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MISSISSIPPI RICE

VARIETY TRIALS, 2011



MISSISSIPPI AGRICULTURAL & FORESTRY EXPERIMENT STATION • GEORGE M. HOPPER, INTERIM DIRECTOR

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NOTICE TO USER

This Mississippi Agricultural and Forestry Experiment Station Information Bulletin is a summary of research conducted under project number MIS-1530 at the Delta Research and Extension Center in Stoneville, Mississippi, and several other locations shown on the map on the third page. It is intended for colleagues, cooperators, and sponsors. The interpretation of data presented in this publication may change after additional experimentation. This information is not to be construed either as a recommendation for use or as an endorsement of a specific variety or product by Mississippi State University or the Mississippi Agricultural and Forestry Experiment Station.

This report contains data generated as part of the Mississippi Agricultural and Forestry Experiment Station research program. Joint sponsorship by the Mississippi Rice Promotion Board is gratefully acknowledged.

Trade names of commercial products used in this research project are included only for clarity and understanding. All available names (i.e., trade names, chemical names, experimental product code names or numbers, etc.) of products used in this research project are listed in the tables and footnotes contained in this report.

Mississippi Rice Variety Trials, 2011

Dwight G. Kanter Research Professor

Timothy W. Walker Associate Agronomist

Nathan W. Buehring Extension Rice Specialist

Walter L. Solomon Research Associate II

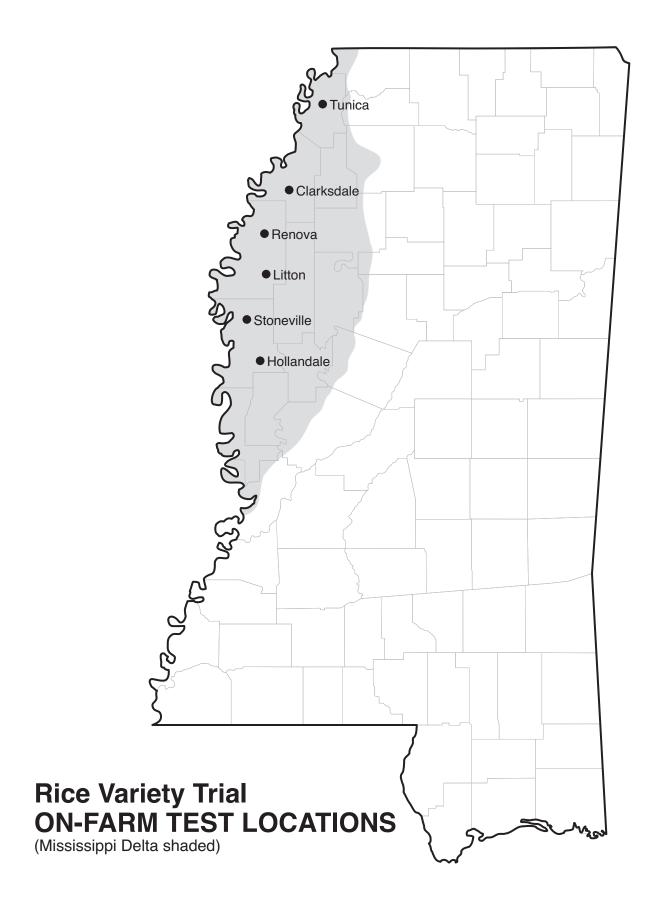
Leland S. Lanford Agricultural Technician

Sanfrid Shaifer Agricultural Technician

Paxton Fitts Research Associate I

Jennifer L. Corbin Research Associate I

We would like to offer our sincere appreciation to the Mississippi Rice Promotion Board for financially supporting these research efforts. We also extend our thanks to the rice growers who provided their land, inputs, and willingness to endure the inconvenience these tests can cause. This report was approved for publication as MAFES Information Bulletin 466 of the Mississippi Agricultural and Forestry Experiment Station, Mississippi State University. It was published by the Office of Agricultural Communications, a unit of the Mississippi State University Division of Agriculture, Forestry, and Veterinary Medicine.



Mississippi Rice Variety Trials, 2011

INTRODUCTION

The USDA projected that 153,000 acres of rice were harvested in the Delta counties of Mississippi in 2011. This represented a 50% decrease in harvested acreage from 2010 and a 36% decrease from the 30-year average. This acreage is slightly below the 162,000 acres harvested in 1983 and slightly above the 145,000 acres harvested in 1976. Two Clearfield® varieties and two Clearfield® hybrids accounted for approximately 70% of the total rice acreage. CLXL745 and CLXL729 were planted on 22% and 16% of the acreage, respectively. CL151 and CL111 were planted on 20% and 12% of the acreage, respectively. Cocodrie continued to be a favorite among conventional varieties and accounted for 18% of the acreage, whereas the conventional hybrid XL723 was planted on 7%. The remaining 5% was planted primarily to CL142-AR, CL162, Cheniere, Rex, and Sabine.

Rice planting began the last week of March and progressed at the 5-year average pace, which meant that 32% had been planted by April 17 and 70% by the end of April. Seedling growth was excellent for most of the spring, and heat unit accumulation allowed rice to progress ahead of the 5-year average. Approximately 33% of the rice planted reached the heading stage before July 15. By the end of July, 80% of the planted acreage had reached the heading stage. Rice harvest began as early as the first week of August and was in full swing by August 15. Harvest weather was warm and dry, thus harvest proceeded at a record pace.

Similar to 2010, the Delta encountered a period of excessive heat during the critical pollination stage for rice that was headed and pollinating the first week of August. The first seven days of August saw daytime temperatures exceed 100°F, and six of the seven nighttime temperatures were 80°F or more. Excessive day and nighttime temperatures during pollination caused sterility and reduced yield potential on a considerable amount of acreage. Specifically, based on variety planting date trials conducted at Stoneville, rice that was heading the last week of July through approximately August 10 was most

susceptible to reduced yields due to sterility-induced blanking. Furthermore, the excessive heat also contributed to lower milling quality on rice that was maturing. Irrigation costs due to the heat and drought conditions were extremely high for most producers. Cash price for rice at harvest continued to be well below CBOT futures, which has applied pressure towards planting intentions for 2012. USDA yield prediction for Mississippi as of October was 7,100 pounds per acre (158 bushels per acre), which is up from 152 bushels per acre harvested in 2010.

The purposes for conducting on-farm rice variety trials are multiple. Advanced experimental lines are evaluated under various production environments, which gives the breeding program necessary information to select lines for release as public varieties. Specific information includes yield and milling performance, insect and disease susceptibility, and lodging. By placing these trials at multiple locations throughout the Delta, rice lines and varieties are exposed to conditions and practices that are common to commercial production that cannot always be reproduced at the experiment station. In addition to providing the breeder and agronomist worthwhile information, growers are provided with side-by-side comparisons of currently available rice varieties and hybrids. This information can be used to guide variety selection in the succeeding year. Variety selection is one of the most important decisions a grower makes in production planning. Growers should attempt to select varieties that offer the best combination of yield and quality, while also considering the variety's susceptibility to yield-limiting factors. Furthermore, the breeder and agronomists use the variety trials as an educational tool for research and extension staff, farmers, private consultants, and industry personnel. Frequently, these trials are used to give interested parties the "first look" at new or potential releases from Mississippi State University and other rice-breeding institutions, as well as private industry.

TEST PROCEDURES

A total of 63 entries including named varieties, hybrids, and experimental lines were planted at six "on-farm" locations. Of these entries, 31 are included in this report. These 31 entries include eight conventional publicly released longgrain varieties, one public conventional medium-grain, three RiceTec conventional hybrids, two Bayer conventional hybrids, four Mississippi advanced breeding lines, seven Clearfield inbred varieties, one Clearfield medium-grain, three RiceTec Clearfield hybrids, and two Clearfield advanced breeding lines. Individual plots consisted of 8 drill rows 15 feet in length and spaced 8 inches apart. Varieties and experimental lines were planted at 90 pounds of seed per acre, and the hybrids were planted at 35 pounds of seed per acre. Seeds were planted approximately 1.25 inches deep into stale seedbeds at all locations. All entries were replicated three times at each location. Four on-farm locations (Renova, Hollandale, Stoneville, and Tunica) received all agricultural inputs based on the whole field. Due to other experiments being conducted in the same field, the Litton and Clarksdale sites received only one application of urea at the rate of 150 pounds of N per acre immediately prior to flood establishment. Herbicide, insecticide, and fungicide applications were made according to the need of the field at all locations. All management applications are included in Tables 1 to 6 [Note: Readers who may be less familiar with pesticide formulations and application rates may wish to refer to pesticide product label information available on the web or to the 2012 Weed Control Guidelines for Mississippi (MSU-ES/MAFES Pub. No. 1532)].

Agronomic data were collected at appropriate times during the growing season. Lodging ratings (percent of plot and severity) were obtained on a plot-by-plot basis. The entire plot was harvested with a small-plot combine equipped with a computerized weigh system and moisture meter. Due to differences in maturity, the majority of the entries at each location had to have achieved appropriate harvest moisture prior to the test being harvested. Average harvest grain moisture for each entry is reported in Tables 1-6. Subsamples of each entry were collected at harvest. Those subsamples were used to conduct milling, bushel weight, and 1,000-seed weight analyses. Replicated research has shown that the border effect for plot grain yields is 10% greater for inbred varieties and 15% greater for hybrids. Plot yields for entries should be compared in a relative manner rather than looking at just reported vield potential alone.

All relevant data were subjected to analysis of variance procedures using SAS statistical software. The least significant difference test at the 5% significance level was used to differentiate between entries. If yield differences of two entries reported in Tables 1–6 are greater than the LSD value reported, the entries are statistically different. In addition, a coefficient of variation (CV) was calculated for each test. This measurement is an indication of the level of precision of each test. Lower CV values indicate greater reliability of the test. The LSD and CV values are reported in the footnotes of Tables 1–6 and 8. Statistical analyses included all 63 entries, although only 31 entries are reported.

RESULTS

The performance of each variety in the six individual test locations is presented in Tables 1-6. On-farm variety trials were planted over a range of about one month (Stoneville planted April 8, and Tunica planted May 11). However, four of the six trials were planted April 13 and April 14. For the most part, stands were sufficient for plant population and uniformity. Growing conditions were excellent. Problems that would sacrifice data quality were minimal. Lodging appeared to be more than what is normally encountered; however, Tropical Storm Lee contributed to lodging at Litton, Clarksdale, and Tunica. Five of the six locations received a fungicide that is efficacious on sheath blight. Furthermore, environmental conditions were not optimum for sheath blight to limit yield potential. With the optimum planting dates, uniformity of rice stands, and minimal yield-limiting problems during the growing season, rice yields were exceptionally high and, averaged across all varieties, varied only slightly across all locations for the reported entries. The range was 219 bushels per acre at Litton to 258 bushels per acre at Renova. The CVs for yield ranged from 5% to 9%, which is very respectable for these types of trials. Milling yields were acceptable for most entries; however, similar to 2010, milling was down compared with 2009. Extreme heat, especially during the nighttime most likely contributed to lower milling compared with 2009. Lodging tended to be greater in 2011 than in recent years. Nitrogen was applied at a minimum of 150 pounds per acre at all locations. Some varieties and hybrids do not require as much N to reach 95% or greater of the maximum yield potential, and thus are subject to lodging when fertilized excessively. Specifically, Bayer hybrids will not require more than 90 to 120 pounds of N to produce optimum yields. CL151 typically will not require more than 135 pounds of N to reach its optimum yield potential. These three entries are highly subject to lodging, especially at N rates that exceed 150 pounds per acre.

Table 7 provides a six-location summary of grain yields for the 31 entries. In addition to yield, a stability value is provided. The smaller the stability value, the greater the chance the variety has for performing similarly with respect to yield across the six locations. Table 8 provides a summary across all locations for yield, milling, and other pertinent information for each entry. The conventional RiceTec hybrids demonstrated a clear yield advantage over conventional varieties (approximately 25%). Additionally, RiceTec's Clearfield hybrids demonstrated a yield advantage over the popular Clearfield varieties (approximately 17%). However, based on information presented earlier regarding the border effect, as well as large plot demonstrations, growers should not expect more than a 10-15% yield advantage when planting hybrids compared with high-yielding inbred varieties. For inbred varieties, CL142-AR and CL111 ranked first and second in grain yield, respectively. Remarkable yield gains have been made in Clearfield inbred varieties as it has just been a few years since growers who planted Clearfield varieties expected to obtain yields that were at least 10% less than conventional varieties.

Rex, released by MAFES in February 2010 and grown for registered seed in 2011 by many Mississippi seed growers, performed exceptionally well in 2011 (averaging 236 bushels per acre). Furthermore, no lodging was observed at any of the six locations for Rex. After finalizing the licensing agreement with BASF, CL162 was produced as registered seed in 2011. Furthermore, a small quantity was also sold as certified so growers could have limited acreage. CL162 performed well. It was superior to CL131 and CL181-AR; however, as expected, it was about 10% less in yield relative to CL111, CL142-AR, and CL151. CL162 has had favorable reviews for its grain size and milled appearance. It also stands better than CL151.

Entries that begin with RU represent advanced breeding lines that performed well in on-farm as well as multistate testing. RU1004083 and RU1104122 are Clearfield lines that produced yields similar to the commercially available CL111, CL142-AR, and CL151. Lodging resistance is also much improved for these lines compared with most commercially available Clearfield varieties.

Table 9 provides agronomic, yield, and milling data from select rice varieties that have been included in on-farm trials for multiple years. Variety selection should include emphasis on performance stability over many environments. Varieties such as Cocodrie and Wells have been relatively stable over many years, thus they have been popular varieties in Mississippi and the Midsouth for several years. As stated earlier, Rex has also shown tremendous stability over multiple locations in Mississippi and other states. Table 10 is included to provide a historical record of the performance of the varieties included as check varieties in the Uniform Regional Rice Nursery, which includes more than 170 experimental lines from Arkansas, Louisiana, Mississippi, and Texas.

Variety and hybrid reactions to common diseases and straighthead disorder are found in Table 11. Decisions about the use of fungicides should be made considering a variety's susceptibility to a particular disease, the potential for the disease to cause economic loss, and the efficacy of fungicides that are available to combat or prevent the respective disease.

Nitrogen fertilization rate guidelines are provided in Table 12. These guidelines were generated from multiyear, multisite N response trials conducted for newly released cultivars. A combination of current economics and individual cultivars' susceptibility to lodging and yield potential are included in determining the rate guidelines. Year after year, coarse-textured soils, commonly referred to as silt loams, require approximately 30 pounds of nitrogen per acre less than fine-textured or clay soils. By applying less N on silt loam soils, disease and lodging incidence are subject to decrease without sacrificing yield and quality.

Suggested conventional varieties for Mississippi rice growers are Bowman, Cocodrie, Cheniere, Rex, Templeton, and Wells. Sabine is often grown on limited acreage by contract. Hybrid rice cultivars perform well in Mississippi. RiceTec, Inc., and Bayer should be contacted for seed availability. For growers who need to utilize the Clearfield technology to control red rice, CL111, CL131, CL142-AR, CL151, CL152, CL162, and CL181-AR varieties will be available in 2012. Clearfield rice hybrids perform well in Mississippi. Clearfield hybrids will be solely offered by RiceTec, Inc. Seed costs for Clearfield rice have increased substantially in recent years. Clearfield rice should be used as a tool with careful attention given to stewardship so that the technology can last into the future. Stewardship should encompass minimizing the potential for outcrossing of red rice and Clearfield rice. Stewardship should also include addition of residual and contact herbicides for grass control so that selection pressure is minimized. Incidences of Newpath-resistant barnyardgrass have increased in the last few years. Outcrossing and grass resistance jeopardize this important technology.

As has been demonstrated in previous years, no variety or hybrid is perfect. Each variety that is released has qualities or characteristics that add value to the marketplace. Varietal performance over time and in different environments should be considered when choosing which to plant. For varieties with high yield potential, consider risks such as lodging and disease and plan to manage for those yield-limiting factors. Multiple varieties, both Clearfield and conventional, are recommended for average-sized rice farms to further spread the risks associated with rice production.

Entry	Yield ²	Milled head rice	Whole milled rice	Total milled rice	Harvest moisture	Bushel weight	Plant height	50% heading ³	Lodging	Lodging⁴	1000 seed weight⁵
	bu/A	lb/A	%	%	%	lb	in	days	%	(0-5)	g
					Conver	tional					
Arize1003	241	5862	54	68	14.4	33.8	52	94	60	4	23.5
Bowman	196	5116	58	67	16.3	38.7	43	87	0	0	24.4
Caffev ⁶	201	5967	66	72	14.9	42.4	39	81	0	0	27.6
Catahoula	226	5909	58	72	13.5	41.9	43	77	0	0	23.0
Cheniere	231	6335	61	71	13.1	39.5	43	78	0	0	21.7
Cocodrie	202	5630	62	72	13.0	40.0	42	75	0	0	22.5
01H10010	263	5916	50	67	15.1	34.0	50	84	80	4	23.6
Rex	239	6572	61	69	14.1	40.7	43	78	0	0	25.9
RoyJ	183	5104	62	72	18.2	38.2	45	84	Ō	0	22.6
Taggart	176	4271	54	69	16.8	39.7	45	83	Ō	0	26.8
Templeton	222	6096	61	71	14.3	40.9	44	79	5	1	21.2
XL723	270	7649	63	71	12.8	37.6	50	76	Õ	Ö	24.5
XP753	296	7469	56	71	12.7	38.1	47	73	Õ	Ö	22.9
XP754	255	6323	55	71	16.7	35.9	44	81	35	2	23.3
RU1004197	245	6611	60	70	13.2	40.4	42	74	0	0	23.8
RU1104077	221	5772	58	70	15.1	41.4	42	82	Õ	Ö	23.7
RU1104191	182	4747	58	70	15.2	41.8	39	82	õ	õ	23.6
RU1104156	209	6104	65	70	15.2	39.0	39	78	Õ	Õ	24.2
					Clear	field					
CL111	217	5463	56	70	13.5	39.6	45	72	50	4	22.3
CL131	150	4128	61	71	14.0	37.5	39	77	0	0	21.0
CL142 AR	261	4820	41	70	13.5	40.0	48	77	35	2	25.4
CL151	197	5146	58	70	14.5	37.8	44	74	65	4	21.8
CL152	216	6027	62	69	14.1	39.1	45	79	0	0	20.2
CL162	211	5689	60	71	13.9	38.4	47	73	40		23.7
CL181 AR	225	5981	59	69	15.0	39.3	43	78	10	2 2	22.5
CL2616	229	6699	65	70	16.2	42.1	46	77	50	3	24.0
CLXL729	269	7025	58	70	13.4	38.0	52	75	40	2	23.9
CLXL745	300	7696	57	70	12.4	36.3	50	72	10	1	23.6
CLXP756	285	6790	53	71	15.7	36.8	47	84	25	2	22.9
RU1004083	264	7013	59	70	14.7	39.8	44	75	3	1	23.4
RU1104122	249	6623	59	71	14.4	38.2	44	79	35	3	23.7

Planting date: May 11. Emergence: May 24. Herbicides: Roundup® at 1 qt/A + Command® at 1.33 pt/A + Firstshot® at 0.9 oz/A on May 11; RicePro® at 1 gal/A + Crop Oil at 1pt/A on June 8. Fertilizer: 270 lb/A urea on June 9; 130 lb/A urea on June 30. Insecticide: Mustang Max[®] at 1 gal per 35 acres on July 27. Fungicide: Quilt XL[®] at 10.5 oz/A on July 27. Permanent Flood: June 10. Drained Field: Sept. 3. Harvested: Sept. 27. A difference of 38 bu/A is required for one variety to differ from another at the 5% probability level. C.V. = 9%. ²Rough rice at 12% moisture.

³Days after emergence.

(0-5) 0 = plants totally erect, 5 = plants completely on ground.

⁵Weight of 1,000 kernels.

6Medium grain.

Table 1 Performance of rice cultivars and lines grown on

				ce of rice rksdale, C						
Yield ²	Milled head rice	Whole milled rice	Total milled rice	Harvest moisture	Bushel weight	Plant height	50% heading ³	Lodging	Lodging⁴	1000 seed weight⁵
bu/A	lb/A	%	%	%	lb	in	days	%	(0-5)	g
				Conven	tional					
283	7001	55	66	19.2	33.4	50	104	87	4	25.4
220	5854	59	69	16.0	42.8	42	96	0	0	24.8
218	6266	64	72	18.4	44.6	41	97	0	0	28.4
211	5312	56	70	15.2	42.4	43	93	0	0	23.7
164	4363	59	71	15.9	41.0	41	95	0	0	21.3
227	5929	58	68	14.6	41.7	45	91	Ō	0	22.7
255	6085	53	66	17.6	31.6	52	99	53	2	24.4
228	5326	52	66	14.4	40.2	46	90	0	0	25.4
185	4735	57	70	21.5	40.8	47	100	0	0	22.9
222	5902	59	70	17.6	42.1	50	99	0	0	26.7
								Ō		20.7
								33		24.6
										23.6
										24.9
										22.9
										23.8
										24.1
231	5934	57	69	17.5	40.2	45	95	0	0	25.0
				Clear	field					
242	5873	54	69			46	91	83	3	24.0
										21.8
										26.6
										23.2
										20.7
										23.7
								0		23.2
										23.0
								70		23.6
									1	23.9
279	7914	63	73			45	100	0	Ō	24.2
240	5721		70	15.6	42.1	44	91	Õ	Ő	22.5
215	5706	59	68	18.0	40.9	43	98	Ō	0	23.5
	bu/A 283 220 218 211 164 227 255 228 185 222 198 315 320 283 219 249 237 231 249 237 231 242 155 214 224 205 200 111 223 295 326 279 240	Yield² Milled head rice bu/A /b/A 283 7001 220 5854 218 6266 211 5312 164 4363 227 5929 255 6085 228 5326 185 4735 222 5902 198 5261 315 7937 320 7354 283 8154 219 5628 249 6395 237 6076 231 5934 242 5873 155 4046 214 5014 224 5443 200 4853 111 2537 225 57165 326 8352 279 7914 240 5721	Yield? 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milled rice Harvest moisture Bushel weight Plant height 50% heading* bu/A lb/A % % lb in days conventional Conventional days days 283 7001 55 66 19.2 33.4 50 104 220 5854 59 69 16.0 42.8 42 96 218 6266 64 72 18.4 44.6 41 97 211 5312 56 70 15.2 42.4 43 93 164 4363 59 71 15.9 41.0 41 95 227 5929 58 68 14.6 41.7 45 91 255 6085 53 66 17.6 31.6 52 99 228 5326 57 70 21.5 40.8 47 100	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Vield*Milled head riceTotal milled riceHarvest moistureBushel weightPlant height 50% heading*Lodging Lodging* bu/A lb/A %% lb in $days$ % $(0-5)$ bu/A lb/A %% lb in $days$ % $(0-5)$ 2837001556619.2 33.4 501048742205854596916.0 42.8 42 96002186266647218.4 44.6 4197002115312567015.2 42.4 4393002275929586814.641.74591002285326526614.440.24690002225902597017.642.15099002225902597017.642.150990023207354517219.340.046100002496395576716.743.94298002195628576717.044.04595002195628576917.540.24595002195628576916.6<

¹Planting date: April 13. Emergence: April 25. Herbicides: Facet[®] at 0.5 lb/A + Grandstand[®] at 10 oz/A + Regiment[®] at 0.5 oz/A on May 22. Fertilizer: 326 lb/A urea on May 19 (applied by MSU). Insecticide: Karate[®] at 1 gal per 75 acres on Aug. 5. Fungicide: Quadris[®] at 6 oz/A on July 6 and July 24. Permanent Flood: May 26. Drained field: Aug. 28. Harvested: Sept. 13. A difference of 23 bu/A is required for one variety to differ from another at the 5% probability level. C.V. = 7%.

²Rough rice at 12% moisture.

³Days after emergence.

(0-5) 0 = plants totally erect, 5 = plants completely on ground.

⁵Weight of 1,000 kernels.

⁶Medium grain.

Mississippi Agricultural and Forestry Experiment Station 5

Entry	Yield ²	Milled head rice	Whole milled rice	Total milled rice	Harvest moisture	Bushel weight	Plant height	50% heading ³	Lodging	Lodging⁴	1000 seed weight⁵
	bu/A	lb/A	%	%	%	lb	in	days	%	(0-5)	g
					Conver	tional					
Arize1003	237	5545	52	67	19.6	33.5	45	96	90	4	26.2
Bowman	232	6360	61	71	18.0	41.9	44	88	17	0	25.3
Caffev ⁶	237	7041	66	73	18.0	43.7	42	89	0	0	27.7
Catahoula	258	6728	58	71	14.2	41.6	46	86	0	0	23.2
Cheniere	264	7716	65	73	13.1	40.7	41	84	10	1	21.0
Cocodrie	263	7088	60	71	15.2	41.2	41	85	10	1	22.2
01H10010	213	4787	50	66	19.3	31.2	47	85	90	4	17.8
Rex	270	6935	57	68	14.2	41.1	45	83	0	0	25.5
RoyJ	223	5429	54	71	17.1	41.2	48	89	Ō	0	22.1
Taggart	255	6758	59	71	15.5	41.2	49	90	Ō	0	23.4
Templeton	233	5557	53	70	15.3	39.3	49	88	80	3	20.8
XL723	318	8165	57	70	11.9	37.6	49	82	57	2	23.6
XP753	340	8716	57	72	12.8	39.2	50	85	53	1	24.0
XP754	276	6737	54	71	18.8	38.0	50	87	87	3	24.2
RU1004197	274	7516	61	71	14.1	41.1	41	85	0	Ö	22.9
RU1104077	243	6332	58	71	16.4	44.0	43	87	3	1	24.8
RU1104191	250	6528	58	70	17.5	44.1	44	88	8	1	25.1
RU1104156	255	7105	62	69	15.4	39.8	44	86	Õ	Ō	25.2
					Clear	field					
CL111	255	6663	58	70	13.7	39.3	43	80	77	4	24.2
CL131	238	6640	62	72	12.7	40.8	38	82	20	1	21.1
CL142 AR	272	6971	57	72	16.2	42.6	47	83	73	3	25.4
CL151	261	7047	60	72	14.7	38.3	41	81	83	4	22.3
CL152	265	6920	58	68	14.2	41.5	41	85	0	0 0	20.6
CL162	230	5596	54	69	14.7	39.5	42	82	83	4	24.6
CL181 AR	241	6296	58	69	15.6	40.7	38	85	0	Ō	23.1
CL2616	222	6101	61	70	14.5	43.9	41	85	43	2	23.9
CLXL729	286	6696	52	68	13.2	38.7	47	81	50	2	23.4
CLXL745	312	7999	57	71	12.3	37.2	48	80	90	3	24.9
CLXP756	272	6856	56	72	18.8	37.5	46	86	90	4	23.6
RU1004083	243	6243	57	71	15.4	41.5	45	86	50	3	22.9
RU1104122	249	6502	58	70	14.6	41.2	43	86	57	3	24.7

Planting date: April 14. Emergence: April 23. Herbicides: Super Wham * at 4 qt/A + Facet* at 0.5 lb/A + Prowl* at 2 pt/A + crop oil at 1 pt/A on April 30; Permit® 0.5 oz/A on May 20; Clincher® at 15 oz/A + crop oil at 1 qt/A on June 6; Ultra Blazer® at 0.5 pt/A on June 21. Fertilizer: 50 lb/A DAP + 50 lb/A ammonium sulfate on April 30; 100 lb/A urea + Agrotain on May 20, June 6, and Jun 21; 100 lb/A urea on June 28. Insecticide: Karate Z[®] at 1 gal per 60 acres on July 28. Fungicide: Quilt XL[®] at 14 oz/A on July 15. Permanent Flood: May 24. Drained field: Aug. 15. Harvested: Aug. 30. A difference of 22 bu/A is required for one variety to differ from another at the 5% probability level. C.V. = 6%

²Rough rice at 12% moisture.

³Days after emergence.

(0-5) 0 = plants totally erect, 5 = plants completely on ground.

⁵Weight of 1,000 kernels.

6Medium grain.

Table 3 Performance of rice cultivars and lines grown on

Entry	Yield ²	Milled head rice	Whole milled rice	Total milled rice	Harvest moisture	Bushel weight	Plant height	50% heading ³	Lodging	Lodging⁴	1000 seed weight⁵
	bu/A	lb/A	%	%	%	lb	in	days	%	(0-5)	g
					Conver	tional					
Arize1003	272	6372	52	66	20.2	36.0	46	106	87	3	26.3
Bowman	199	5011	56	67	16.4	43.3	42	100	0	0	25.2
Caffey ⁶	200	5578	62	72	18.3	44.8	41	98	0	0	28.8
Catahoula	173	4207	54	69	15.2	42.6	44	96	0	0	23.6
Cheniere	150	3925	58	70	17.3	41.6	39	97	0	0	21.7
Cocodrie	212	5616	59	68	15.6	42.7	43	97	10	1	22.5
01H10010	247	5993	54	68	17.4	34.3	47	102	87	3	25.4
Rex	210	4623	49	65	15.1	40.1	45	95	0	0	24.7
RoyJ	202	5182	57	70	17.7	42.2	45	103	0	0	24.2
Taggart	199	4734	53	69	14.5	43.5	48	101	0	0	26.6
Templeton	194	4618	53	68	13.5	43.4	45	100	30	1	21.3
XL723	296	7317	55	69	12.8	39.0	49	95	73	2	24.6
XP753	306	7433	54	70	13.5	39.4	45	93	17	1	23.1
XP754	282	7486	59	72	19.1	39.7	44	101	83	2	24.8
RU1004197	207	5322	57	69	15.6	40.8	42	95	67	3	22.3
RU1104077	218	5393	55	66	15.7	43.6	42	101	0	0	24.3
RU1104191	231	6041	58	68	17.2	44.6	43	101	0	0	24.2
RU1104156	214	5189	54	67	14.4	38.8	44	95	60	2	24.0
					Clear	field					
CL111	232	5634	54	69	15.6	41.4	42	94	87	3	24.3
CL131	199	4833	54	68	13.3	40.8	39	95	0	0	21.7
CL142 AR	195	4477	51	69	15.3	43.2	48	97	0	0	26.3
CL151	201	4695	52	67	19.1	39.4	41	95	90	3	22.1
CL152	163	4026	55	66	18.4	41.3	43	100	0	0	21.4
CL162	192	4320	50	67	16.0	38.8	44	94	63	3	24.4
CL181 AR	135	3154	52	68	17.5	42.4	41	99	0	0	23.7
CL2616	185	4752	57	67	15.5	40.8	43	95	67	2	23.2
CLXL729	284	6519	51	67	11.9	38.3	46	95	73	2	23.2
CLXL745	297	7613	57	72	14.6	38.1	45	89	90	3	25.2
CLXP756	291	7735	59	72	19.5	39.7	45	101	90	2	25.3
RU1004083	200	4331	48	67	14.5	40.6	42	96	23	1	22.4
RU1104122	202	5443	60	68	16.4	42.4	42	99	0	0	24.0

Table 4. Performance of rice cultivars and lines grown on

Planting date: April 13. Emergence: April 22. Herbicides: Compadre® at 6.4 oz/A + Gramoxone Inteon® at 40 oz/A on March 25; Facet 75DF® at 0.25 lb/A + Aim® at 0.75 oz/A + Regiment® at 0.65 oz/A + Soysurf -xtra® at 12.8 oz/A on May 30. Fertilizer: 100 lb/A DAP + 100 Ib/A ammonium nitrate on May 5; 285 Ib/A urea on May 30; 150 Ib/A urea on June 22. Insecticides: Karate® at 1.8 oz/A on May 30 and July 28. Fungicides: Quilt® at 14 oz/A on July 16. Permanent flood: May 28. Drained field: Aug. 27. Harvested: Sept. 10. A difference of 17 bu/A is required for one variety to differ from another at the 5% significance level. C.V. = 5%.

²Rough rice at 12% moisture.

³Days after emergence.

4(0-5) 0 = plants totally erect, 5 = plants completely on ground.

5Weight of 1,000 kernels.

⁶Medium grain.

Entry	Yield ²	Milled head rice	Whole milled rice	Total milled rice	Harvest moisture	Bushel weight	Plant height	50% heading ³	Lodging	Lodging⁴	1000 seed weight⁵
	bu/A	Ib/A	%	%	%	lb	in	days	%	(0-5)	g
					Conven	tional					
Arize1003	216	5348	55	66	19.0	33.8	50	100	30	1	24.8
Bowman	235	6143	58	70	15.0	41.9	40	90	0	0	25.2
Caffey ⁶	247	7004	63	70	15.2	42.0	41	90	0	0	27.5
Catahoula	250	6643	59	70	14.2	41.7	42	87	0	0	23.6
Cheniere	236	6269	59	70	13.6	38.3	39	86	0	0	21.1
Cocodrie	232	6254	60	70	13.8	40.1	43	86	0	0	23.1
01H10010	169	3725	49	66	22.7	34.1	50	92	60	3	24.0
Rex	250	6532	58	68	13.9	38.9	43	85	0	0	26.8
RoyJ	232	5647	54	69	16.2	39.4	45	94	0	0	21.4
Taggart	252	6228	55	70	14.9	40.2	50	93	0	0	26.4
Templeton	237	5856	55	68	14.5	41.1	48	92	0	0	20.7
XL723	302	8164	60	70	12.8	37.4	49	84	0	0	24.4
XP753	322	8268	57	71	12.4	39.4	46	84	0	0	23.8
XP754	281	7448	59	71	16.2	38.5	47	92	40	2	22.2
RU1004197	230	5890	57	67	13.3	39.7	40	85	0	0	22.3
RU1104077	260	6783	58	68	14.2	41.8	41	91	0	0	24.6
RU1104191	274	6791	55	68	14.4	42.3	42	89	0	0	24.2
RU1104156	271	7446	61	69	14.6	40.1	41	86	0	0	26.5
					Clear	field					
CL111	231	5916	57	68	14.9	39.0	44	86	37	2	23.5
CL131	235	6771	64	71	13.4	39.2	41	86	0	0	22.3
CL142 AR	276	6581	53	68	15.3	41.6	51	88	0	1	25.2
CL151	252	6581	58	69	13.8	39.5	42	86	0	0	22.3
CL152	231	5932	57	66	13.9	38.6	43	92	0	0	19.9
CL162	217	5479	56	68	15.8	38.3	47	87	33	3	23.8
CL181 AR	238	6008	56	67	14.7	39.3	42	88	0	Ō	23.2
CL261 ⁶	209	5932	63	68	16.2	41.9	46	87	27	1	24.4
CLXL729	274	7017	57	69	12.7	37.4	50	86	17	1	23.8
CLXL745	286	7204	56	69	12.1	36.1	48	83	7	1	23.8
CLXP756	277	6987	56	72	15.1	39.3	50	93	33	2	23.7
RU1004083	251	6790	60	70	14.3	40.3	42	88	0	0	24.2
RU1104122	255	6414	56	67	13.7	39.3	44	91	Ō	Ō	23.3

Table 5. Performance of rice cultivars and lines grown

1Planting date: April 8. Emergence: April 19. Herbicides: Ricestar HT at 17 fl oz/A + Aim at 0.5 fl oz/A on May 6; Regiment at 0.6 oz/A + Permit at 0.5 oz/A + Aim at 0.75 fl oz/A + UAN at 1.0% v/v + Kinetic at 0.125% v/v on May 18. Fertilizer: 300 lb/A of urea on May 19; 100 lb/A of urea on June 20. Insecticide: Karate at 2.56 fl oz/A on July 18. Permanent Flood: May 19. Drained field: Aug. 10. Harvested: Aug. 29. A difference of 28 bu/A is required for one variety to differ from another at the 5% probability level. C.V. = 7%. ²Rough rice at 12% moisture.

³Days from emergence.

⁴(0-5) 0 = plants totally erect, 5 = plants completely on ground. ⁵Weight of 1,000 kernels.

⁶Medium grain.

Entry	Yield ²	Milled head rice	Whole milled rice	Total milled rice	Harvest moisture	Bushel weight	Plant height	50% heading ³	Lodging	Lodging⁴	1000 seed weight⁵
	bu/A	lb/A	%	%	%	lb	in	days	%	(0-5)	g
					Conver	tional					
Arize1003	226	4985	49	67	19.3	34.2	47	93	0	0	25.3
Bowman	223	5607	56	70	16.5	42.8	41	91	0	0	25.5
Caffey ⁶	179	4267	53	70	16.9	43.0	38	91	0	0	27.3
Catahoula	220	4660	47	70	13.4	42.4	39	84	0	0	22.9
Cheniere	224	5956	59	71	13.1	40.3	39	88	0	0	20.9
Cocodrie	212	5732	60	70	15.0	41.7	39	87	0	0	23.2
01H10010	244	5170	47	65	19.6	35.7	48	93	0	0	24.3
Rex	216	5545	57	68	14.4	40.8	40	86	0	0	26.5
RoyJ	191	4546	53	71	16.9	40.9	42	92	0	0	22.6
Taggart	206	4535	49	71	16.3	42.7	46	91	0	0	26.8
Templeton	215	4751	49	70	14.4	41.9	44	89	0	0	20.5
XL723	291	7340	56	70	13.3	38.1	47	86	0	0	24.3
XP753	260	6073	52	71	15.0	38.0	43	88	0	0	23.0
XP754	253	5696	50	70	19.6	37.8	44	93	0	0	23.8
RU1004197	219	6009	61	71	13.7	41.2	39	90	0	0	22.9
RU1104077	237	5646	53	69	15.2	42.0	41	90	0	0	24.7
RU1104191	211	4743	50	68	14.9	43.3	41	88	0	0	25.3
RU1104156	219	5625	57	69	14.2	39.7	38	86	0	0	25.1
					Clear	field					
CL111	274	6537	53	70	12.6	40.6	43	83	0	0	24.5
CL131	238	6112	57	71	12.7	41.2	37	83	0	0	21.2
CL142 AR	273	4914	40	71	14.0	43.5	47	85	0	0	25.1
CL151	253	5689	50	71	13.0	40.4	40	83	0	0	23.0
CL152	249	6490	58	68	13.8	41.3	42	90	0	0	20.6
CL162	233	5441	52	70	13.5	39.0	45	85	Ō	0	24.9
CL181 AR	230	5484	53	69	14.6	39.9	38	88	Ō	0	23.0
CL2616	221	6073	61	72	14.3	43.5	43	85	Ō	0	23.2
CLXL729	254	5724	50	68	13.8	37.6	48	85	0	0	23.3
CLXL745	233	5345	51	70	12.9	34.1	46	88	0	0	24.3
CLXP756	249	5944	53	72	19.1	38.5	45	93	0	0	24.1
RU1004083	249	5259	47	70	13.8	41.9	40	84	0	0	23.2
RU1104122	254	6393	56	69	14.2	41.3	44	90	0	0	23.9

Table 6. Performance of rice cultivars and lines grown

1Planting date: April 14. Emergence: April 22. Herbicides: Command® at 1.33 pt/A + Roundup® at 21 fl oz/A on April 13; Regiment® at 0.05 oz/A + Permit® at 0.5 oz/A + 1% Soy-surf on May 16. Fertilizer: Agrotain-treated urea at 200 lb/A preflood on May 17; urea at 100 lb/A on June 10; urea at 100 lb/A on June 17. Date flushed: April 27. Insecticide: Kaiso® at 1 gal per 7 acres on July 18. Fungicide: Quilt XL® at 14 oz/A on July 4. Permanent flood: May 17. Drained field: Aug. 14. Harvested: Aug. 29. A difference of 25 bu/A is required for one variety to differ from another at the 5% probability level. C.V. = 7%

²Rough rice at 12% moisture.

³Days after emergence.

(0.5) 0 = plants totally erect, 5 = plants completely on ground.

⁵Weight of 1,000 kernels.

6Medium grain.

Entry	Tunica	Clarksdale	Renova	Litton	Stoneville	Hollandale	Average	Stability ²
	bu/A	bu/A	bu/A	<i>bu/A</i> Conventional	bu/A	bu/A	bu/A	
Arize1003	241	283	237	272	216	226	246	10.7
Bowman	196	220	232	199	235	223	218	7.6
Caffey	201	218	237	200	247	179	214	11.9
Catahoula	226	211	258	173	250	220	223	13.6
Cheniere	231	164	264	150	236	224	212	21.0
Cocodrie	202	227	263	212	232	212	225	9.7
01H10010	263	255	213	247	169	244	232	15.2
Rex	239	228	270	210	250	216	236	9.5
RoyJ	183	185	223	202	230	191	203	9.5 10.1
noyj Taggart	176	222	255	199	252	206	203	14.2
					232			8.2
Templeton	222	198	233	194		215	217	
XL723	270	315	318	296	302	291	299	5.9
XP753	296	320	340	306	322	260	307	9.0
XP754	255	283	277	282	281	253	273	5.1
RU1004197	245	219	274	207	230	219	232	10.4
RU1104077	221	249	243	218	260	237	238	6.8
RU1104191	182	237	250	231	274	211	231	13.8
RU1104156	209	231	255	214	271	219	233	10.6
				Clearfield				
CL111	217	242	255	232	231	274	242	8.3
CL131	150	155	238	199	235	238	203	20.4
CL142 AR	261	214	272	195	276	273	249	14.0
CL151	197	224	261	201	252	253	231	12.1
CL152	216	205	265	163	231	249	222	16.2
CL162	211	200	230	192	217	233	214	7.6
CL181 AR	225	111	241	135	238	230	197	29.4
CL2611	229	223	222	185	209	221	215	7.4
CLXL729	269	295	286	284	274	254	277	5.2
CLXL745	300	326	312	297	286	233	292	11.0
CLXP756	285	279	272	291	277	249	276	5.3
RU1004083	264	240	243	200	251	249	241	9.1
RU1104122	249	215	249	202	255	254	237	9.6
ICTIONIEL								0.0
Mean	230	232	258	219	249	234	237	
LSD	38	23	22	17	28	25		
CV	9	7	6	5	7	7		
Planting date	May 11	April 13	April 14	April 13	April 8	April 14	-	
Emergence date	May 24	April 25	April 23	April 22	April 19	April 22	_	

¹Medium grain. ²Stability represents the ability of the entry to perform similarly across the six environments. The lower the number, the more stable it performed.

Milet handling Total Woold Manual handling <	Brand	Origin ¹	Avera	Average yield	Milling yield	yield	Bushel	Plant	. 50%	Lodging	Lodging⁴	1000 seed	Approximate
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			Rough rice²	Milled head rice	Total	Whole	weight	height	heading			weight	seeds/pound
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		C	0		C	ľ	Conventiona	_	c c	ł	c		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Arize1003	Bayer	248	1069	53	97	34.1	1 8	66	- ۲		25.3	1/929
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Mean		238	5962	56	69	40	44	06	24	-	24	I
2 4 4 2 122 118 4 eased and marketed by Horizon Ag, LLC; MS = Mississippi; RT = RiceTec, Inc. inced for one variety to differ from another at the 5% probability level. C.V. = 11%.	LSD		17	I	ო	-		-	-	16	-	-	I
¹ Origin: AR = Arkansas; LA = Louisiana; LA-HA = Louisiana released and marketed by Horizon Ag, LLC; MS = Mississippi; RT = RiceTec, Inc. ² Rough rice at 12% moisture. A difference of 17 bu/A is required for one variety to differ from another at the 5% probability level. C.V. = 11%. ³ Days after emergence. ⁴ (0-5) 0 = plants totally erect, 5 = plants completely on ground. ⁴ Weight of 1,000 kernels.	S		11	I	7	N	4	4	0	122	118	4	I
³Days after emergence. 40-5) 0 = plants totally erect, 5 = plants completely on ground. •Weight of 1,000 kernels. •Medium grain.	¹ Origin: AR = ² Rough rice at	Arkansas; L [⊄] : 12% moistu	A = Louisiana; ire. A differen	LA-HA = Louisia ce of 17 bu/A is	ana released a s required for	nd marketed one variety	by Horizon Ag, to differ from	LLC; MS = N another at th	Aississippi; RT e 5% probabi	= RiceTec, Inc lity level. C.V.	י. = 11%.		
Weight of 1,000 kernels.	³Days after er ₄/∩-5∖ 0 = nlan	nergence. te totally ere	ot 5 – nlants	completely on g						1			
	Weight of 1,0	00 kernels.											
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Mississippi Agricultural and Forestry Experiment Station 11

or line 2005 bu//A Arize1003 – Bowman 178 Caffey ⁶ – Caffey ⁶ – Catheniere 168 Cocodrie 176		9	Grain yield ²				3-year	Total	al	Milling yield ⁴	yield ⁴	Bushel	Plant	Days to	Lodging	1000	Sheath	Seeds/
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	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	.ou	%	%	qı	in	.ou	%	g	score	no.
							0	Conventional	bnal									
	I	I	I	255	I	248	I	252	÷	68	56	36	47	100	40	26	0	17685
	208	216	200	198	198	219	205	202	44	88	54	4	40	89	13	25	4	18184
	I	I	I	I	I	214	I	214	9	71	62	4	41	91	0	28	I	16258
	I	202	193	182	213	223	206	203	30	7	57	43	40	86	n	24	ო	19381
	190		190	208	203	210	207	198	51	02	58	42	38	87	12	22	n ro	21389
	194	213	188	198	227	226	217	191	100	89	28	4	4	8	: -	24	Ω	19594
01H10010 -	I	I	I	I	I	229	I	229	9	99	50	g	49	8	74	53	I	19468
	I	212	219	212	211	237	220	218	24	68	57	42	42	84	0	26	e	17169
_	I	I	I	I	I	205	I	205	9	02	56	41	45	94	0	23	I	20071
	I	I	I	208	217	221	215	215	17	02	54	43	45	92	0	27	0	17012
Templeton –	I	I	199	209	204	216	210	207	23	02	57	44	43	88	12	52	0	20479
	I	I	I	I	I	300	I	300	9	02	58	œ	49	87	35	24	I	19385
	I	I	I	I	I	308	I	308	9	71	54	39	46	86	15	23	I	19386
	I	I	I	I	I	273	I	273	9	7	56	39	46	<u> </u>	50	24	I	18979
	I	I	I	I	I	233	I	233	9	60	59	4	41	88	14	53	I	19808
	I	I	I	I	I	239	I	239	9	68	58	43	42	92	-	24	I	18667
	I	I	I	I	I	234	I	234	9	88	56	43	42	91	0	24	I	18590
RU1104156 –	I	I	I	I	I	235	I	235	9	68	58	40	42	88	13	25	I	18144
								Clearfield										
CL111 –	I	I	I	208	224	243	225	225		02	60	42	42	84	24	25	0	18336
CL131 161	187	I	179	176	181	182	188	182	37	20	59	42	36	87	o	22	9	20622
AR	I	I	I	I	231	248	I	240	12	68	50	42	46	86	13	26	I	17384
CL151 –	I	I	194	220	225	233	226	218	23	02	57	41	40	85	42	23	0	20143
CL152 –	I	I	I	I	I	222	I	222	9	67	58	4	43	91	0	21	I	22019
	I	I	I	207	199	214	207	207	17	02	58	41	43	84	19	25	0	18041
CL181 AR –	I	I	I	I	191	195	I	193	12	67	56	41	40	88	-	24	I	19268
	I	I	I	I	181	214	I	198	12	69	63	43	43	85	29	24	I	19060
	I	I	I	I	I	277	I	277	9	68	53	œ	49	87	51	24	I	19302
CLXL745 —	I	I	I	I	268	292	I	280	12	7	57	88	45	8	31	25	I	18406
CLXP756 —	I	I	I	Ι	Ι	275	I	275	9	72	57	90 90	46	93 03	49	24	I	18900
RU1004083 –	I	I	I	I	I	240	I	240	9	69	54	4	43	87	16	53	I	19636
RU1104122 –	Ι	I	I	Ι	I	236	I	236	9	68	56	41	43	91	17	24	Ι	18979
¹ Test locations were in farmers' fields extending from northerr ² Rough rice at 12% moisture content. Data columns for 1991 ³ Arenage of the three most recent years tested.	farmers' fi isture con iost recen	elds exte tent. Dat : years te	a columr sted.	om northe 1s for 199		n to southern Delta areas to 2002 were omitted, bi ht are accumulated mear	ilta areas nitted, b	s. ut their n	t to southern Delta areas. to 2002 were omitted, but their numbers were incl ht are accumulated means over all vears of testing	vere inclu	uded in th	he averaç	je yield a	and total	i to southern Delta areas. to 2002 were omitted, but their numbers were included in the average yield and total test numbers. ht are accumulated means over all years of testing	ers.		
⁵ Days after emergence. Mainht of 1 000 kernels at 12% arain moisture content	2001 10 0	om view	100 611 10	tooto	>													
weight of 1,000 kerries at 12% grain moisture content. Sheath blight scores using average percent of all plants infected on a plot basis.	sing avera	grain inv ge perce	Isture w	nteru. plants inf	ected on	a plot be	Isis.											

12 Mississippi Rice Variety Trials, 2011

Variety ¹	Origin ²		Grain yield		Years	Millin	g yield	Plant	50%	Lodging
		2011	3-yr. avg.	Avg.	in test	Total	Whole	height	heading	
		bu/A	bu/A	bu/A	no.	%	%	in	days	%
					Conventional					
Caffey ³	LA	203	216	215	5	67	53	39	85	3
Catahoula	LA	192	200	196	9	69	55	40	87	5
Cheniere	LA	189	195	194	12	68	55	37	85	6
Cocodrie	LA	215	202	192	17	67	55	39	83	6
Francis	AR	216	208	207	13	66	49	41	84	12
Jazzman	LA	196	194	195	6	68	60	41	89	0
Jazzman 2	LA	168	158	162	4	67	58	37	84	0
JES	AR	223	215	215	3	68	59	37	88	0
Jupiter₃	LA	216	_	223	2	65	60	38	87	0
Presidio	ТХ	177	190	189	13	68	54	39	83	5
Rex	MS	217	200	202	4	68	59	41	86	0
Rondo	ТХ	219	217	223	6	67	48	42	91	19
Roy J	AR	188	201	203	4	69	53	42	91	0
Sabine	ТХ	169	162	175	11	67	52	36	88	0
Taggart	AR	202	203	230	6	69	54	44	90	0
Templeton	AR	196	204	203	6	69	55	46	90	0
Wells	AR	194	199	196	16	69	49	42	84	3
					Clearfield					
CL111	LA	206	_	206	2	68	59	40	84	0
CL142 AR	AR	186	_	189	2	68	51	42	89	1
CL151	LA	219	223	223	3	68	59	39	85	3
CL152	LA	213	200	197	4	67	59	41	85	15
CL162	MS	211	_	205	2	67	55	43	84	0
CL181 AR	AR	194	_	182	2	67	56	35	88	0
CL261 ³	LA	155	_	157	2	66	58	38	84	0

¹Rondo and Sabine have the Rexmont cooking and processing qualities; Jazzman, Jazzman 2, and JES are long-grain aromatics. ²Origin: AR = Arkansas, CL = Horizon Ag, LA = Louisiana, MS = Mississippi, TX = Texas. ³Medium grain.

Variety/ Hybrid	Sheath blight	Blast	Stem rot	Kernel smut	False smut	Brown leaf spot	Straight head	Lodging	Black sheath rot	Bacterial panicle blight	Narrow brown leaf spot	Leaf smut
Bowman	MS	S	S	S	S	R	MS	MR	MS	S	MR	_
Catahoula	S	R	S	S	S	R	S	MS	MS	MS	MR	_
Cheniere	S	S	S	S	S	MR	MR	MS	MS	MS	VS	MR
CL111	VS	S	VS	S	S	R	MS	S	S	S	S	
CL131	VS	MS	S	S	S	R	VS	MR	S	VS	VS	_
CL151	S	VS	VS	S	S	R	VS	VS	S	VS	S	_
CL161	VS	MS	S	S	S	R	MS	MS	S	S	S	MS
CL142-AR	MS	S	S	S	S	R	MS	MS	S	S	MS	
CL162	S	MS	_	_	_	—	MS	MS	_	MS	MR	MR
CL171-AR	VS	S	VS	S	S	R	MS	MS	S	S	S	MR
CL181-AR	VS	S	VS	S	S	R	MS	MR	S	VS	MS	
CL261	MS	MS	S	MS	S	R	S	MR	MS	S	S	
CLXL729	MS	MR	MS	MS	S	R	MR	S	MS	MR	MS	_
CLXL745	MS	MR	MS	MS	S	R	MR	S	MS	MR	MS	_
Cocodrie	MS	S	S	S	S	MR	VS	MS	MS	VS	MS	MS
Rex	MS	S	S	S	S	MS	MS	MR	S	S	MS	MS
Sabine	S	S	S	S	S	R	_	MR	S	S	MS	_
Taggart	MS	S	S	S	S	-	_	MS	S	S	—	_
Templeton	MS	R	S	S	S	_	_	MS	S	S	—	_
Wells	S	S	S	MS	S	MR	MR	S	_	VS	R	_
XL723	MS	MR	MS	MS	S	R	MR	S	MS	MR	MS	_

¹Abbreviations: R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible. Note: These ratings are subject to change as new or further information may become available.

Variety/		Clay soils ¹			Silt loam soils ²	
Hybrid	Preflood	Midseason	Boot Split	Preflood	Midseason	Boot Split
	lb/A	Ib/A	lb/A	lb/A	Ib/A	lb/A
Bowman	120-150	30-60	0	90-120	30-60	0
Catahoula	120-150	30-60	0	90-120	30-60	0
Cheniere	120-150	30-60	0	90-120	30-60	0
CL111	120	45	0	90-120	45	0
CL131	120-150	30-60	0	90-120	30-60	0
CL142-AR ³	120	45	0	90-120	45	0
CL151 ³	90-135	0-45		90	45	0
CL162	120	45	0	90-120	45	0
CL181-AR	120-135	45	0	90-120	45	0
Cocodrie	120-150	30-60	0	90-120	30-60	0
Rex	120-150	45	0	120	45	0
Sabine	120-150	30-60	0	90-120	30-60	0





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