



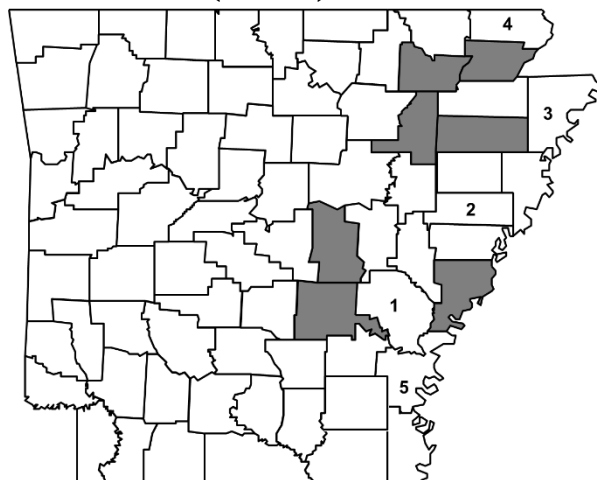
Arkansas Rice Cultivar Testing, 2018-2020

Cultivar performance data included in this publication are from the Arkansas Rice Performance Trials (ARPT), Commercial Rice Trials (CRT) in grower fields, and from seeding date studies conducted during 2018-2020. These studies are supported through grower check-off funds administered by the Arkansas Rice Research and Promotion Board. Additional information can be found on the Extension rice website (<http://www.uaex.edu/rice>) and in the annual B.R. Wells Rice Research Series publication (<http://arkansas-ag-news.uark.edu/research-series.aspx>).

The current reported state average yield for 2019 is **166.7 bu/A** as reported by the USDA Crop Reporting Service (<https://downloads.usda.library.cornell.edu/usda-esmis/files/tm70mv177/1j92h0351/hm50vh540/crop1120.pdf>).

These studies are conducted each year to compare promising experimental lines and newly released cultivars from the breeding programs in Arkansas, Louisiana, Mississippi, Missouri, and Texas with established cultivars currently grown in Arkansas.

Locations of the ARPT (numbered 1-5) and CRT sites (shaded) for 2020.



ADDITIONAL INFORMATION SOURCES

University of Arkansas Cooperative

Extension Service <http://www.uaex.edu/rice>

- Rice Information Sheet No. 175
- Rice Information Sheet No. 176
- Rice Information Sheet No. 177
- Rice Information Sheet No. 178
- Rice Information Sheet No. 179

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Arkansas Rice Performance Trials (ARPT)

2018-2020 Summary – All Locations

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	Straw Strength ²	50% Heading ³	Plant Height	Test Weight	Milled Kernel Wt ⁴	Chalky Kernels ⁴	Milling Yield by Year				Grain Yield by Year			
		Rating	Days	in.	lbs/bu	mg	%	2018	2019	2020	Mean	2018	2019	2020	Mean
								% Head Rice - % Total Rice				Bushels / Acre			
CLL15	L	1.0	83	32	40.7	21.1	1.34	56-70	59-69	62-70	59-70	192	206	200	199
CLL16	L	1.1	85	37	40.1	22.2	1.91	50-69	55-68	60-70	55-70	207	205	200	204
CLM04	M	1.2	85	37	39.9	21.5	2.48	51-69	62-69	68-71	60-71	205	208	189	201
DG263L	L	1.3	80	34	40.9	19.8	3.02	--	58-68	61-71	59-71	--	239	233	236
Diamond	L	1.0	83	36	40.5	21.3	1.91	52-69	58-70	61-71	57-71	206	204	206	205
Jewel	L	1.0	84	37	40.4	19.8	1.82	57-70	61-71	62-70	60-70	186	184	186	185
Jupiter	M	1.0	85	34	39.4	21.6	2.23	53-69	63-68	67-71	61-71	199	218	193	204
Lynx	M	1.3	84	35	40.4	23.7	2.20	49-69	59-69	68-73	59-73	205	215	203	208
ProGold1	L	1.0	85	35	40.4	21.7	2.77	54-69	56-70	63-72	58-72	201	206	200	202
ProGold2	L	1.0	85	36	40.5	20.7	1.42	49-70	54-71	59-69	54-69	183	183	198	188
PVL02	L	1.6	81	35	41.3	18.2	2.55	--	65-72	64-71	65-71	--	180	160	170
RT 7301	L	1.1	81	37	41.7	21.0	2.77	--	57-71	60-72	58-72	--	243	231	237
RT 7321 FP	L	1.2	78	39	41.4	22.3	2.24	48-70	55-71	59-72	54-72	214	237	228	226
RT 7501	L	1.2	82	36	40.7	21.1	1.17	52-70	58-70	63-73	58-73	235	240	230	235
RT 7521 FP	L	1.7	81	38	41.0	21.2	2.83	54-69	58-70	61-71	57-71	220	240	212	224
RT 7801	L	1.4	84	38	40.1	22.5	1.26	49-69	--	61-72	55-72	237	--	222	229
RT XP753	L	1.0	80	37	41.3	21.5	1.76	49-71	56-71	61-72	55-72	229	242	241	237
Titan	L	1.0	78	33	40.5	22.8	1.70	46-70	59-69	66-72	57-72	192	218	201	204
CLX8-1101	L	1.0	84	34	40.7	21.6	1.59	57-70	61-71	64-70	61-70	198	199	207	201
CLX8-1169	L	1.0	83	35	40.5	22.6	1.62	55-69	61-70	63-70	60-70	188	201	199	196
DGL044	L	1.1	86	34	39.3	18.6	1.77	--	61-70	63-70	62-70	--	206	205	206
Mean	--	1.2	83	36	40.6	21.3	2.02	52-69	59-70	63-71	58-70	206	214	207	209

¹ Grain Length: L=long grain, M=medium grain, LA=long grain aromatic; ² Relative straw strength based on field tests using scale: 1=very strong straw, 5=very weak straw; based on percent lodging; ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot; ⁴ Data from Riceland Grain Quality Lab, 2017-2019.

Arkansas Rice Performance Trials (ARPT)

Clay County 2018-2020 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	2018	2019	2020	Mean	2018	2019	2020	Mean
						% Head Rice - % Total Rice				Bushels / Acre			
CLL15	L	1.0	85	30	42.3	51-72	64-71	61-70	59-71	212	224	218	218
CLL16	L	1.0	87	35	41.7	43-71	60-70	56-69	53-70	224	207	223	218
CLM04	M	1.3	89	36	40.7	37-71	68-71	67-71	58-71	226	214	207	216
DG263L	L	1.0	83	32	42.8	--	60-69	59-71	60-70	--	238	261	250
Diamond	L	1.0	83	35	42.4	48-72	63-72	58-70	56-71	228	226	226	227
Jewel	L	1.0	84	36	42.3	59-72	64-72	61-70	61-71	204	189	216	203
Jupiter	M	1.0	88	33	40.9	40-71	66-70	67-71	58-71	230	200	215	215
Lynx	M	1.7	87	34	41.8	39-72	64-71	67-73	57-72	216	209	232	219
ProGold1	L	1.0	87	33	42.4	50-71	64-71	59-72	58-71	196	222	224	214
ProGold2	L	1.0	85	35	42.3	42-72	62-72	57-70	54-71	199	191	228	206
PVL02	L	1.0	86	35	42.8	--	69-73	63-72	66-73	--	191	188	189
RT 7301	L	1.0	86	35	43.2	--	62-73	54-71	58-72	--	255	246	251
RT 7321 FP	L	2.0	80	38	42.7	33-72	61-73	55-71	50-72	245	256	228	243
RT 7501	L	2.0	82	34	42.3	39-71	62-72	61-74	54-73	244	240	227	237
RT 7521 FP	L	3.3	81	37	42.7	45-72	62-72	57-71	55-72	225	253	175	218
RT 7801	L	3.0	83	35	43.0	32-71	--	55-71	43-71	234		227	231
RT XP753	L	1.0	81	35	42.4	37-73	63-73	58-73	53-73	261	256	252	256
Titan	M	1.0	80	33	42.2	27-71	66-71	64-73	52-72	216	242	233	231
DGL044	L	1.0	90	33	41.0	--	60-70	60-69	60-69	--	188	244	216
Mean	--	1.4	84	34.3	42.2	41-72	63-71	60-71	56-71	224	222	225	224

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



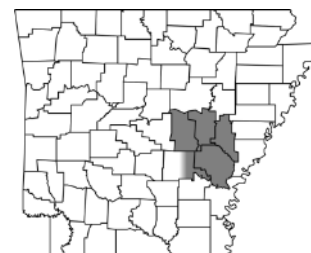
Arkansas Rice Performance Trials (ARPT)

RREC, Arkansas County 2018-2020 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	2018	2019	2020	Mean	2018	2019	2020	Mean
						% Head Rice - % Total Rice				Bushels / Acre			
CLL15	L	1.0	85	31	40.1	62-71	61-69	65-71	63-70	201	214	210	209
CLL16	L	1.0	87	36	39.4	55-67	51-66	62-70	56-68	198	233	182	204
CLM04	M	1.0	86	36	39.8	62-68	64-69	69-71	65-69	196	231	179	202
DG263L	L	2.0	83	33	40.5	--	59-68	60-70	59-69	--	252	215	234
Diamond	L	1.0	84	36	40.1	57-68	55-68	64-71	58-69	204	219	182	202
Jewel	L	1.0	86	37	39.7	58-69	57-70	63-70	60-70	183	220	153	185
Jupiter	M	1.0	86	34	39.1	61-68	63-68	68-70	64-69	207	246	165	206
Lynx	M	1.0	85	34	39.5	61-69	63-69	69-72	64-70	218	237	192	216
ProGold1	L	1.0	87	35	39.6	60-68	56-67	68-73	61-70	204	225	162	197
ProGold2	L	1.0	86	35	40.0	60-70	56-70	61-69	59-69	182	215	172	189
PVL02	L	1.0	83	35	42.3	--	66-72	65-71	65-71	--	179	179	179
RT 7301	L	1.5	82	37	41.8	--	60-71	64-72	62-72	--	274	205	240
RT 7321 FP	L	1.0	82	39	40.6	60-69	55-70	61-71	59-70	217	248	216	227
RT 7501	L	1.0	84	36	39.9	61-70	60-70	65-73	62-71	259	274	210	248
RT 7521 FP	L	1.0	85	38	40.2	60-68	57-69	64-72	60-70	230	256	202	229
RT 7801	L	1.0	89	40	37.5	57-69	--	64-71	60-70	231	--	193	212
RT XP753	L	1.0	83	37	40.6	62-71	60-71	64-73	62-72	252	265	217	245
Titan	M	1.0	81	32	39.8	64-70	62-69	68-72	65-70	208	226	182	205
DGL044	L	1.0	89	34	39.3	--	61-70	65-70	63-70	--	254	172	213
Mean	--	1.1	85	35	40.0	60-69	59-69	65-71	61-70	213	237	189	213

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



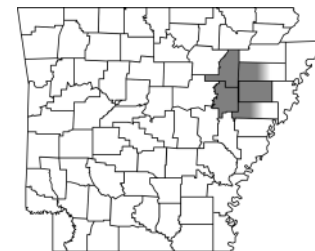
Arkansas Rice Performance Trials (ARPT)

PTRS, St. Francis County 2018-2020 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	2018	2019	2020	Mean	2018	2019	2020	Mean
						% Head Rice - % Total Rice				Bushels / Acre			
CLL15	L	1.0	81	32	40.6	56-70	48-69	62-69	55-69	194	185	187	189
CLL16	L	1.0	83	36	39.8	51-69	54-69	62-72	55-70	214	193	187	198
CLM04	M	1.0	81	36	39.6	57-69	51-69	69-73	59-70	209	181	188	193
DG263L	L	1.0	77	32	40.4	--	53-68	62-71	57-69	--	209	215	212
Diamond	L	1.0	81	35	39.9	51-69	52-70	60-71	54-70	195	179	171	181
Jewel	L	1.0	82	37	40.1	57-70	61-72	62-70	60-71	183	156	159	166
Jupiter	M	1.0	82	32	39.0	54-68	61-67	68-72	61-69	177	198	177	184
Lynx	M	1.0	80	35	40.6	51-69	47-69	69-76	56-71	218	185	200	201
ProGold1	L	1.0	82	34	39.9	52-69	40-69	60-72	51-70	204	179	179	187
ProGold2	L	1.0	83	35	39.5	48-70	35-70	55-69	46-69	186	148	164	166
PVL02	L	2.0	79	35	40.6	--	59-72	65-71	62-71	--	164	154	159
RT 7301	L	1.0	78	35	41.0	--	40-70	56-73	48-71	--	197	216	207
RT 7321 FP	L	1.0	75	38	41.2	49-70	42-70	58-71	49-70	223	206	219	216
RT 7501	L	1.0	79	35	40.3	54-69	47-68	63-72	55-70	229	197	222	216
RT 7521 FP	L	1.0	78	38	41.1	56-69	50-70	61-71	56-70	228	216	225	223
RT 7801	L	1.0	86	38	39.5	50-68	--	61-72	55-70	228	--	197	212
RT XP753	L	1.0	76	36	41.2	51-70	40-70	59-72	50-71	232	201	224	219
Titan	M	1.0	75	33	39.9	47-69	43-68	65-72	51-70	201	187	195	194
DGL044	L	1.0	83	32	38.1	--	62-70	63-70	63-70	--	203	183	193
Mean	--	1.1	80	35	40.1	52-69	49-69	62-71	55-70	208	188	193	196

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



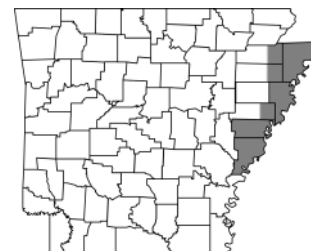
Arkansas Rice Performance Trials (ARPT)

NEREC, Mississippi County 2018-2020 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	2018	2019	2020	Mean	2018	2019	2020	Mean
						% Head Rice - % Total Rice				Bushels / Acre			
CLL15	L	1.0	85	32	39.8	50-67	63-69	63-70	59-68	157	200	196	184
CLL16	L	1.0	87	38	39.4	44-67	55-66	60-69	53-68	189	187	214	197
CLM04	M	1.0	84	37	39.3	42-67	64-67	67-71	58-68	180	208	217	202
DG263L	L	1.0	78	33	39.4	--	59-66	60-72	60-69	--	255	251	253
Diamond	L	1.0	85	36	39.8	50-68	62-69	63-71	58-69	189	193	221	201
Jewel	L	1.0	85	37	39.6	53-68	60-68	62-69	58-68	157	171	206	178
Jupiter	M	1.0	84	35	38.6	52-66	62-65	67-71	61-68	191	230	212	211
Lynx	M	1.0	84	35	40.1	33-67	63-66	68-72	54-69	169	229	227	208
ProGold1	L	1.0	87	35	39.6	50-68	65-70	65-73	60-71	198	197	222	205
ProGold2	L	1.0	86	35	40.2	38-69	64-71	58-65	53-68	154	179	205	180
PVL02	L	1.0	80	36	39.7	--	68-72	63-70	66-71	--	184	184	184
RT 7301	L	1.0	80	37	40.1	--	64-71	60-71	62-71	--	245	240	243
RT 7321 FP	L	1.0	77	39	41.3	40-68	62-71	60-72	54-70	170	237	240	216
RT 7501	L	1.0	83	37	40.1	46-66	63-70	62-73	57-70	212	247	246	235
RT 7521 FP	L	2.3	83	38	40.6	50-66	61-69	59-70	57-68	201	233	222	219
RT 7801	L	1.0	84	38	40.4	48-68	--	62-72	55-70	230	--	243	237
RT XP753	L	1.0	80	37	41.0	36-69	62-72	60-71	53-70	165	245	261	223
Titan	M	1.0	75	34	40.3	33-68	67-69	68-72	56-70	160	218	205	194
DGL044	L	1.0	85	33	38.0	--	61-69	62-69	61-69	--	180	224	202
Mean	--	1.1	83	36	39.8	44-67	63-69	63-71	58-69	182	213	223	209

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



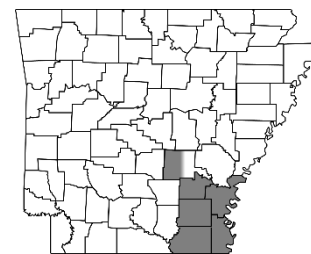
Arkansas Rice Performance Trials (ARPT)

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	2019	2020	Mean	2018	2019	2020	Mean
						% Head Rice - % Total Rice				Bushels / Acre			
CLL15	L	1.0	79	36	40.9	61-71	--	61-68	61-70	194	--	189	192
CLL16	L	2.0	83	40	40.1	59-71	--	58-70	59-71	207	--	193	200
CLM04	M	2.0	82	40	39.9	58-70	--	68-71	63-70	211	--	154	183
DG263L	L	1.0	74	42	42.4	--	--	63-71	63-71	--	--	223	223
Diamond	L	1.0	79	38	40.4	57-70	--	60-70	58-70	213	--	227	220
Jewel	L	1.0	84	39	40.7	59-71	--	61-71	60-71	202	--	194	198
Jupiter	M	1.0	84	38	39.5	58-70	--	67-71	63-70	192	--	196	194
Lynx	M	2.2	82	38	40.9	49-69	--	66-71	57-70	205	--	165	185
ProGold1	L	1.0	84	38	40.8	58-69	--	62-71	60-70	201	--	213	207
ProGold2	L	1.0	83	38	41.1	49-70	--	63-72	56-71	183	--	220	202
PVL02	L	5.0	74	38	41.6	--	--	65-72	65-72	--	--	97	97
RT 7301	L	1.0	73	45	43.7	--	--	64-73	64-73	--	--	247	247
RT 7321 FP	L	1.0	78	42	41.5	57-71	--	61-72	59-72	218	--	237	227
RT 7501	L	1.0	78	39	41.0	61-71	--	65-73	63-72	230	--	248	239
RT 7521 FP	L	1.0	76	40	40.8	60-70	--	63-72	61-71	216	--	238	227
RT 7801	L	1.0	81	42	40.4	59-71	--	64-72	62-72	259	--	248	254
RT XP753	L	1.0	77	41	41.4	60-72	--	64-74	62-73	234	--	251	243
Titan	M	1.0	78	35	40.4	60-70	--	67-71	63-70	177	--	190	183
DGL044	L	2.0	79	42	41.3	--	--	64-71	64-71	--	--	200	200
Mean	--	1.4	79	40	41.0	58-71	--	63-71	61-71	210	--	207	206

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



Arkansas Rice Performance Trials (ARPT)

2020 Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	Straw Strength ²	50% Heading ³	Plant Height	Test Weight	Milling Yield ⁴	Grain Yield by Location and Planting Date					
		Rating	Days	in.	lbs/bu	%HR-%TR	CLAY April 9	DESHA May 4	NEREC May 21	PTRS April 21	RREC April 10	MEAN
		Bushels / Acre										
CLL15	L	1.0	81	32	41.8	62-70	218	189	196	187	210	200
CLL16	L	1.4	83	38	40.9	60-70	223	193	214	187	182	200
CLL17	L	1.4	80	35	42.2	62-69	220	168	210	184	193	195
CLM04	M	1.4	83	37	40.7	68-71	207	154	217	188	179	189
DG263L	L	1.0	77	34	41.9	61-71	261	223	251	215	215	233
Diamond	L	1.0	81	36	41.3	61-71	226	227	221	171	182	206
Jewel	L	1.0	83	38	41.3	62-70	216	194	206	159	153	186
Jupiter	M	1.0	84	35	39.9	67-71	215	196	212	177	165	193
Lynx	M	1.4	82	36	41.4	68-73	232	165	227	200	192	203
ProGold1	L	1.0	83	36	41.3	63-72	224	213	222	179	162	200
ProGold2	L	1.0	83	36	41.5	59-69	228	220	205	164	172	198
PVL02	L	2.2	79	37	42.2	64-71	188	97	184	154	179	160
RTv7231 MA	L	1.0	76	36	42.4	60-71	211	218	217	213	225	217
RT 7301	L	1.0	79	38	42.6	60-72	246	247	240	216	205	231
RT 7321 FP	L	1.0	77	41	42.9	59-72	228	237	240	219	216	228
RT 7401	L	1.0	79	37	41.9	62-72	245	251	242	232	221	238
RT 7501	L	1.4	80	37	41.7	63-73	227	248	246	222	210	230
RT 7521 FP	L	2.6	79	39	42.1	61-71	175	238	222	225	202	212
RT 7801	L	1.0	84	39	40.7	61-72	227	248	243	197	193	222
RT XP753	L	1.0	78	39	42.6	61-72	252	251	261	224	217	241
Titan	M	1.0	77	34	41.7	66-72	233	190	205	195	182	201
ARX7-1127	M	1.0	83	34	40.4	67-71	207	188	219	172	161	189
CLX8-1101	L	1.0	83	35	41.8	64-70	226	193	201	198	217	207
CLX8-1169	L	1.0	82	36	41.4	63-70	221	203	201	188	183	199
DGL044	L	1.2	84	34	40.0	63-70	244	200	224	183	172	205
DGL2065	L	1.0	81	34	42.0	65-71	214	201	198	184	180	195
Mean	--	1.2	81	36	41.6	63-71	223	206	220	194	192	207

¹ Grain Length: L=long grain, M=medium grain, LA=long grain aromatic; ² Relative straw strength based on field tests using the scale: 1=very strong straw, 5=very weak straw; based on percent lodging; ³ Number of days from plant emergence until 50% of the panicles are visibly emerging from the boot; ⁴ %HR = head rice; %TR = total milled rice.

Commercial Rice Trial (CRT) On-Farm Studies

2020 Grain Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	County Location / Planting Date / Soil Type							
		Greene	Jackson	Jefferson	Lawrence	Lonoke	Phillips	Poinsett	MEAN
		April 10	May 11	May 11	May 7	May 4	May 5	April 22	
		Jackport Silty Clay Loam	Amagon & Forestdale Silt Loam	McGehee Silt Loam / Perry Clay	Dubbs Silt Loam	Portland Silty Clay	Arkabutla Silty Clay Loam	Henry-Hillemann Silt Loam	
		Grain Yield (Bushels / Acre)							
CLL15	L	152	206	207	225	200	173	198	194
CLL16	L	174	238	223	223	202	200	215	211
CLL17	L	137	198	182	186	166	160	192	174
CLM04	M	156	243	193	212	211	147	216	197
DG263L	L	184	234	241	257	239	168	255	225
Diamond	L	145	219	235	216	199	208	188	201
Jewel	L	149	217	200	199	176	208	197	192
Jupiter	M	160	230	198	216	194	171	218	198
Lynx	M	157	246	219	220	219	132	225	203
ProGold1	L	129	238	213	214	202	201	188	198
ProGold2	L	144	219	207	206	196	210	201	198
PVL02	L	120	186	162	147	120	142	149	146
RTv7231 MA	L	145	201	228	225	185	201	206	199
RT 7301	L	152	243	234	269	228	226	237	227
RT 7321 FP	L	137	249	247	260	186	212	256	221
RT 7401	L	157	288	240	255	226	213	260	234
RT 7501	L	164	295	258	276	230	233	264	246
RT 7521 FP	L	136	262	258	236	213	202	248	222
RT 7801	L	153	287	240	239	219	217	244	229
RT XP753	L	128	261	252	267	239	237	251	234
Titan	M	159	212	198	225	189	209	217	201
ARX7-1127	M	163	240	197	224	168	179	213	198
CLX8-1101	L	139	212	201	195	201	202	203	193
CLX8-1169	L	133	210	196	193	207	177	209	189
DGL044	L	179	234	219	232	219	190	214	212
DGL2065	L	82	216	215	210	196	201	159	183
Mean	--	147	234	218	224	201	193	216	205

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

Commercial Rice Trial (CRT) On-Farm Studies

2020 Milling Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	County Location / Planting Date / Soil Type							
		Greene	Jackson	Jefferson	Lawrence	Lonoke	Phillips	Poinsett	MEAN
		April 10	May 11	May 11	May 7	May 4	May 5	April 22	
		Jackport Silty Clay Loam	Amagon & Forestdale Silt Loam	McGehee Silt Loam / Perry Clay	Dubbs Silt Loam	Portland Silty Clay	Arkabutla Silty Clay Loam	Henry-Hillemann Silt Loam	
		Milling Yield (%Head Rice - %Total Rice)							
CLL15	L	59-70	66-71	64-70	62-68	59-70	58-65	65-71	62-69
CLL16	L	57-70	63-71	63-70	63-70	54-69	57-66	61-71	59-70
CLL17	L	60-69	65-70	64-69	60-66	62-70	57-63	64-71	62-68
CLM04	M	60-71	68-71	68-71	64-69	66-70	61-68	68-71	65-70
DG263L	L	62-69	64-69	63-69	59-67	59-68	55-67	63-71	61-69
Diamond	L	59-71	66-72	62-71	59-67	56-70	59-67	63-71	60-70
Jewel	L	64-72	66-72	65-72	65-71	57-71	63-69	65-72	64-71
Jupiter	M	63-70	67-70	67-70	64-68	66-69	65-69	66-69	65-69
Lynx	M	53-70	68-72	67-71	61-67	65-70	56-67	67-71	62-70
ProGold1	L	58-71	65-72	65-72	64-70	56-71	62-69	64-71	62-71
ProGold2	L	56-71	64-72	63-72	61-70	49-70	61-69	64-72	60-71
PVL02	L	56-70	68-72	66-71	63-70	63-72	61-68	66-72	63-71
RTv7231MA	L	50-68	65-71	62-70	60-69	47-66	58-68	63-71	58-69
RT 7301	L	49-71	63-72	61-72	60-70	53-70	61-71	63-73	59-71
RT 7321 FP	L	49-70	61-72	61-71	61-71	49-69	60-71	62-73	58-71
RT 7401	L	54-70	64-72	63-71	61-69	57-70	61-69	64-73	61-71
RT 7501	L	58-71	66-72	64-72	63-71	56-70	62-69	65-72	62-71
RT 7521 FP	L	60-70	65-72	62-71	59-68	58-70	60-69	63-72	61-70
RT 7801	L	56-69	64-71	63-71	64-70	56-69	60-69	61-71	60-70
RT XP753	L	56-71	64-73	62-72	62-71	53-70	63-71	64-73	61-72
Titan	M	49-69	68-72	67-71	64-69	62-70	63-69	69-72	63-70
ARX7-1127	M	63-70	68-70	68-70	64-68	65-69	63-69	67-70	65-69
CLX8-1101	L	59-70	66-71	65-71	63-69	60-70	61-68	65-72	63-70
CLX8-1169	L	59-70	66-72	65-71	61-68	60-70	63-69	64-72	63-70
DGL044	L	64-71	64-71	66-72	61-68	63-71	61-68	63-71	63-70
DGL2065	L	65-72	67-72	67-72	63-69	64-72	63-69	65-72	65-71
Mean	--	58-70	65-71	64-71	62-69	58-70	60-68	64-72	62-70

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

DD50 Planting Date Trials

RREC, Arkansas County – 2020 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 27	Apr 6	Apr 21	May 6	May 19	Jun 2	Mean	Mar 27	Apr 6	Apr 21	May 6	May 19	Jun 2	Mean
ARoma 17	LA	156	151	188	166	148	131	157	65-71	66-71	64-71	63-70	60-69	60-68	63-70
CLL15	L	219	202	229	207	173	123	192	62-69	59-68	61-69	59-68	58-66	48-59	58-67
CLL16	L	206	202	224	219	199	161	202	60-69	59-68	57-68	57-68	54-66	59-67	58-68
CLL17	L	212	200	191	205	163	139	185	62-68	63-69	60-68	60-68	58-66	53-62	59-67
CLM04	M	196	193	212	208	190	158	193	65-68	65-68	64-69	62-67	63-67	62-66	64-67
DG263L	L	237	256	266	253	232	196	240	57-67	57-66	59-68	58-67	58-67	55-64	57-66
Diamond	L	221	185	232	221	192	158	202	61-71	58-69	58-69	56-69	55-66	61-68	58-69
Jewel	L	193	182	216	206	180	146	187	61-71	61-70	60-70	57-69	59-69	62-68	60-70
Jupiter	M	194	163	213	193	190	165	186	64-67	63-67	64-68	63-67	62-66	61-65	63-67
Lynx	M	212	193	192	211	204	166	197	62-67	62-67	62-68	59-67	62-67	58-63	61-67
ProGold1	L	192	183	232	219	198	165	198	63-71	62-70	59-69	56-68	58-68	65-70	61-69
ProGold2	L	206	193	225	207	179	154	194	62-71	57-70	58-70	52-69	57-69	61-68	58-70
PVL02	L	182	160	131	192	143	138	158	66-72	66-72	63-72	63-71	60-70	60-68	63-71
RT 7301	L	244	217	255	245	210	198	228	62-71	58-70	61-71	55-70	61-70	60-69	59-70
RT 7321 FP	L	237	230	258	248	217	194	230	57-70	52-69	57-70	57-70	61-69	58-66	57-69
RT 7401	L	246	230	272	269	241	200	243	60-70	59-71	59-70	58-70	59-69	61-68	59-70
RT 7501	L	245	228	277	269	246	217	247	62-71	61-70	60-70	58-70	60-70	63-70	61-70
RT 7521 FP	L	244	234	241	248	208	174	225	60-70	62-71	60-70	59-69	59-69	61-68	60-69
RT 7801	L	226	209	262	252	245	195	232	60-69	62-70	58-69	57-69	59-69	59-67	59-69
RT XP753	L	251	225	273	254	232	194	238	59-71	56-70	60-71	57-70	60-70	60-69	59-70
Titan	M	218	188	223	185	156	155	188	66-69	60-69	64-69	63-69	62-68	61-66	63-68
Mean	--	216	202	231	223	197	168	206	62-70	60-69	60-69	59-68	59-68	59-67	60-69

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 – 2020 Grain & Milling Yield Summary

University of Arkansas System Division of Agriculture

Cultivar	Grain Length ¹	Grain Yields (Bushels/Acre)					Milling Yield (%HR-%TR) ²				
		Apr 21	May 6	May 21	Jun 3	Mean	Apr 2	Apr 24	May 8	May 28	Mean
ARoma 17	LA	175	179	153	139	162	67-71	66-71	64-70	61-68	65-70
CLL15	L	204	195	172	164	184	63-70	63-69	59-68	59-66	61-68
CLL16	L	201	210	171	160	186	61-69	59-68	59-69	57-67	59-68
CLL17	L	213	205	168	164	188	63-69	62-68	59-67	58-66	60-68
CLM04	M	212	216	151	146	181	66-69	66-69	63-68	62-66	64-68
DG263L	L	250	255	210	193	227	59-68	60-69	52-65	51-63	55-66
Diamond	L	174	210	155	156	174	58-69	62-70	61-70	61-69	61-69
Jewel	L	181	189	153	146	167	62-70	64-71	63-71	62-69	63-70
Jupiter	M	208	194	179	145	181	66-68	65-68	62-67	61-65	63-67
Lynx	M	230	221	179	149	195	63-70	64-69	61-68	61-66	62-68
ProGold1	L	203	207	162	157	182	60-70	64-70	63-71	61-69	62-70
ProGold2	L	174	188	155	139	164	56-70	62-71	62-71	61-69	60-70
PVL02	L	181	183	138	122	156	65-72	66-72	61-70	60-69	63-71
RT 7301	L	222	241	184	168	204	53-70	59-71	57-70	59-69	57-70
RT 7321 FP	L	234	250	167	170	205	57-70	58-71	55-69	54-68	56-69
RT 7401	L	243	265	216	197	231	60-70	61-71	60-70	60-69	61-70
RT 7501	L	236	246	204	190	219	60-70	62-71	59-70	59-68	60-70
RT 7521 FP	L	247	247	198	179	218	59-70	62-70	59-69	59-68	60-69
RT 7801	L	227	231	188	168	203	58-69	60-70	59-69	56-67	58-69
RT XP753	L	230	250	183	172	209	57-71	60-72	56-70	58-68	58-70
Titan	M	213	210	178	156	189	63-70	64-70	64-69	63-68	63-69
Mean	--	212	219	175	161	192	61-70	62-70	60-69	59-67	61-69

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; susceptible to kernel smut, false smut and straighthead; moderately susceptible to sheath blight, blast, and bacterial panicle blight; and moderately resistant to lodging.
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; very susceptible to sheath blight and bacterial panicle blight; susceptible to straighthead, Cercospora, kernel smut, and false smut; and moderately susceptible to blast and lodging.
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; very susceptible to blast, straighthead, and bacterial panicle blight; and susceptible to sheath blight, Cercospora, kernel smut, false smut, and lodging.
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; susceptible to sheath blight, Cercospora, kernel smut, and false smut; moderately susceptible to blast, straighthead, and bacterial panicle blight; and moderately resistant to lodging.
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; susceptible to sheath blight, bacterial panicle blight, Cercospora, kernel smut, and false smut; moderately susceptible to blast and straighthead; and moderately resistant to lodging.
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; susceptible to sheath blight and bacterial panicle blight; moderately susceptible to blast, false smut, and lodging, and moderately resistant to Cercospora.
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; susceptible to sheath blight and lodging; and moderately susceptible to blast. Only one year of testing in Arkansas.
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; susceptible to blast, bacterial panicle blight, false smut, and lodging; moderately susceptible to sheath blight, straighthead, and Cercospora.

General Rice Cultivar Characteristics (cont.)

University of Arkansas System Division of Agriculture

Cultivar	Grain Type	Year Released & Source	Highlights
Della-2	LA	2012 – Louisiana	A short season, semi-dwarf long-grain aromatic variety with good yield potential; very good grain quality; improved lodging compared to Della; very susceptible to straighthead; susceptible to sheath blight; moderately susceptible to bacterial panicle blight and Cercospora; resistant to blast.
DG263L	L	2021 – Nutrien / DynaGro	A mid-season, long-grain variety with excellent yield potential and good milling yield; susceptible to sheath blight, Cercospora, and false smut; moderately susceptible to blast and lodging.
Diamond	L	2016 – Arkansas	A mid-season, long-grain variety with excellent yield potential and good milling yield; very susceptible to false smut; susceptible to sheath blight, blast, and kernel smut; moderately susceptible to straighthead, bacterial panicle blight, Cercospora, and lodging.
Jazzman-2	LA	2011 – Louisiana	A mid-season, Jasmine-type aromatic variety with fair yield potential; good milling compared to Jazzman; very susceptible to bacterial panicle blight; susceptible to sheath blight, straighthead, Cercospora, kernel smut, and false smut; moderately susceptible to blast and lodging.
Jewel	L	2020 – Arkansas	A mid-season, long-grain variety with good yield potential and milling yield; susceptible to straighthead; moderately susceptible to sheath blight, blast, Cercospora, false smut, and lodging; moderately resistant to bacterial panicle blight.
Jupiter	M	2006 – Louisiana	A mid-season, semi-dwarf, medium-grain variety with excellent yield potential and milling quality; small grain size; susceptible to sheath blight, blast, Cercospora, and lodging; moderately susceptible to straighthead, kernel smut, and false smut; and moderately resistant to bacterial panicle blight.
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; susceptible to sheath blight, bacterial panicle blight, and lodging; moderately susceptible to blast, straighthead, and false smut; moderately resistant to Cercospora.
ProGold1	L	2021 – Progeny	A mid-season, standard stature, long-grain variety with excellent yield potential and good milling yield; susceptible to sheath blight, bacterial panicle blight, and false smut; moderately susceptible to blast, straighthead, narrow brown leaf spot, and lodging.
ProGold2	L	2021 - Progeny	A mid-season, standard stature, long-grain variety with good yield potential and milling yield; susceptible to bacterial panicle blight; moderately susceptible to sheath blight, blast, straighthead, Cercospora, false smut, and lodging.
PVL02	L	2019 – BASF, Horizon Ag	A mid-season, long-grain variety with fair yield potential and excellent milling yield; tolerant to Provisia herbicide; very susceptible to lodging; susceptible to sheath blight, blast, bacterial panicle blight, Cercospora, and false smut.

General Rice Cultivar Characteristics (cont.)

University of Arkansas System Division of Agriculture

Cultivar	Grain Type	Year Released & Source	Highlights
RT 7301	L	2019 – RiceTec, Inc.	A short season, long-grain hybrid with excellent yield potential and good milling yield; moderately susceptible to sheath blight, Cercospora, false smut, and lodging; moderately resistant to blast and bacterial panicle blight; resistant to blast.
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; susceptible to kernel smut; moderately susceptible to sheath blight, Cercospora, false smut, and lodging; moderately resistant to straighthead; resistant to blast.
RT 7401	L	2020 – RiceTec, Inc.	A mid-season, long-grain hybrid with excellent yield potential and good milling yield; moderately susceptible to sheath blight, false smut, and lodging; moderately resistant to blast.
RT 7501	L	2019 – RiceTec, Inc.	A mid-season, long-grain hybrid with excellent yield potential and good milling yield; susceptible to sheath blight, kernel smut, and false smut; moderately susceptible to straighthead, Cercospora, and lodging; moderately resistant to blast.
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; very susceptible to false smut; susceptible to sheath blight and lodging; moderately susceptible to Cercospora and kernel smut; resistant to blast and straighthead.
RT 7801	L	2020 – RiceTec, Inc.	A mid-season, long-grain hybrid with excellent yield potential and good milling yield; very susceptible to false smut; moderately susceptible to sheath blight, Cercospora, kernel smut, and lodging; moderately resistant to blast.
RT XP753	L	2011 – RiceTec, Inc.	A short season, long-grain hybrid with excellent yield potential and good milling yield; susceptible to false smut; moderately susceptible to sheath blight, straighthead, and kernel smut; moderately resistant to bacterial panicle blight, Cercospora, and lodging; resistant to blast.
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; susceptible to sheath blight; moderately susceptible to blast, straighthead, bacterial panicle blight, Cercospora, kernel smut, false smut, and lodging.

Arkansas Rice Cultivar Reactions to 2020 Diseases and Lodging

University of Arkansas System Division of Agriculture

Cultivar	Sheath Blight	Blast	Straight head	Bacteria l Panicle Blight	Cercospora	Kernel Smut	False Smut	Lodging	Black Sheath Rot	Sheath Spot
ARoma 17	MS	MS	S	MS	--	S	S	MR	--	S
CL111	VS	MS	S	VS	S	S	S	MS	S	MS
CL151	S	VS	VS	VS	S	S	S	S	S	MS
CL153	S	MS	MS	MS	S	S	S	MR	00	MS
CLL15	S	MS	MS	S	S	S	S	MR	00	MS
CLL16	S	MS	--	S	MR	--	MS	MS	--	--
CLL17*	S	MS	--	--	--	--	--	S	--	--
CLM04	MS	S	MS	S	MS	--	S	S	--	--
Della-2	S	R	VS	MS	MS	--	--	--	--	--
DG263L*	S	MS	--	--	S	--	S	MS	--	--
Diamond	S	S	MS	MS	MS	S	VS	MS	S	S
Jazzman-2	S	MS	S	VS	S	S	S	MS	--	--
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	--	--
Roy J	MS	S	MS	S	R	VS	S	MR	MS	MS
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 7801	MS	MR	--	--	MS	MS	VS	MS	--	--
RT CLXL745	S	R	R	MR	R	S	S	S	S	--
RT Gemini 214 CL	S	MR	R	--	--	MS	VS	MS	--	MS
RT XP753	MS	R	MS	MR	MR	MS	S	MR	S	--
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.