 FP	L	95	37	61-70	63-71	54-73	59-71	211	215	238	221
RT 7302	L	94	36	63-71	63-72	59-75	62-73	222	232	243	233
RT 7401	L	95	36	62-71	59-71	54-74	58-72	211	206	247	221
RT XP753	L	93	36	61-71	61-72	49-74	57-73	219	215	211	215
Titan	M	92	33	62-69	63-70	60-73	61-71	166	130	188	162
Taurus	M	95	32	61-69	62-72	62-74	62-72	193	169	194	185
DG353M	M	97	34	63-69	67-71	64-74	65-72	155	118	218	163
ProGold M3	M	94	31	--	67-71	67-74	67-72	--	158	201	179
RT 3202	M	88	38	--	67-71	57-73	62-72	--	211	247	229
CLM04	M	96	37	65-70	68-71	64-74	66-71	172	128	210	170
CLM05	M	97	35	--	64-69	61-72	63-70	--	151	209	180
Mean	--	95	35	61-70	63-71	57-73	61-72	195	173	211	192

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-TR = % Head Rice (whole kernel) and % Total Rice (total milled rice).



Arkansas Rice Performance Trials (ARPT)

PTRS, St. Francis County 2022-2024 Summary – Silt Loam Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain	50% Heading	Plant Height	2022	2023	2024	Mean	2022	2023	2024	Mean
	Length ¹	Days ³	in.	HR-TR ⁴	HR-TR	HR-TR	HR-TR	bu/ac	bu/ac	bu/ac	bu/ac
Diamond	L	85	41	45-69	54-72	37-71	45-71	150	178	184	171
Ozark	L	85	39	48-69	54-71	43-71	48-70	177	188	187	184
DG263L	L	80	36	32-67	55-69	40-69	43-68	194	198	198	197
CLL16	L	87	39	40-68	52-70	27-70	40-69	160	174	176	170
CLL18	L	86	40	43-67	55-70	42-70	47-69	157	185	198	180
CLL19	L	81	35	45-68	56-71	39-70	47-70	154	184	181	173
PVL03	L	84	38	42-69	60-72	33-70	45-71	135	163	144	147
PVL04	L	86	35	--	58-71	44-69	51-70	--	174	177	175
RTv7231 MA	L	77	37	14-69	42-71	15-70	24-70	137	185	178	167
RT 7331 MA	L	79	42	21-59	44-71	20-71	29-67	138	212	194	181
RT 7421 FP	L	83	43	25-69	48-70	32-70	35-70	147	229	222	199
RT 7521 FP	L	84	43	43-67	56-69	35-71	45-69	187	226	200	204
RT 7302	L	81	42	22-69	49-70	21-70	31-70	149	222	197	189
RT 7401	L	82	40	29-69	49-70	23-70	34-70	158	218	216	197
RT XP753	L	81	42	23-69	52-71	19-71	31-70	168	209	201	193
Titan	M	79	37	18-68	47-70	17-70	27-70	132	167	206	168
Taurus	M	81	33	27-69	55-72	21-70	34-70	154	180	188	174
DG353M	M	84	36	29-68	59-72	31-71	39-70	151	160	182	164
ProGold M3	M	84	33	--	65-71	41-70	53-71	--	173	187	180
RT 3202	M	77	41	--	52-70	19-68	36-69	--	220	196	208
CLM04	M	85	40	39-68	65-71	29-70	44-69	146	169	183	166
CLM05	M	86	36	--	60-69	26-67	43-68	--	173	192	183
Mean	--	82	39	33-68	54-71	30-70	39-70	155	190	190	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; ⁴ HR-TR = % Head Rice (whole kernel) and % Total Rice (total milled rice).



Arkansas Rice Performance Trials (ARPT)

NERREC, Poinsett County 2022-2024 Summary – Silt Loam Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain	50% Heading	Plant Height	2022	2023	2024	Mean	2022	2023	2024	Mean
	Length ¹	Days ³	in.	HR-TR ⁴	HR-TR	HR-TR	HR-TR	bu/ac	bu/ac	bu/ac	bu/ac
Diamond	L	88	39	65-72	57-71	47-70	57-71	179	174	176	176
Ozark	L	91	38	66-72	61-72	48-70	59-71	196	178	172	182
DG263L	L	87	34	60-70	59-70	40-68	53-69	184	203	182	190
CLL16	L	90	39	63-71	57-70	43-70	54-70	178	165	196	180
CLL18	L	91	40	64-70	61-72	41-68	55-70	186	184	155	175
CLL19	L	89	36	65-71	60-71	44-68	56-70	183	162	152	166
PVL03	L	88	38	66-72	63-72	46-70	58-71	163	161	131	152
PVL04	L	88	35	--	59-69	44-66	52-68	--	162	163	162
RTv7231 MA	L	86	35	63-71	59-72	27-67	50-70	187	170	182	180
RT 7331 MA	L	88	37	67-73	60-72	37-71	54-72	225	200	191	206
RT 7421 FP	L	89	39	67-73	61-72	41-70	56-72	218	217	216	217
RT 7521 FP	L	90	40	66-72	60-71	44-70	57-71	228	209	200	212
RT 7302	L	89	39	68-73	58-72	43-70	56-72	216	230	234	227
RT 7401	L	89	37	66-72	57-72	35-70	53-72	234	214	213	220
RT XP753	L	88	38	68-73	54-72	35-72	52-72	220	217	205	214
Titan	M	87	38	65-71	62-71	34-69	54-70	173	155	170	166
Taurus	M	88	37	67-72	63-71	36-69	56-70	203	178	102	161
DG353M	M	90	38	67-72	65-71	48-69	60-71	158	151	168	159
ProGold M3	M	88	36	--	67-71	56-68	61-70	--	172	189	181
RT 3202	M	85	36	--	61-71	38-68	50-70	--	229	199	214
CLM04	M	91	39	68-71	64-69	47-69	60-69	166	163	140	156
CLM05	M	90	38	--	65-70	44-68	55-69	--	179	198	189
Mean	--	89	38	66-72	61-71	42-69	55-70	194	185	179	186

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-TR = % Head Rice (whole kernel) and % Total Rice (total milled rice).



Arkansas Rice Performance Trials (ARPT)

NEREC, Mississippi County 2022-2024 Summary – Silty Clay Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain	50% Heading	Plant Height	2022	2023	2024	Mean	2022	2023	2024*	Mean
	Length ¹	Days ³	in.	HR-TR ⁴	HR-TR	HR-TR	HR-TR	bu/ac	bu/ac	bu/ac	bu/ac
Diamond	L	88	37	63-72	60-72	60-73	61-72	186	162	160	169
Ozark	L	89	37	67-72	57-71	64-73	62-72	196	174	131	167
DG263L	L	81	36	38-69	56-69	54-69	49-69	162	165	171	166
CLL16	L	91	39	56-72	61-71	55-69	57-71	181	156	122	153
CLL18	L	87	39	63-72	58-70	58-71	59-71	188	169	142	166
CLL19	L	85	36	63-72	53-69	54-71	57-71	181	161	146	163
PVL03	L	84	36	58-72	58-71	57-71	58-71	165	126	104	132
PVL04	L	85	34	--	60-71	55-70	58-70	--	153	136	144
RTv7231 MA	L	78	37	47-71	54-71	42-68	48-70	168	171	128	156
RT 7331 MA	L	81	38	49-73	54-71	48-71	50-72	190	197	151	179
RT 7421 FP	L	83	41	46-72	55-71	55-70	52-71	137	210	139	162
RT 7521 FP	L	83	42	58-71	52-69	51-70	54-70	132	171	139	147
RT 7302	L	82	40	40-72	54-71	50-70	48-71	181	221	141	181
RT 7401	L	82	39	41-71	56-71	55-71	51-71	174	203	144	174
RT XP753	L	81	39	41-72	51-70	46-71	46-71	210	200	171	194
Titan	M	82	37	54-70	60-70	53-71	56-70	160	132	170	154
Taurus	M	83	36	55-70	61-70	57-71	57-70	164	153	126	148
DG353M	M	84	38	62-71	58-70	59-71	59-70	172	128	132	144
ProGold M3	M	83	33	--	62-69	62-70	62-69	--	193	170	182
RT 3202	M	76	37	--	46-70	46-68	46-69	--	207	127	167
CLM04	M	83	40	65-71	58-69	62-70	62-70	136	135	128	133
CLM05	M	84	35	--	54-67	53-69	54-68	--	146	113	129
Mean	--	83	38	53-71	56-70	54-70	55-70	171	170	140	159

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-TR = % Head Rice (whole kernel) and % Total Rice (total milled rice).

* 2024 trial had severe and erratic bird damage.



Arkansas Rice Performance Trials (ARPT)

Clay County 2022-2024 Summary – Silt Loam Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain	50% Heading	Plant Height	2022	2023	2024	Mean	2022	2023	2024	Mean
	Length ¹	Days ³	in.	HR-TR ⁴	HR-TR	HR-TR	HR-TR	bu/ac	bu/ac	bu/ac	bu/ac
Diamond	L	90	38	61-70	51-69	57-72	56-70	170	170	197	179
Ozark	L	91	36	65-71	55-70	60-73	60-71	190	177	205	190
DG263L	L	85	33	59-69	49-67	54-71	54-69	211	215	191	206
CLL16	L	93	37	57-68	47-68	57-72	54-69	168	177	181	175
CLL18	L	91	37	60-68	54-69	56-71	56-69	180	188	217	195
CLL19	L	87	32	63-70	58-70	61-72	60-71	197	186	205	196
PVL03	L	91	34	64-71	57-72	55-74	58-72	171	155	162	163
PVL04	L	95	33	--	55-70	59-72	57-71	--	157	178	168
RTv7231 MA	L	83	34	62-70	48-70	54-74	55-71	211	196	212	206
RT 7331 MA	L	85	36	64-71	44-71	55-74	54-72	205	215	230	217
RT 7421 FP	L	88	38	61-70	50-70	51-72	54-71	194	205	210	203
RT 7521 FP	L	88	38	62-70	52-69	53-72	56-70	226	241	243	237
RT 7302	L	88	37	65-71	41-69	55-73	54-71	225	231	232	230
RT 7401	L	87	36	64-71	49-70	55-72	56-71	214	194	218	209
RT XP753	L	86	36	63-71	42-71	53-74	53-72	194	208	238	214
Titan	M	87	37	67-70	59-69	57-71	61-70	182	171	219	191
Taurus	M	90	33	65-70	62-69	62-72	63-70	182	187	222	197
DG353M	M	93	36	65-70	61-69	59-72	62-70	161	132	185	159
ProGold M3	M	96	33	--	61-67	63-71	62-69	--	172	208	190
RT 3202	M	86	37	--	49-70	46-72	48-71	--	218	225	221
CLM04	M	93	40	66-70	63-68	59-72	63-70	172	167	184	174
CLM05	M	97	37	--	57-66	58-70	57-68	--	204	195	199
Mean	--	89	36	63-70	53-69	56-72	57-70	192	189	207	196

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-TR = % Head Rice (whole kernel) and % Total Rice (total milled rice).

Arkansas Rice Performance Trials (ARPT)

Desha County 2022-2024 Summary – Clay Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain	50% Heading	Plant Height	2022	2023	2024	Mean	2022	2023	2024	Mean
	Length ¹	Days ³	in.	HR-TR ⁴	HR-TR	HR-TR	HR-TR	bu/ac	bu/ac	bu/ac	bu/ac
Diamond	L	81	38	60-72	50-69	55-72	55-71	179	176	171	175
Ozark	L	78	36	59-72	51-68	53-71	55-71	186	172	165	174
DG263L	L	73	35	60-70	54-68	59-70	58-70	166	187	197	183
CLL16	L	80	37	60-72	47-68	55-70	54-70	169	184	161	171
CLL18	L	79	39	61-71	44-68	53-70	53-70	185	190	175	183
CLL19	L	75	35	63-72	53-69	57-72	58-71	199	187	165	184
PVL03	L	78	36	64-73	48-71	58-73	57-72	173	176	156	168
PVL04	L	77	35	--	51-69	53-70	52-69	--	151	171	161
RTv7231 MA	L	72	36	53-71	52-70	51-70	52-71	180	191	168	180
RT 7331 MA	L	75	40	58-73	54-71	46-73	53-72	184	204	194	194
RT 7421 FP	L	77	42	61-72	51-69	50-69	54-70	211	203	198	204
RT 7521 FP	L	79	43	62-72	49-69	58-71	56-70	221	230	200	217
RT 7302	L	75	39	60-74	51-70	51-73	54-72	197	229	213	213
RT 7401	L	76	38	61-73	50-69	51-72	54-71	200	201	206	202
RT XP753	L	74	37	57-73	53-71	43-73	51-72	197	211	196	201
Titan	M	76	31	54-71	57-69	55-71	55-70	150	155	152	152
Taurus	M	76	32	58-72	59-70	57-72	58-71	184	197	179	187
DG353M	M	78	33	56-71	54-68	62-70	57-70	142	163	161	156
ProGold M3	M	78	33	--	52-70	63-68	63-69	--	190	176	183
RT 3202	M	72	39	--	59-70	51-72	55-71	--	201	202	202
CLM04	M	81	39	63-72	61-69	64-69	63-70	169	177	176	174
CLM05	M	82	34	--	51-68	57-67	54-67	--	175	174	175
Mean	--	77	37	60-72	53-69	55-71	55-71	183	189	180	184

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-TR = % Head Rice (whole kernel) and % Total Rice (total milled rice).



DD50 Planting Date Trials

RREC, Arkansas County – 2024 Grain & Milling Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain	Mar 21	Apr 3	Apr 15	Apr 30	May 16	Jun 6	Mean	Mar 21	Apr 3	Apr 15	Apr 30	May 16	Jun 6	Mean
	Length ¹	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	HR-TR ²	HR-TR	HR-TR	HR-TR	HR-TR	HR-TR	HR-TR
CLL16	L	193	193	205	196	179	152	186	59-72	64-73	58-71	63-72	65-73	66-74	63-73
CLL18	L	209	205	227	231	206	175	209	61-73	64-73	56-71	64-72	66-73	65-74	63-73
CLL19	L	199	188	192	181	188	175	187	59-73	62-73	60-73	62-73	67-74	67-75	63-73
DG263L	L	207	201	207	188	214	192	202	63-71	65-71	61-71	61-72	63-72	64-73	63-72
Diamond	L	197	196	218	234	205	174	204	60-73	63-73	56-73	63-73	64-74	63-74	61-73
Ozark	L	205	190	209	213	203	165	198	62-74	64-74	58-73	64-74	67-75	66-75	64-74
PVL03	L	167	168	179	174	181	152	170	62-74	66-74	53-74	58-73	65-74	66-75	62-74
PVL04	L	175	177	193	187	201	158	182	60-73	63-73	59-72	62-73	66-74	62-74	62-73
RTv7231 MA	L	196	203	185	202	205	171	194	56-71	61-72	55-71	52-71	62-73	62-75	58-72
RTv7303	L	211	208	222	231	243	215	222	64-71	66-71	61-70	62-71	67-73	65-73	64-71
RT 7331 MA	L	212	197	213	225	223	205	212	60-74	64-73	59-73	62-74	61-75	64-75	62-74
RT 7421 FP	L	225	227	237	244	228	185	224	58-74	62-73	58-73	58-73	64-74	63-74	60-74
RT 7521 FP	L	226	213	224	232	225	186	218	61-73	66-73	59-72	60-73	67-74	65-73	63-73
RT 7302	L	231	238	235	245	244	202	233	59-74	65-74	58-74	59-74	66-75	64-75	62-74
RT 7401	L	238	228	238	234	246	196	230	57-73	62-73	58-73	60-74	63-74	64-75	61-74
RT XP753	L	224	219	211	242	232	208	222	55-74	61-74	55-74	57-74	59-74	62-75	58-74
CLM04	M	187	182	196	181	173	149	178	70-73	70-72	62-72	62-73	64-73	67-74	66-73
CLM05	M	205	186	220	200	188	164	194	67-71	69-71	64-72	58-72	65-73	64-73	64-72
RT 3202	M	220	221	209	220	243	207	220	65-71	68-73	63-72	59-73	59-73	64-74	63-73
Titan	M	181	181	177	197	208	180	187	62-72	68-72	61-72	55-72	54-73	62-73	60-72
Taurus	M	219	218	211	215	191	158	202	62-73	68-73	61-73	61-73	60-74	66-75	63-73
Mean	--	206	202	210	213	211	179	203	61-73	65-73	59-72	60-73	64-74	64-74	62-73

¹ Grain Length: L=long grain; M=medium grain; LA=long grain aromatic; ² HR-TR = % Head Rice (whole kernel) and % Total Rice (total milled rice).

* All planting dates received an accidental aerial application of 150 lb urea/acre in early July which may have affected results.



DD50 Planting Date Trials

NERREC, Poinsett County – 2024 Grain & Milling Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain	Mar 20	Apr 3	Apr 15	Apr 30	May 16	Jun 5	Mean	Mar 20	Apr 3	Apr 15	Apr 30	May 16	Jun 5	Mean
	Length ¹	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	HR-TR ²	HR-TR	HR-TR	HR-TR	HR-TR	HR-TR	HR-TR
CLL16	L	188	180	200	191	169	168	183	61-73	60-71	61-72	49-71	57-73	66-75	59-72
CLL18	L	194	206	209	191	172	154	188	58-72	59-72	57-71	52-70	55-71	64-74	57-72
CLL19	L	151	176	167	156	132	160	157	59-73	62-72	59-72	57-70	54-71	66-74	59-72
DG263L	L	199	211	216	196	180	181	197	61-71	58-70	56-70	50-70	53-69	59-71	56-70
Diamond	L	195	185	204	166	147	157	176	60-73	59-72	57-73	55-72	57-73	64-74	58-73
Ozark	L	206	202	203	166	153	172	184	58-74	59-73	56-72	51-71	56-73	66-75	58-73
PVL03	L	141	170	147	135	128	134	142	63-74	66-73	60-73	53-71	57-73	68-75	61-73
PVL04	L	161	154	164	154	151	153	156	61-72	61-71	59-71	55-70	57-71	67-74	60-71
RTv7231 MA	L	185	202	185	184	154	154	177	57-73	63-73	59-72	39-66	46-70	61-73	54-71
RTv7303	L	194	197	216	188	161	158	185	62-71	63-70	59-70	55-69	54-69	64-72	60-70
RT 7331 MA	L	200	189	181	197	169	170	184	55-74	61-73	58-73	46-72	42-72	60-75	54-73
RT 7421 FP	L	204	193	231	196	187	177	198	59-73	58-72	55-72	48-71	47-73	64-74	55-73
RT 7521 FP	L	195	177	197	191	170	170	183	59-73	60-72	56-71	52-71	50-72	61-73	56-72
RT 7302	L	183	214	219	206	192	202	203	60-74	60-72	59-73	48-72	47-73	65-75	56-73
RT 7401	L	194	202	209	207	194	192	200	61-73	61-72	56-72	41-71	46-72	62-73	54-72
RT XP753	L	202	195	201	181	193	214	198	56-74	59-73	56-73	42-72	40-73	60-74	52-73
CLM04	M	113	157	168	132	154	144	145	66-72	67-72	62-72	51-70	59-72	67-73	62-72
CLM05	M	219	213	206	199	173	164	196	67-71	66-71	65-71	48-70	57-70	65-72	61-71
RT 3202	M	185	192	192	188	165	178	183	59-72	61-72	60-72	41-70	44-70	58-73	54-71
Titan	M	166	186	173	179	169	146	170	56-72	64-72	56-71	52-70	44-71	54-72	54-71
Taurus	LA	218	233	216	213	154	126	193	66-73	69-73	63-73	50-71	50-72	65-74	60-73
Mean	--	185	192	195	182	165	165	181	60-73	62-72	58-72	49-71	51-72	63-74	57-72

¹ Grain Length: L=long grain; M=medium grain; LA=long grain aromatic; ² HR-TR = % Head Rice (whole kernel) and % Total Rice (total milled rice).



General Rice Cultivar Characteristics

University of Arkansas System Division of Agriculture

Cultivar	Grain Type	Year Released & Source	Highlights
ARoma 22	LA	2022 – Arkansas	Mid-season, Jasmine-type aromatic variety with good yield potential; improved yield compared to Jazzman-2; stands well; different aroma compared to ARoma 17; broad disease package.
CLHA03	L	2024 – BASF, Horizon Ag	Mid-season, semi-dwarf long-grain Clearfield variety (Newpath/Beyond herbicides); high amylose; limited disease rating data; S to sheath blight.
CLL16	L	2020 – BASF, Horizon Ag	Mid-season, standard stature long-grain Clearfield variety (Newpath/Beyond herbicide); very good yield potential; average milling yield; stands well; S to sheath blight & bacterial panicle blight.
CLL18	L	2022 – BASF, Horizon Ag	Mid-season, standard stature long-grain Clearfield variety (Newpath/Beyond herbicides); very good yield potential; average milling yield; yield potential higher than CLL16; stands well; S to false smut, Cercospora.
CLL19	L	2023 – BASF, Horizon Ag	Mid-season, semi-dwarf long-grain Clearfield variety (Newpath/Beyond herbicides); very good yield potential & milling yield; similar yield potential to CLL18; stands well; VS to sheath blight, Cercospora, & false smut.
CLM04	M	2019 – BASF, Horizon Ag	Mid-season, short-stature medium-grain Clearfield variety (Newpath/Beyond herbicides); good yield potential and milling yield; risk of lodging; S to blast, bacterial panicle blight, smuts.
CLM05	M	2023 – BASF, Horizon Ag	Mid-season, short-stature medium-grain Clearfield variety (Newpath/Beyond herbicides); very good yield potential and milling yield; improved yield compared to CLM04 but lower milling yield; S to sheath blight.
DG263L	L	2021 – Nutrien / DynaGro	Mid-season, short-stature long-grain variety with excellent yield potential and good milling yield; stands well; S to sheath blight, Cercospora, & false smut.
DG353M	M	2023 – Nutrien / DynaGro	Mid-season, medium-grain variety with good yield potential and milling yield; yield similar to Jupiter and Titan; S to sheath blight, Cercospora.
DG563PVL	L	2025 – Nutrien / DynaGro	Mid-season, long-grain Provisia variety (Provisia herbicide); excellent yield potential; good milling yield; limited disease rating data.
Diamond	L	2016 – Arkansas	Mid-season, long-grain variety with very good yield potential; good milling yield; stands well; VS to false smut; S to sheath blight, blast, & kernel smut.
Ozark	L	2022 – Arkansas	Mid-season, long-grain variety with excellent yield potential; good milling yield; stands well; VS to false smut; S to sheath blight, blast, & Cercospora; yield and milling improvement over Diamond.
ProGold1	L	2021 – Progeny	Mid-season, standard stature, long-grain variety with very good yield potential and good milling yield; stands well; S to sheath blight, bacterial panicle blight, and false smut; similar in performance to Diamond.
ProGold L4	L	2024 – Progeny	Mid-season, standard stature, long-grain variety with excellent yield potential; good milling yield; S to lodging; performs similarly to Ozark; limited disease rating data.
ProGold M3	M	2023 – Progeny	Mid-season medium-grain variety with very good yield potential & milling yield; yield performance similar to Taurus; highest & most consistent milling medium grain.

General Rice Cultivar Characteristics (cont.)

University of Arkansas System Division of Agriculture

Cultivar	Grain Type	Year Released & Source	Highlights
PVL03	L	2021 – BASF, Horizon Ag	Mid-season, long-grain Provisia variety (Provisia herbicide); good yield potential & good milling yield; stands well; VS to sheath blight; S to straighthead & Cercospora.
PVL04	L	2023 – BASF, Horizon Ag	Mid-season, long-grain Provisia variety (Provisia herbicide); good yield potential & good milling yield; higher grain yield & similar milling yield to PVL03; VS to sheath blight.
RT 3202	M	2023 – RiceTec, Inc.	Short season, medium-grain hybrid with excellent yield potential and good milling yield; higher yield in research trials than pureline varieties; S to sheath blight & false smut.
RTv7231 MA	L	2022 – RiceTec, Inc.	Short season, long-grain MaxAce variety (Highcard herbicide); good yield potential and fair milling yield; stands well; limited disease data; early maturity can lead to harvest at low moisture and lower milling yield.
RTv7303	L	2024 – RiceTec, Inc.	Short season, long-grain variety with excellent yield potential and good milling yield; limited disease rating data.
RT 7302	L	2022 – RiceTec, Inc.	Short-season, long-grain hybrid with excellent yield potential and good milling yield; stands well; broad disease package; yield similar to or greater than XP753.
RT 7321 FP	L	2018 – RiceTec, Inc.	Short season, long-grain FullPage hybrid (Preface/PostScript herbicides); excellent yield potential; fair milling yield; tolerant to Preface herbicide; stands well; S to kernel smut, otherwise broad disease package.
RT 7331 MA	L	2022 – RiceTec, Inc.	Short season, long-grain MaxAce hybrid (Highcard herbicide); excellent yield potential; good milling yield; tolerant to Highcard herbicide; S to sheath blight, kernel smut, & false smut.
RT 7401	L	2020 – RiceTec, Inc.	Mid-season, long-grain hybrid with excellent yield potential & good milling yield; stands well; broad disease package.
RT 7421 FP	L	2022 – RiceTec, Inc.	Mid-season, long-grain FullPage hybrid (Preface/PostScript herbicides); excellent yield potential; good milling yield; stands well; S to Cercospora; limited disease data.
RT 7521 FP	L	2018 – RiceTec, Inc.	Mid-season, long-grain FullPage hybrid (Preface/PostScript herbicides); excellent yield potential and good milling yield; risk of lodging; VS to false smut; S to sheath blight; highest yielding FP hybrid.
RT XP753	L	2011 – RiceTec, Inc.	Short season, long-grain hybrid with excellent yield potential & good milling yield; stands well; S to false smut, otherwise broad disease package.
Taurus	M	2022 – Arkansas	Mid-season, medium-grain variety with excellent yield potential; good milling yield; similar maturity to Jupiter; S to bacterial panicle blight; otherwise broad disease package; highest-yielding pureline medium-grain.
Titan	M	2016 – Arkansas	Short season, medium-grain variety with very good yield potential; good milling yield; preferred large grain size; 5-7 days earlier maturing than Taurus; stands well; S to sheath blight; otherwise broad disease package.

Arkansas Rice Cultivar Reactions to 2024 Diseases and Lodging

University of Arkansas System Division of Agriculture

Cultivar	Sheath Blight	Blast	Straight head	Bacterial Panicle Blight	Cercospora ¹	Kernel Smut	False Smut	Lodging
ARoma 22	MS	MS	--	MS	MS	--	MS	MS
CLHA03*	S	--	--	--	--	--	--	MR
CLL16	S	MS	S	S	MR	MS	MS	MS
CLL18	MS	MS	--	--	S	MS	S	MS
CLL19	VS	MS	--	MS	S	MS	S	MR
CLM04	MS	S	MS	S	MS	S	S	S
CLM05	S	MS	--	--	MS	MS	MS	MR
DG263L	S	MR	MS	--	S	MS	S	MS
DG353M	S	--	--	--	S	MS	MS	MS
DG563PVL*	--	--	--	--	--	--	--	MS
Diamond	S	S	MS	MS	MS	S	VS	MS
Ozark	S	S	S	--	S	MS	VS	MS
ProGold1	S	MS	MS	S	MS	--	S	MS
ProGold L4*	--	--	--	--	--	--	--	S
ProGold M3	S	--	--	--	MR	MS	S	MR
PVL03	VS	--	S	--	S	MS	MS	MR
PVL04	VS	--	--	--	--	MS	S	MR
RT 3202	S	--	--	--	--	MS	S	MS
RT 7302	MS	--	--	--	MS	MS	S	MS
RT 7321 FP	MS	R	S	--	S	S	MS	MS
RT 7331 MA	S	--	--	--	MS	S	S	MS
RT 7401	MS	MR	--	--	--	S	MS	S
RT 7421 FP	MS	--	--	--	S	MS	MS	S
RT 7521 FP	S	MS	MR	--	MR	MS	VS	S
RT XP753	MS	R	MS	MR	MS	MS	S	MR
RTv7231 MA	S	--	--	--	S	S	MS	MS
RTv7303*	--	--	--	--	MR	--	--	MS
Taurus	MS	MS	MS	S	MS	MS	MS	MS
Titan	S	MS	MS	MS	MS	MS	MS	MR

* Ratings based on limited data.

¹ Cercospora is referred to as the disease in general, encompassing all three symptom types: Narrow Brown Leaf Spot (NBLS) on the leaves, Cercospora Net Blotch (CNT) on the sheaths, and Cercospora Panicle Blight (CPB) on the panicle rachis and branches.

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.