



Arkansas Rice Performance Trials 2021

Introduction

Rice cultivar performance data included in this publication are from the Arkansas Rice Performance Trials (ARPT) conducted at both 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

Plots in all tests were 8 rows wide on 7.5-inch drill spacing and 18 feet in length. 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. The center 4 rows of each plot were harvested for yield determination. Percent moisture was recorded and plot weights were adjusted to 12% moisture. Plot weights were then converted to yield in bushels per acre (bu/acre). Plots were rated for disease susceptibility, canopy height, and lodging. After harvest, samples from each plot were dried to approximately 12% moisture. Samples were then milled to obtain percent head rice (%HR; whole kernels) and percent total milled rice (%TR) represented as %HR-%TR.

Planting date study results are also included, which were conducted at two locations. At each location, trials were planted approximately every two weeks beginning in late March. Methods previously described for ARPT plot size, seeding rate, harvest, and milling were similarly followed for planting date studies.

General rice cultivar characteristics are provided to describe the majority of rice cultivars currently available to growers. Also included is the 2021 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://aaes.uada.edu/communications/publications/>

Previous Performance Data

2020: [RIS No. 180](#)

2019: [RIS No. 175](#)

2018: [RIS No. 176](#)

2017: [RIS No. 177](#)

2016: [RIS No. 178](#)

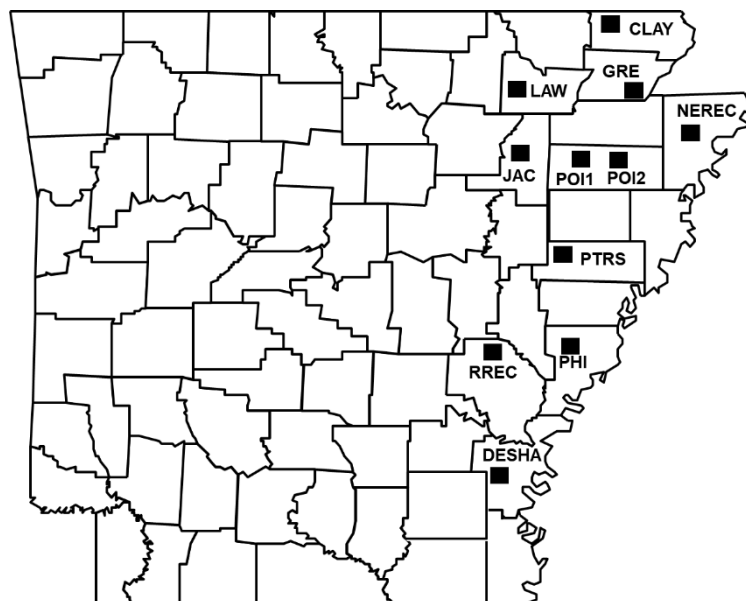
2015: [RIS No. 179](#)

Arkansas Rice Performance Trials (ARPT)

Summary of Arkansas Rice Performance Trial Locations, 2021

University of Arkansas System Division of Agriculture

Site	Planting Date	Emergence Date	Harvest Date	Soil Type	Location Type
RREC, Arkansas Co., Stuttgart, Ark.	March 24	April 12	August 31	Dewitt silt loam	Research Station
PTRS, St. Francis Co., Colt, Ark.	April 13	April 29	September 15	Calhoun-Henry silt loam	Research Station
NEREC, Mississippi Co., Keiser, Ark.	April 19	May 4	September 22	Sharkey silty clay	Research Station
POI1, Poinsett Co., Harrisburg, Ark.	May 14	May 20	October 7	Henry silt loam	Research Station
POI2, Poinsett Co., Harrisburg, Ark.	May 14	May 20	October 6	Calloway-Henry silt loam	Research Station
CLAY, Clay Co., McDougal, Ark.	April 5	April 25	September 13	Crowley silt loam, Jackport silty clay	On-Farm
DESHA, Desha Co., McGehee, Ark.	May 20	June 5	October 13	Perry clay	On-Farm
LAW, Lawrence Co., Walnut Ridge, Ark.	April 12	April 30	September 14	Beulah sandy loam, Patterson fine sandy loam	On-Farm
JAC, Jackson, Co., Newport, Ark.	May 14	May 26	September 28	Dundee silt loam	On-Farm
GRE, Greene Co., Paragould, Ark.	April 20	May 6	September 10	Jackport silty clay loam	On-Farm
PHI, Phillips Co., Marvell, Ark.	May 11	May 25	September 16	Foley-Henry silt loam	On-Farm



Arkansas Rice Performance Trials (ARPT)

2021 Summary – All Locations

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	CLAY	DESHA	NEREC	PTRS	RREC	POI1	POI2	LAW	JAC	GRE	PHI	Mean
		Grain Yield (bu/acre)											
Diamond	L	199	193	225	167	209	190	230	229	212	205	160	202
Jewel	L	208	176	216	155	202	163	214	197	197	177	151	187
ProGold1	L	182	203	224	159	216	187	229	218	214	202	166	200
ProGold2	L	178	190	202	158	203	185	224	211	192	186	149	189
20AR185	L	203	214	231	190	242	185	235	218	217	202	197	212
DG263L	L	238	210	250	200	232	209	224	240	225	233	196	223
DGL274	L	201	130	244	188	212	201	202	214	225	201	184	200
DGL037	L	225	211	222	190	216	192	227	231	238	216	164	212
PVL02	L	196	95	197	146	153	150	157	184	158	157	157	159
PVL03	L	200	175	211	152	216	147	211	195	186	151	185	185
CLL15	L	221	175	214	183	204	189	225	182	207	176	189	197
CLL16	L	210	186	225	177	212	185	215	217	212	201	170	201
CLL17	L	225	162	205	153	211	178	182	185	199	189	161	186
RT7321FP	L	247	244	253	209	233	230	273	246	259	215	230	240
RT7521FP	L	243	207	244	199	238	235	249	236	252	221	221	231
RT7301	L	237	241	247	216	252	232	248	244	246	216	212	236
RT7401	L	223	207	285	228	244	233	272	228	251	237	220	239
RTXP753	L	232	241	253	219	258	243	262	255	264	218	216	242
Lynx	M	225	155	221	170	231	183	186	219	227	179	177	197
Jupiter	M	214	190	204	159	210	180	222	218	213	188	165	197
Titan	M	226	193	211	173	228	193	211	216	209	207	170	203
19AR033	M	215	212	238	197	248	218	242	237	228	194	190	220
CLM04	M	220	139	212	140	218	160	205	201	212	180	165	187
DGM004	M	219	203	197	156	202	173	215	205	211	174	152	192
MEAN	--	216	190	226	178	220	193	223	218	219	197	181	206

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

Arkansas Rice Performance Trials (ARPT)

2021 Summary – All Locations

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	CLAY	DESHA	NEREC	PTRS	RREC	POI1	POI2	LAW	JAC	GRE	PHI	Mean
		Milling Yield (% Head Rice - % Total Rice)											
Diamond	L	46-69	62-69	63-72	58-68	58-68	63-71	63-71	52-71	56-71	48-71	59-67	57-70
Jewel	L	57-71	62-69	63-71	59-69	57-69	65-71	65-71	55-71	62-72	58-71	61-69	60-70
ProGold1	L	40-69	61-69	66-71	59-68	60-68	65-71	65-71	48-70	58-71	44-70	63-70	57-70
ProGold2	L	33-69	64-71	63-72	59-69	61-71	65-71	65-71	39-71	53-71	39-70	63-69	55-70
20AR185	L	46-69	61-70	62-71	56-68	57-69	64-71	63-71	48-70	57-71	52-70	59-68	57-70
DG263L	L	49-67	60-68	59-69	56-66	58-67	61-68	61-69	49-67	58-69	52-68	58-67	56-68
DGL274	L	52-65	61-67	65-70	57-66	58-66	60-67	62-68	57-68	62-69	60-67	62-67	60-67
DGL037	L	41-68	57-67	62-69	56-66	55-66	57-67	57-68	47-69	56-69	47-68	59-67	54-68
PVL02	L	58-71	63-70	67-72	62-70	64-71	62-70	63-71	57-72	62-73	62-73	64-70	62-71
PVL03	L	46-71	62-69	66-73	58-69	62-69	64-71	65-71	46-71	58-71	46-71	62-69	58-71
CLL15	L	44-69	61-67	66-71	55-67	62-68	63-69	65-70	44-64	58-71	49-70	61-68	57-69
CLL16	L	38-68	58-67	64-71	55-66	59-68	63-70	65-71	44-69	57-71	47-70	59-68	55-69
CLL17	L	49-69	62-68	65-70	60-68	61-69	62-69	62-69	55-69	64-70	58-69	60-67	60-69
RT7321FP	L	43-69	60-70	59-72	49-67	58-70	59-70	61-72	35-71	51-71	38-70	59-70	52-70
RT7521FP	L	40-69	63-70	63-72	55-66	59-70	61-70	62-71	43-70	56-71	51-70	64-70	56-70
RT7301	L	37-70	62-72	63-72	49-68	61-71	60-70	63-72	38-71	55-72	43-71	63-70	54-71
RT7401	L	40-69	62-70	63-72	52-68	59-69	64-71	62-71	42-70	57-71	49-71	65-71	56-70
RTXP753	L	32-70	62-71	60-72	49-68	59-70	62-71	64-72	43-71	54-72	40-71	62-71	53-71
Lynx	M	52-69	65-71	69-71	58-68	67-70	67-71	66-72	55-72	66-72	65-70	63-68	63-70
Jupiter	M	60-68	68-71	68-70	62-67	65-69	65-69	67-70	62-70	65-70	66-69	64-68	65-69
Titan	M	48-70	65-70	66-72	51-68	65-70	64-70	66-70	43-70	60-71	57-71	66-70	59-70
19AR033	M	50-71	65-70	69-72	59-69	64-71	63-70	66-71	56-71	67-72	60-71	65-70	62-71
CLM04	M	57-69	65-69	68-71	59-67	67-70	65-70	66-70	56-71	67-72	67-71	65-69	64-70
DGM004	M	57-69	66-71	70-72	62-69	67-71	65-71	66-71	54-72	67-72	62-71	64-69	64-71
MEAN	--	46-69	62-69	65-71	56-68	61-69	63-70	64-71	49-70	59-71	53-70	62-69	58-70

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

Arkansas Rice Performance Trials (ARPT)

2019-2021 Summary – Permanent Locations¹

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ²	Straw Strength ³	50% Heading ⁴	Plant Height	Test Weight	Milled Kernel Wt ⁵	Chalky Kernels ⁵	Milling Yield by Year				Grain Yield by Year			
		Rating	Days	in.	lbs/bu	mg	%	2019	2020	2021	Mean	2019	2020	2021	Mean
		% Head Rice - % Total Rice							Bushels / Acre						
Diamond	L	1.0	86	36	41.6	21.7	2.34	58-70	61-71	57-69	59-70	204	206	198	203
Jewel	L	1.0	87	37	41.9	20.0	2.21	61-71	62-70	60-70	61-70	184	186	191	187
ProGold1	L	1.0	88	35	41.5	21.8	3.44	56-70	63-72	57-69	59-70	206	200	197	201
ProGold2	L	1.0	88	36	42.0	21.0	1.81	54-71	59-69	56-70	56-70	183	198	186	189
DG263L	L	1.2	83	33	41.2	20.1	3.04	58-68	61-71	56-67	58-68	239	233	226	233
PVL02	L	1.9	84	36	41.6	19.0	2.22	65-72	64-71	63-71	64-72	180	160	157	166
CLL15	L	1.1	85	32	41.6	21.0	1.60	59-69	62-70	58-69	60-69	206	200	199	202
CLL16	L	1.1	88	37	41.5	22.5	2.04	55-68	60-70	55-68	56-68	205	200	202	202
CLL17	L	1.6	85	35	42.4	21.1	3.40	--	62-69	60-69	61-69	--	195	191	193
RT7321FP	L	1.0	81	39	42.3	22.5	2.69	55-71	59-72	54-70	56-71	237	228	237	234
RT7521FP	L	1.7	84	38	41.5	21.5	3.04	58-70	61-71	56-69	58-70	240	212	226	226
RT7301	L	1.1	83	36	41.9	21.5	2.79	57-71	60-72	54-70	57-71	243	231	239	238
RT7401	L	1.1	84	36	41.5	21.0	2.20	--	62-72	55-70	58-71	--	238	237	238
RTXP753	L	1.0	82	37	42.0	21.8	2.41	56-71	61-72	52-70	57-71	242	241	241	241
Lynx	M	1.5	86	35	41.6	23.8	2.07	59-69	68-73	62-70	63-71	215	203	200	206
Jupiter	M	1.1	87	34	41.5	21.4	2.28	63-68	67-71	65-69	65-69	218	193	195	202
Titan	M	1.1	81	34	42.4	22.8	1.63	59-69	66-72	59-70	62-71	218	201	206	208
CLM04	M	1.3	87	37	41.7	21.3	2.89	62-69	68-71	63-69	64-70	208	189	186	194
MEAN	--	1.2	85	36	41.8	21.4	2.45	59-70	63-71	58-69	60-70	214	206	206	209

¹ RREC, PTRS, NEREC, 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, 2018-2020.

Arkansas Rice Performance Trials (ARPT)

Clay County 2019-2021 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	2019	2020	2021	Mean	2019	2020	2021	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
Diamond	L	1.0	86	34	41.9	63-72	58-70	46-69	55-70	226	226	199	217
Jewel	L	1.0	87	35	42.8	64-72	61-70	57-71	61-71	189	216	208	204
ProGold1	L	1.0	88	33	41.2	64-71	59-72	40-69	54-71	222	224	182	209
ProGold2	L	1.0	88	34	42.2	62-72	57-70	33-69	51-70	191	228	178	199
DG263L	L	1.0	83	31	41.7	60-69	59-71	49-67	56-69	238	261	238	246
PVL02	L	1.0	86	35	42.3	69-73	63-72	58-71	63-72	191	188	196	192
CLL15	L	1.0	86	30	41.8	64-71	61-70	44-69	56-70	224	218	221	221
CLL16	L	1.0	89	34	41.9	60-70	56-69	38-68	51-69	207	223	210	213
CLL17	L	1.0	84	33	42.9	--	62-70	49-69	56-69	--	220	225	222
RT7321FP	L	1.0	83	37	41.9	61-73	55-71	43-69	53-71	256	228	247	244
RT7521FP	L	3.0	84	36	41.5	62-72	57-71	40-69	53-71	253	175	243	224
RT7301	L	1.0	86	34	41.7	62-73	54-71	37-70	51-71	255	246	237	246
RT7401	L	1.5	81	34	41.1	--	58-71	40-69	49-70	--	245	223	234
RTXP753	L	1.0	84	35	41.7	63-73	58-73	32-70	51-72	256	252	232	247
Lynx	M	1.3	89	34	42.0	64-71	67-73	52-69	61-71	209	232	225	222
Jupiter	M	1.0	91	33	42.4	66-70	67-71	60-68	65-70	200	215	214	209
Titan	M	1.0	83	34	43.4	66-71	64-73	48-70	60-71	242	233	226	234
CLM04	M	1.0	92	36	41.5	68-71	67-71	57-69	64-70	214	207	220	214
Mean	--	1.2	86	34.0	42.0	64-72	60-71	46-69	56-70	223	224	218	222

¹ Grain Length: L=long grain, M=medium grain; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging; ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot.



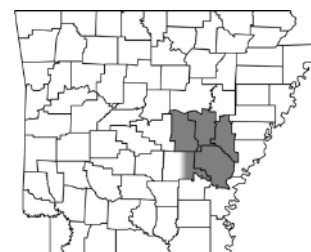
Arkansas Rice Performance Trials (ARPT)

RREC, Arkansas County 2019-2021 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	2019	2020	2021	Mean	2019	2020	2021	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
Diamond	L	1.0	90	35	42.0	55-68	64-71	58-68	59-69	219	182	209	203
Jewel	L	1.0	90	36	42.2	57-70	63-70	57-69	59-70	220	153	202	192
ProGold1	L	1.0	92	35	41.9	56-67	68-73	60-68	61-70	225	162	216	201
ProGold2	L	1.0	91	35	42.6	56-70	61-69	61-71	60-70	215	172	203	197
DG263L	L	1.7	90	33	40.7	59-68	60-70	58-67	59-68	252	215	232	233
PVL02	L	2.0	89	35	41.8	66-72	65-71	64-71	65-71	179	179	153	170
CLL15	L	1.0	90	32	40.9	61-69	65-71	62-68	63-69	214	210	204	210
CLL16	L	1.0	92	36	41.9	51-66	62-70	59-68	58-68	233	182	212	209
CLL17	L	1.0	93	34	40.6	-	64-69	61-69	63-69		193	211	202
RT7321FP	L	1.0	87	37	42.3	55-70	61-71	58-70	58-70	248	216	233	232
RT7521FP	L	1.0	89	37	40.9	57-69	64-72	59-70	60-70	256	202	238	232
RT7301	L	1.3	89	37	41.4	60-71	64-72	61-71	62-71	274	205	252	244
RT7401	L	1.0	93	36	39.5	-	65-73	59-69	62-71		221	244	233
RTXP753	L	1.0	88	37	41.7	60-71	64-73	59-70	61-71	265	217	258	247
Lynx	M	1.0	91	34	41.6	63-69	69-72	67-70	66-70	237	192	231	220
Jupiter	M	1.0	93	34	42.6	63-68	68-70	65-69	65-69	246	165	210	207
Titan	M	1.0	87	33	42.9	62-69	68-72	65-70	65-70	226	182	228	212
CLM04	M	1.0	92	36	42.6	64-69	69-71	67-70	66-70	231	179	218	209
Mean	--	1.1	90	35	41.7	59-69	65-71	61-69	62-70	234	190	220	214

¹ Grain Length: L=long grain, M=medium grain; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging; ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot.



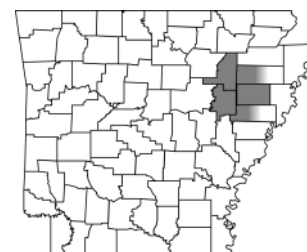
Arkansas Rice Performance Trials (ARPT)

PTRS, St. Francis County 2019-2021 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	2019	2020	2021	Mean	2019	2020	2021	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
Diamond	L	1.0	86	35	39.4	52-70	60-71	58-68	57-70	179	171	167	172
Jewel	L	1.0	87	36	39.6	61-72	62-70	59-69	61-70	156	159	155	157
ProGold1	L	1.0	88	34	39.6	40-69	60-72	59-68	53-70	179	179	159	172
ProGold2	L	1.0	88	35	39.8	35-70	55-69	59-69	50-69	148	164	158	157
DG263L	L	1.0	82	31	40.1	53-68	62-71	56-66	57-68	209	215	200	208
PVL02	L	1.7	83	35	40.6	59-72	65-71	62-70	62-71	164	154	146	155
CLL15	L	1.0	84	30	40.7	48-69	62-69	55-67	55-69	185	187	183	185
CLL16	L	1.0	87	36	39.3	54-69	62-72	55-66	57-69	193	187	177	186
CLL17	L	1.5	90	33	41.1	--	63-70	60-68	61-69	--	184	153	168
RT7321FP	L	1.0	81	38	41.3	42-70	58-71	49-67	49-69	206	219	209	212
RT7521FP	L	1.0	83	38	40.8	50-70	61-71	55-66	55-69	216	225	199	214
RT7301	L	1.0	82	35	41.0	40-70	56-73	49-68	48-70	197	216	216	210
RT7401	L	1.0	88	35	40.5	--	63-73	52-68	57-70	--	232	228	230
RTXP753	L	1.0	82	36	41.2	40-70	59-72	49-68	49-70	201	224	219	214
Lynx	M	1.0	85	34	40.5	47-69	69-76	58-68	58-71	185	200	170	185
Jupiter	M	1.0	85	32	38.9	61-67	68-72	62-67	63-68	198	177	159	178
Titan	M	1.0	81	33	39.9	43-68	65-72	51-68	53-70	187	195	173	185
CLM04	M	1.0	84	35	39.9	51-69	69-73	59-67	60-70	181	188	140	170
Mean	--	1.1	85	35	40.2	48-69	62-71	56-68	56-70	186	193	178	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.



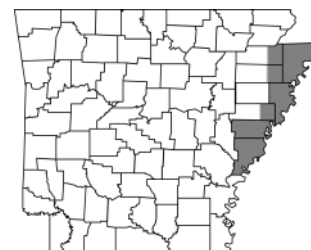
Arkansas Rice Performance Trials (ARPT)

NEREC, Mississippi County 2019-2021 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	2019	2020	2021	Mean	2019	2020	2021	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
Diamond	L	1.0	87	36	41.2	62-69	63-71	63-72	63-70	193	221	225	213
Jewel	L	1.0	89	38	41.3	60-68	62-69	63-71	62-69	171	206	216	198
ProGold1	L	1.0	90	35	40.9	65-70	65-73	66-71	65-72	197	222	224	214
ProGold2	L	1.0	89	35	41.7	64-71	58-65	63-72	62-69	179	205	202	195
DG263L	L	1.0	82	32	40.1	59-66	60-72	59-69	59-69	255	251	250	252
PVL02	L	1.0	84	35	41.0	68-72	63-70	67-72	66-72	184	184	197	188
CLL15	L	1.0	86	32	40.5	63-69	63-70	66-71	64-70	200	196	214	203
CLL16	L	1.0	90	37	41.4	55-66	60-69	64-71	59-69	187	214	225	209
CLL17	L	1.0	84	33	42.8	--	60-68	65-70	63-69	--	210	205	208
RT7321FP	L	1.0	80	39	41.1	62-71	60-72	59-72	60-72	237	240	253	243
RT7521FP	L	2.3	85	38	40.5	61-69	59-70	63-72	61-70	233	222	244	233
RT7301	L	1.0	83	36	40.6	64-71	60-71	63-72	62-71	245	240	247	244
RT7401	L	1.0	82	35	41.7	--	58-70	63-72	60-71	--	242	285	263
RTXP753	L	1.0	82	37	40.8	62-72	60-71	60-72	61-72	245	261	253	253
Lynx	M	1.0	87	35	41.5	63-66	68-72	69-71	66-70	229	227	221	226
Jupiter	M	1.0	86	34	41.3	62-65	67-71	68-70	66-69	230	212	204	215
Titan	M	1.0	79	33	42.3	67-69	68-72	66-72	67-71	218	205	211	211
CLM04	M	1.0	86	37	41.6	64-67	67-71	68-71	66-70	208	217	212	212
Mean	--	1.1	85	35	41.2	63-69	62-70	64-71	63-70	213	221	227	221

¹ Grain Length: L=long grain, M=medium grain; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging; ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot.



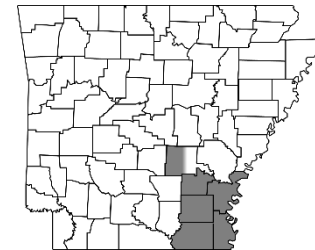
Arkansas Rice Performance Trials (ARPT)

Desha County 2018-2020 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	2018	2020	2021	Mean	2018	2020	2021	Mean
		% Head Rice - % Total Rice						Bushels / Acre					
Diamond	L	1.0	77	39	42.9	57-70	60-70	62-69	59-70	213	227	193	211
Jewel	L	1.0	81	40	43.4	59-71	61-71	62-70	61-70	202	194	176	190
ProGold1	L	1.0	83	39	43.3	58-69	62-71	61-69	60-70	201	213	203	206
ProGold2	L	1.0	80	40	43.7	49-70	63-72	64-71	59-71	183	220	190	198
DG263L	L	1.5	73	39	45.4	--	63-71	60-68	61-69	--	223	210	216
PVL02	L	5.0	72	40	42.9	--	65-72	63-70	64-71	--	97	95	96
CLL15	L	1.3	77	36	43.7	61-71	61-68	61-67	61-69	194	189	175	186
CLL16	L	1.7	81	41	42.5	59-71	58-70	58-67	58-69	207	193	186	195
CLL17	L	3.5	73	41	44.5	--	62-69	62-68	62-69	--	168	162	165
RT7321FP	L	1.0	75	43	44.3	57-71	61-72	60-70	59-71	218	237	244	233
RT7521FP	L	1.3	77	40	43.2	60-70	63-72	63-70	62-71	216	238	207	220
RT7301	L	1.0	72	43	46.8	--	64-73	62-72	63-72	--	247	241	244
RT7401	L	1.0	73	41	44.9	--	64-72	62-70	63-71	--	251	207	229
RTXP753	L	1.0	74	41	44.2	60-72	64-74	62-71	62-72	234	251	241	242
Lynx	M	3.1	80	39	42.6	49-69	66-71	65-71	60-71	205	165	155	175
Jupiter	M	1.7	81	38	42.0	58-70	67-71	68-71	65-71	192	196	190	193
Titan	M	1.3	75	36	43.0	60-70	67-71	65-70	64-70	177	190	193	187
CLM04	M	2.7	79	41	42.2	58-70	68-71	65-69	64-70	211	154	139	168
Mean	--	1.7	77	40	43.6	57-70	63-71	62-70	61-70	204	203	189	197

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.



DD50 Planting Date Trials

RREC, Arkansas County – 2021 Grain & Milling Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	Grain Yields (Bushels/Acre)							Milling Yield (%HR-%TR) ²						
		Mar 22	Apr 5	Apr 20	May 5	May 20	Jun 4	Mean	Mar 22	Apr 5	Apr 20	May 5	May 20	Jun 4	Mean
Diamond	L	209	199	169	192	163	186	187	58-69	59-69	58-68	57-68	58-68	67-72	59-69
Jewel	L	192	175	150	185	126	166	166	54-68	56-69	58-68	58-69	62-70	67-72	59-69
ProGold1	L	203	188	151	200	145	178	178	60-68	62-68	60-67	60-68	60-69	68-72	62-69
ProGold2	L	197	192	171	173	150	195	180	58-70	61-70	59-67	56-68	58-69	66-73	60-69
DG263L	L	237	221	191	194	168	229	207	56-66	56-66	59-67	58-66	59-66	63-69	58-67
DGL274	L	212	209	173	182	161	208	191	57-63	58-65	61-67	60-65	59-65	63-68	59-66
CLL16	L	215	206	164	178	145	172	180	57-67	59-67	58-67	60-67	61-69	65-71	60-68
CLL17	L	218	207	131	163	140	181	173	61-67	61-67	61-68	59-67	56-66	63-70	60-67
PVL02	L	174	127	137	148	132	159	146	63-71	65-72	64-71	63-70	62-70	65-72	64-71
PVL03	L	205	204	174	174	126	165	175	59-71	63-71	59-69	57-68	56-68	66-73	60-70
CLM04	M	212	201	163	182	142	184	181	64-68	65-69	64-68	64-68	62-69	68-71	64-69
Lynx	M	223	195	178	197	156	184	189	64-69	63-68	64-69	63-68	60-68	67-71	64-69
RT 7301	L	248	196	220	205	169	228	211	60-70	60-70	60-70	63-70	57-69	66-72	61-70
RT 7321 FP	L	247	219	204	222	201	233	221	57-69	56-69	57-69	61-70	58-69	65-72	59-70
RT 7401	L	243	209	233	218	199	236	223	58-69	58-69	61-69	62-70	58-69	67-72	61-69
RT 7521 FP	L	237	209	205	187	199	239	213	58-68	60-68	61-69	62-69	61-69	68-73	62-69
ARoma 17	LA	179	168	130	162	115	151	151	64-70	64-69	63-69	61-68	60-68	68-72	63-69
Jupiter	M	222	169	160	166	126	166	168	61-66	63-67	62-66	63-68	60-66	67-71	63-67
Titan	M	233	176	181	177	140	195	184	65-69	64-69	65-70	65-69	61-67	68-71	65-69
RT XP753	L	246	215	212	228	192	238	222	59-70	60-69	60-70	63-70	59-69	67-73	61-70
CLL15	L	204	199	180	180	162	205	188	60-68	62-68	58-67	58-66	56-66	63-70	59-68
RTv7231 MA	L	224	212	206	198	168	227	206	58-67	58-68	60-70	58-68	57-67	63-70	59-68
Mean	--	217	195	177	187	156	197	188	60-68	61-68	61-68	61-68	59-68	66-71	61-69

¹ Grain Length: L=long grain; M=medium grain; LA=long grain aromatic; ² %HR = head rice, %TR = total milled rice.

DD50 Planting Date Trials

PTRS, St. Francis County – 2021 Grain & Milling Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	Grain Yields (Bushels/Acre)							Milling Yield (%HR-%TR) ²						
		Mar 22	Apr 5	Apr 20	May 6	May 20	Jun 15	Mean	Mar 22	Apr 5	Apr 20	May 6	May 20	Jun 15	Mean
Diamond	L	169	178	173	163	176	166	171	56-67	54-68	56-68	54-65	55-64	62-69	56-67
Jewel	L	144	158	163	133	160	143	150	52-67	54-67	56-68	56-66	55-63	63-70	56-67
ProGold1	L	158	176	171	148	174	155	164	60-69	58-68	59-68	52-63	52-61	63-70	57-67
ProGold2	L	167	167	178	157	160	156	164	60-69	57-69	57-68	51-63	50-61	60-69	56-66
DG263L	L	204	205	210	175	192	173	193	57-66	54-65	55-65	50-61	47-56	56-65	53-63
DGL274	L	195	209	190	171	184	173	187	57-65	57-67	56-65	50-60	46-56	59-66	54-63
CLL16	L	166	179	175	155	188	152	169	53-65	54-66	53-65	50-62	52-63	54-66	53-65
CLL17	L	174	177	183	156	154	146	165	63-69	60-68	59-67	53-63	47-57	55-65	56-65
PVL02	L	171	167	156	131	109	98	139	65-71	62-71	62-70	53-65	51-62	60-68	59-68
PVL03	L	163	160	170	121	115	52	130	59-70	56-69	56-68	46-63	41-57	38-57	49-64
CLM04	M	178	177	175	105	145	136	153	65-69	61-69	62-68	52-62	50-60	64-68	59-66
Lynx	M	197	202	207	158	174	143	180	65-69	59-68	60-68	52-62	45-58	62-68	57-65
RT 7301	L	220	218	204	183	191	157	196	61-70	50-69	51-68	51-63	43-59	56-67	52-66
RT 7321 FP	L	209	199	200	173	174	159	186	58-69	49-68	50-67	47-61	38-56	52-66	49-64
RT 7401	L	218	241	231	210	202	180	214	61-69	54-68	54-68	46-60	43-56	59-68	53-65
RT 7521 FP	L	206	212	220	189	178	166	195	58-67	54-66	55-65	46-59	42-55	58-67	52-63
ARoma 17	LA	155	162	154	149	148	126	149	62-69	60-69	60-69	53-64	51-61	61-68	58-67
Jupiter	M	182	179	163	142	141	152	160	62-67	56-67	61-66	50-60	47-56	63-68	57-64
Titan	M	167	156	193	143	137	142	156	63-69	52-69	55-68	55-63	42-56	58-66	54-65
RT XP753	L	215	224	219	199	187	166	202	60-70	49-68	48-68	47-61	40-57	54-67	50-65
CLL15	L	194	195	210	179	164	150	182	61-68	56-67	56-67	48-61	45-57	60-68	54-65
RTv7231 MA	L	212	210	210	205	173	171	197	58-69	48-69	50-69	54-65	48-57	59-68	53-66
Mean	--	185	189	189	161	165	148	173	60-68	55-68	56-67	51-62	47-59	58-67	54-65

¹ Grain Length: L=long grain; M=medium grain; LA=long grain aromatic; ² %HR = head rice, %TR = 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	A mid-season, Jasmine-type aromatic variety with good yield potential; improved yield compared to Jazzman-2; stands well; susceptible to smuts and straighthead, otherwise broad disease package.
CL111	L	2008 – BASF, Horizon Ag	An early season, semi-dwarf long-grain Clearfield variety; good yield potential and excellent milling yield; high tolerance to Newpath herbicide; stands well; very susceptible to sheath blight and bacterial panicle blight.
CL151	L	2007 – BASF, Horizon Ag	A mid-season, semi-dwarf long-grain Clearfield variety with very good yield potential and excellent milling yield; high tolerance to Newpath herbicide; risk of lodging; susceptible to most major diseases.
CL153	L	2016 – BASF, Horizon Ag	A mid-season, semi-dwarf long-grain Clearfield variety similar to CL151 with good yield potential and excellent milling yield; high tolerance to Newpath herbicide; stands well; improved disease package compared to CL151.
CLL15	L	2019 – BASF, Horizon Ag	A mid-season, semi-dwarf long-grain Clearfield variety with very good yield potential and excellent milling yield; high tolerance to Newpath herbicide; stands well; susceptible to several diseases, moderately susceptible to blast.
CLL16	L	2020 – BASF, Horizon Ag	A mid-season, standard stature long-grain Clearfield variety with very good yield potential and average milling yield; high tolerance to Newpath herbicide; stands well; susceptible to sheath blight and bacterial panicle blight, otherwise broad disease package.
CLL17	L	2020 – BASF, Horizon Ag	A mid-season, semi-dwarf long-grain Clearfield variety with very good yield potential and excellent milling yield; high tolerance to Newpath herbicide; risk of lodging; limited disease data in AR, moderately susceptible to blast.
CLM04	M	2019 – BASF, Horizon Ag	A mid-season, short-stature medium-grain Clearfield variety with good yield potential and milling yield; high tolerance to Newpath herbicide; risk of lodging; susceptible to blast and bacterial panicle blight.
DG263L	L	2021 – Nutrien / DynaGro	A mid-season, long-grain variety with excellent yield potential and good milling yield; stands well; limited disease data in AR, susceptible to sheath blight, moderately susceptible to blast.
Diamond	L	2016 – Arkansas	A mid-season, long-grain variety with excellent yield potential and good milling yield; stands well; very susceptible to false smut; susceptible to sheath blight, blast, and kernel smut.
Jewel	L	2020 – Arkansas	A mid-season, long-grain variety with good yield potential and milling yield; stands well; susceptible to straighthead, otherwise broad disease package.
Jupiter	M	2006 – Louisiana	A mid-season, semi-dwarf, medium-grain variety with excellent yield potential and milling quality; small grain size; risk of lodging; susceptible to sheath blight and blast; moderately resistant to bacterial panicle blight.

General Rice Cultivar Characteristics (cont.)

University of Arkansas System Division of Agriculture

Cultivar	Grain Type	Year Released & Source	Highlights
Lynx	M	2020 – Arkansas	A mid-season, short stature, medium grain variety with excellent yield potential and good milling yield; has a preferred large grain size; risk of lodging; susceptible to sheath blight and bacterial panicle blight.
ProGold1	L	2021 – Progeny	A mid-season, standard stature, long-grain variety with excellent yield potential and good milling yield; stands well; susceptible to sheath blight, bacterial panicle blight, and false smut.
ProGold2	L	2021 - Progeny	A mid-season, standard stature, long-grain variety with good yield potential and milling yield; stands well; susceptible to bacterial panicle blight; otherwise broad disease package.
PVL02	L	2019 – BASF, Horizon Ag	A mid-season, long-grain variety with fair yield potential and excellent milling yield; tolerant to Provisia herbicide; risk of lodging; very susceptible to lodging; susceptible to sheath blight, blast, bacterial panicle blight, Cercospora, and false smut.
PVL03	L	2021 – BASF, Horizon Ag	A mid-season, long-grain variety with good yield potential and good milling yield; tolerant to Provisia herbicide; stands well; limited disease data in AR, susceptible to sheath blight and straighthead.
RT 7301	L	2019 – RiceTec, Inc.	A 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.	A short season, long-grain FullPage hybrid with excellent yield potential; fair milling quality; high tolerance to Preface herbicide; stands well; susceptible to kernel smut, otherwise broad disease package.
RT 7401	L	2020 – RiceTec, Inc.	A mid-season, long-grain hybrid with excellent yield potential and good milling yield; stands well; limited disease data in AR but appears to have broad disease package.
RT 7501	L	2019 – RiceTec, Inc.	A mid-season, long-grain hybrid with excellent yield potential and good milling yield; stands well; susceptible to sheath blight, kernel smut, and false smut.
RT 7521 FP	L	2018 – RiceTec, Inc.	A mid-season, long-grain FullPage hybrid with excellent yield potential and good milling yield; high tolerance to Preface herbicide; risk of lodging; very susceptible to false smut; susceptible to sheath blight.
RT XP753	L	2011 – RiceTec, Inc.	A short season, long-grain hybrid with excellent yield potential and good milling yield; stands well; susceptible to false smut, otherwise broad disease package.
Titan	M	2016 – Arkansas	A short season, medium-grain variety with excellent yield potential and good milling yield; has a preferred large grain size; 5-7 days earlier maturing than Jupiter; stands well; susceptible to sheath blight; otherwise broad disease package.

Arkansas Rice Cultivar Reactions to 2021 Diseases and Lodging

University of Arkansas System Division of Agriculture

Cultivar	Sheath Blight	Blast	Straight head	Bacterial Panicle Blight	Cercospora	Kernel Smut	False Smut	Lodging	Black Sheath Rot	Sheath Spot
ARoma 17	MS	MS	S	MS	--	S	S	MR	--	S
CL151	S	VS	VS	VS	S	S	S	S	S	MS
CLL15	S	MS	MS	S	S	S	S	MR	--	MS
CLL16	S	MS	--	S	MR	--	MS	MS	--	--
CLL17*	S	MS	--	--	--	--	--	S	--	--
CLM04	MS	S	MS	S	MS	--	S	S	--	--
DG263L*	S	MS	--	--	S	--	S	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	--
LaKast	MS	S	MS	MS	MS	S	S	MS	MS	S
Lynx	S	MS	MS	S	MR	--	MS	S	--	--
ProGold1	S	MS	MS	S	MS	--	S	MS	--	--
ProGold2	MS	MS	MS	S	MS	--	MS	MS	--	--
PVL02	S	S	--	S	S	--	S	VS	--	--
PVL03	S	--	S	--	S	MS	MS	MR	--	--
RT 7301	MS	MR	R	MR	MS	--	MS	MS	--	--
RT 7321 FP	MS	R	MR	--	MS	S	MS	MS	--	--
RT 7401*	MS	MR	--	--	--	--	MS	MS	MS	--
RT 7501	S	MR	MS	--	MS	S	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	--
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.