



Arkansas Rice Performance Trials 2022

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 2022 Arkansas Rice Performance Trials (ARPT) contained 30 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, and a grower field in Lonoke Co. (LON) near England. 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. The samples were then dried to approximately 12% moisture before being 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 2022 Arkansas rice cultivar disease reaction table.

Additional Information

Extension rice website:

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

B.R. Wells Arkansas Rice Research Studies:

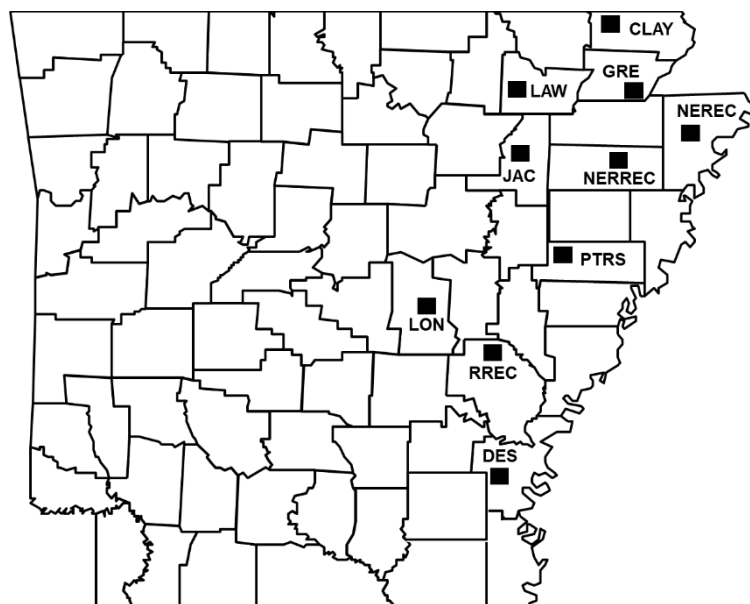
<https://aes.uada.edu/communications/publications/>

Arkansas Rice Performance Trials (ARPT)

Summary of Arkansas Rice Performance Trial Locations, 2022

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 15	September 7	Dewitt silt loam	Research Station
PTRS, St. Francis Co., Colt, Ark.	May 9	May 15	September 27	Calhoun-Henry silt loam	Research Station
NEREC, Mississippi Co., Keiser, Ark.	May 18	May 25	October 13	Sharkey silty clay	Research Station
NERREC, Poinsett Co., Harrisburg, Ark.	April 28	May 6	September 23	Henry-Calloway silt loam	Research Station
CLAY, Clay Co., McDougal, Ark.	April 28	May 11	September 14	Crowley silt loam	On-Farm
DESHA, Desha Co., McGehee, Ark.	May 20	May 28	September 28	Rilla silt, Portland clay	On-Farm
LAW, Lawrence Co., Walnut Ridge, Ark.	May 10	May 18	September 21	Foley-Calhoun silt loam	On-Farm
JAC, Jackson, Co., Newport, Ark.	May 11	May 28	September 29	Amagon/Forestdale silt loam	On-Farm
GRE, Greene Co., Paragould, Ark.	May 11	May 17	September 21	Jackport silty clay loam	On-Farm
LON, Lonoke Co., England, Ark.	May 11	May 18	September 12	Portland silty clay	On-Farm



Arkansas Rice Performance Trials (ARPT)

2022 Grain Yield Summary – All Locations

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	CLAY*	DESHA	NEREC	PTRS*	RREC	NERREC	LAW*	JAC	GRE	LON	Mean
		bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac
Diamond	L	170	179	186	150	180	179	167	159	163	183	172
Ozark	L	190	186	196	177	207	196	185	181	190	188	190
Leland	L	155	153	164	147	180	170	155	168	156	173	162
DG263L	L	211	166	162	194	191	184	188	155	181	222	185
DGL2065	L	162	173	173	158	190	164	151	154	163	181	167
DGL037	L	192	176	173	178	206	174	173	181	195	186	183
Avant	L	171	185	184	173	173	167	163	147	168	185	172
Addi Jo	L	162	163	107	129	157	157	127	154	144	149	145
ProGold1	L	171	177	184	151	174	180	156	158	171	182	170
ProGold2	L	154	180	166	142	190	167	156	159	161	168	164
CLHA02	L	186	175	186	153	172	161	136	143	164	183	166
CLL16	L	168	169	181	160	181	178	167	167	168	193	173
CLL17	L	171	164	148	161	172	154	137	126	136	179	155
CLL18	L	180	185	188	157	189	186	179	166	168	192	179
CLL19	L	197	199	181	154	193	183	176	154	167	185	179
PVL03	L	171	173	165	135	177	163	147	150	164	182	163
RTv7231MA	L	211	180	168	137	202	187	186	174	152	195	179
RT 7331 MA	L	205	184	190	138	220	225	201	169	189	186	191
RT 7321 FP	L	203	160	193	125	210	196	159	179	171	178	177
RT 7421 FP	L	194	211	137	147	211	218	181	198	164	167	183
RT 7521 FP	L	226	221	132	187	211	228	181	223	161	187	196
RT 7401	L	214	200	174	158	211	234	200	203	204	173	197
RT XP753	L	194	197	210	168	219	220	207	192	203	191	200
RT 7302	L	225	197	181	149	222	216	210	205	184	165	196
RT XP780	L	217	203	224	180	221	225	209	214	187	196	208
Jupiter	M	163	135	152	131	168	165	147	142	147	157	151
Titan	M	182	150	160	132	166	173	159	136	149	153	156
Taurus	M	182	184	164	154	193	203	189	170	168	200	181
CLM04	M	172	169	136	146	172	166	146	155	150	165	158
DGM004	M	161	142	172	151	155	158	149	162	165	149	156
MEAN	--	185	178	171	154	191	186	170	168	168	180	175

¹ Grain Length: L=long grain, M=medium grain. *PTRS harvested at low moisture, CLAY and LAW weedy locations.



Arkansas Rice Performance Trials (ARPT)

2022 Milling Yield Summary – All Locations

University of Arkansas System Division of Agriculture

Cultivar	Grain	CLAY*	DESHA	NEREC	PTRS*	RREC	NERREC	LAW*	JAC	GRE	LON	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
Diamond	L	61-70	60-72	63-72	45-69	62-70	65-72	57-69	63-72	59-70	43-70	58-71
Ozark	L	65-71	59-72	67-72	48-69	62-70	66-72	60-69	65-73	60-70	52-71	60-71
Leland	L	65-71	68-73	62-73	47-70	66-72	66-73	62-70	63-72	63-71	58-71	62-72
DG263L	L	59-69	60-70	38-69	32-67	58-68	60-70	55-68	60-70	50-68	37-69	51-69
DGL2065	L	65-71	67-73	63-73	50-70	65-71	65-72	60-69	64-72	62-71	58-72	62-71
DGL037	L	62-69	61-70	59-70	38-66	59-69	59-69	58-68	62-70	55-69	44-69	56-69
Avant	L	64-70	63-72	59-72	46-69	63-70	66-72	58-69	61-71	62-70	53-71	59-71
Addi Jo	L	61-69	66-72	62-72	57-68	64-70	66-71	58-69	65-72	64-70	62-71	62-70
ProGold1	L	64-70	60-72	66-72	31-68	60-69	66-71	56-69	58-71	54-70	50-71	56-70
ProGold2	L	64-71	54-72	61-73	26-69	64-71	66-72	56-70	50-72	48-71	45-71	53-71
CLHA02	L	61-70	63-72	63-72	36-68	62-70	64-71	49-63	59-71	56-70	50-70	56-70
CLL16	L	57-68	60-72	56-72	40-68	61-69	63-71	57-69	62-72	55-70	47-70	56-70
CLL17	L	64-70	63-71	61-71	47-68	61-69	64-71	59-68	61-70	57-69	57-70	59-70
CLL18	L	60-68	61-71	63-72	43-67	59-68	64-70	58-68	63-71	59-69	48-69	58-69
CLL19	L	63-70	63-72	63-72	45-68	61-69	65-71	58-68	64-71	61-70	52-70	59-70
PVL03	L	64-71	64-73	58-72	42-69	64-71	66-72	54-68	62-72	56-70	56-75	58-71
RTv7231MA	L	62-70	53-71	47-71	14-69	56-68	63-71	53-70	49-71	46-70	38-70	48-70
RT 7331 MA	L	64-71	58-73	49-73	21-59	63-71	67-73	52-70	54-73	42-71	39-72	51-71
RT 7321 FP	L	62-71	50-72	35-72	19-69	58-70	63-73	47-70	57-72	41-71	33-71	47-71
RT 7421 FP	L	61-70	61-72	46-72	25-69	61-71	67-73	55-70	60-73	42-71	36-71	51-71
RT 7521 FP	L	62-70	62-72	58-71	43-67	61-70	66-72	53-69	63-72	48-70	49-70	57-70
RT 7401	L	64-71	61-73	41-71	29-69	62-71	66-72	60-72	58-72	45-70	32-71	52-71
RT XP753	L	63-71	57-73	41-72	23-69	61-71	68-73	50-71	52-73	46-71	30-71	49-72
RT 7302	L	65-71	60-74	40-72	22-69	63-71	68-73	57-70	61-73	49-71	33-71	52-72
RT XP780	L	59-69	60-72	55-71	33-68	61-69	67-72	54-69	62-71	46-70	49-69	55-70
Jupiter	M	63-68	68-71	64-70	46-66	65-69	67-70	61-68	65-70	55-68	67-71	62-69
Titan	M	67-70	54-71	54-70	18-68	62-69	65-71	50-68	47-71	45-69	49-68	51-70
Taurus	M	65-70	58-72	55-70	27-69	61-69	67-72	59-69	60-71	60-70	52-72	56-70
CLM04	M	66-70	63-72	65-71	39-68	65-70	68-71	60-69	65-71	58-69	66-71	62-70
DGM004	M	65-70	56-71	62-71	29-68	63-69	67-72	50-68	63-72	54-69	55-69	57-70
MEAN	--	63-70	61-72	56-71	35-68	62-70	65-72	56-69	60-72	53-70	48-71	56-70

¹ Grain Length: L=long grain, M=medium grain; ² HR-TR = % Head Rice (whole kernel) and % Total Rice (total milled rice). *PTRS harvested at low moisture, CLAY and LAW weedy locations.



Arkansas Rice Performance Trials (ARPT)

2020-2022 Summary – Permanent Locations¹

University of Arkansas System Division of Agriculture

Cultivar	Grain	Straw Strength	50% Heading	Plant Height	Kernel Wt	Chalky Kernels	2020	2021	2022	Mean	2020	2021	2022	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	1.1	88	37	20.5	2.8	61-71	57-69	59-71	59-70	179	178	174	177
Ozark	L	1.2	90	37	18.6	3.5	--	56-70	61-71	59-70	--	192	192	192
DG263L	L	1.4	83	33	19.6	3.5	61-71	56-67	51-69	56-69	202	197	185	195
DGL037	L	1.5	89	36	17.5	1.7	--	54-67	56-69	55-68	--	188	183	186
ProGold1	L	1.0	90	36	20.9	3.9	63-72	57-69	58-71	59-71	173	177	173	174
ProGold2	L	1.0	89	37	20.0	2.8	59-69	56-70	56-71	57-70	172	169	166	169
CLL16	L	1.2	90	38	21.6	2.8	60-70	55-68	56-70	57-69	174	179	173	175
CLL17	L	1.6	86	36	19.3	3.8	62-69	60-69	60-70	61-69	169	166	162	166
PVL03	L	1.0	90	36	19.2	2.7	--	59-70	59-71	59-71	--	170	164	167
RT7321FP	L	1.2	83	41	21.7	4.3	59-72	54-70	48-71	53-71	198	213	181	197
RT7521FP	L	2.2	86	40	20.8	4.6	61-71	56-69	59-70	58-70	184	201	201	195
RT7401	L	1.6	85	37	19.7	2.6	62-72	55-70	54-71	57-71	207	213	198	206
RTXP753	L	1.1	84	39	21.1	4.2	61-72	52-70	52-72	55-71	209	214	201	208
Jupiter	M	1.2	88	35	20.7	3.5	67-71	65-69	62-69	65-70	168	175	152	165
Titan	M	1.1	83	35	22.0	2.5	66-72	59-70	53-70	59-71	175	181	161	172
Taurus	M	1.4	87	33	18.6	3.2	--	61-71	56-70	58-70	--	197	180	189
CLM04	M	1.5	87	38	20.5	3.6	68-71	63-69	61-70	64-70	164	165	160	163
DGM004	M	1.0	90	36	21.6	3.7	--	64-70	57-70	61-70	--	174	156	165
MEAN	--	1.3	87	37	20.2	3.3	62-71	58-69	57-70	60-70	183	186	176	181

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, 2019-2021 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)

Clay County 2020-2022 Summary – Silt Loam Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain	Straw Strength	50% Heading	Plant Height	2020	2021	2022	Mean	2020	2021	2022	Mean
	Length ¹	Rating ²	Days ³	in.	HR-TR ⁴	HR-TR	HR-TR	HR-TR	bu/ac	bu/ac	bu/ac	bu/ac
Diamond	L	1.0	83	35	58-70	46-69	61-70	55-70	197	174	170	180
Ozark	L	1.0	87	35	--	46-69	65-71	55-70	--	177	190	184
DG263L	L	1.0	79	31	59-71	49-67	59-69	56-69	227	208	211	215
DGL037	L	1.0	83	33	--	41-68	62-69	51-68	--	197	192	194
ProGold1	L	1.0	86	34	59-72	40-69	64-70	54-70	194	159	171	175
ProGold2	L	1.0	85	35	57-70	33-69	64-71	51-70	198	155	154	169
CLL16	L	1.0	87	35	56-69	38-68	57-68	50-68	194	184	168	182
CLL17	L	1.0	85	34	62-70	49-69	64-70	59-69	191	197	171	186
PVL03	L	1.0	85	33	--	46-71	64-71	55-71	--	175	171	173
RT7321FP	L	1.0	81	38	55-71	43-69	62-71	53-70	198	216	203	206
RT7521FP	L	3.0	83	37	57-71	40-69	62-70	53-70	152	213	226	197
RT7401	L	1.3	82	35	58-71	40-69	64-71	54-71	213	195	214	208
RTXP753	L	1.0	82	36	58-73	32-70	63-71	51-71	219	203	194	205
Jupiter	M	1.0	88	33	67-71	60-68	63-68	64-69	186	187	163	179
Titan	M	1.0	81	35	64-73	48-70	67-70	60-71	203	197	182	194
Taurus	M	1.0	83	33	--	50-71	65-70	58-70	--	188	182	185
CLM04	M	1.0	88	37	67-71	57-69	66-70	63-70	180	193	172	182
DGM004	M	1.0	87	35	--	57-69	65-70	61-69	--	192	161	176
Mean	--	1.1	84	35	60-71	45-69	63-70	56-70	196	189	183	188

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)

RREC, Arkansas County 2020-2022 Summary – Silt Loam Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain	Straw Strength	50% Heading	Plant Height	2020	2021	2022	Mean	2020	2021	2022	Mean
	Length ¹	Rating ²	Days ³	in.	HR-TR ⁴	HR-TR	HR-TR	HR-TR	bu/ac	bu/ac	bu/ac	bu/ac
Diamond	L	1.0	96	36	64-71	58-68	62-70	61-70	158	182	180	174
Ozark	L	1.5	101	36	--	57-69	62-70	59-70	--	211	207	209
DG263L	L	1.0	95	32	60-70	58-67	58-68	58-68	187	203	191	194
DGL037	L	1.0	102	35	--	55-66	59-69	57-67	--	189	206	198
ProGold1	L	1.0	98	35	68-73	60-68	60-69	63-70	140	189	174	168
ProGold2	L	1.0	97	36	61-69	61-71	64-71	62-70	149	178	190	172
CLL16	L	1.0	98	37	62-70	59-68	61-69	61-69	158	185	181	175
CLL17	L	1.3	94	34	64-69	61-69	61-69	62-69	168	185	172	175
PVL03	L	1.0	102	36	--	62-69	64-71	63-70	--	189	177	183
RT7321FP	L	1.0	92	38	61-71	58-70	58-70	59-70	188	204	210	201
RT7521FP	L	1.3	95	38	64-72	59-70	61-70	61-71	175	209	211	198
RT7401	L	1.0	95	36	65-73	59-69	62-71	62-71	192	214	211	205
RTXP753	L	1.0	94	36	64-73	59-70	61-71	61-71	189	226	219	211
Jupiter	M	1.0	98	34	68-70	65-69	65-69	66-69	143	184	168	165
Titan	M	1.0	93	33	68-72	65-70	62-69	65-70	158	200	166	175
Taurus	M	1.0	98	31	--	64-71	61-69	63-70	--	217	193	205
CLM04	M	1.0	96	36	69-71	67-70	65-70	67-70	155	191	172	173
DGM004	M	1.0	102	33	--	67-71	63-69	65-70	--	176	155	166
Mean	--	1.1	97	35	64-71	61-69	62-70	62-70	166	196	188	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)

NERREC, Poinsett County 2020-2022 Summary – Silt Loam Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain	Straw Strength	50% Heading	Plant Height	2020	2021	2022	Mean	2020	2021	2022	Mean
	Length ¹	Rating ²	Days ³	in.	HR-TR ⁴	HR-TR	HR-TR	HR-TR	bu/ac	bu/ac	bu/ac	bu/ac
Diamond	L	1.0	89	39	--	63-71	65-72	64-71	--	201	179	190
Ozark	L	1.0	89	40	--	65-71	66-72	66-72	--	206	196	201
DG263L	L	1.0	87	35	--	61-69	60-70	61-70	--	196	184	190
DGL037	L	1.0	88	36	--	57-68	59-69	58-69	--	199	174	187
ProGold1	L	1.0	92	40	--	65-71	66-71	65-71	--	200	180	190
ProGold2	L	1.0	90	41	--	65-71	66-72	65-72	--	196	167	182
CLL16	L	1.0	93	41	--	65-71	63-71	64-71	--	188	178	183
CLL17	L	2.0	89	37	--	62-69	64-71	63-70	--	159	154	156
PVL03	L	1.0	88	38	--	65-71	66-72	65-72	--	185	163	174
RT7321FP	L	1.0	87	41	--	61-72	63-73	62-72	--	239	196	218
RT7521FP	L	1.5	89	41	--	62-71	66-72	64-72	--	218	228	223
RT7401	L	1.0	89	38	--	62-71	66-72	64-72	--	238	234	236
RTXP753	L	1.0	88	40	--	64-72	68-73	66-73	--	229	220	224
Jupiter	M	1.0	90	36	--	67-70	67-70	67-70	--	194	165	179
Titan	M	1.0	87	37	--	66-70	65-71	66-70	--	185	173	179
Taurus	M	1.0	88	35	--	66-71	67-72	67-71	--	212	203	207
CLM04	M	2.0	91	41	--	66-70	68-71	67-71	--	179	166	172
DGM004	M	1.0	90	37	--	66-71	67-72	67-71	--	188	158	173
Mean	--	1.1	89	38	--	64-71	65-71	64-71	--	201	184	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)

NEREC, Mississippi County 2020-2022 Summary – Silty Clay Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain	Straw Strength	50% Heading	Plant Height	2020	2021	2022	Mean	2020	2021	2022	Mean
	Length ¹	Rating ²	Days ³	in.	HR-TR ⁴	HR-TR	HR-TR	HR-TR	bu/ac	bu/ac	bu/ac	bu/ac
Diamond	L	1.0	90	38	63-71	63-72	63-72	63-72	192	197	186	192
Ozark	L	1.0	96	40	--	62-71	67-72	64-72	--	202	196	199
DG263L	L	2.3	81	34	60-72	59-69	38-69	52-70	218	218	162	199
DGL037	L	1.5	91	38	--	62-69	59-70	60-69	--	194	173	184
ProGold1	L	1.0	93	37	65-73	66-71	66-72	66-72	193	196	184	191
ProGold2	L	1.0	93	37	58-65	63-72	61-73	61-70	178	177	166	174
CLL16	L	1.0	92	39	60-69	64-71	56-72	60-70	186	197	181	188
CLL17	L	1.7	85	36	60-68	65-70	61-71	62-70	183	179	148	170
PVL03	L	1.0	92	38	--	66-73	58-72	62-72	--	185	165	175
RT7321FP	L	1.0	80	42	60-72	59-72	35-72	51-72	208	221	193	208
RT7521FP	L	3.7	84	42	59-70	63-72	58-71	60-71	192	213	132	179
RT7401	L	2.0	84	38	58-70	63-72	41-71	54-71	210	249	174	211
RTXP753	L	1.0	82	40	60-71	60-72	41-72	54-72	226	222	210	219
Jupiter	M	1.7	86	36	67-71	68-70	64-70	67-70	184	178	152	172
Titan	M	1.0	80	36	68-72	66-72	54-70	63-71	178	185	160	174
Taurus	M	2.0	88	35	--	69-72	55-70	62-71	--	208	164	186
CLM04	M	2.0	85	39	67-71	68-71	65-71	67-71	189	185	136	170
DGM004	M	1.0	91	38	--	70-72	62-71	66-72	--	172	172	172
Mean	--	1.5	87	38	62-70	64-71	56-71	61-71	195	199	170	187

¹ Grain Length: L=long grain, M=medium grain; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging; 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 2020-2022 Summary – Clay Soil

University of Arkansas System Division of Agriculture

Cultivar	Grain	Straw Strength	50% Heading	Plant Height	2020	2021	2022	Mean	2020	2021	2022	Mean
	Length ¹	Rating ²	Days ³	in.	HR-TR ⁴	HR-TR	HR-TR	HR-TR	bu/ac	bu/ac	bu/ac	bu/ac
Diamond	L	1.0	78	39	60-70	62-69	60-72	61-71	197	169	179	182
Ozark	L	1.5	76	38	--	61-70	59-72	60-71	--	188	186	187
DG263L	L	1.7	73	37	63-71	60-68	60-70	61-69	193	184	166	181
DGL037	L	3.5	76	39	--	57-67	61-70	59-68	--	185	176	180
ProGold1	L	1.0	81	40	62-71	61-69	60-72	61-71	185	178	177	180
ProGold2	L	1.0	79	40	63-72	64-71	54-72	60-72	191	167	180	179
CLL16	L	2.0	79	41	58-70	58-67	60-72	59-69	167	163	169	166
CLL17	L	3.0	74	39	62-69	62-68	63-71	62-69	146	142	164	150
PVL03	L	1.0	78	37	--	62-69	64-73	63-71	--	153	173	163
RT7321FP	L	1.0	73	45	61-72	60-70	50-72	57-72	206	214	160	193
RT7521FP	L	2.7	78	43	63-72	63-70	62-72	62-71	206	181	221	203
RT7401	L	1.7	74	39	64-72	62-70	61-73	62-72	218	181	200	199
RTXP753	L	1.0	72	42	64-74	62-71	57-73	61-73	218	211	197	209
Jupiter	M	1.7	79	38	67-71	68-71	68-71	68-71	170	167	135	157
Titan	M	1.3	73	36	67-71	65-70	54-71	62-71	165	169	150	161
Taurus	M	2.0	74	34	--	65-70	58-72	61-71	--	186	184	185
CLM04	M	2.7	78	41	68-71	65-69	63-72	65-71	134	122	169	142
DGM004	M	1.0	76	36	--	66-71	56-71	61-71	--	177	142	160
Mean	--	1.7	76	39	63-71	62-69	59-72	61-71	184	174	174	177

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 – 2022 Grain & Milling Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain	Mar 21	Apr 4	Apr 19	Apr 30	May 16	Jun 1	Mean	Mar 21	Apr 4	Apr 19	Apr 30	May 16	Jun 1	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
Addi Jo	L	161	171	174	151	133	135	154	56-66	58-66	62-68	64-70	60-69	65-70	61-68
Avant	L	178	171	174	155	138	135	159	56-65	57-65	59-68	58-69	51-67	59-68	57-67
CLL16	L	189	184	188	176	162	148	174	54-65	56-65	55-68	57-70	50-69	62-68	56-67
CLL17	L	148	163	145	138	130	92	136	57-65	58-65	57-67	57-68	51-67	62-68	57-67
CLL18	L	196	187	206	194	170	154	184	47-63	54-64	57-67	58-69	53-68	62-68	55-67
DG263L	L	198	202	198	169	175	190	189	52-63	54-63	53-67	50-67	38-67	60-69	51-66
Diamond	L	193	181	193	160	159	154	173	51-66	56-66	57-69	57-70	50-69	63-70	56-68
Ozark	L	206	195	191	189	162	165	185	51-66	54-66	57-69	59-70	54-69	62-69	56-68
PVL03	L	175	176	175	160	137	137	160	57-67	60-67	58-69	57-70	49-69	63-70	57-68
RTv7231MA	L	203	212	192	178	170	161	186	54-65	55-65	44-67	38-68	29-67	57-70	46-67
RT7331MA	L	227	226	227	193	186	169	205	58-67	60-68	54-70	49-71	34-69	61-71	53-70
RT7321FP	L	201	203	202	180	162	145	182	54-65	57-67	51-70	47-70	30-69	55-70	49-68
RT7421FP	L	207	202	213	201	193	171	198	53-65	58-67	55-70	52-70	39-70	63-71	53-69
RT7521FP	L	202	201	217	181	198	167	194	54-65	59-66	60-70	60-70	58-70	63-70	59-68
RT7302	L	240	217	217	188	189	191	207	58-67	60-68	55-70	51-70	34-70	63-70	54-69
RT7401	L	224	212	225	197	204	178	206	54-66	59-67	55-70	50-70	38-70	63-70	53-69
RTXP753	L	215	211	222	191	186	177	200	56-67	59-68	53-70	48-71	27-69	57-71	50-69
CLM04	M	169	174	176	160	151	140	162	61-65	62-66	59-69	55-70	54-69	65-69	59-65
Taurus	M	202	204	216	186	170	167	191	58-66	61-66	58-69	52-70	39-69	62-69	55-68
Titan	M	175	163	172	136	126	134	151	60-66	59-65	49-68	41-68	36-67	60-69	51-67
ARoma 22	LA	133	141	146	138	117	125	133	60-67	61-67	60-69	56-69	48-68	64-70	58-68
Mean	--	192	190	194	172	163	154	178	55-65	58-66	56-69	53-70	44-68	61-69	55-68

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).



DD50 Planting Date Trials

NERREC, Poinsett County – 2022 Grain & Milling Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain	Mar 22	Apr 4	Apr 19	Apr 28	May 17	Jun 1	Mean	Mar 22	Apr 4	Apr 19	Apr 28	May 17	Jun 1	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
Addi Jo	L	165	186	192	160	--	154	171	64-69	65-70	63-70	64-70	60-68	64-71	63-70
Avant	L	175	192	197	173	--	161	180	61-68	63-69	63-69	63-70	59-68	63-69	62-69
CLL16	L	166	194	200	197	--	160	183	61-69	62-70	60-70	62-70	61-70	60-69	61-69
CLL17	L	153	173	165	146	--	159	159	57-65	60-67	60-68	60-68	59-68	63-69	60-68
CLL18	L	166	212	210	199	--	160	189	62-68	61-69	61-70	62-70	61-69	63-69	62-69
DG263L	L	194	187	192	194	--	195	192	58-68	56-68	55-68	58-69	56-68	60-68	57-68
Diamond	L	191	203	195	185	--	148	184	59-69	62-70	60-69	62-71	60-69	62-69	61-70
Ozark	L	187	205	211	195	--	157	191	65-71	66-72	63-71	64-71	63-70	62-69	64-71
PVL03	L	163	173	180	159	--	150	165	63-70	64-70	63-70	62-70	61-69	64-70	63-70
RTv7231MA	L	184	209	199	181	--	180	191	60-68	60-69	59-69	59-69	60-69	65-71	61-69
RT7331MA	L	223	231	242	209	--	198	221	64-71	65-72	64-72	65-73	58-70	66-72	63-72
RT7321FP	L	208	213	231	206	--	197	211	61-70	63-71	60-71	61-72	56-70	62-70	61-71
RT7421FP	L	197	205	231	215	--	188	207	64-71	62-71	62-71	65-72	61-70	64-71	63-71
RT7521FP	L	184	219	218	207	--	152	196	64-71	64-71	62-71	64-71	62-70	59-68	63-70
RT7302	L	222	249	259	235	--	199	233	57-67	65-72	65-72	66-73	62-70	66-71	63-71
RT7401	L	205	233	240	235	--	206	224	64-70	63-71	63-71	63-72	61-70	66-71	63-71
RTXP753	L	213	231	248	220	--	201	223	66-72	65-72	64-72	63-73	58-70	65-72	63-72
CLM04	M	160	175	177	168	--	144	165	63-69	66-70	66-70	66-70	65-70	66-70	65-70
Taurus	M	195	229	221	193	--	182	204	63-70	66-71	65-71	63-70	62-69	65-69	64-70
Titan	M	190	202	200	167	--	145	181	64-68	66-70	65-70	62-70	62-69	64-69	64-69
ARoma 22	LA	167	175	166	160	--	176	169	64-69	65-70	64-69	64-70	62-69	65-70	64-70
Mean	--	186	205	208	191		172	192	62-69	63-70	60-70	63-71	60-69	63-70	62-70

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 17	LA	2018 – Arkansas	Mid-season, Jasmine-type aromatic variety with good yield potential; improved yield compared to Jazzman-2; stands well; S to smuts and straighthead, otherwise broad disease package.
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.
CL111	L	2008 – BASF, Horizon Ag	Early-season, semi-dwarf long-grain Clearfield variety; good yield potential and excellent milling yield; tolerant to Newpath herbicide; stands well; VS to sheath blight and bacterial panicle blight.
CLHA02	L	2022 – BASF, Horizon Ag	Mid-season, semi-dwarf long-grain Clearfield variety with high amylose; good yield milling yield; tolerant to Newpath herbicide.
CLL16	L	2020 – BASF, Horizon Ag	Mid-season, standard stature long-grain Clearfield variety with very good yield potential and average milling yield; tolerant to Newpath herbicide; stands well; S to sheath blight and bacterial panicle blight, otherwise broad disease package.
CLL17	L	2020 – BASF, Horizon Ag	Mid-season, semi-dwarf long-grain Clearfield variety with very good yield potential and excellent milling yield; tolerant to Newpath herbicide; risk of lodging; limited disease data; MS to blast.
CLL18	L	2022 – BASF, Horizon Ag	Mid-season, standard stature long-grain Clearfield variety with very good yield potential and average milling yield; tolerant to Newpath herbicide; stands well; S to false smut; MS to other diseases.
CLM04	M	2019 – BASF, Horizon Ag	Mid-season, short-stature medium-grain Clearfield variety with good yield potential and milling yield; tolerant to Newpath herbicide; risk of lodging; S to blast and bacterial panicle blight.
DG263L	L	2021 – Nutrien / DynaGro	Mid-season, long-grain variety with excellent yield potential and good milling yield; stands well; limited disease data; S to sheath blight, MS to blast.
Diamond	L	2016 – Arkansas	Mid-season, long-grain variety with very good yield potential and good milling yield; stands well; VS to false smut; S to sheath blight, blast, and kernel smut.
Jewel	L	2020 – Arkansas	Mid-season, long-grain variety with good yield potential and milling yield; stands well; S to straighthead; otherwise, broad disease package.
Jupiter	M	2006 – Louisiana	Mid-season, semi-dwarf, medium-grain variety with very good yield potential and milling quality; small grain size; risk of lodging; S to sheath blight and blast; MR to bacterial panicle blight.
Lynx	M	2020 – Arkansas	Mid-season, short stature, medium grain variety with very good yield potential and good milling yield; has a preferred large grain size; risk of lodging; S to sheath blight and bacterial panicle blight.
Ozark	L	2022 – Arkansas	Mid-season, long-grain variety with excellent yield potential and good milling yield; stands well; VS to false smut; S to sheath blight, blast, and narrow brown leaf spot; improvement over Diamond.

General Rice Cultivar Characteristics (cont.)

University of Arkansas System Division of Agriculture

Cultivar	Grain Type	Year Released & Source	Highlights
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.
ProGold2	L	2021 - Progeny	Mid-season, standard stature, long-grain variety with good yield potential and milling yield; stands well; S to bacterial panicle blight; otherwise broad disease package.
PVL03	L	2021 – BASF, Horizon Ag	Mid-season, long-grain variety with good yield potential and good milling yield; tolerant to Provisia herbicide; stands well; limited disease data; S to sheath blight and straighthead.
RTv7231 MA	L	2022 – RiceTec, Inc.	Short season, long-grain MaxAce variety with good yield potential and fair milling yield; tolerant to Highcard herbicide; stands well; limited disease data.
RT 7301	L	2019 – RiceTec, Inc.	Short season, long-grain hybrid with excellent yield potential and good milling yield; stands well; broad disease package.
RT 7302	L	2022 – RiceTec, Inc.	Short-season, long-grain hybrid with excellent yield potential and good milling yield; stands well; broad disease package.
RT 7321 FP	L	2018 – RiceTec, Inc.	Short season, long-grain FullPage hybrid with 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 with excellent yield potential; good milling yield; tolerant to Highcard herbicide; S to sheath blight, kernel smut, and false smut.
RT 7401	L	2020 – RiceTec, Inc.	Mid-season, long-grain hybrid with excellent yield potential and good milling yield; stands well; broad disease package.
RT 7421 FP	L	2022 – RiceTec, Inc.	Mid-season, long-grain FullPage hybrid with excellent yield potential; good milling yield; tolerant to Preface herbicide; stands well; limited disease data.
RT 7521 FP	L	2018 – RiceTec, Inc.	Mid-season, long-grain FullPage hybrid with excellent yield potential and good milling yield; tolerant to Preface herbicide; risk of lodging; VS to false smut; S to sheath blight.
RT XP753	L	2011 – RiceTec, Inc.	Short season, long-grain hybrid with excellent yield potential and 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 and good milling yield; similar maturity to Jupiter; S to bacterial panicle blight; MS to other major diseases.
Titan	M	2016 – Arkansas	Short season, medium-grain variety with very good yield potential and good milling yield; preferred large grain size; 5-7 days earlier maturing than Jupiter; stands well; S to sheath blight; otherwise broad disease package.

Arkansas Rice Cultivar Reactions to 2022 Diseases and Lodging

University of Arkansas System Division of Agriculture

Cultivar	Sheath Blight	Blast	Straight head	Bacterial Panicle Blight	Narrow Brown Leaf Spot	Kernel Smut	False Smut	Lodging	Black Sheath Rot	Sheath Spot
ARoma 17	MS	MS	S	MS	--	S	S	MR	--	S
ARoma 22	MS	MS	--	MS	MS	--	MS	--	--	--
CLL15	S	MS	MS	S	S	S	S	MR	--	MS
CLL16	S	MS	--	S	MR	--	MS	MS	--	--
CLL17	S	MS	--	--	--	--	--	S	--	--
CLL18*	MS	MS	--	--	S	MS	S	--	MS	--
CLL19*	VS	S	--	MS	S	--	MS	--	--	--
CLM04	MS	S	MS	S	MS	--	S	S	--	--
DG263L	S	MS	--	--	S	MS	S	MS	MS	--
Diamond	S	S	MS	MS	MS	S	VS	MS	S	S
Jewel	MS	MS	S	MR	MS	--	MS	MS	--	--
Jupiter	S	S	MS	MR	S	MS	MS	S	MR	--
Lynx	S	MS	MS	S	MR	--	MS	S	--	--
Ozark*	S	S	--	--	S	MS	VS	--	MS	--
ProGold1	S	MS	MS	S	MS	--	S	MS	--	--
ProGold2	MS	MS	MS	S	MS	--	MS	MS	--	--
PVL03	S	--	S	--	S	MS	MS	MR	--	--
RT 7301	MS	MR	R	MR	MS	--	MS	MS	--	--
RT 7302*	--	--	--	--	--	--	--	--	--	--
RT 7321 FP	MS	R	MR	--	MS	S	MS	MS	--	--
RT 7331 MA*	S	--	--	--	MS	S	S	--	VS	--
RT 7401	MS	MR	--	--	--	--	MS	MS	MS	--
RT 7421 FP	--	--	--	--	S	--	MS	S	MS	--
RT 7521 FP	S	R	R	--	MS	MS	VS	S	VS	--
RT XP753	MS	R	MS	MR	MR	MS	S	MR	S	--
RTv7231 MA	--	--	--	--	S	--	--	--	VS	--
Taurus	MS	MS	--	S	MS	MS	MS	--	MS	--
Titan	S	MS	MS	MS	MS	MS	MS	MS	--	--

* Ratings based on limited data.

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.