

H. ROUSE CAFFEY RICE RESEARCH STATION

114th Annual Research Report

2022

CROWLEY, LOUISIANA



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114th Annual Research Report

**H. ROUSE CAFFEY
RICE RESEARCH STATION
Crowley, Louisiana**

2022

**Louisiana State University Agricultural Center
Louisiana Agricultural Experiment Station
Louisiana Cooperative Extension Service
Louisiana College of Agriculture
Dr. Matthew Lee, Interim LSU Vice President
of Agriculture**

**H. Rouse Caffey Rice Research Station
Kurt Guidry, Resident Coordinator**

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INTRODUCTION

Research at the H. Rouse Caffey Rice Research Station (HRCRRS), Crowley, LA, is conducted by scientists with the LSU AgCenter's Louisiana Agricultural Experiment Station. The 2022 rice research program included breeding/variety development, biotechnology, variety testing, fertilization, soil and water management, cultural practices, weed control, insect control, disease investigations, rice economics, and agronomy extension programs. Crops grown in rotation with rice were evaluated relative to increasing the efficiency of land use. The aquaculture research program places emphasis upon production practices, forages, and multi-cropping of crawfish with agronomic crops. Another important area of work is the production and distribution of foundation seed. The HRCRRS also conducts research studies in improving species for coastal restoration. In addition, the statewide rice extension agronomist conducts numerous educational programs from the HRCRRS. Although most research work was performed by members of the Rice Station faculty, several faculty members from the Baton Rouge campus conducted research at this station as well.

The research activities of this station include both fundamental and applied research; although, the latter predominates because of the mission of the HRCRRS. Research accomplishments and general progress of the HRCRRS during 2022 are presented in this report representing the 114th Annual Research Report of the H. Rouse Caffey Rice Research Station, Louisiana Agricultural Experiment Station, and LSU Agricultural Center. It is significant that this research facility has been providing new technology to the Louisiana rice industry for more than 100 years.

In addition to research responsibilities of the HRCRRS faculty and cooperators, many farmers, extension personnel, and others were trained and otherwise contacted during 2022. Approximately 300 people attended the annual HRCRRS field day to view plots and participate in discussions of research findings. Field days were also conducted in Acadia, Calcasieu, Evangeline, Jefferson Davis, Morehouse, St. Landry, and Vermilion parishes. In addition, the faculty participated in industry meetings, both on and off the station, and worked individually with farmers and others in solving immediate problems. Several thousand people received services from the HRCRRS during 2022.

Projects at this station are conducted under the supervision of research scientists from the HRCRRS and by cooperating personnel from certain departments of the Louisiana Agricultural Experiment Station. Following the reports, station personnel and cooperators in 2022 are listed.

MONTHLY RAINFALL DATA
H. ROUSE CAFFEY RICE RESEARCH STATION - CROWLEY, LA
2022

DATE	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEAR TOTAL
1							0.04	0.02					
2	0.02				0.14	0.43	1.03	0.05			0.03		
3		0.05				1.42	0.05	0.21					
4		0.37						0.08	2.18				
5				0.31				0.04	0.08		1.80		
6				0.74	0.22				0.08		0.06		
7	0.11						0.13		0.02				
8							0.16	1.12	0.02				
9	0.13		0.08					0.11	0.08				
10	0.02												
11						0.54	0.05	0.12				0.97	
12			0.07	0.06			0.07				0.39	0.16	
13		0.02					0.13			0.40			
14				1.22			0.08	0.07		0.04			
15			1.07				0.59				1.92	1.02	
16				0.03									
17		0.30				0.06							
18			0.10				0.16						
19								0.33	0.03			0.02	
20	1.10										0.69	2.50	
21								0.11			0.03	0.05	
22			1.71			0.07	1.24	0.10					
23					1.59		0.21	0.44					
24		0.05		0.46	0.06		0.20	1.28					
25	0.53				2.20			0.44		0.24	0.92		
26	0.02			1.17	0.20			0.92			0.43		
27		0.02				0.24					1.19		
28							0.06	0.58					
29							0.16	1.02		0.18		0.20	
30						0.05	0.41	0.02			0.33	1.12	
31			1.41		0.02		0.37	0.35					
MONTHLY TOTALS													
2022	1.93	0.81	4.44	3.99	4.43	2.81	5.14	7.41	2.49	0.86	7.79	6.04	48.14
2021	2.54	3.50	2.96	7.04	15.36	15.43	8.13	2.92	8.98	4.60	1.13	1.98	74.57

RICE BREEDING

GENETIC IMPROVEMENT OF RICE FOR LOUISIANA PRODUCTION¹

A.N. Famoso, B. Angira, V.B. Dartez, B.M. Frey, C.W. LeJeune, B.L. Williams, J.L. Thornton, T.R. Vanicor, J.D. Dartez, M.F. Lejeune, W. Li, R. Guerra, J. Manangkil, M.G. Montiel, J. Amores, and P.A. Mosquera

INTRODUCTION

The primary objective of the Rice Breeding Project is the development of superior varieties for the Louisiana rice industry. The Breeding Project is developing improved genotypes of both long- and medium-grain types, which are both important in the state and region. A major area of emphasis is the development of Clearfield and Provisia herbicide-resistant varieties. The project is also placing emphasis on the development of special purpose types.

In addition to the primary objective of varietal development, the Breeding Project also conducts other research that may have direct and/or indirect contributions for varietal development. Included here are studies on milling quality, mutation breeding, date of planting, and herbicide tolerance of new varieties and experimental lines.

The 2022 rice breeding nursery included more than 38,000 breeding rows. Over 560 new breeding crosses were made, and approximately 25 populations were screened in the greenhouse through Marker-Assisted Selection (MAS) focusing primarily on key traits, such as amylose, gel temp, grain shape, aroma, plant height, and blast resistance. On- and off-station testing included over 10,000 yield plots. Preliminary Yield testing (PYT) included 1,090 new lines evaluated in 2,180 plots. In 2022, the Regional Yield Test (RYT) consisted of 162 entries in their second year of yield testing. The RYT was conducted over four locations and 1,296 plots. Advanced stages of testing included the Cooperative Uniform Regional Rice Nursery (URRN), which contained 50 experimental lines and checks (10 Louisiana entries). The Advanced Yield Trial (AYT) consisted of 56 entries and was tested across eight locations totaling 1,236 plots. The Pre-Commercial (PC) test was initiated in 2021 through a collaboration with the University of Arkansas, Horizon Ag., and Nutrien Ag. In 2022, the PC test was conducted at 23 locations and included 20 entries in 1,725 plots.

¹ This research is supported in part by funding provided by rice producers through the Louisiana Rice Research Board.

PRE-COMMERCIAL TRIAL

The Pre-Commercial (PC) trial is a multi-location test conducted in collaboration with the University of Arkansas, Horizon Ag., and Nutrien Ag. The PC test was conducted at 23 locations and included 20 entries and five checks. The objective of this trial is to evaluate the adaptation and stability of commercial rice varieties and advanced experimental lines for several important agronomic and yield characteristics.

Test locations in 2022 included two at the H. Rouse Caffey Rice Research Station (HRCRRS) and 21 on-farm test sites throughout Louisiana and southern Texas and Arkansas. Planting and harvesting dates are shown in Table 1 across all locations.

Twenty entries were tested in a randomized complete block design with four replications. Varieties and hybrids were seeded at 90 and 38 lb/A, respectively. Entries are listed in Table 2. Results from these trials are shown in Table 3.

Table 1. Planting and harvesting dates for the Pre-Commercial trial in 2022.

Location	Trial	State	Program	Researcher	Planting	Harvesting
Bay City	21PC_BC	TX	Nutrien	Q. Shao	3/17	8/1
Desha County	21PC_DES	AR	UA Agronomy	J. Hardke	5/20	9/28
Lake Arthur	21PC_LA	LA	LSU Breeding	A. Famoso	3/18	8/8
Lawrence County	21PC_LAW	AR	UA Agronomy	J. Hardke	5/10	9/21
Mamou	21PC_MM	LA	LSU Breeding	A. Famoso	3/29	8/11
Mowata	21PC_MW_Agro	LA	LSU Agronomy	M. Kongchum	3/21	8/17
Northeast Res & Ext Ctr	21PC_NEREC_1	AR	UA Breeding	X. Sha	5/13	9/28
Northeast Res & Ext Ctr	21PC_NEREC_2	AR	UA Agronomy	J. Hardke	5/18	10/13
Northeast Rice Res & Ext Ctr	21PC_NERICE	AR	UA Agronomy	J. Hardke	4/28	9/23
Nutrien Rice Breeding Stn	21PC_NAS	TX	Nutrien	Q. Shao	3/29	8/3
Palmetto/St. Landry	21PC_PL_Agro	LA	LSU Agronomy	M. Kongchum	3/29	8/16
Pine Tree Research Station	21PC_PTRS_1	AR	UA Breeding	X. Sha	5/5	9/20
Pine Tree Research Station	21PC_PTRS_2	AR	UA Agronomy	J. Hardke	5/9	9/22
Rice Res & Ext Ctr	21PC_RREC_1	AR	UA Breeding	X. Sha	4/11	8/31
Rice Res & Ext Ctr	21PC_RREC_2	AR	UA Breeding	X. Sha	5/10	9/19
Rice Res & Ext Ctr	21PC_RREC_3	AR	UA Agronomy	J. Hardke	3/29	9/9
Rice Research Station	21PC_RRS	LA	LSU Breeding	A. Famoso	3/4	7/26
Rice Research Station	21PC_RRS_Agro	LA	LSU Agronomy	M. Kongchum	3/17	8/1
Rice Research Station	21PC_RRS_Late	LA	LSU Breeding	A. Famoso	4/8	8/12
Rice Research Station South	21PC_SF	LA	LSU Breeding	A. Famoso	3/14	8/4
St. Joseph	21PC_SJ	LA	LSU Breeding	A. Famoso	5/5	9/15
Winnsboro	21PC_WB	LA	LSU Breeding	A. Famoso	4/11	9/9
Wintermann Rice Res Stn	21PC_WRRS	TX	TAMU	J. Samford	4/11	8/17&22

Table 2. Entry number, pedigree, grain type, and source information for entries in the Pre-Commercial trial, 2022.

Herbicide Type	Entry	Line	Pedigree	Grain Type [†]	Source [‡]
CN	1	Addi Jo	Thad/Catahoula	LG	LAES
PV	2	RU2102186	PVL01/Catahoula	LG	LAES
CN	3	RU2102037	RoyJ/CL153	LG	LAES
CL	4	RU2102222	CL172/LaKast	LG	LAES
CL	5	RU2102217	CL161//Cocodrie/9770532DH2/3/Cypress/Kaybonnet// RU9502008A/4/Catahoula/5/CL172/6/CL172	LG	LAES
CN	6	Ozark	Diamond/LaKast	LG	AAES
CL	7	RU1801101	CL172/RU1102034	LG	AAES
CL	8	RU2101177	RoyJ/CL142-AR	LG	AAES
CL	9	RU2101234	Earl/PI350298//Jupiter/3/RU1501096	MG	AAES
CN	10	Taurus	Rico 1/Bengal//RU0602162/RU0502031	MG	AAES
CN	11	DGL2065	TRNS//CCDR/JEFF/4/9502008-A//AR 1188/CCDR/3/ CCDR/JEFF	LG	Nutrien
CN	12	DGM004	CATAHOULA/3/TRNS//9502008-A/DREW	MG	Nutrien
CN (Hybrid)	13	DG3H20004	DGL-G105A x DG263L	LG	Nutrien
CN (Hybrid)	14	DG3H20363	DGL-G107A x DG263L	LG	Nutrien
CN (Hybrid)	15	DG3H20408	DGL-G106A x 21DGL032	LG	Nutrien
CL	16	CLL18		LG	AAES
CL	17	RU1902026	Wells/CL161//Drew/CL161/3/Cheniere//Cocodrie/Jefferson	LG	LAES
CL	18	RU2102150	CL163/CL153	LG	LAES
PV	19	RU2201021	18SIT0557*3/HPHI2	LG	AAES
CL	20	RU2004071	Bowman/RU1004083	LG	MAES
CL	21	CLL16		LG	AAES
PV	22	PVL03	PVL01/Catahoula	LG	LAES
CN (Hybrid)	23	XP753		LG	RiceTec
CN	24	Jupiter		MG	LAES
CN	25	DG263L	Bowman/RU1004083	LG	Nutrien

[†] LG = Long grain, MG = Medium grain, AI = Long-grain aromatic-Della type, AL = Long-grain aromatic-Jazzman type, and HI = Long-grain high amylose-Dixiebelle type

[‡] LAES – H. Rouse Caffey Rice Research Station, Louisiana Agricultural Experiment Station, LSU AgCenter, Rayne; AAES – Arkansas Agricultural Experiment Station, Stuttgart, AR; MAES – Delta Research and Extension Center, Stoneville, MS; TAES, USDA – Texas A&M Research and Education Center, Texas Agricultural Experiment Station, U.S. Department of Agriculture, Beaumont, TX; RiceTec, Alvin, TX; and Nutrien Ag Solutions.

Table 3. Grain and milling yields and agronomic performance of entries in the 2022 Pre-Commercial trial.

ENT	NAME	VIG ¹ *	HDT*	HTE* (cm)	WHOLE* (%)	TOTAL* (%)	CHALK* (%)	YIELD* (lb/A)
15	DG3H20408	4.9	87.4	106.4	57.7	68.4	21.0	10940.9
23	XP753	4.7	80.7	110.5	60.5	70.1	26.1	10877.4
14	DG3H20363	5.5	85.3	106.5	59.9	67.7	27.7	10413.0
13	DG3H20004	5.0	85.6	109.1	60.4	67.5	26.4	10389.3
16	CLL18	3.0	86.3	105.9	57.5	66.8	29.3	9422.4
5	RU2102217	3.5	80.8	91.4	56.5	69.4	27.3	9412.7
21	CLL16	4.0	88.8	106.7	58.5	67.9	21.6	9169.7
25	DG263L	3.6	81.3	97.9	59.7	67.6	21.2	9155.9
6	Ozark	3.8	85.6	101.7	58.7	68.5	29.2	9135.1
9	RU2101234	3.7	87.7	96.2	61.8	67.1	19.3	9128.5
8	RU2101177	3.0	87.6	104.6	59.1	67.3	28.1	9127.1
17	RU1902026	3.6	82.0	93.1	62.0	68.9	27.3	9064.3
4	RU2102222	4.0	84.1	89.8	64.9	70.4	15.5	9058.1
7	RU1801101	3.1	84.3	100.8	64.5	69.4	18.1	8923.7
10	Taurus	3.1	82.2	86.9	61.8	69.4	14.2	8859.7
18	RU2102150	4.2	83.8	97.2	62.8	68.6	21.0	8707.6
11	DGL2065	3.9	83.1	94.3	65.0	70.3	20.2	8656.0
3	RU2102037	3.7	85.8	92.0	62.5	69.1	24.6	8531.6
2	RU2102186	3.1	83.4	100.3	61.0	69.6	18.4	8514.6
22	PVL03	2.7	84.1	102.6	62.1	70.2	17.6	8474.9
19	RU2201021	4.9	86.0	102.9	62.2	69.0	18.5	8312.3
20	RU2004071	3.8	90.7	102.6	60.4	67.6	19.8	7961.3
12	DGM004	3.0	85.1	90.8	63.7	69.5	18.3	7869.8
1	Addi Jo	3.3	89.6	96.7	61.6	68.7	22.2	7556.6
24	Jupiter	3.8	86.9	91.3	62.6	67.5	24.9	7549.4

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

* Not all traits rated at all locations. Vigor average calculated from eight tests. Days to 50% Heading average calculated from 12 tests. Plant height average calculated from 14 tests. Whole and Total averages calculated from 12 tests. Percent Chalk average calculated from five tests. Yield average calculated from 23 tests.

ADVANCED YIELD TRIAL

The Advanced Yield Trial (AYT), formerly known as the Commercial Advanced (CA) trial, is a multi-location test conducted by the Rice Breeding Project in the major rice growing regions in Louisiana. The objective of this trial is to evaluate the adaptation and stability of commercial rice varieties and advanced experimental lines for a number of important agronomic and yield characteristics.

Test locations in 2022 included three at the H. Rouse Caffey Rice Research Station (HRCRRS) and five on-farm test sites in Evangeline (MM), Franklin (WB), Tensas (SJ), St. Landry (PL), and Vermilion (LK) parishes. Tests were divided by herbicide type (Clearfield, Conventional, and Provisia) in all locations. Planting and harvesting dates are shown in Table 1 across all locations.

Fifty-six entries were tested in a randomized complete block design with two replications. Varieties and hybrids were seeded at 90 and 38 lb/A, respectively. Entries are listed in Table 2. Results from these trials are shown in Tables 3-24.

Table 1. Planting and harvesting dates for the Advanced Yield Trial in 2022.

Location	Trial	Planting	Harvesting
HRCRRS	AYT-CL-RRS	3/2	7/29
	AYT-CN-RRS	3/3	7/26
	AYT-PV-RRS	3/4	7/25
HRCRRS-Late	AYT-CL-RRSL	4/19	8/14
	AYT-CN-RRSL	3/9	8/1
	AYT-PV-RRSL	4/4	8/6
HRCRRS-South Farm	AYT-CL-SF	3/14	8/5
	AYT-CN-SF	3/14	8/4
	AYT-PV-SF	3/14	8/5
Evangeline (Mamou)	AYT-CL-MM	3/29	8/11
Franklin (Winnsboro)	AYT-CL-WB	4/11	9/9
	AYT-CN-WB	4/11	9/9
	AYT-PV-WB	4/11	9/9
Tensas (St. Joseph)	AYT-CL-SJ	5/5	9/15
	AYT-CN-SJ	5/5	9/15
	AYT-PV-SJ	5/5	9/15
St. Landry (Palmetto)	AYT-CL-PL	3/29	8/16
	AYT-CN-PL	3/29	8/16
	AYT-PV-PL	3/29	8/16
Vermilion (Lake Arthur)	AYT-CL-LK	3/18	8/8
	AYT-CN-LK	3/18	8/8
	AYT-PV-LK	3/18	8/8

Table 2. Entry number, pedigree, grain type, and source information for entries in the Advanced Yield Trial, 2022.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CL	1	202A1735	CL-Jazzman/4/Jazzman/08CLR004//RU0802146/3/Jazzman2	AL	LAES
CL	2	202L1120	CL172/Catahoula	LG	LAES
CL	3	202L1336	CL153/CL172	LG	LAES
CL	4	202L1480	CL153/CL172	LG	LAES
CL	5	202L1534	RU9502008A/Drew//CLR20/3/Trenasse//Cocodrie/Jefferson/6/ Tacauri/3/Cypress//82CAY21/Tebonnet/4/CL161/5/Cheniere	LG	LAES
CL	6	202M1133	172M1646/Titan	MG	LAES
CL	7	202M1143	Jupiter/CL272	MG	LAES
CL	8	MPB_279	CL153/LaKast	LG	LAES
CL	9	RU1902026	Wells/CL161//Drew/CL161/3/Cheniere//Cocodrie/Jefferson	LG	LAES
CL	10	RU1902034	Cocodrie/Drew//CLR20/3/Cypress/Kaybonnet//Cocodrie/6/ Katy/Cypress//Newbonnet/Katy/3/Cocodrie/4/CLR9/5/ Cocodrie/Tacauri//CLR5	LG	LAES
CL	11	RU2102030	CL163/CL153	HI	LAES
CL	12	RU2102150	CL163/CL153	HI	LAES
CL	13	RU2102162	CL172/RU1502115	LG	LAES
CL	14	RU2102217	CL161//Cocodrie/9770532DH2/3/Cypress/Kaybonnet// RU9502008A/4/Catahoula/5/CL172/6/CL172	LG	LAES
CL	15	RU2102222	CL172/LaKast	LG	LAES
CL	16	RU2202037	Jupiter/CL272	MG	LAES
CL	17	CL153	RU9502008A//Ahrent/Cocodrie/3/CFX26/RU9702128/4/ Cheniere	LG	LAES
CL	18	CLL16	248WE16I5/Taggart/7/248DREW16C13/6/LaGrue//KATY/ Starbonnet/5/Newbonnet/KATY//RA73/Lemont/4/Lebonnet/ 71CR5038/3/Dawn/STG653888//Starbonnet	LG	AAES
CL	19	CLL17	CL131/Trenasse	LG	LAES
CL	20	CLM04	RU1202168/Jupiter	MG	AAES
CN	1	201L1027	Mermentau/Cheniere	LG	LAES
CN	2	201L1051	Jazzman2/Catahoula	LG	LAES
CN	3	201L1148	RU1902126/RU1802162	LG	LAES
CN	4	201L1251	Catahoula/LaKast	LG	LAES
CN	5	201L1288	Catahoula/LaKast	LG	LAES
CN	6	201L1324	Katy/Cypress/4/Catahoula/3/Trenasse//RU9502008A/Drew	LG	LAES
CN	7	201M1064	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/ 4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/ Mars	MG	LAES
CN	8	201M1065	Titan/Jupiter	MG	LAES
CN	9	201M1122	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/ 4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/ Mars	MG	LAES
CN	10	Addi Jo	Thad/Catahoula	HI	LAES
CN	11	Avant	Trenasse//Cocodrie/Jefferson/3/Ahrent/Cocodrie//Cocodrie/ LaGrue	LG	LAES
CN	12	Cheniere	Newbonnet/Katy/3/L202/Lemont//L202	LG	LAES
CN	13	DG263L		HI	Nutrien
CN	14	LAH200		MG	LAES
CN	15	LSU_Basmati	L202/Leah//Toro/3/IR67016	LG	LAES
CN	16	Mermentau	Ahrent/Cocodrie//Cocodrie/Lagrué	LG	LAES
CN	17	RU2002166	Jazzman2/Catahoula	AL	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type [†]	Source [‡]
CN	18	RU2002182	Cypress/Kaybonnet//RU9502008A/3/Cocodrie/Jefferson/4/ Mermentau	LG	LAES
CN	19	RU2102037	RoyJ/CL153	LG	LAES
CN	20	RU2102066	Titan/Jupiter	MG	LAES
CN	21	RU2102070	Titan/Jupiter	MG	LAES
CN	22	RU2102122	Catahoula/Mermentau	LG	LAES
CN	23	RU2102158	Thad/Catahoula	HI	LAES
CN	24	RU2102207	Jazzman2/Catahoula	AI	LAES
PV	1	203L1011	RU1502115/PVL01	LG	LAES
PV	2	203L1068	Trenasse/PV_BASF//Presidio/PV_BASF	LG	LAES
PV	3	203L1086	RU1402091/PV17TA75	LG	LAES
PV	4	203L1103	PVL081/CL172	LG	LAES
PV	5	203L1104	RU1502115/PVL01	LG	LAES
PV	6	203L1117	PVL081/CL172	LG	LAES
PV	7	203L1177	RU1702103/PVL01	LG	LAES
PV	8	PVL02	Cheniere/PV_BASF	LG	LAES
PV	9	PVL03	PVL01/Catahoula	LG	LAES
PV	10	RU2002070	PVL01/Catahoula	LG	LAES
PV	11	RU2002174	PVL01/Catahoula	LG	LAES
PV	12	RU2102186	PVL01/Catahoula	LG	LAES

[†] LG = Long grain, MG = Medium grain, AI = Long-grain aromatic-Della type, AL = Long-grain aromatic-Jazzman type, and HI = Long-grain high amylose-Dixiebelle type

[‡] LAES – H. Rouse Caffey Rice Research Station, Louisiana Agricultural Experiment Station, LSU AgCenter, Rayne; AAES – Arkansas Agricultural Experiment Station, Stuttgart, AR; MAES – Delta Research and Extension Center, Stoneville, MS; TAES, USDA – Texas A&M Research and Education Center, Texas Agricultural Experiment Station, U.S. Department of Agriculture, Beaumont, TX; RiceTec, Alvin, TX; and Nutrien Ag Solutions.

Table 3. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial - Clearfield.
H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
14	RU2102217	4.3	85.7	90.7	59.8	69.9		10685.5
4	202L1480	4.3	86.0	99.3	65.4	71.0		10338.8
10	RU1902034	4.3	85.7	94.7	60.5	69.1		10185.5
9	RU1902026	4.3	85.7	92.7	60.9	68.5		10026.9
16	RU2202037	4.3	87.7	94.0	63.2	66.5		10005.7
17	CL153	5.0	87.7	96.7	64.4	70.6		9876.4
12	RU2102150	4.3	87.0	93.3	61.4	68.5		9857.3
2	202L1120	3.0	87.0	97.0	64.8	70.6		9818.9
15	RU2102222	5.0	87.7	90.0	64.8	71.6		9794.9
5	202L1534	3.0	87.3	90.7	66.1	71.3		9753.3
19	CLL17	4.3	89.0	100.7	63.7	68.8		9704.4
13	RU2102162	4.3	86.7	96.7	61.8	69.8		9673.8
3	202L1336	3.7	87.0	94.0	63.2	70.3		9612.0
8	MPB_279	5.0	86.0	89.7	62.2	70.1		9519.1
11	RU2102030	5.0	86.0	98.3	66.1	71.1		9461.5
18	CLL16	3.0	93.0	99.0	56.1	66.0		9329.8
6	202M1133	4.3	88.7	88.3	61.9	65.8		8747.1
20	CLM04	5.0	90.0	94.3	64.4	67.2		8580.2
1	202A1735	4.3	93.0	90.7	58.9	66.9		8523.8
7	202M1143	5.0	89.3	86.3	62.2	65.6		8367.3

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 4. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial – Conventional. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
3	201L1148	3.0	87.7	96.0	53.8	66.2	23.6	10864.0
14	LAH200	7.0	90.7	110.7	61.2	66.3	16.8	10635.5
4	201L1251	4.3	86.7	92.3	56.5	68.1	18.3	9913.7
11	Avant	4.3	80.3	91.0	58.6	67.5	18.9	9610.4
19	RU2102037	5.0	86.0	88.7	61.5	68.2	22.2	9450.3
18	RU2002182	3.7	84.0	93.3	56.4	66.4	22.1	9313.3
16	Mermentau	4.3	84.0	91.3	58.8	66.9	24.2	9019.0
6	201L1324	3.0	84.7	95.3	58.6	67.7	28.5	8999.2
22	RU2102122	3.7	85.7	96.3	60.0	68.1	21.1	8996.1
5	201L1288	3.7	85.0	91.7	56.8	67.6	25.8	8959.5
17	RU2002166	5.0	83.0	94.7	59.1	68.0	10.3	8932.2
23	RU2102158	3.0	85.3	92.0	52.9	66.0	21.3	8718.7
10	Addi Jo	3.7	89.3	94.7	52.7	64.6	18.8	8700.3
13	DG263L	4.3	87.7	94.3	53.1	63.1	16.7	8694.1
20	RU2102066	4.3	86.3	89.7	62.6	66.5	23.4	8440.9
12	Cheniere	4.3	88.7	92.3	59.9	69.3	9.4	8328.0
1	201L1027	5.0	87.0	95.0	60.5	67.3	13.2	8325.2
24	RU2102207	5.0	82.7	92.0	53.6	69.0	23.6	8254.0
2	201L1051	5.0	85.3	92.7	59.7	67.7	22.2	8243.2
21	RU2102070	5.0	85.7	90.0	65.0	67.5	20.6	8100.3
7	201M1064	3.7	86.7	82.3	67.2	70.4	21.3	8083.8
8	201M1065	5.0	92.3	90.3	59.8	63.2	26.9	7920.0
9	201M1122	3.7	86.0	80.0	66.7	70.2	19.0	7847.8
15	LSU Basmati	3.0	85.3	91.3	53.2	67.5	12.3	6786.2

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 5. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial - Provisia.
H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
12	RU2102186	3.0	84.3	94.7	57.8	69.3	13.3	8172.0
2	203L1068	5.0	82.3	97.7	61.4	68.7	10.9	7737.7
7	203L1177	5.0	89.0	94.0	48.1	65.2	16.4	7736.9
6	203L1117	3.0	84.7	92.7	61.0	69.3	22.1	7606.9
8	PVL02	3.7	83.7	101.3	64.5	70.0	16.0	7527.3
10	RU2002070	4.3	89.7	97.0	58.2	69.1	10.6	7430.7
9	PVL03	2.3	83.7	97.0	56.0	68.7	19.7	7291.0
3	203L1086	3.0	81.3	85.0	50.9	68.2	21.8	6946.6
4	203L1103	5.0	87.7	87.7	57.9	68.0	6.9	6794.7
5	203L1104	5.0	92.3	90.7	58.2	66.7	21.0	6616.2
11	RU2002174	4.3	84.7	95.0	58.5	70.1	9.8	6215.8
1	203L1011	4.3	89.7	95.7	59.8	68.1	14.8	6000.1

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 6. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial - Clearfield. H. Rouse Caffey Rice Research Station, Rayne, LA – Late planting.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
14	RU2102217	3.7	70.3	94.0	56.3	66.6	19.2	10071.9
9	RU1902026	3.7	70.7	98.7	59.3	66.4	17.3	9995.2
10	RU1902034	4.3	70.7	101.0	60.0	66.9	16.1	9669.6
4	202L1480	3.7	70.3	104.3	59.2	66.3	10.5	9429.7
12	RU2102150	3.7	72.3	99.7	59.0	65.1	10.2	9395.6
15	RU2102222	5.0	72.0	91.7	61.3	67.5	9.3	9386.7
19	CLL17	3.0	69.7	101.7	57.2	64.7	12.5	9368.2
11	RU2102030	3.0	71.7	101.3	61.1	66.7	11.2	9208.4
17	CL153	3.0	71.7	105.7	59.8	66.2	11.9	9188.9
2	202L1120	3.0	72.3	103.3	60.7	68.2	16.1	9068.4
3	202L1336	4.3	73.0	92.7	60.1	66.5	6.9	8965.0
18	CLL16	3.0	76.3	107.7	49.5	60.7	8.2	8911.1
5	202L1534	3.0	72.0	95.0	60.9	67.8	9.8	8769.4
13	RU2102162	3.0	71.7	103.3	59.4	66.6	10.2	8698.1
20	CLM04	3.0	78.0	105.0	56.1	62.0	10.0	8478.8
7	202M1143	5.0	78.3	91.0	55.8	62.0	12.1	8392.4
8	MPB_279	5.0	70.3	91.0	60.1	67.2	16.4	8323.2
16	RU2202037	3.7	72.0	93.0	61.0	66.3	9.9	8295.0
6	202M1133	5.0	76.3	92.3	54.4	62.1	14.7	7615.5
1	202A1735	4.3	77.0	89.3	45.6	61.2	9.3	7397.7

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 7. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial - Conventional. H. Rouse Caffey Rice Research Station, Rayne, LA – Late planting.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
14	LAH200	7.0	87.0	116.3	64.6	68.7	17.0	10841.3
3	201L1148	3.7	85.0	94.0	59.3	69.0	27.6	10306.4
4	201L1251	5.0	84.0	94.7	60.0	68.5	22.7	9785.1
23	RU2102158	3.7	83.0	90.0	59.2	68.4	26.3	9320.1
11	Avant	4.3	78.0	91.0	63.6	69.8	23.8	9264.8
19	RU2102037	4.3	83.7	89.7	63.9	69.4	24.6	9168.0
12	Cheniere	5.0	83.3	92.3	65.9	71.7	14.3	9071.4
10	Addi Jo	4.3	84.7	97.0	59.4	68.5	20.6	8947.5
5	201L1288	4.3	83.0	90.0	63.4	70.1	29.0	8885.5
18	RU2002182	3.7	81.7	86.0	60.9	68.4	28.7	8835.8
13	DG263L	5.0	83.7	96.3	57.4	66.7	18.6	8820.7
1	201L1027	4.3	83.0	94.0	64.2	69.5	20.0	8637.0
6	201L1324	4.3	82.0	93.7	63.5	70.0	28.2	8586.2
16	Mermentau	4.3	82.3	90.0	62.7	69.3	27.0	8480.6
22	RU2102122	3.7	83.7	98.3	64.6	70.0	27.9	8431.4
8	201M1065	5.0	87.0	91.7	61.7	64.7	25.6	8347.1
17	RU2002166	3.7	81.0	90.0	64.3	70.1	11.4	8321.4
9	201M1122	3.7	83.0	77.0	68.8	71.9	20.2	8202.6
21	RU2102070	4.3	82.3	81.0	65.6	67.8	23.5	7872.7
24	RU2102207	5.0	82.0	89.0	62.4	71.2	24.9	7733.6
2	201L1051	6.3	83.7	94.0	63.5	69.4	23.1	7481.5
20	RU2102066	5.0	83.3	81.0	65.3	68.3	25.4	7421.5
15	LSU_Basmati	3.0	83.0	90.7	59.9	68.9	15.1	6913.9
7	201M1064	3.7	82.7	78.7	66.6	70.8	24.0	6882.1

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 8. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial - Provisia.
H. Rouse Caffey Rice Research Station, Rayne, LA – Late planting.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
5	203L1104		80.0	102.0	55.1	64.7	15.7	8849.8
2	203L1068		72.0	107.0	61.5	68.1	5.5	8664.5
6	203L1117		73.0	104.3	61.7	69.1	18.6	8333.3
12	RU2102186		74.0	103.7	56.7	68.3	16.2	8312.6
9	PVL03		75.7	110.3	59.9	69.7	11.9	8303.1
4	203L1103		74.7	97.0	50.6	64.0	12.0	8089.0
7	203L1177		76.0	105.7	50.0	65.1	12.3	7744.7
3	203L1086		72.3	97.3	54.3	68.2	20.7	7672.3
10	RU2002070		79.7	106.7	54.4	66.2	9.4	7450.6
1	203L1011		76.7	106.0	58.6	66.4	10.7	7446.6
11	RU2002174		76.0	108.3	57.8	67.5	9.9	7039.5
8	PVL02		73.0	115.3	60.1	69.4	12.4	3935.7

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 9. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial - Clearfield.
H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
18	CLL16	3.7	86.3	109.0	56.7	67.3	24.5	10190.0
15	RU2102222	5.7	81.3	91.0	63.4	70.2	17.7	9874.5
13	RU2102162	5.7	81.7	105.3	62.9	70.7	20.2	9524.4
14	RU2102217	5.0	79.0	92.3	55.3	69.3	26.2	9494.8
2	202L1120	3.0	81.3	99.0	62.6	70.4	18.6	9264.5
8	MPB_279	5.0	79.3	93.7	60.1	68.7	21.9	9047.4
12	RU2102150	5.0	82.3	97.0	62.4	68.4	22.9	9034.8
16	RU2202037	4.3	82.0	94.0	65.4	69.3	16.4	8983.5
3	202L1336	3.7	81.0	94.0	60.2	67.7	18.0	8950.0
7	202M1143	5.7	87.0	90.7	66.0	69.4	18.5	8920.7
5	202L1534	3.7	82.0	91.0	63.7	70.3	14.2	8808.2
17	CL153	3.7	81.3	99.3	63.9	69.7	21.2	8710.0
20	CLM04	5.0	86.0	103.7	65.1	68.5	16.5	8586.8
11	RU2102030	4.3	80.0	97.7	64.1	69.3	21.0	8512.0
10	RU1902034	4.3	80.0	99.7	60.4	68.4	27.0	8473.1
6	202M1133	4.3	83.3	92.3	62.9	67.6	18.8	8434.4
4	202L1480	4.3	79.0	105.7	61.9	69.4	15.2	8355.7
1	202A1735	5.0	87.0	92.3	58.3	67.3	17.3	7679.3
9	RU1902026	5.0	78.3	95.3	59.3	67.7	26.0	7417.0
19	CLL17	3.0	82.0	96.0	61.0	68.1	19.4	3790.6

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 10. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial – Conventional. H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
14	LAH200	3.7	84.0	116.7	60.4	66.7	20.1	11530.3
5	201L1288	3.0	81.3	99.7	56.3	66.1	22.8	10979.8
6	201L1324	3.0	81.7	101.7	61.0	68.5	24.6	10814.9
22	RU2102122	3.7	82.7	102.0	60.2	67.2	21.3	10747.1
4	201L1251	3.0	82.3	101.3	56.8	67.1	21.4	10670.5
2	201L1051	4.3	82.0	100.3	56.5	67.8	24.5	10538.9
3	201L1148	3.0	84.0	102.0	56.1	66.7	23.2	10393.4
19	RU2102037	4.3	82.3	95.0	57.7	66.7	26.8	10305.4
8	201M1065	4.3	86.0	94.0	62.6	66.6	24.6	10195.9
23	RU2102158	4.3	82.7	95.7	55.0	66.7	24.4	10179.5
20	RU2102066	5.0	82.0	93.0	60.9	66.1	21.6	10001.5
21	RU2102070	3.7	81.7	92.3	61.5	67.4	22.6	9970.8
10	Addi Jo	2.3	85.0	102.0	55.3	66.6	14.2	9904.7
7	201M1064	2.3	82.7	90.0	59.4	67.4	21.0	9807.6
18	RU2002182	3.0	81.3	99.0	56.4	66.0	23.4	9751.8
13	DG263L	4.3	83.0	101.0	56.3	66.4	20.4	9686.9
9	201M1122	2.3	82.3	82.0	60.0	67.2	21.6	9391.5
1	201L1027	4.3	83.0	101.0	59.9	67.7	15.6	9079.5
17	RU2002166	3.0	79.7	98.3	58.0	67.0	17.8	8862.7
16	Mermentau	3.7	81.0	97.3	58.4	66.8	19.0	8832.5
12	Cheniere	4.3	83.0	99.7	58.8	68.8	15.4	8807.0
24	RU2102207	3.0	79.3	99.7	55.8	67.5	17.3	8741.1
11	Avant	2.3	76.3	94.0	56.2	66.1	19.4	7856.3
15	LSU Basmati	2.3	81.0	101.7	53.2	66.2	17.1	7588.5

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 11. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial - Provisia.
H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
10	RU2002070	4.3	87.0	101.0	59.7	69.6	11.2	11090.2
9	PVL03	2.3	81.0	101.7	59.2	69.6	17.8	10885.9
12	RU2102186	3.7	81.7	99.7	53.6	67.9	18.4	10330.1
11	RU2002174	4.3	83.0	105.0	60.1	70.2	10.4	10278.8
1	203L1011	4.3	84.7	100.7	62.3	69.9	18.4	10152.3
5	203L1104	5.0	87.3	98.3	60.1	68.0	19.5	9618.3
2	203L1068	4.3	78.0	101.7	57.2	67.0	8.6	9480.4
6	203L1117	3.7	80.0	104.0	58.6	68.6	17.8	8923.3
4	203L1103	5.0	83.0	96.0	48.6	64.4	13.9	8762.0
7	203L1177	3.7	84.3	103.7	47.4	65.7	15.3	8754.4
3	203L1086	3.0	78.7	93.0	49.9	67.6	22.5	8483.2
8	PVL02	3.6	80.3	108.1	61.9	69.3	17.6	5859.3

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 12. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial – Clearfield. Mamou, Evangeline Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
9	RU1902026			94.3	59.8	67.1	23.6	11279.5
18	CLL16			108.0	54.7	66.2	15.3	11167.3
10	RU1902034			102.7	59.4	66.7	24.7	10920.2
2	202L1120			101.7	60.0	69.0	20.0	10912.6
11	RU2102030			101.3	62.4	68.6	15.4	10823.5
5	202L1534			95.7	62.7	69.6	11.0	10761.1
14	RU2102217			91.0	54.0	66.8	25.7	10731.5
12	RU2102150			96.7	60.9	68.2	19.7	10655.0
4	202L1480			104.3	64.4	70.0	10.8	10637.2
13	RU2102162			99.3	59.6	68.7	19.6	10542.9
19	CLL17			100.7	60.0	67.2	17.1	10491.5
16	RU2202037			91.3	62.2	66.5	16.5	10452.0
17	CL153			103.3	61.7	68.7	16.1	10430.9
15	RU2102222			88.3	60.7	69.4	16.1	10107.8
8	MPB_279			92.0	57.1	66.4	21.6	9880.6
7	202M1143			88.7	59.9	64.6	14.9	9360.1
3	202L1336			90.0	61.5	67.9	12.7	9353.7
20	CLM04			103.3	62.3	67.5	11.2	9310.0
1	202A1735			83.7	56.2	64.7	16.5	8332.1
6	202M1133			95.0	60.5	64.4	15.6	7729.2

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 13. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial - Clearfield. Winnsboro, Franklin Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
20	CLM04							8720.9
7	202M1143							8490.7
15	RU2102222							8103.4
18	CLL16							7852.5
4	202L1480							7813.2
3	202L1336							7711.4
16	RU2202037							7565.4
11	RU2102030							7467.5
2	202L1120							7439.4
5	202L1534							7353.5
12	RU2102150							7145.7
6	202M1133							7131.3
10	RU1902034							7036.8
8	MPB_279							7026.7
14	RU2102217							6784.3
17	CL153							6735.5
13	RU2102162							6718.4
9	RU1902026							6377.6
1	202A1735							5722.9
19	CLL17							5680.5

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 14. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial – Conventional. Winnsboro, Franklin Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
14	LAH200							10354.1
13	DG263L							9664.6
7	201M1064							9197.3
4	201L1251							9120.9
5	201L1288							8954.2
9	201M1122							8899.9
3	201L1148							8881.0
21	RU2102070							8864.9
11	Avant							8791.8
20	RU2102066							8671.5
19	RU2102037							8666.3
18	RU2002182							8645.0
8	201M1065							8513.6
6	201L1324							8474.5
22	RU2102122							8347.7
1	201L1027							8224.0
12	Cheniere							8191.2
16	Mermentau							8174.4
2	201L1051							8155.2
23	RU2102158							7626.2
17	RU2002166							7472.3
10	Addi Jo							7249.5
15	LSU_Basmati							6124.2
24	RU2102207							5312.4

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 15. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial - Provisia, Winnsboro, Franklin Parish, LA.

ENT	NAME	VIG¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
4	203L1103							8930.9
3	203L1086							8156.2
10	RU2002070							8142.7
5	203L1104							7916.7
7	203L1177							7889.6
8	PVL02							7837.4
11	RU2002174							7781.4
1	203L1011							7638.5
9	PVL03							7557.3
2	203L1068							7259.8
12	RU2102186							7076.3
6	203L1117							7060.9

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 16. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial – Clearfield. St. Joseph, Tensas Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
9	RU1902026			100.0				9173.1
18	CLL16			109.0				8757.4
14	RU2102217			87.0				8657.1
10	RU1902034			101.7				8530.4
15	RU2102222			94.7				8485.8
11	RU2102030			102.0				8388.7
16	RU2202037			99.3				8264.8
7	202M1143			92.7				8207.1
17	CL153			103.0				8081.8
12	RU2102150			100.3				7835.9
4	202L1480			102.0				7812.8
5	202L1534			96.0				7812.4
13	RU2102162			107.7				7781.4
19	CLL17			97.3				7752.5
20	CLM04			109.0				7680.2
6	202M1133			97.0				7507.1
8	MPB_279			89.0				7370.6
2	202L1120			104.7				7334.9
1	202A1735			86.3				7040.8
3	202L1336			94.0				6846.0

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 17. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial – Conventional. St. Joseph, Tensas Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
14	LAH200			120.3				10298.0
3	201L1148			101.7				8645.9
13	DG263L			96.7				8342.4
23	RU2102158			100.3				7406.5
11	Avant			95.7				7317.6
12	Cheniere			101.3				7200.2
16	Mermentau			103.3				6886.0
19	RU2102037			93.0				6725.7
1	201L1027			102.3				6706.9
17	RU2002166			96.0				6596.4
10	Addi Jo			106.0				6576.1
2	201L1051			97.7				6478.6
5	201L1288			98.3				6371.3
18	RU2002182			98.7				6140.4
15	LSU_Basmati			100.3				6100.2
8	201M1065			97.0				6037.9
22	RU2102122			102.0				5983.6
21	RU2102070			87.7				5872.1
4	201L1251			96.0				5781.8
24	RU2102207			97.0				5278.9
9	201M1122			83.7				5188.4
20	RU2102066			89.7				5102.5
7	201M1064			82.0				4689.7
6	201L1324			90.3				4160.1

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 18. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial - Provisia.
St. Joseph, Tensas Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
5	203L1104			97.3				8662.0
10	RU2002070			97.3				8294.3
7	203L1177			99.7				7847.1
1	203L1011			105.3				7828.3
11	RU2002174			111.3				7468.8
4	203L1103			92.7				7350.7
2	203L1068			102.3				6858.3
6	203L1117			87.7				6849.8
8	PVL02			109.7				6527.8
9	PVL03			102.0				6452.3
3	203L1086			88.3				6171.3
12	RU2102186			95.7				6093.3

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 19. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial – Clearfield. Palmetto, St. Landry Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
18	CLL16		82.0	105.3				10041.2
20	CLM04		81.0	105.7				9969.9
7	202M1143		84.0	96.7				9623.1
16	RU2202037		77.0	100.0				9398.0
14	RU2102217		77.0	100.7				9267.7
4	202L1480		74.0	103.7				9209.0
12	RU2102150		77.0	96.7				9094.3
13	RU2102162		76.3	103.7				9055.9
2	202L1120		76.7	102.7				9034.6
5	202L1534		75.7	93.0				8812.0
8	MPB_279		76.3	94.0				8767.4
19	CLL17		77.0	100.3				8744.7
11	RU2102030		75.0	102.7				8735.0
15	RU2102222		77.7	93.0				8710.2
9	RU1902026		74.7	96.7				8691.8
1	202A1735		76.7	96.7				8681.8
3	202L1336		77.0	96.3				8551.6
10	RU1902034		75.7	99.3				8446.4
17	CL153		77.3	106.0				8416.5
6	202M1133		83.3	106.0				8058.0

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 20. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial – Conventional. Palmetto, St. Landry Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
14	LAH200		77.0	127.0				9568.8
21	RU2102070		77.0	99.0				9527.7
13	DG263L		74.7	101.0				9288.1
4	201L1251		80.3	96.7				9203.6
20	RU2102066		77.3	93.0				9060.6
3	201L1148		78.7	101.0				8703.5
8	201M1065		83.3	101.0				8689.8
12	Cheniere		76.3	93.0				8642.2
22	RU2102122		77.3	96.7				8521.4
19	RU2102037		80.7	93.3				8458.2
23	RU2102158		77.3	90.3				8429.9
6	201L1324		76.3	96.0				8344.6
1	201L1027		76.7	101.7				8274.1
16	Mermentau		76.0	96.7				8232.5
2	201L1051		80.7	97.7				8037.5
11	Avant		73.0	92.0				8033.9
18	RU2002182		77.0	96.7				7944.5
9	201M1122		78.0	90.7				7888.7
24	RU2102207		74.0	96.0				7663.4
10	Addi Jo		80.7	94.3				7656.9
7	201M1064		80.7	93.0				7531.9
5	201L1288		81.3	98.3				7504.1
17	RU2002166		73.7	96.7				7355.6
15	LSU Basmati		76.7	100.0				6355.2

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 21. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial - Provisia, Palmetto, St. Landry Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
4	203L1103		77.3	92.3				8347.0
7	203L1177		78.0	98.3				8245.7
10	RU2002070		81.3	95.0				7947.5
5	203L1104		84.0	101.0				7905.7
6	203L1117		77.7	101.0				7748.6
12	RU2102186		76.3	100.0				7621.5
9	PVL03		77.7	105.0				7598.4
1	203L1011		80.7	96.7				7390.0
2	203L1068		74.7	107.7				7272.4
11	RU2002174		78.7	106.7				7223.3
3	203L1086		76.7	90.7				6719.5
8	PVL02		75.7	101.7				5742.2

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 22. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial – Clearfield. Lake Arthur, Vermilion Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
10	RU1902034	3.7		90.0				7670.4
18	CLL16	3.0		94.7				7377.6
11	RU2102030	3.7		92.3				7289.4
14	RU2102217	3.7		80.0				7264.3
4	202L1480	5.0		91.0				7111.3
12	RU2102150	5.0		88.3				6766.3
5	202L1534	3.7		84.0				6746.0
9	RU1902026	4.3		86.7				6733.3
15	RU2102222	5.0		83.0				6671.9
17	CL153	3.7		87.7				6599.5
3	202L1336	4.3		80.0				6563.5
13	RU2102162	4.3		90.0				6512.2
19	CLL17	3.7		83.3				6429.6
2	202L1120	3.0		95.7				6355.1
20	CLM04	3.0		92.0				6228.4
7	202M1143	3.7		83.7				5916.8
8	MPB_279	4.3		82.0				5439.6
1	202A1735	5.0		85.3				5012.0
16	RU2202037	3.0		80.3				4568.3
6	202M1133	3.0		80.7				4544.6

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 23. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial – Conventional. Lake Arthur, Vermilion Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
13	DG263L	3.7		93.3				8701.5
14	LAH200	5.0		107.0				8373.0
2	201L1051	3.7		91.7				8243.5
5	201L1288	3.0		86.0				8070.3
6	201L1324	3.7		88.0				7886.6
19	RU2102037	3.0		86.7				7822.4
3	201L1148	3.0		84.0				7686.6
8	201M1065	3.0		91.3				7602.8
4	201L1251	3.0		87.0				7553.4
18	RU2002182	4.3		88.3				7447.1
20	RU2102066	3.7		85.7				7186.3
22	RU2102122	3.7		89.7				7069.8
21	RU2102070	3.7		90.7				6870.7
7	201M1064	3.0		81.7				6736.5
12	Cheniere	3.7		88.7				6631.0
10	Addi Jo	5.0		84.3				6617.4
1	201L1027	4.3		93.3				6520.2
11	Avant	3.0		81.0				6480.6
17	RU2002166	3.0		87.0				6459.2
23	RU2102158	4.3		81.3				6451.1
24	RU2102207	4.3		79.7				6435.3
16	Mermentau	3.7		85.7				6384.4
15	LSU_Basmati	3.0		88.7				5910.7
9	201M1122	3.0		79.3				5854.4

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 24. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Yield Trial - Provisia.
Lake Arthur, Vermilion Parish, LA.

ENT	NAME	VIG¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
12	RU2102186	3.7		95.0				7942.8
5	203L1104	5.0		100.7				7795.7
9	PVL03	3.0		93.3				7649.9
2	203L1068	5.0		97.0				7179.5
11	RU2002174	3.0		96.0				6891.5
3	203L1086	3.0		87.3				6870.5
8	PVL02	4.3		104.0				6742.4
1	203L1011	4.3		92.7				6503.7
10	RU2002070	3.7		100.3				6207.6
6	203L1117	3.0		94.3				5862.5
7	203L1177	4.3		95.7				5055.2
4	203L1103	4.3		90.7				4984.7

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

REGIONAL YIELD TEST

Regional Yield Test (RYT) locations in 2022 included two at the H. Rouse Caffey Rice Research Station (HRCRRS) and three on-farm test sites in Franklin, Tensas, and Vermilion parishes. Planting and harvesting dates are shown in Table 1 across all locations.

One hundred sixty-two entries were tested in a randomized complete block design with two replications. Varieties were seeded at 90 lb/A. Entries are listed in Table 2. Results from these trials are shown in Tables 3-14.

Table 1. Planting and harvesting dates for the Regional Yield Test in 2022.

Location	Trial	Planting	Harvesting
HRCRRS	RYT-CL-RRS	3/2	7/29
	RYT-CN-RRS	3/3	7/25
	RYT-PV-RRS	3/4	7/26
HRCRRS-South Farm	RYT-CL-SF	3/14	8/5
	RYT-CN-SF	3/14	8/5
	RYT-PV-SF	3/14	8/5
Franklin (Winnsboro)	RYT-CL-WB	4/11	9/9
Tensas (St. Joseph)	RYT-CN-SJ	5/5	9/15
	RYT-PV-SJ	5/5	9/15
Vermilion (Lake Arthur)	RYT-CL-LK	3/18	8/8
	RYT-CN-LK	3/18	8/8
	RYT-PV-LK	3/18	8/8

Table 2. Entry number, pedigree, and grain type for entries in the Regional Yield Test, 2022.

Herbicide				Grain
Type	Entry	Line	Pedigree	Type [†]
CL	1	202L2017	CL163/172A1739	HI
CL	2	202L2082	CL163/172A1739	HI
CL	3	202L2096	CL163/CLJ01	AL
CL	4	202L2101	CL163/CLJ01	HI
CL	5	202L2109	CL163/172A1739	HI
CL	6	202L2141	CL163/CLJ01	HI
CL	7	20LXM006	CL111/CL153	LG
CL	8	20LXM121	Titan/CL272	MG
CL	9	20LXM285	CL272/Caffey	MG
CL	10	212L2002	RU1902138/RU1902126	HI
CL	11	212L2006	Catahoula/RU1502085	LG
CL	12	212L2014	RU1602195/RU1602112	HI
CL	13	212L2017	CLJ01/LaKast	HI
CL	14	212L2019	RU1902126/RU1604191	HI
CL	15	212L2034	CL153/CL172	LG
CL	16	212L2036	CLL17/CL153	LG
CL	17	212L2051	RU1902142/182L1278	LG
CL	18	212L2076	CL131/CL153	LG
CL	19	212L2088	CL151/RU1702140	LG
CL	20	212L2093	172L1264/RU1602131	LG
CL	21	212L2118	RU1902126/CL153	LG
CL	22	212L2133	Cocodrie//Jazzman*3/08CLR004	AL
CL	23	212L2157	CL172/3/Jazzman/08CLR004//RU1002146*2/4/Jazzman/08CLR004// RU1002146*2	AI
CL	24	212L2159	CL153/CLL17	LG
CL	25	212L2160	RU1902138/RU1902126	LG
CL	26	212L2195	RU1902126/172L1264	LG
CL	27	212L2197	172L2058/RU1702097	LG
CL	28	212L2235	CL151/RU1702140	LG
CL	29	212L2250	172L2058/RU1702097	LG
CL	30	212L2252	RU1002146/3/Jazzman2//07PY824/08CLR003/4/Jazzman/08CLR004// RU0802146/3/RU0802146	AL
CL	31	212L2254	RU1602195/172L1264	LG
CL	32	212L2294	RU1902126/172L1264	LG
CL	33	212L2305	CLL17/Diamond	LG
CL	34	212L2306	Presidio//Jazzman*3/08CLR004	AL
CL	35	212L2336	CL153/CLL17	LG
CL	36	212L2354	CL172/Catahoula	LG
CL	37	212M1013	CL272/172M1600	MG
CL	38	212M1067	171M1843/172M1646	MG
CL	39	212M1071	CL272/Mermentau	MG
CL	40	212M1076	RU1702162/RU1702180	MG
CL	41	212M1132	RU1702165/Neptune	MG
CL	42	212M1144	RU1902182/Lynx	MG
CL	43	212M1147	Jupiter/CL272	MG
CL	44	BBC30-1	CL272/4/CL272/3/CL272//Zhe733/CL272	MG
CL	45	BBC48-2	Jupiter/4/CL272/3/CL272//Zhe733/CL272	MG
CL	46	MP4_AB_257	CL111/RoyJ//CL153/LaKast	LG
CL	47	MP6_167	CL111/RoyJ//CL153/LaKast/3/CL153/LaKast//CL172/Cypress	LG

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type [†]
CL	48	MP6_397	CL111/RoyJ//CL153/LaKast/3/CL153/LaKast//CL172/Cypress	LG
CL	49	MP6_419	CL111/RoyJ//CL153/LaKast/3/CL153/LaKast//CL172/Cypress	LG
CL	50	MP8_153	CL111/RoyJ//CL153/LaKast/3/CL172/Cypress//Presidio/Catahoula	LG
CL	51	MPA_279	CL111/RoyJ	LG
CL	52	MPB_113	CL153/LaKast	LG
CL	53	MPB_294	CL153/LaKast	LG
CL	54	RU1902026	Wells/CL161//Drew/CL161/3/Cheniere//Cocodrie/Jefferson	LG
CL	55	CL153	RU9502008A//Ahrent/Cocodrie/3/CFX26/RU9702128/4/Cheniere	LG
CL	56	CL163	CL161/Rosemont/3/Mars/Newrex//Tebonnet	HI
CL	57	CLHA02	Rosemont/3/Mars/Newrex//Tebonnet/4/CL151	HI
CL	58	CLL16	248WE16I5/Taggart/7/248DREW16C13/6/LaGrue//KATY/Starbonnet/5/ Newbonnet/KATY//RA73/Lemont/4/Lebonnet/71CR5038/3/Dawn/ STG653888//Starbonnet	LG
CL	59	CLL17	CL131/Trenasse	LG
CL	60	CLM04	RU1202168/Jupiter	MG
CN	1	20LXM089	Titan/Presidio	L1L
CN	2	211L1008	RU1702183/RU1902212	LG
CN	3	211L1021	CL131/RU1702140	LG
CN	4	211L1028	INIA06/RU1902194	LG
CN	5	211L1030	RU1702140/RU1902207	LG
CN	6	211L1031	CL131/LaKast	LG
CN	7	211L1032	RU1801169/RU1902212	LG
CN	8	211L1056	182L2195/RU2002150	LG
CN	9	211L1065	Catahoula/RU1902212	LG
CN	10	211L1070	RU1702140/RU1902207	LG
CN	11	211L1083	RU1702140/RU1902207	LG
CN	12	211L1085	CL131/RU1702140	LG
CN	13	211L1090	CL131/RU1702140	LG
CN	14	211L1103	RU1902207/RU1804187	HI
CN	15	211L1124	RU1902186/182L2166	LG
CN	16	211L1137	RU1702140/RU1902207	LG
CN	17	211L1143	RoyJ/CL153	LG
CN	18	211L1149	CL131/RU1702140	LG
CN	19	211L1154	RU1702140/RU1902207	LG
CN	20	211L1165	Catahoula/RU1902146	LG
CN	21	211L1174	Catahoula/RU1902212	LG
CN	22	211L1181	171L1772/RU1601133	LG
CN	23	211L1196	181L2002/RU1804067	HI
CN	24	211L1225	RU1902186/CL153	LG
CN	25	211L1227	RU1702140/RU1902207	LG
CN	26	211L1228	RU1801169/RU1902212	LG
CN	27	211L1232	CL153/LaKast	LG
CN	28	211L1243	RU1902186/181L2002	LG
CN	29	211L1254	RU1801169/RU1902212	LG
CN	30	211L1260	RU1702140/RU1902207	LG

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type [†]
CN	31	211L1267	RU1902186/CL153	LG
CN	32	211L1271	RU1702140/RU1902207	LG
CN	33	211L1281	RU1702140/RU1902207	LG
CN	34	211L1286	INIA06/RU1902194	LG
CN	35	211L1293	Catahoula/CL153	LG
CN	36	211L1296	RU1702140/RU1902207	LG
CN	37	211L1297	INIA06/RU1902194	LG
CN	38	211L1313	Della2/LaKast	AI
CN	39	211L1319	Jazzman2/Catahoula	AL
CN	40	211L1320	Jazzman2/Catahoula	AL
CN	41	211L1324	Jazzman2/Catahoula	AL
CN	42	211L1331	RU1602195/Della2	AI
CN	43	211L1344	RU2002122/RU1902194	HI
CN	44	211M1034	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/ Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG
CN	45	211M1101	Titan/1502083	MG
CN	46	211M1124	Titan/1502083	MG
CN	47	211M1130	Caffey/Jupiter	MG
CN	48	211M1138	Neptune/4/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/5/ Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG
CN	49	211M1154	RU1502183/Titan	MG
CN	50	211M1156	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/ Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG
CN	51	211M1162	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/ Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG
CN	52	MP4_BC_252	CL153/LaKast//CL172/Cypress	LG
CN	53	MPA_042	CL111/RoyJ	LG
CN	54	Cheniere	Newbonnet/Katy/3/L202/Lemont//L202	LG
CN	55	DG263L		HI
CN	56	Jazzman	96A8/Ahrent	AL
CN	57	Jupiter	Bengal/Rico1/3/Bengal//Mercury/Rico1	MG
CN	58	Avant	Trenasse//Cocodrie/Jefferson/3/Ahrent/Cocodrie//Cocodrie/LaGrue	LG
CN	59	Addi Jo	Thad/Catahoula	HI
CN	60	Titan	M206/STG99F507118//Jupiter	MG
PV	1	213L1010	183L2070/RU1902186	LG
PV	2	213L1013	PVL03/RU1804067	LG
PV	3	213L1020	PVL01/Cheniere	LG
PV	4	213L1040	PVL03/RU1902194	LG
PV	5	213L1041	PVL03/RU1902194	LG
PV	6	213L1046	183L2070/RU1902186	LG
PV	7	213L1049	INIA06/PVL03	LG
PV	8	213L1071	PVL03/RU1902194	LG
PV	9	213L1072	183L2070/Cheniere	LG
PV	10	213L1075	Catahoula/PVL03	LG
PV	11	213L1091	PVL03/RU1902194	LG

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]
PV	12	213L1098	RU1402091/PV17TA75	LG
PV	13	213L1101	183L2070/Cheniere	LG
PV	14	213L1124	PVL03/RU1902194	LG
PV	15	213L1129	PVL03/RU1902194	LG
PV	16	213L1130	PVL01/Catahoula	LG
PV	17	213L1133	Catahoula/PVL03	LG
PV	18	213L1135	Catahoula/PVL03	LG
PV	19	213L1140	PVL01/Catahoula	LG
PV	20	213L1177	Catahoula/PVL03	LG
PV	21	213L1183	Catahoula/PVL03	LG
PV	22	213L1184	Catahoula/PVL03	LG
PV	23	213L1189	Catahoula/PVL03	LG
PV	24	213L1192	INIA06/PVL03	LG
PV	25	213L1209	PVL01/RU1902186	LG
PV	26	213L1225	183L2070/Cheniere	LG
PV	27	213L1231	Catahoula/PVL03	LG
PV	28	213L1237	Catahoula/PVL03	LG
PV	29	213L1238	183L2070/Cheniere	LG
PV	30	213L1239	183L2070/RU1902186	LG
PV	31	213L1247	PVL03/Cheniere	LG
PV	32	213L1258	Catahoula/PVL03	LG
PV	33	213L1259	Catahoula/PVL03	LG
PV	34	213L1264	Catahoula/PVL038	LG
PV	35	213L1268	Catahoula/PVL03	LG
PV	36	213L1279	PVL03/RU1902194	LG
PV	37	213L1281	183L2070/Cheniere	LG
PV	38	213L1284	INIA06/PVL03	LG
PV	39	213L1287	Catahoula/PVL03	LG
PV	40	PVL02	Cheniere/PV_BASF	LG
PV	41	PVL03	PVL01/Catahoula	LG
PV	42	RTv7231MA		LG

[†] LG = Long grain, MG = Medium grain, SG = Short grain, AI = Long-grain aromatic-Della type, AL = Long-grain aromatic-Jazzman type, and HI = Long-grain high amylose-Dixiebelle type

Table 3. Grain and milling yields and agronomic performance of entries in the 2022 Regional Yield Test - Clearfield.
H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
59	CLL17	3.0	86.0	86.5	62.0	68.1	17.6	8985.3
25	212L2160	4.0	85.0	91.0	54.1	68.7	10.2	8957.8
50	MP8_153	4.0	86.0	88.0	56.8	68.1	15.7	8683.1
24	212L2159	5.0	85.0	85.0	61.1	68.4	11.9	8482.9
16	212L2036	5.0	85.5	84.5	58.7	66.9	18.1	8414.7
28	212L2235	4.0	84.5	93.5	59.2	69.0	21.2	8337.2
33	212L2305	5.0	85.5	88.5	59.4	68.3	23.4	8318.9
55	CL153	5.0	85.5	92.5	63.5	69.2	16.7	8216.5
46	MP4_AB_257	5.0	81.0	82.0	54.9	68.7	23.9	8087.3
36	212L2354	3.0	85.0	85.0	62.3	70.8	17.2	8085.4
19	212L2088	5.0	86.5	87.0	60.2	69.3	16.5	8065.6
11	212L2006	5.0	85.0	94.5	54.8	68.9	15.4	8053.0
6	202L2141	5.0	86.0	93.0	49.8	65.8	17.8	8007.5
31	212L2254	5.0	85.0	95.5	62.5	68.2	12.6	7870.8
37	212M1013	5.0	85.0	78.5	65.7	69.6	20.6	7866.0
10	212L2002	5.0	86.0	92.5	58.2	69.2	10.3	7845.3
42	212M1144	7.0	89.5	85.5	65.4	68.9	16.3	7829.3
14	212L2019	5.0	89.0	92.5	57.0	68.9	11.8	7769.9
2	202L2082	3.0	83.5	95.5	61.4	69.9	12.9	7767.8
53	MPB_294	5.0	87.0	91.5	52.2	63.8	27.6	7742.6
20	212L2093	5.0	80.0	83.0	59.8	68.3	20.3	7700.2
15	212L2034	5.0	83.5	92.0	60.6	69.1	15.9	7690.8
26	212L2195	3.0	84.0	81.5	62.7	68.8	10.0	7678.2
35	212L2336	5.0	83.0	89.0	61.3	68.3	14.4	7674.8
30	212L2252	3.0	83.0	90.5	64.2	70.6	10.6	7674.2
51	MPA_279	3.0	85.0	90.5	60.4	68.4	22.3	7663.7
32	212L2294	3.0	83.5	84.0	60.1	69.0	11.9	7605.4
58	CLL16	5.0	89.0	93.5	51.0	64.7	23.9	7506.9
29	212L2250	4.0	85.0	87.0	59.2	69.8	17.6	7502.8
13	212L2017	3.0	86.0	89.0	59.4	67.9	17.8	7438.4
56	CL163	5.0	86.5	92.0	56.3	66.2	19.4	7400.6
40	212M1076	5.0	88.0	86.5	65.5	70.1	20.0	7389.3
54	RU1902026	4.0	84.0	84.5	58.6	68.0	23.4	7311.8
23	212L2157	6.0	87.0	87.0	59.3	69.7	12.5	7310.3
27	212L2197	4.0	85.5	85.0	60.8	69.5	16.6	7296.7
1	202L2017	5.0	86.0	87.0	63.1	69.3	13.2	7294.6
5	202L2109	5.0	85.5	90.5	59.6	68.3	18.3	7293.0
17	212L2051	4.0	83.5	87.0	56.0	68.2	13.4	7288.3
38	212M1067	3.0	85.5	79.0	63.8	69.7	21.0	7261.4
43	212M1147	5.0	86.0	89.0	64.4	68.2	20.1	7251.1
44	BBC30-1	5.0	88.5	77.0	64.9	68.5	16.2	7189.1
39	212M1071	3.0	87.0	87.0	65.6	70.6	19.0	7171.1

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
18	212L2076	4.0	86.0	86.0	61.3	68.6	17.9	7158.2
8	20LXM121	5.0	88.0	75.0	62.8	69.3	14.0	7149.8
21	212L2118	4.0	83.0	84.5	59.9	69.9	21.1	7133.9
41	212M1132	5.0	86.5	79.0	65.6	69.4	16.6	7075.3
3	202L2096	7.0		96.5	60.2	67.6	9.7	7049.2
12	212L2014	4.0	83.5	83.5	61.5	69.2	19.6	6978.3
47	MP6_167	5.0	89.0	81.5	60.7	68.1	12.0	6927.4
7	20LXM006	4.0	86.0	90.0	63.9	69.3	16.6	6881.7
60	CLM04	5.0	89.5	87.0	65.3	68.1	15.3	6745.7
45	BBC48-2	5.0	89.0	81.5	61.5	66.9	23.0	6743.0
9	20LXM285	5.0	88.0	80.0	65.1	68.9	17.3	6734.4
22	212L2133	5.0	82.0	89.0	60.4	69.8	13.6	6730.0
4	202L2101	5.0	83.0	89.0	61.4	68.3	19.1	6719.1
48	MP6_397	5.0	84.0	86.0	56.3	67.2	14.8	6682.2
57	CLHA02	7.0	88.5	85.5	60.1	68.0	16.2	6662.3
52	MPB_113	4.0	85.0	87.5	54.4	69.0	17.2	6581.1
49	MP6_419	7.0	87.0	90.5	60.1	68.0	24.6	6135.1
34	212L2306	3.0	83.5	85.5	62.1	69.1	5.0	5680.4

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 4. Grain and milling yields and agronomic performance of entries in the 2022 Regional Yield Test – Conventional. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
35	211L1293	4.0	85.0	97.5	59.7	70.1	19.5	10935.5
2	211L1008	3.0	82.5	96.0	62.7	70.3	25.3	10286.2
31	211L1267	5.0	83.5	96.0	63.0	70.2	22.4	10168.2
10	211L1070	3.0	83.5	94.5	58.1	71.0	20.4	10163.1
9	211L1065	3.0	84.0	93.0	65.0	72.6	23.6	10001.6
8	211L1056	3.0	82.5	97.0	62.5	70.5	24.7	9946.8
16	211L1137	3.0	85.0	98.0	56.7	71.3	17.8	9898.0
15	211L1124	4.0	84.5	101.5	63.9	69.4	25.6	9891.1
25	211L1227	4.0	84.0	100.0	60.1	71.6	17.4	9839.9
27	211L1232	5.0	85.0	94.0	59.5	71.2	17.3	9839.4
26	211L1228	4.0	85.5	97.0	64.3	69.3	19.9	9730.0
32	211L1271	4.0	84.0	98.5	58.7	71.6	18.7	9722.1
7	211L1032	5.0	84.0	93.0	64.7	70.7	22.0	9719.5
29	211L1254	3.0	84.0	89.5	64.1	70.2	18.0	9714.4
36	211L1296	4.0	85.0	99.5	58.6	70.4	19.3	9710.9
18	211L1149	5.0	86.5	94.0	59.6	70.3	16.5	9671.7
24	211L1225	4.0	83.5	96.0	64.7	70.3	23.5	9631.4
22	211L1181	3.0	83.5	99.0	62.3	71.4	20.9	9594.8
14	211L1103	5.0	84.5	94.0	55.1	69.7	17.0	9575.0
33	211L1281	4.0	85.0	96.5	61.1	69.5	14.9	9562.7
11	211L1083	3.0	85.0	102.0	60.7	71.6	18.2	9424.0
30	211L1260	4.0	85.5	97.5	63.0	71.2	18.7	9411.6
20	211L1165	4.0	84.5	102.5	64.6	70.4	20.2	9386.5
45	211M1101	3.0	85.5	86.0	65.0	68.2	17.9	9332.7
19	211L1154	3.0	85.0	95.5	63.2	71.2	19.1	9326.3
43	211L1344	5.0	85.0	99.0	55.2	69.5	24.2	9322.8
23	211L1196	3.0	84.5	90.5	64.0	71.6	18.5	9298.6
17	211L1143	4.0	84.5	96.5	62.9	71.2	11.8	9257.5
4	211L1028	5.0	83.5	87.5	56.8	68.5	23.5	9245.0
21	211L1174	3.0	84.0	93.5	62.5	70.8	22.1	9212.8
28	211L1243	5.0	83.0	93.0	60.8	70.6	23.6	9208.5
52	MP4_BC_252	3.0	84.0	95.0	61.9	69.9	32.1	9164.8
3	211L1021	3.0	85.0	92.0	55.9	70.5	15.1	9127.2
53	MPA_042	5.0	83.5	88.5	55.6	70.3	29.1	9108.9
58	Avant	3.0	81.0	87.0	62.5	70.2	24.1	9014.1
42	211L1331	3.0	91.0	97.0	62.9	69.2	19.1	9003.6
5	211L1030	5.0	84.5	93.5	56.1	70.7	14.5	8995.8
55	DG263L	4.0	87.0	90.0	58.5	68.6	20.3	8974.3
6	211L1031	5.0	84.0	92.0	60.2	69.4	18.7	8933.0
13	211L1090	3.0	85.0	97.5	59.4	71.9	18.0	8928.7
40	211L1320	5.0	84.5	92.0	59.6	71.5	24.3	8810.7
38	211L1313	3.0	87.0	98.5	53.2	67.3	38.6	8777.7

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
47	211M1130	5.0	88.0	93.0	64.2	68.4	17.3	8737.5
44	211M1034	5.0	85.0	84.5	64.9	68.6	21.2	8686.3
37	211L1297	3.0	84.5	98.0	53.2	68.3	21.2	8619.5
54	Cheniere	5.0	87.5	91.0	65.0	72.4	11.0	8576.1
59	Addi Jo	4.0	89.0	92.0	59.0	69.4	21.1	8551.6
51	211M1162	3.0	84.5	83.5	63.6	68.0	19.7	8437.9
12	211L1085	5.0	86.5	93.0	61.8	70.8	11.6	8431.4
48	211M1138	4.0	83.5	81.5	61.4	69.2	13.5	8425.1
1	20LXM089	5.0	84.5	93.5	64.6	70.3	8.2	8401.7
49	211M1154	5.0	85.0	87.0	64.6	68.2	18.2	8359.8
34	211L1286	5.0	82.5	90.0	61.2	70.3	17.6	8266.5
39	211L1319	5.0	84.5	99.5	61.0	70.6	17.3	8208.6
50	211M1156	4.0	84.5	83.5	63.4	67.7	19.4	7959.5
56	Jazzman	3.0	91.5	96.0	64.6	69.4	7.5	7949.0
60	Titan	5.0	83.5	85.0	65.4	67.9	18.5	7807.3
46	211M1124	3.0	82.5	87.5	61.9	66.1	24.7	7695.2
41	211L1324	5.0	82.5	92.5	64.5	70.4	10.6	7688.5
57	Jupiter	5.0	92.0	87.5	60.3	64.5	28.8	7248.8

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 5. Grain and milling yields and agronomic performance of entries in the 2022 Regional Yield Test - Provisia.
H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
25	213L1209	3.0	88.5	89.5	58.1	68.2	23.2	8626.6
35	213L1268	4.0	81.0	87.0	53.4	69.8	20.7	8508.5
12	213L1098	4.0	80.5	84.5	55.4	68.3	24.9	8471.1
24	213L1192	3.0	80.5	96.5	53.6	68.2	20.6	8438.6
19	213L1140	3.0	84.5	97.5	51.9	69.4	14.5	8435.5
40	PVL02	4.0	83.5	102.5	66.8	71.3	17.9	8311.6
38	213L1284	3.0	84.0	96.0	57.0	69.3	19.4	8266.2
13	213L1101	5.0	89.5	93.0	53.6	66.9	15.9	8254.0
36	213L1279	3.0	82.0	99.5	55.8	68.6	25.7	8143.7
9	213L1072	4.0	85.0	100.0	55.6	68.8	14.6	8140.7
16	213L1130	5.0	83.5	97.0	58.9	69.3	21.7	7883.6
33	213L1259	3.0	81.5	88.0	52.0	69.8	19.3	7816.2
15	213L1129	3.0	79.5	93.0	55.9	69.5	24.9	7784.4
41	PVL03	2.0	83.5	95.5	56.8	69.4	20.7	7752.6
7	213L1049	2.0	84.5	98.0	59.1	68.1	15.6	7737.7
1	213L1010	3.0	84.0	100.5	58.8	70.0	23.2	7708.3
31	213L1247	5.0	82.0	93.0	54.1	69.5	17.2	7598.3
3	213L1020	5.0	83.5	87.5	62.1	70.9	14.0	7503.6
21	213L1183	4.0	81.5	91.0	58.8	70.1	16.0	7501.1
42	RTv7231MA	5.0	84.0	90.5	56.9	69.3	12.6	7465.2
18	213L1135	4.0	83.0	94.5	55.0	69.9	19.3	7445.8
6	213L1046	4.0	84.5	100.5	59.2	68.9	20.5	7355.2
8	213L1071	3.0	82.0	97.5	59.5	69.5	20.2	7185.1
39	213L1287	4.0	84.5	96.0	59.6	69.9	19.2	7172.1
5	213L1041	2.0	81.0	100.5	57.9	70.7	18.6	7130.4
37	213L1281	5.0	86.5	93.5	59.2	70.0	25.6	7116.8
22	213L1184	3.0	81.5	91.0	52.1	70.9	19.0	7079.2
14	213L1124	5.0	82.5	94.5	59.0	69.9	20.9	6996.7
4	213L1040	4.0	81.0	94.5	57.2	70.5	22.5	6991.2
23	213L1189	5.0	80.5	89.0	51.4	69.7	15.0	6987.5
28	213L1237	5.0	81.0	93.0	51.5	70.4	18.9	6964.5
26	213L1225	5.0	87.0	97.5	52.2	66.7	10.5	6906.4
34	213L1264	4.0	84.5	93.0	62.7	71.4	10.0	6694.5
30	213L1239	3.0	84.0	100.5	56.0	69.1	19.8	6658.4
27	213L1231	5.0	81.5	93.5	53.9	70.3	19.6	6623.1
11	213L1091	3.0	80.0	94.0	49.9	70.5	27.9	6528.6
20	213L1177	4.0	82.0	92.5	54.4	70.2	20.7	6434.4
32	213L1258	4.0	82.5	90.0	56.2	69.9	19.2	6128.8
17	213L1133	5.0	81.5	89.0	49.2	69.9	14.9	6072.5
10	213L1075	5.0	81.5	92.0	52.9	69.3	13.3	6021.9
2	213L1013	3.0	84.5	88.5	56.2	67.8	11.1	5954.2
29	213L1238	5.0	85.5	87.0	53.3	69.0	14.0	5662.9

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 6. Grain and milling yields and agronomic performance of entries in the 2022 Regional Yield Test - Clearfield.
H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
44	BBC30-1	5.0	84.5	84.0	65.1	69.3	17.3	11880.1
9	20LXM285	5.0	83.5	92.0	64.0	69.0	16.5	11764.6
58	CLL16	4.0	87.0	110.0	55.3	66.6	21.7	11752.9
42	212M1144	5.0	86.5	103.0	64.5	68.9	17.0	11558.8
40	212M1076	4.0	82.0	97.5	62.7	68.7	18.4	11392.4
7	20LXM006	4.0	82.0	103.0	66.2	70.7	20.2	11328.2
57	CLHA02	5.0	83.5	100.0	61.4	69.2	20.1	11104.6
33	212L2305	4.0	82.0	97.5	60.2	68.6	20.9	11032.3
36	212L2354	3.0	81.0	97.5	63.6	70.4	15.7	10862.6
12	212L2014	4.0	79.5	105.5	61.5	69.1	22.0	10779.8
52	MPB_113	4.0	79.0	98.0	54.2	67.8	19.1	10759.2
21	212L2118	4.0	79.0	105.5	62.4	70.0	22.4	10719.9
15	212L2034	4.0	79.0	102.5	61.8	69.7	19.6	10708.7
19	212L2088	5.0	83.0	105.5	64.0	71.3	19.1	10593.4
54	RU1902026	4.0	79.5	93.5	60.3	68.2	25.4	10590.9
53	MPB_294	5.0	80.5	103.5	56.6	66.6	25.6	10510.1
31	212L2254	5.0	83.0	110.5	63.4	69.0	17.7	10478.4
23	212L2157	5.0	83.0	94.5	59.7	69.2	15.1	10353.2
60	CLM04	4.0	85.0	101.5	63.4	66.9	14.6	10175.0
43	212M1147	5.0	82.0	112.5	62.7	67.4	16.8	10123.6
2	202L2082	4.0	81.5	104.5	61.4	69.5	15.4	10060.2
55	CL153	3.0	82.0	99.0	64.2	70.0	16.2	10052.1
38	212M1067	4.0	82.5	90.5	61.8	67.8	18.2	9994.9
8	20LXM121	5.0	82.5	83.5	61.3	68.2	15.2	9975.4
14	212L2019	4.0	86.5	99.5	57.6	69.5	13.5	9927.0
45	BBC48-2	5.0	83.5	89.5	60.8	67.7	20.2	9919.9
29	212L2250	4.0	79.5	100.5	63.1	71.3	21.8	9808.5
41	212M1132	5.0	83.0	93.5	61.1	67.7	14.5	9800.2
26	212L2195	5.0	81.0	98.0	63.1	70.4	11.8	9782.6
51	MPA_279	4.0	81.5	104.5	59.9	68.2	24.5	9670.0
48	MP6_397	4.0	79.5	103.5	58.3	68.2	18.9	9503.4
24	212L2159	4.0	81.5	101.0	62.3	69.0	9.1	9494.7
10	212L2002	4.0	82.5	99.0	58.9	69.5	15.9	9467.6
30	212L2252	4.0	80.0	96.5	62.8	70.1	11.9	9362.9
49	MP6_419	6.0	86.0	107.0	63.7	69.9	21.3	9305.7
18	212L2076	3.0	81.0	99.0	59.8	66.6	16.6	9247.1
3	202L2096	6.0	85.5	113.0	62.1	69.4	9.3	9176.0
11	212L2006	4.0	80.5	101.5	57.4	68.8	15.8	9092.1
35	212L2336	4.0	78.5	104.0	62.2	68.9	16.1	8999.6
32	212L2294	6.0	80.5	97.0	56.6	66.5	14.1	8868.1
13	212L2017	3.0	81.5	102.0	58.1	67.8	18.5	8847.7
46	MP4 AB 257	5.0	78.0	86.5	54.8	68.0	19.3	8840.1

Continued.

Table 6. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
27	212L2197	4.0	81.0	100.0	60.3	68.0	17.9	8815.0
37	212M1013	5.0	81.5	96.0	63.2	68.7	14.6	8657.8
47	MP6_167	5.0	84.5	93.0	60.7	68.1	17.7	8593.1
5	202L2109	4.0	81.0	99.5	60.3	68.5	19.0	8492.8
50	MP8_153	4.0	84.0	101.5	56.6	67.9	17.1	8302.5
28	212L2235	5.0	79.5	104.0	58.3	68.1	22.3	8300.6
6	202L2141	4.0	87.0	109.5	55.4	68.1	19.6	8279.5
17	212L2051	4.0	79.5	98.5	60.0	69.1	12.8	8267.3
25	212L2160	4.0	81.5	97.5	57.3	69.5	12.3	8265.5
20	212L2093	5.0	77.5	97.5	56.6	66.2	17.6	8230.7
16	212L2036	3.0	79.5	103.5	59.7	67.7	20.0	8075.4
1	202L2017	3.0	82.5	98.0	61.2	68.5	15.3	7853.4
56	CL163	3.0	82.0	107.0	57.9	67.6	21.0	7772.7
4	202L2101	4.0	78.0	100.0	60.2	68.0	18.0	7733.9
59	CLL17	3.0	82.0	99.0	59.4	67.9	20.5	7482.3
34	212L2306	3.0	79.5	101.5	62.9	69.5	5.0	7159.5
22	212L2133	5.0	77.5	105.5	59.8	69.7	15.2	6833.4
39	212M1071	3.0	82.5	101.5	63.0	68.5	17.5	5184.6

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 7. Grain and milling yields and agronomic performance of entries in the 2022 Regional Yield Test – Conventional. H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
7	211L1032	3.0	79.0	99.0	61.9	68.4	20.1	10682.5
25	211L1227	3.0	79.5	103.5	58.0	68.3	19.6	10669.1
15	211L1124	5.0	79.0	114.5	57.9	67.0	19.0	10460.8
19	211L1154	4.0	79.5	102.5	55.7	66.7	16.9	10205.0
31	211L1267	5.0	80.0	101.0	59.0	67.3	17.4	9972.9
24	211L1225	4.0	81.0	109.0	61.9	68.4	19.6	9934.2
10	211L1070	3.0	79.0	99.0	56.5	67.7	18.4	9746.4
20	211L1165	5.0	81.0	110.0	57.4	66.8	18.6	9697.4
27	211L1232	4.0	80.5	100.5	57.8	67.0	16.6	9690.1
26	211L1228	5.0	79.5	104.5	59.9	69.3	19.1	9672.4
8	211L1056	4.0	79.5	100.0	60.7	69.0	20.0	9642.7
59	Addi Jo	4.0	84.5	106.5	58.6	66.8	18.7	9536.8
14	211L1103	4.0	79.0	106.0	58.5	69.2	18.7	9347.4
6	211L1031	5.0	79.5	99.0	58.5	68.3	16.5	9246.2
52	MP4_BC_252	5.0	78.5	100.5	55.2	65.5	26.6	9203.4
44	211M1034	4.0	83.0	91.5	62.0	68.0	21.0	9182.2
32	211L1271	5.0	78.5	100.5	53.9	66.6	19.7	9157.1
42	211L1331	3.0	84.5	103.0	58.7	66.2	18.4	8997.7
45	211M1101	3.0	82.0	92.0	61.0	66.3	17.5	8994.6
11	211L1083	3.0	81.0	105.0	58.8	69.2	15.7	8984.9
51	211M1162	4.0	81.5	99.0	56.8	64.0	21.4	8941.8
40	211L1320	3.0	80.5	95.0	55.1	67.9	20.8	8921.9
2	211L1008	3.0	76.5	107.0	58.5	67.1	25.1	8898.8
12	211L1085	5.0	83.0	100.0	59.0	68.5	13.4	8850.9
18	211L1149	5.0	81.5	103.0	57.7	67.6	17.1	8849.0
36	211L1296	5.0	79.5	97.5	57.0	66.2	19.8	8793.4
29	211L1254	3.0	79.0	95.5	57.5	66.0	16.8	8777.7
23	211L1196	3.0	81.5	100.5	60.3	68.9	16.0	8759.4
46	211M1124	3.0	80.0	96.0	54.4	64.9	19.6	8718.7
47	211M1130	3.0	83.5	96.5	63.5	68.8	13.4	8675.5
49	211M1154	4.0	81.5	92.5	60.4	66.4	18.8	8629.6
9	211L1065	6.0	81.0	99.5	58.4	67.5	19.2	8612.0
55	DG263L	5.0	82.5	103.5	54.2	64.1	20.7	8546.6
33	211L1281	5.0	82.5	104.5	56.8	68.4	15.3	8447.4
43	211L1344	4.0	80.0	103.5	53.3	66.5	18.1	8431.7
35	211L1293	4.0	81.5	100.5	50.5	63.9	14.3	8300.3
50	211M1156	3.0	81.5	93.0	58.9	65.7	18.6	8291.7
38	211L1313	3.0	82.0	103.5	46.6	61.6	30.8	8265.0
48	211M1138	4.0	82.5	88.5	63.5	67.8	16.0	8251.8
1	20LXM089	4.0	79.0	98.5	55.8	66.6	10.7	8113.7
16	211L1137	3.0	80.5	100.5	51.2	65.6	10.6	8074.3
30	211L1260	3.0	81.0	106.5	59.0	69.0	18.4	8037.3

Continued.

Table 7. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
17	211L1143	4.0	79.5	95.0	56.2	66.8	15.1	7951.8
57	Jupiter	5.0	87.0	89.5	63.2	67.5	25.6	7911.4
41	211L1324	5.0	79.5	101.0	60.0	66.5	10.7	7893.6
60	Titan	5.0	80.0	96.5	55.4	65.0	18.0	7839.8
21	211L1174	4.0	78.0	99.0	57.7	67.8	19.2	7838.4
56	Jazzman	3.0	84.5	102.5	63.6	69.1	11.7	7710.2
53	MPA_042	5.0	78.5	102.0	50.6	65.8	28.0	7707.7
58	Avant	3.0	75.5	89.5	55.0	66.2	12.8	7603.3
22	211L1181	4.0	81.5	101.0	56.1	67.1	17.3	7511.9
28	211L1243	5.0	79.0	98.0	57.2	67.7	18.6	7405.2
3	211L1021	3.0	82.5	96.0	51.6	66.1	12.7	7206.1
54	Cheniere	5.0	83.0	97.0	62.6	70.8	12.7	7162.1
37	211L1297	4.0	80.0	104.0	52.7	64.9	16.3	7034.8
5	211L1030	3.0	81.0	99.5	50.5	64.2	10.3	6791.4
4	211L1028	5.0	79.0	96.0	56.2	65.7	14.7	6717.4
34	211L1286	5.0	78.0	101.0	56.4	66.5	17.2	6651.9
39	211L1319	5.0	77.5	98.5	56.0	66.9	15.1	6173.9
13	211L1090	4.0	80.5	104.0	59.2	66.4	13.2	3545.2

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 8. Grain and milling yields and agronomic performance of entries in the 2022 Regional Yield Test - Provisia.
H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
41	PVL03	2.0	82.0	96.0	61.2	69.9	17.7	11341.9
19	213L1140	3.0	82.0	98.5	52.3	67.9	15.4	11234.6
16	213L1130	3.0	79.0	105.5	58.4	67.8	19.1	10717.2
28	213L1237	5.0	79.0	96.5	57.6	69.1	15.0	10623.2
20	213L1177	3.0	80.5	100.5	61.5	69.8	15.2	10581.5
21	213L1183	4.0	80.0	97.5	57.4	66.5	14.6	10526.2
33	213L1259	4.0	79.0	95.5	54.8	68.1	16.6	10426.8
22	213L1184	3.0	78.5	99.0	56.7	68.6	16.1	10250.2
31	213L1247	3.0	78.5	95.0	56.5	70.5	16.0	10226.8
17	213L1133	3.0	79.0	97.5	55.8	68.3	16.2	10172.0
18	213L1135	3.0	80.0	98.0	59.4	69.1	16.3	10144.3
42	RTv7231MA	3.0	80.0	96.5	56.3	68.0	12.4	10120.4
35	213L1268	4.0	79.5	97.5	56.0	68.2	18.7	9990.5
10	213L1075	4.0	79.5	100.0	59.4	68.6	14.1	9979.2
32	213L1258	3.0	79.5	103.0	58.5	68.3	14.3	9899.8
39	213L1287	3.0	81.5	100.0	60.8	69.6	14.1	9833.5
23	213L1189	5.0	79.0	90.5	58.6	68.9	14.1	9672.0
5	213L1041	3.0	77.5	105.5	57.3	68.5	16.4	9599.8
27	213L1231	4.0	79.5	95.0	56.7	67.8	15.6	9327.4
26	213L1225	5.0	84.5	102.5	56.6	69.1	14.7	9243.0
36	213L1279	4.0	80.0	97.0	54.2	67.1	16.4	9153.2
6	213L1046	3.0	82.0	106.0	60.8	70.2	15.3	9094.2
3	213L1020	5.0	80.5	92.0	55.0	67.2	17.1	9047.9
25	213L1209	3.0	85.0	98.5	56.5	66.6	17.7	8940.7
9	213L1072	4.0	81.0	102.5	49.8	67.3	12.6	8656.2
34	213L1264	5.0	81.5	99.5	59.3	69.0	9.6	8597.9
37	213L1281	4.0	83.5	106.5	60.3	69.8	16.6	8557.3
29	213L1238	5.0	82.0	96.0	47.7	65.9	12.3	8483.8
2	213L1013	3.0	81.5	99.0	48.5	64.5	11.6	8389.7
11	213L1091	3.0	75.5	95.0	52.8	67.1	12.0	8328.6
38	213L1284	3.0	80.0	99.5	46.6	64.4	13.2	8191.7
30	213L1239	3.0	80.0	106.5	50.6	64.3	12.6	8096.7
1	213L1010	3.0	80.0	98.5	52.9	66.2	18.1	8076.4
24	213L1192	4.0	78.0	100.5	54.6	68.4	19.6	8055.7
8	213L1071	3.0	78.5	98.5	55.6	67.2	13.6	7936.2
13	213L1101	3.0	85.0	103.0	45.6	64.1	18.1	7822.8
14	213L1124	3.0	78.0	98.5	53.7	65.9	12.6	7802.7
4	213L1040	3.0	78.0	97.5	57.3	69.3	13.5	7753.7
15	213L1129	4.0	75.0	96.0	52.7	65.5	16.6	7624.9
7	213L1049	2.0	80.5	104.5	44.9	65.1	14.9	7521.9
12	213L1098	3.0	78.0	94.0	49.1	64.6	16.4	6603.1
40	PVL02	3.0	80.0	107.5	62.0	68.9	13.2	5145.2

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 9. Grain and milling yields and agronomic performance of entries in the 2022 Regional Yield Test - Clearfield. Winnsboro, Franklin Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
37	212M1013							8790.5
60	CLM04							8243.4
11	212L2006							8154.4
50	MP8_153							8058.1
47	MP6_167							7683.7
58	CLL16							7677.5
8	20LXM121							7582.2
44	BBC30-1							7566.3
41	212M1132							7554.9
27	212L2197							7544.2
49	MP6_419							7540.7
6	202L2141							7537.4
42	212M1144							7498.8
21	212L2118							7466.7
51	MPA_279							7356.8
56	CL163							7355.8
45	BBC48-2							7342.3
30	212L2252							7321.0
32	212L2294							7251.9
38	212M1067							7221.9
43	212M1147							7134.1
36	212L2354							7079.5
53	MPB_294							7078.4
17	212L2051							7067.9
13	212L2017							7048.8
29	212L2250							6998.0
19	212L2088							6996.2
10	212L2002							6983.2
52	MPB_113							6943.3
12	212L2014							6888.7
14	212L2019							6866.5
46	MP4_AB_257							6784.9
48	MP6_397							6770.6
25	212L2160							6707.9
26	212L2195							6649.2
55	CL153							6633.3
54	RU1902026							6616.4
24	212L2159							6551.0
57	CLHA02							6534.5
5	202L2109							6528.6
40	212M1076							6470.9
9	20LXM285							6429.8

Continued.

Table 9. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
15	212L2034							6409.9
34	212L2306							6409.6
33	212L2305							6268.9
20	212L2093							6210.0
28	212L2235							6185.1
59	CLL17							6165.6
7	20LXM006							6109.4
3	202L2096							6085.3
39	212M1071							5950.2
18	212L2076							5898.4
2	202L2082							5639.2
1	202L2017							5473.7
22	212L2133							5409.0
35	212L2336							5340.2
31	212L2254							5328.4
23	212L2157							5239.1
16	212L2036							5037.2
4	202L2101							4857.2

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 10. Grain and milling yields and agronomic performance of entries in the 2022 Regional Yield Test – Conventional. St. Joseph, Tensas Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
55	DG263L			88.5				7380.8
10	211L1070			99.0				7156.1
28	211L1243			102.5				7051.2
21	211L1174			97.0				7030.5
33	211L1281			99.5				6979.3
15	211L1124			108.5				6699.7
9	211L1065			99.0				6593.2
13	211L1090			104.5				6468.3
16	211L1137			104.5				6409.9
51	211M1162			89.0				6347.4
34	211L1286			100.0				6312.3
31	211L1267			99.0				6294.7
8	211L1056			89.5				6250.2
42	211L1331			94.5				6050.1
58	Avant			91.0				5989.7
35	211L1293			94.5				5970.7
53	MPA_042			94.5				5901.2
54	Cheniere			96.5				5869.7
20	211L1165			98.0				5847.3
19	211L1154			109.5				5832.7
52	MP4_BC_252			93.0				5786.9
14	211L1103			94.5				5784.3
4	211L1028			87.5				5773.5
24	211L1225			104.0				5689.3
44	211M1034			91.0				5611.4
2	211L1008			92.5				5552.9
50	211M1156			84.5				5549.4
26	211L1228			100.5				5542.9
17	211L1143			90.5				5536.1
27	211L1232			90.5				5480.9
7	211L1032			93.5				5416.6
5	211L1030			95.0				5412.1
29	211L1254			94.5				5376.4
38	211L1313			100.0				5319.8
47	211M1130			97.0				5240.4
12	211L1085			85.0				5223.2
56	Jazzman			92.5				5202.8
37	211L1297			103.0				5170.7
59	Addi Jo			91.0				5170.6
23	211L1196			96.0				5167.2
11	211L1083			101.5				5162.0
30	211L1260			103.5				5097.0

Continued.

Table 10. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
32	211L1271			96.5				4958.4
60	Titan			91.5				4947.1
22	211L1181			97.5				4913.9
57	Jupiter			84.5				4805.5
49	211M1154			83.0				4695.6
40	211L1320			93.5				4607.7
48	211M1138			81.0				4529.9
45	211M1101			87.0				4527.3
6	211L1031			87.5				4489.1
46	211M1124			94.0				4356.5
3	211L1021			87.5				4195.2
25	211L1227			86.0				4167.5
1	20LXM089			87.5				4060.9
36	211L1296			89.0				4042.1
41	211L1324			88.0				4023.3
43	211L1344			97.0				3980.2
39	211L1319			88.0				3804.7
18	211L1149			93.5				3705.7

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 11. Grain and milling yields and agronomic performance of entries in the 2022 Regional Yield Test - Provisia, St. Joseph, Tensas Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
18	213L1135			107.0				8576.3
4	213L1040			96.0				8336.2
19	213L1140			109.5				8335.4
11	213L1091			101.5				8153.2
26	213L1225			102.5				8062.6
6	213L1046			102.0				7976.6
38	213L1284			102.5				7915.7
25	213L1209			101.0				7836.0
20	213L1177			101.5				7744.4
7	213L1049			108.0				7566.3
22	213L1184			101.5				7545.9
16	213L1130			93.5				7486.1
24	213L1192			96.0				7402.1
5	213L1041			103.5				7389.9
36	213L1279			100.0				7277.7
39	213L1287			99.0				7252.3
31	213L1247			99.0				7238.3
14	213L1124			101.5				7189.5
15	213L1129			102.5				7114.9
8	213L1071			101.0				7071.8
37	213L1281			100.5				7035.6
42	RTv7231MA			95.0				6838.7
29	213L1238			92.0				6810.8
34	213L1264			94.5				6719.3
2	213L1013			94.0				6697.1
10	213L1075			100.0				6656.2
30	213L1239			99.5				6651.8
28	213L1237			93.5				6629.0
41	PVL03			95.0				6569.1
33	213L1259			93.0				6357.6
12	213L1098			84.5				6305.2
1	213L1010			100.5				6292.5
17	213L1133			94.5				6269.4
13	213L1101			95.0				6223.5
40	PVL02			104.5				6222.7
35	213L1268			92.5				6081.6
21	213L1183			97.5				6002.2
32	213L1258			100.5				5917.1
27	213L1231			93.5				5784.8
9	213L1072			100.5				5737.3
3	213L1020			93.5				5677.5
23	213L1189			88.5				5532.0

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 12. Grain and milling yields and agronomic performance of entries in the 2022 Regional Yield Test - Clearfield.
Lake Arthur, Vermilion Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
11	212L2006	3.0		99.0				7903.8
54	RU1902026	4.0		84.0				7902.1
12	212L2014	4.0		90.0				7880.5
55	CL153	3.0		88.5				7822.9
33	212L2305	4.0		87.0				7711.4
25	212L2160	4.0		84.5				7597.1
35	212L2336	4.0		97.5				7537.6
51	MPA_279	3.0		100.0				7522.4
31	212L2254	4.0		93.5				7348.5
52	MPB_113	4.0		84.5				7304.8
16	212L2036	5.0		91.0				7301.0
19	212L2088	4.0		99.5				7267.8
59	CLL17	4.0		83.5				7232.5
7	20LXM006	4.0		97.0				7125.2
13	212L2017	5.0		96.5				7119.2
53	MPB_294	4.0		89.5				7007.6
39	212M1071	4.0		96.0				7004.9
17	212L2051	5.0		90.5				6950.5
46	MP4_AB_257	4.0		84.0				6946.4
27	212L2197	3.0		90.0				6935.5
15	212L2034	5.0		86.0				6900.9
22	212L2133	3.0		101.0				6855.6
21	212L2118	4.0		89.0				6808.6
24	212L2159	5.0		83.0				6714.1
30	212L2252	3.0		88.5				6698.9
48	MP6_397	4.0		89.0				6693.1
10	212L2002	4.0		85.5				6681.2
47	MP6_167	5.0		85.0				6653.9
60	CLM04	3.0		98.0				6617.9
2	202L2082	3.0		92.5				6543.7
18	212L2076	5.0		90.0				6539.4
45	BBC48-2	4.0		88.0				6479.8
58	CLL16	4.0		99.0				6447.4
44	BBC30-1	5.0		75.5				6412.6
29	212L2250	3.0		90.5				6286.9
9	20LXM285	4.0		80.0				6231.4
36	212L2354	3.0		90.5				6167.5
50	MP8_153	4.0		95.0				6162.5
49	MP6_419	5.0		95.0				6124.4
14	212L2019	4.0		93.5				5988.1
28	212L2235	4.0		94.0				5960.2
26	212L2195	4.0		86.0				5880.9

Continued.

Table 12. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
6	202L2141	3.0		96.0				5879.8
23	212L2157	6.0		87.5				5850.8
38	212M1067	3.0		76.0				5759.8
20	212L2093	5.0		79.0				5723.5
41	212M1132	3.0		85.5				5702.7
1	202L2017	3.0		85.0				5697.4
37	212M1013	3.0		84.5				5594.6
5	202L2109	4.0		91.0				5590.5
40	212M1076	3.0		85.5				5577.8
57	CLHA02	6.0		93.0				5486.4
3	202L2096	4.0		95.5				5442.3
8	20LXM121	4.0		73.0				5353.3
34	212L2306	5.0		87.0				5345.6
32	212L2294	4.0		86.0				5331.1
43	212M1147	3.0		97.0				5164.7
56	CL163	4.0		90.0				4875.1
42	212M1144	4.0		86.0				4782.8
4	202L2101	3.0		84.0				4382.4

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 13. Grain and milling yields and agronomic performance of entries in the 2022 Regional Yield Test – Conventional. Lake Arthur, Vermilion Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
2	211L1008	4.0		84.0				8956.1
26	211L1228	5.0		95.0				8879.1
42	211L1331	3.0		95.0				8764.3
6	211L1031	3.0		85.0				8494.5
19	211L1154	3.0		93.0				8436.3
31	211L1267	3.0		91.0				8350.8
55	DG263L	5.0		89.0				8285.6
24	211L1225	4.0		85.5				8250.0
27	211L1232	4.0		83.5				8241.2
8	211L1056	3.0		83.5				8214.4
11	211L1083	4.0		95.0				8018.6
53	MPA_042	4.0		89.0				7722.0
23	211L1196	3.0		86.0				7674.8
9	211L1065	3.0		87.5				7659.8
7	211L1032	5.0		86.5				7638.7
10	211L1070	3.0		93.5				7603.6
32	211L1271	3.0		95.0				7547.4
33	211L1281	3.0		91.5				7493.7
30	211L1260	4.0		96.5				7432.9
43	211L1344	3.0		93.5				7386.0
13	211L1090	5.0		91.5				7357.6
29	211L1254	3.0		91.5				7357.5
21	211L1174	4.0		82.5				7207.8
25	211L1227	4.0		91.0				7181.7
54	Cheniere	5.0		89.0				7140.2
52	MP4_BC_252	3.0		82.0				7137.7
15	211L1124	4.0		98.0				7059.3
17	211L1143	3.0		84.5				6961.6
16	211L1137	4.0		89.5				6911.7
59	Addi Jo	5.0		87.0				6718.2
5	211L1030	5.0		91.5				6674.3
57	Jupiter	5.0		91.0				6634.6
14	211L1103	3.0		91.0				6632.0
18	211L1149	5.0		87.0				6616.3
4	211L1028	4.0		86.5				6602.8
28	211L1243	5.0		87.5				6578.5
36	211L1296	5.0		91.0				6455.7
12	211L1085	5.0		89.0				6441.0
40	211L1320	4.0		86.5				6427.0
58	Avant	5.0		81.5				6393.8
50	211M1156	3.0		82.5				6388.8
56	Jazzman	4.0		95.5				6292.8

Continued.

Table 13. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
48	211M1138	3.0		82.5				6248.4
35	211L1293	3.0		88.0				6240.7
47	211M1130	3.0		97.0				6140.1
46	211M1124	3.0		89.5				6023.4
38	211L1313	3.0		93.0				5942.0
60	Titan	3.0		82.0				5886.2
41	211L1324	3.0		86.0				5870.4
51	211M1162	3.0		86.5				5855.9
39	211L1319	4.0		95.0				5826.2
22	211L1181	3.0		90.0				5786.4
45	211M1101	3.0		81.0				5665.2
20	211L1165	4.0		98.0				5394.5
3	211L1021	4.0		88.0				5348.9
1	20LXM089	3.0		80.0				5291.1
34	211L1286	5.0		87.5				5286.3
44	211M1034	3.0		86.5				4946.8
37	211L1297	4.0		97.0				4905.3
49	211M1154	3.0		89.0				4883.6

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 14. Grain and milling yields and agronomic performance of entries in the 2022 Regional Yield Test - Provisia, Lake Arthur, Vermilion Parish, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
18	213L1135	5.0		92.5				9056.8
28	213L1237	3.0		91.0				8800.9
19	213L1140	4.0		88.0				8641.9
39	213L1287	4.0		92.5				8626.9
21	213L1183	5.0		92.0				8534.2
42	RTv7231MA	3.0		92.0				8515.4
31	213L1247	3.0		94.5				8506.3
17	213L1133	4.0		89.0				8321.9
10	213L1075	3.0		90.0				8320.0
5	213L1041	4.0		99.5				8222.8
35	213L1268	5.0		89.0				8174.1
32	213L1258	3.0		94.0				8167.6
33	213L1259	4.0		90.0				8107.2
24	213L1192	5.0		95.0				7990.9
20	213L1177	5.0		90.0				7911.5
16	213L1130	5.0		95.0				7909.3
41	PVL03	3.0		95.0				7760.2
23	213L1189	3.0		86.5				7654.5
3	213L1020	5.0		91.5				7630.5
15	213L1129	4.0		99.5				7599.2
22	213L1184	3.0		92.0				7579.3
36	213L1279	5.0		96.0				7391.3
27	213L1231	4.0		93.0				7348.4
29	213L1238	5.0		91.5				7237.2
11	213L1091	3.0		92.0				7208.6
4	213L1040	3.0		94.0				7181.1
1	213L1010	3.0		96.5				7136.1
8	213L1071	4.0		94.0				7000.6
14	213L1124	5.0		93.0				6866.8
9	213L1072	3.0		96.5				6347.6
40	PVL02	5.0		101.0				6331.4
25	213L1209	4.0		95.0				6246.5
38	213L1284	3.0		92.5				6195.1
26	213L1225	4.0		95.0				6110.5
12	213L1098	4.0		88.5				6087.6
7	213L1049	3.0		93.0				6071.3
6	213L1046	4.0		99.5				6069.8
34	213L1264	4.0		94.0				5949.7
37	213L1281	5.0		98.5				5913.7
2	213L1013	4.0		92.0				5575.4
13	213L1101	5.0		98.0				5351.6
30	213L1239	5.0		97.5				5088.1

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

CONVENTIONAL PRELIMINARY YIELD TRIALS

Conventional Preliminary Yield trials (PYT) consist primarily of promising breeding nursery material that is ready to be tested in replicated yield trials. The material in these trials was screened for agronomic and grain characteristics in nurseries prior to this phase of testing. Promising experimental lines were evaluated for seedling vigor, maturity, plant height, lodging resistance, grain yield of main crop, and disease resistance.

Trials were conducted using standard agronomic practices (except that fungicides were not applied) at the H. Rouse Caffey Rice Research Station (HRCRRS), Rayne, LA. A randomized complete block design was applied to arrange test entries. The plot size was 4.66 x 16 ft. Seeding rate was 90 lb/A. Planting and harvesting dates are shown in Table 1 across all locations. Entries are listed in Table 2. Data is presented for the long-grain tests in Tables 3 and 4 and medium-grain tests in Tables 5 and 6.

Table 1. Planting and harvesting dates for the 2022 Conventional Preliminary Yield trials.

Location	Trial	Planting	Harvesting
HRCRRS	PYL	3/10	8/1
	PYL – Late Planting	4/8	8/12
	PYM	3/10	8/1
	PYM – Late Planting	4/8	8/14

Table 2. Entry number, pedigree, grain type, and source information for entries in the 2022 Conventional Preliminary Yield trials.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CN	1	221L1001	CL131/LaKast	LG	LAES
CN	2	221L1002	CL131/LaKast	LG	LAES
CN	3	221L1003	CL131/LaKast	LG	LAES
CN	4	221L1004	CL131/LaKast	LG	LAES
CN	5	221L1005	CL131/LaKast	LG	LAES
CN	6	221L1006	182L2195/RU2002150	LG	LAES
CN	7	221L1007	182L2195/RU2002150	LG	LAES
CN	8	221L1008	RU1702183/RU1902212	LG	LAES
CN	9	221L1009	RU1702183/RU1902212	LG	LAES
CN	10	221L1010	RU1702183/RU1902212	LG	LAES
CN	11	221L1011	RU1702183/RU1902212	LG	LAES
CN	12	221L1012	RU1702183/RU1902212	LG	LAES
CN	13	221L1013	RU1702183/RU1902212	LG	LAES
CN	14	221L1014	RU1702183/RU1902212	LG	LAES
CN	15	221L1015	RU1702183/RU1902212	LG	LAES
CN	16	221L1016	RU1902122/INIA8	LG	LAES
CN	17	221L1017	RU1902162/INIA8	LG	LAES
CN	18	221L1018	RU1702140/Diamond	LG	LAES
CN	19	221L1019	RU1702140/Diamond	LG	LAES
CN	20	221L1020	RU1702140/Diamond	LG	LAES
CN	21	221L1021	RU1702140/Diamond	LG	LAES
CN	22	221L1022	RU1702140/Diamond	LG	LAES
CN	23	221L1023	RU1702140/Diamond	LG	LAES
CN	24	221L1024	RU2002122/RU1902186	LG	LAES
CN	25	221L1025	RU2002122/RU1902186	LG	LAES
CN	26	221L1026	RU2002122/RU1902186	LG	LAES
CN	27	221L1027	RU2002122/RU1902186	LG	LAES
CN	28	221L1028	RU2002122/RU1902186	LG	LAES
CN	29	221L1029	RU1902014/RU1804187	LG	LAES
CN	30	221L1030	RU1902014/RU1804187	LG	LAES
CN	31	221L1031	RU1902014/RU1804187	LG	LAES
CN	32	221L1032	INIA8/RU2002150	LG	LAES
CN	33	221L1033	INIA8/RU2002150	LG	LAES
CN	34	221L1034	INIA25/RU1902207	LG	LAES
CN	35	221L1035	CLL15/INIA6	LG	LAES
CN	36	221L1036	CLL15/INIA6	LG	LAES
CN	37	221L1037	CLL15/INIA6	LG	LAES
CN	38	221L1038	CLL15/INIA6	LG	LAES
CN	39	221L1039	CLL15/INIA6	LG	LAES
CN	40	221L1040	CLL15/INIA6	LG	LAES
CN	41	221L1041	CLL15/INIA6	LG	LAES
CN	42	221L1042	CLL15/INIA6	LG	LAES
CN	43	221L1043	RU1902162/Cheniere	LG	LAES
CN	44	221L1044	RU1902162/Cheniere	LG	LAES
CN	45	221L1045	RU1902162/Cheniere	LG	LAES
CN	46	221L1046	RU1902162/Cheniere	LG	LAES
CN	47	221L1047	RU1902207/RU1902014	LG	LAES
CN	48	221L1048	RU1902207/RU1902014	LG	LAES
CN	49	221L1049	RU1902207/RU1902014	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CN	50	221L1050	RU1902207/RU1902014	LG	LAES
CN	51	221L1051	RU1902207/RU1902014	LG	LAES
CN	52	221L1052	RU1902207/RU1902014	LG	LAES
CN	53	221L1053	RU1902207/RU1902014	LG	LAES
CN	54	221L1054	RU2002150/CL111	LG	LAES
CN	55	221L1055	RU2002150/CL111	LG	LAES
CN	56	221L1056	RU2002150/CL111	LG	LAES
CN	57	221L1057	RU2002150/CL111	LG	LAES
CN	58	221L1058	RU2002150/CL111	LG	LAES
CN	59	221L1059	RU2002150/CL111	LG	LAES
CN	60	221L1060	RU2002150/CL111	LG	LAES
CN	61	221L1061	RU1902212/CL111	LG	LAES
CN	62	221L1062	RU1902212/CL111	LG	LAES
CN	63	221L1063	RU1902212/CL111	LG	LAES
CN	64	221L1064	RU1902212/CL111	LG	LAES
CN	65	221L1065	RU1902212/CL111	LG	LAES
CN	66	221L1066	RU1902212/CL111	LG	LAES
CN	67	221L1067	RU1902212/CL111	LG	LAES
CN	68	221L1068	RU1902212/CL111	LG	LAES
CN	69	221L1069	RU1801169/RU1902212	LG	LAES
CN	70	221L1070	RU1801169/RU1902212	LG	LAES
CN	71	221L1071	RU1801169/RU1902212	LG	LAES
CN	72	221L1072	RU1801169/RU1902212	LG	LAES
CN	73	221L1073	RU1801169/RU1902212	LG	LAES
CN	74	221L1074	RU1801169/RU1902212	LG	LAES
CN	75	221L1075	RU1801169/RU1902212	LG	LAES
CN	76	221L1076	RU1602195/RU2002150	LG	LAES
CN	77	221L1077	RU1602195/RU2002150	LG	LAES
CN	78	221L1078	RU1602195/RU2002150	LG	LAES
CN	79	221L1079	RU1602195/RU2002150	LG	LAES
CN	80	221L1080	RU1602195/RU2002150	LG	LAES
CN	81	221L1081	RU1602195/RU2002150	LG	LAES
CN	82	221L1082	RU1602195/RU2002150	LG	LAES
CN	83	221L1083	RU1602195/RU2002150	LG	LAES
CN	84	221L1084	RU1602195/RU2002150	LG	LAES
CN	85	221L1085	RU1602195/RU2002150	LG	LAES
CN	86	221L1086	CL153/RU1902207	LG	LAES
CN	87	221L1087	CL153/RU1902207	LG	LAES
CN	88	221L1088	CL153/RU1902207	LG	LAES
CN	89	221L1089	CL153/RU1902207	LG	LAES
CN	90	221L1090	CL153/RU1902207	LG	LAES
CN	91	221L1091	RU1902162/RU2002150	LG	LAES
CN	92	221L1092	RU1902162/RU2002150	LG	LAES
CN	93	221L1093	RU1902162/RU2002150	LG	LAES

Continued.

Table 2. Continued.

Herbicide					Grain	
Type	Entry	Line	Pedigree		Type[†]	Source[‡]
CN	94	221L1094	RU1902122/RU2002150		LG	LAES
CN	95	221L1095	RU1902122/RU2002150		LG	LAES
CN	96	221L1096	RU1902122/RU2002150		LG	LAES
CN	97	221L1097	RU1902122/RU2002150		LG	LAES
CN	98	221L1098	RU1902122/RU2002150		LG	LAES
CN	99	221L1099	RU1702140/CL111		LG	LAES
CN	100	221L1100	RU1702140/CL111		LG	LAES
CN	101	221L1101	RU1702140/CL111		LG	LAES
CN	102	221L1102	RU1702140/CL111		LG	LAES
CN	103	221L1103	RU1702140/CL111		LG	LAES
CN	104	221L1104	RU1702140/CL111		LG	LAES
CN	105	221L1105	RU1702140/CL111		LG	LAES
CN	106	221L1106	182L2195/RU1902212		LG	LAES
CN	107	221L1107	182L2195/RU1902212		LG	LAES
CN	108	221L1108	182L1278/RU2002150		LG	LAES
CN	109	221L1109	182L1278/RU2002150		LG	LAES
CN	110	221L1110	182L1278/RU2002150		LG	LAES
CN	111	221L1111	182L1278/RU2002150		LG	LAES
CN	112	221L1112	RU1902146/RU1902212		LG	LAES
CN	113	221L1113	RU1902146/RU1902212		LG	LAES
CN	114	221L1114	RU1902146/RU1902212		LG	LAES
CN	115	221L1115	RU1902146/RU1902212		LG	LAES
CN	116	221L1116	RU1902146/RU1902212		LG	LAES
CN	117	221L1117	RU1902146/RU1902212		LG	LAES
CN	118	221L1118	RU1902207/182L1278		LG	LAES
CN	119	221L1119	RU1902207/182L1278		LG	LAES
CN	120	221L1120	RU1902207/182L1278		LG	LAES
CN	121	221L1121	RU1902207/182L1278		LG	LAES
CN	122	221L1122	RU1902207/182L1278		LG	LAES
CN	123	221L1123	RU1902207/182L1278		LG	LAES
CN	124	221L1124	RU1902207/182L1278		LG	LAES
CN	125	221L1125	RU2002150/CLL17		LG	LAES
CN	126	221L1126	RU2002150/CLL17		LG	LAES
CN	127	221L1127	RU2002150/CLL17		LG	LAES
CN	128	221L1128	RU2002150/CLL17		LG	LAES
CN	129	221L1129	RU2002150/CLL17		LG	LAES
CN	130	221L1130	RU2002150/CLL17		LG	LAES
CN	131	221L1131	RU1702140/RU1801169		LG	LAES
CN	132	221L1132	RU1702140/RU1801169		LG	LAES
CN	133	221L1133	RU1702140/RU1801169		LG	LAES
CN	134	221L1134	Catahoula/182L1278		LG	LAES
CN	135	221L1135	Catahoula/182L1278		LG	LAES
CN	136	221L1136	Catahoula/182L1278		LG	LAES
CN	137	221L1137	Catahoula/182L1278		LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type [†]	Source [‡]
CN	138	221L1138	Catahoula/182L1278	LG	LAES
CN	139	221L1139	Catahoula/182L1278	LG	LAES
CN	140	221L1140	Catahoula/RU1902146	LG	LAES
CN	141	221L1141	Catahoula/RU1902146	LG	LAES
CN	142	221L1142	Catahoula/RU1902146	LG	LAES
CN	143	221L1143	RU1602195/Diamond	LG	LAES
CN	144	221L1144	RU1602195/Diamond	LG	LAES
CN	145	221L1145	RU1602195/Diamond	LG	LAES
CN	146	221L1146	RU1602195/Diamond	LG	LAES
CN	147	221L1147	RU1602195/Diamond	LG	LAES
CN	148	221L1148	RU1602195/Diamond	LG	LAES
CN	149	221L1149	RU1602195/Diamond	LG	LAES
CN	150	221L1150	RU1602195/Diamond	LG	LAES
CN	151	221L1151	RU1602195/Diamond	LG	LAES
CN	152	221L1152	CL131/RU1702140	LG	LAES
CN	153	221L1153	CL131/RU1702140	LG	LAES
CN	154	221L1154	CL131/RU1702140	LG	LAES
CN	155	221L1155	CL131/RU1702140	LG	LAES
CN	156	221L1156	CL131/RU1702140	LG	LAES
CN	157	221L1157	CL131/RU1702140	LG	LAES
CN	158	221L1158	CL131/RU1702140	LG	LAES
CN	159	221L1159	CL131/RU1702140	LG	LAES
CN	160	221L1160	CL131/RU1702140	LG	LAES
CN	161	221L1161	CL131/RU1702140	LG	LAES
CN	162	221L1162	171L1772/RU1601133	LG	LAES
CN	163	221L1163	171L1772/RU1601133	LG	LAES
CN	164	221L1164	172A1739/RU1702140	LG	LAES
CN	165	221L1165	172A1739/RU1702140	LG	LAES
CN	166	221L1166	RoyJ/182L2166	LG	LAES
CN	167	221L1167	RoyJ/182L2166	LG	LAES
CN	168	221L1168	RoyJ/182L2166	LG	LAES
CN	169	221L1169	RoyJ/182L2166	LG	LAES
CN	170	221L1170	RoyJ/182L2166	LG	LAES
CN	171	221L1171	RoyJ/182L2166	LG	LAES
CN	172	221L1172	RoyJ/182L2166	LG	LAES
CN	173	221L1173	RU1902212/Diamond	LG	LAES
CN	174	221L1174	RU1902212/Diamond	LG	LAES
CN	175	221L1175	CLL15/INIA8	LG	LAES
CN	176	221L1176	CLL15/INIA8	LG	LAES
CN	177	221L1177	CLL15/INIA8	LG	LAES
CN	178	221L1178	CLL15/INIA8	LG	LAES
CN	179	221L1179	CLL15/INIA8	LG	LAES
CN	180	221L1180	CLL15/INIA8	LG	LAES
CN	181	221L1181	CLL15/INIA8	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type [†]	Source [‡]
CN	182	221L1182	CLL15/INIA8	LG	LAES
CN	183	221L1183	RU2002122/RU1702140	LG	LAES
CN	184	221L1184	RU2002122/RU1702140	LG	LAES
CN	185	221L1185	RU2002122/RU1702140	LG	LAES
CN	186	221L1186	RU1902194/181L2002	LG	LAES
CN	187	221L1187	RU1902194/181L2002	LG	LAES
CN	188	221L1188	RU1902194/181L2002	LG	LAES
CN	189	221L1189	RU1902194/181L2002	LG	LAES
CN	190	221L1190	RU1902194/181L2002	LG	LAES
CN	191	221L1191	RU1902194/181L2002	LG	LAES
CN	192	221L1192	INIA6/RU1902194	LG	LAES
CN	193	221L1193	INIA6/RU1902194	LG	LAES
CN	194	221L1194	INIA6/RU1902194	LG	LAES
CN	195	221L1195	INIA6/RU1902194	LG	LAES
CN	196	221L1196	INIA6/RU1902194	LG	LAES
CN	197	221L1197	INIA6/RU1902194	LG	LAES
CN	198	221L1198	RU1902186/181L2002	LG	LAES
CN	199	221L1199	RU1902186/181L2002	LG	LAES
CN	200	221L1200	RU1902186/181L2002	LG	LAES
CN	201	221L1201	RU1902186/181L2002	LG	LAES
CN	202	221L1202	RU1902186/181L2002	LG	LAES
CN	203	221L1203	RU1902186/181L2002	LG	LAES
CN	204	221L1204	RU1702140/INIA6	LG	LAES
CN	205	221L1205	RU1702140/INIA6	LG	LAES
CN	206	221L1206	RU1702140/INIA6	LG	LAES
CN	207	221L1207	RU1702140/INIA6	LG	LAES
CN	208	221L1208	RU1702140/INIA6	LG	LAES
CN	209	221L1209	RU1702140/INIA6	LG	LAES
CN	210	221L1210	RU1702140/INIA6	LG	LAES
CN	211	221L1211	RU2002150/RU1902186	LG	LAES
CN	212	221L1212	RU2002150/RU1902186	LG	LAES
CN	213	221L1213	RU2002150/RU1902186	LG	LAES
CN	214	221L1214	RU2002150/RU1902186	LG	LAES
CN	215	221L1215	RU2002150/RU1902186	LG	LAES
CN	216	221L1216	RU2002150/RU1902186	LG	LAES
CN	217	221L1217	RU2002150/RU1902186	LG	LAES
CN	218	221L1218	RU2002150/RU1902186	LG	LAES
CN	219	221L1219	Arborio	LG	LAES
CN	220	221L1220	Carnaroli	LG	LAES
CN	221	221L1221	Maratelli	LG	LAES
CN	222	221L1222	Nero	LG	LAES
CN	223	221L1223	Roma	LG	LAES
CN	224	221L1224	Selenio	LG	LAES
CN	225	221L1225	Br-IRGA411	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type [†]	Source [‡]
CN	226	221L1226	IRGA408	LG	LAES
CN	227	221L1227	IRGA416	LG	LAES
CN	228	221L1228	IRGA417	LG	LAES
CN	229	221L1229	CRN_MRMT_F1/Carnaroli	LG	LAES
CN	230	221L1230	CRN_MRMT_F1/Carnaroli	LG	LAES
CN	231	221L1231	CRN_MRMT_F1/Carnaroli	LG	LAES
CN	232	221L1232	CRN_MRMT_F1/Carnaroli	LG	LAES
CN	233	221L1233	CRN_MRMT_F1/Carnaroli	LG	LAES
CN	234	221L1234	CRN_MRMT_F1/Carnaroli	LG	LAES
CN	235	221L1235	CRN_MRMT_F1/Carnaroli	LG	LAES
CN	236	221L1236	CARNAROLI/MERMENTAU	LG	LAES
CN	237	Cheniere		LG	LAES
CN	238	DG263L		LG	Nutrien
CN	239	Avant		LG	LAES
CN	240	Addi Jo		LG	LAES
CN	1	221M1001	RU1502183/Titan	MG	LAES
CN	2	221M1002	RU1502183/Titan	MG	LAES
CN	3	221M1003	RU1502183/Titan	MG	LAES
CN	4	221M1004	RU1502183/Titan	MG	LAES
CN	5	221M1005	RU1502183/Titan	MG	LAES
CN	6	221M1006	RU1502183/Titan	MG	LAES
CN	7	221M1007	RU1502183/Titan	MG	LAES
CN	8	221M1008	RU1702165//Titan	MG	LAES
CN	9	221M1009	RU1702165//Titan	MG	LAES
CN	10	221M1010	RU1802174/RU2002090	MG	LAES
CN	11	221M1011	RU1802174/RU2002090	MG	LAES
CN	12	221M1012	RU1802174/RU2002090	MG	LAES
CN	13	221M1013	RU1802174/RU2002090	MG	LAES
CN	14	221M1014	RU1802174/RU2002090	MG	LAES
CN	15	221M1015	181M1740/RU1902227	MG	LAES
CN	16	221M1016	181M1740/RU1902227	MG	LAES
CN	17	221M1017	181M1740/RU1902227	MG	LAES
CN	18	221M1018	181M1740/RU1902227	MG	LAES
CN	19	221M1019	181M1740/RU1902227	MG	LAES
CN	20	221M1020	181M1740/BBC35-1	MG	LAES
CN	21	221M1021	181M1740/BBC35-1	MG	LAES
CN	22	221M1022	181M1740/BBC35-1	MG	LAES
CN	23	221M1023	RU1902174/RU1801211	MG	LAES
CN	24	221M1024	RU1902174/RU1801211	MG	LAES
CN	25	221M1025	RU1902174/RU1801211	MG	LAES
CN	26	221M1026	RU1902174/M206	MG	LAES
CN	27	221M1027	RU1902174/M206	MG	LAES
CN	28	221M1028	RU1902174/M402	MG	LAES
CN	29	221M1029	RU1902178/Lynx	MG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CN	30	221M1030	RU1902178/Lynx	MG	LAES
CN	31	221M1031	RU1902178/Lynx	MG	LAES
CN	32	221M1032	RU1902178/Lynx	MG	LAES
CN	33	221M1033	RU1902178/Lynx	MG	LAES
CN	34	221M1034	RU1902178/M105	MG	LAES
CN	35	221M1035	RU1902178/Titan	MG	LAES
CN	36	221M1036	RU1902178/Titan	MG	LAES
CN	37	221M1037	RU1902178/Titan	MG	LAES
CN	38	221M1038	RU1902178/Titan	MG	LAES
CN	39	221M1039	RU1902178/Titan	MG	LAES
CN	40	221M1040	RU1902227/RU1801211	MG	LAES
CN	41	221M1041	RU1902227/RU1801211	MG	LAES
CN	42	221M1042	RU1902227/RU1801211	MG	LAES
CN	43	221M1043	RU1902227/RU1801211	MG	LAES
CN	44	221M1044	RU1902227/RU1801211	MG	LAES
CN	45	221M1045	RU1902227/RU1802174	MG	LAES
CN	46	221M1046	RU1902227/RU1802174	MG	LAES
CN	47	221M1047	RU1902227/RU1802174	MG	LAES
CN	48	221M1048	RU1902227/RU1802174	MG	LAES
CN	49	221M1049	RU1902227/RU1802174	MG	LAES
CN	50	221M1050	RU1902227/RU1802174	MG	LAES
CN	51	221M1051	RU1902227/RU2002094	MG	LAES
CN	52	221M1052	RU1902227/RU2002094	MG	LAES
CN	53	221M1053	RU1902227/RU2002094	MG	LAES
CN	54	221M1054	RU1902227/RU2002094	MG	LAES
CN	55	221M1055	RU1902227/RU2002094	MG	LAES
CN	56	221M1056	RU1902227/RU2002094	MG	LAES
CN	57	221M1057	RU2002090/BBC35-1	MG	LAES
CN	58	221M1058	RU2002090/BBC35-1	MG	LAES
CN	59	221M1059	RU2002090/BBC35-1	MG	LAES
CN	60	221M1060	RU2002094/181M1740	MG	LAES
CN	61	221M1061	RU2002094/181M1740	MG	LAES
CN	62	221M1062	RU2002094/181M1740	MG	LAES
CN	63	221M1063	RU2002094/181M1740	MG	LAES
CN	64	221M1064	RU2002094/Jupiter	MG	LAES
CN	65	221M1065	RU2002094/Lynx	MG	LAES
CN	66	221M1066	RU2002094/Lynx	MG	LAES
CN	67	221M1067	RU2002094/Lynx	MG	LAES
CN	68	221M1068	BBC17-1/181M1740	MG	LAES
CN	69	221M1069	BBC17-1/RU1901033	MG	LAES
CN	70	221M1070	BBC35-1/RU1901033	MG	LAES
CN	71	221M1071	BBC35-1/RU1901033	MG	LAES
CN	72	221M1072	BBC35-1/RU2002094	MG	LAES
CN	73	221M1073	BBC35-1/RU2002094	MG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type [†]	Source [‡]
CN	74	221M1074	BBC35-1/Lynx	MG	LAES
CN	75	221M1075	RU1502183/Caffey	MG	LAES
CN	76	221M1076	RU1502183/Caffey	MG	LAES
CN	77	221M1077	RU1502183/Caffey	MG	LAES
CN	78	221M1078	RU1502183/Caffey	MG	LAES
CN	79	221M1079	RU1502183/Caffey	MG	LAES
CN	80	221M1080	RU1502183/Caffey	MG	LAES
CN	81	221M1081	RU1502183/Caffey	MG	LAES
CN	82	221M1082	CL272/RU1801211	MG	LAES
CN	83	221M1083	CL272/RU1801211	MG	LAES
CN	84	221M1084	CL272/RU1801211	MG	LAES
CN	85	221M1085	Jupiter/M206	MG	LAES
CN	86	221M1086	Jupiter/M206	MG	LAES
CN	87	221M1087	Lynx/RU2002090	MG	LAES
CN	88	221M1088	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES
CN	89	221M1089	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES
CN	90	221M1090	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES
CN	91	221M1091	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES
CN	92	221M1092	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES
CN	93	221M1093	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES
CN	94	221M1094	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES
CN	95	221M1095	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES
CN	96	221M1096	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES
CN	97	221M1097	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES
CN	98	221M1098	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type [†]	Source [‡]
CN	99	221M1099	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES
CN	100	221M1100	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES
CN	101	221M1101	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES
CN	102	221M1102	Neptune/5/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars/6/Bengal//Mercury/Rico1/3/Mercury/Rico1//Bengal/4/Mars	MG	LAES
CN	103	221M1103	Titan/RU1801211	MG	LAES
CN	104	221M1104	Titan/RU1801211	MG	LAES
CN	105	221M1105	Titan/RU1801211	MG	LAES
CN	106	221M1106	Titan/RU2002090	MG	LAES
CN	107	221M1107	Titan/RU2002090	MG	LAES
CN	108	221M1108	Titan/RU2002090	MG	LAES
CN	109	221M1109	Titan/RU2002090	MG	LAES
CN	110	221M1110	Titan/RU2002090	MG	LAES
CN	111	221M1111	Titan/RU2002090	MG	LAES
CN	112	221M1112	Titan/RU2002094	MG	LAES
CN	113	221M1113	Titan/RU2002094	MG	LAES
CN	114	221M1114	Titan/RU2002094	MG	LAES
CN	115	221M1115	Titan/RU2002094	MG	LAES
CN	116	221M1116	Titan/M105	MG	LAES
CN	117	221M1117	Titan/M105	MG	LAES
CN	118	Jupiter	Jupiter	MG	LAES
CN	119	Lynx	Lynx	MG	AAES
CN	120	Titan	Titan	MG	AAES

[†] LG = Long grain, MG = Medium grain, AI = Long-grain aromatic-Della type, AL = Long-grain aromatic-Jazzman type, and HI = Long-grain high amylose-Dixiebelles type

[‡] LAES – H. Rouse Caffey Rice Research Station, Louisiana Agricultural Experiment Station, LSU AgCenter, Rayne; AAES – Arkansas Agricultural Experiment Station, Stuttgart, AR; MAES – Delta Research and Extension Center, Stoneville, MS; TAES, USDA – Texas A&M Research and Education Center, Texas Agricultural Experiment Station, U.S. Department of Agriculture, Beaumont, TX; RiceTec, Alvin, TX; and Nutrien Ag Solutions.

Table 3. Grain and milling yields and agronomic performance of entries in the 2022 Conventional Preliminary Yield Long-Grain trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
72	221L1072	5.0	83.0	92.0	63.3	69.6	21.4	10056.9
68	221L1068	5.0	80.0	93.0	64.1	70.1	21.8	10038.3
121	221L1121	5.0	85.0	100.0	61.6	68.7	17.5	9934.2
73	221L1073	5.0	84.0	92.0	61.6	68.1	17.4	9930.8
109	221L1109	5.0	84.0	101.0	63.3	68.8	15.2	9924.5
215	221L1215	5.0	83.0	96.0	61.7	69.7	23.3	9914.1
47	221L1047	5.0	84.0	101.0	61.6	68.2	24.3	9878.6
129	221L1129	5.0	87.0	98.0	58.4	67.4	16.2	9778.5
122	221L1122	5.0	82.0	102.0	59.8	68.6	22.4	9773.4
32	221L1032	5.0	87.0	103.0	61.9	69.3	11.0	9637.4
212	221L1212	5.0	83.0	94.0	66.0	71.0	23.3	9578.0
13	221L1013	5.0	80.0	93.0	62.3	69.6	20.9	9565.5
101	221L1101	3.0	84.0	86.0	66.1	70.4	13.5	9545.5
146	221L1146	5.0	84.0	89.0	62.9	69.0	13.2	9520.4
180	221L1180	5.0	88.0	92.0	63.8	69.3	13.2	9519.7
2	221L1002	5.0	82.0	103.0	61.2	70.2	26.3	9516.0
139	221L1139	5.0	84.0	104.0	60.3	67.8	17.1	9499.2
9	221L1009	5.0	80.0	89.0	63.0	69.7	21.1	9449.4
99	221L1099	5.0	83.0	94.0	61.4	68.4	15.6	9444.0
59	221L1059	5.0	83.0	91.0	63.2	69.7	19.4	9423.6
107	221L1107	5.0	86.0	97.0	64.3	69.4	18.2	9392.1
6	221L1006	5.0	82.0	96.0	63.8	71.1	27.2	9347.5
238	DG263L	5.0	86.0	90.0	55.4	65.3	15.8	9321.2
89	221L1089	5.0	82.0	101.0	64.0	70.6	22.2	9296.7
147	221L1147	5.0	79.0	94.0	55.6	68.1	22.4	9260.9
143	221L1143	5.0	79.0	97.0	58.1	68.2	23.8	9247.4
85	221L1085	5.0	87.0	97.0	65.0	69.9	25.3	9243.8
136	221L1136	5.0	85.0	103.0	65.2	70.5	21.0	9217.3
125	221L1125	5.0	90.0	98.0	59.9	68.2	21.6	9202.4
95	221L1095	5.0	84.0	96.0	59.4	70.0	20.6	9195.3
177	221L1177	3.0	84.0	85.0	57.0	68.5	19.1	9177.2
126	221L1126	5.0	84.0	101.0	59.5	68.6	18.6	9176.2
182	221L1182	5.0	83.0	96.0	63.9	71.3	16.1	9175.5
112	221L1112	5.0	81.0	89.0	60.5	69.8	18.7	9170.5
138	221L1138	5.0	83.0	101.0	62.0	69.2	14.1	9168.6
98	221L1098	5.0	86.0	95.0	63.6	69.9	12.4	9168.3
61	221L1061	5.0	81.0	90.0	64.1	69.9	21.4	9098.5
35	221L1035	5.0	83.0	106.0	59.9	68.6	14.8	9071.0
97	221L1097	5.0	84.0	97.0	61.8	69.8	21.3	9036.3
194	221L1194	5.0	84.0	94.0	56.9	68.4	24.1	9022.8
57	221L1057	5.0	84.0	94.0	62.1	69.0	17.1	8995.5
52	221L1052	5.0	89.0	102.0	62.8	68.7	13.5	8986.4
67	221L1067	5.0	82.0	95.0	63.5	69.7	17.6	8977.4

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
154	221L1154	5.0	84.0	102.0	60.9	68.9	15.0	8975.8
60	221L1060	5.0	80.0	90.0	63.1	70.7	24.1	8974.4
166	221L1166	5.0	87.0	86.0	64.3	69.8	12.2	8973.3
70	221L1070	3.0	84.0	85.0	63.9	68.9	14.6	8962.7
63	221L1063	5.0	78.0	92.0	61.6	69.1	24.1	8956.6
113	221L1113	3.0	83.0	93.0	61.6	69.4	15.8	8948.2
1	221L1001	5.0	82.0	95.0	59.4	68.6	18.2	8926.9
11	221L1011	5.0	78.0	90.0	61.9	69.2	20.5	8922.4
217	221L1217	5.0	84.0	97.0	60.8	69.8	22.5	8899.4
108	221L1108	5.0	86.0	99.0	65.3	71.1	15.4	8899.3
66	221L1066	5.0	79.0	95.0	63.4	70.4	20.6	8893.7
90	221L1090	5.0	86.0	98.0	66.0	70.7	13.3	8863.3
103	221L1103	5.0	80.0	93.0	60.3	69.4	22.0	8850.0
100	221L1100	5.0	82.0	96.0	60.1	68.3	15.8	8848.9
49	221L1049	5.0	89.0	97.0	64.2	68.9	13.8	8840.1
128	221L1128	5.0	86.0	89.0	59.5	67.5	18.0	8822.2
187	221L1187	5.0	83.0	92.0	63.7	70.5	24.6	8821.7
133	221L1133	5.0	80.0	96.0	57.0	69.0	17.9	8788.1
117	221L1117	5.0	84.0	83.0	58.9	68.9	17.2	8766.2
56	221L1056	5.0	80.0	98.0	61.0	70.0	19.0	8742.0
58	221L1058	5.0	84.0	92.0	64.7	70.1	19.0	8732.3
155	221L1155	5.0	85.0	97.0	56.1	68.5	20.5	8728.5
130	221L1130	5.0	84.0	100.0	63.2	70.1	20.8	8727.8
203	221L1203	5.0	81.0	102.0	59.0	69.1	24.8	8720.9
192	221L1192	5.0	87.0	102.0	59.8	67.7	18.9	8712.2
127	221L1127	5.0	88.0	82.0	55.7	66.8	18.1	8679.8
116	221L1116	5.0	82.0	86.0	64.1	69.9	14.6	8678.4
111	221L1111	5.0	85.0	102.0	59.3	67.9	9.6	8648.0
176	221L1176	5.0	87.0	85.0	58.3	68.0	12.4	8646.7
75	221L1075	5.0	87.0	88.0	64.2	68.1	7.0	8642.7
214	221L1214	5.0	82.0	94.0	57.1	67.9	24.2	8624.7
175	221L1175	5.0	84.0	88.0	56.0	67.9	19.0	8610.2
102	221L1102	5.0	80.0	91.0	60.1	68.8	11.1	8608.3
65	221L1065	5.0	80.0	101.0	58.5	69.6	24.0	8571.1
106	221L1106	5.0	79.0	97.0	60.2	68.9	23.5	8539.5
53	221L1053	5.0	86.0	100.0	64.6	70.2	20.1	8534.3
87	221L1087	5.0	83.0	90.0	62.7	69.5	19.1	8528.4
41	221L1041	5.0	87.0	90.0	61.4	69.4	11.3	8511.3
218	221L1218	5.0	84.0	101.0	62.6	69.9	24.9	8509.1
163	221L1163	5.0	82.0	102.0	55.5	68.5	24.4	8506.5
240	Addi Jo	5.0	88.0	96.0	54.6	66.9	19.9	8504.4
37	221L1037	5.0	82.0	90.0	58.2	67.7	19.9	8496.7
152	221L1152	5.0	87.0	96.0	59.8	68.5	13.2	8470.6

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
86	221L1086	5.0	87.0	99.0	62.8	69.2	18.0	8458.4
48	221L1048	5.0	87.0	102.0	61.6	68.6	14.1	8449.1
199	221L1199	5.0	81.0	96.0	62.7	70.7	21.5	8441.2
78	221L1078	5.0	84.0	104.0	60.8	68.4	17.6	8429.5
160	221L1160	5.0	82.0	95.0	57.1	68.0	21.6	8420.4
16	221L1016	5.0	80.0	95.0	47.8	64.2	7.3	8418.4
216	221L1216	5.0	84.0	102.0	60.3	68.5	25.2	8398.9
162	221L1162	5.0	84.0	85.0	60.3	69.4	18.2	8384.5
94	221L1094	5.0	87.0	100.0	61.3	69.3	13.5	8382.5
96	221L1096	5.0	84.0	92.0	61.3	70.5	23.0	8378.9
64	221L1064	5.0	77.0	102.0	60.0	69.1	24.5	8367.7
115	221L1115	5.0	81.0	79.0	63.5	70.5	20.5	8364.6
51	221L1051	5.0	86.0	97.0	63.3	68.9	12.9	8348.6
50	221L1050	5.0	89.0	97.0	62.5	68.4	11.2	8337.9
44	221L1044	5.0	84.0	94.0	60.5	69.3	12.2	8333.9
92	221L1092	5.0	88.0	91.0	63.9	69.0	13.0	8333.1
81	221L1081	5.0	84.0	91.0	62.8	68.9	19.1	8327.4
55	221L1055	5.0	84.0	90.0	60.5	69.1	16.7	8317.5
25	221L1025	5.0	84.0	95.0	53.1	67.3	17.3	8304.7
105	221L1105	5.0	78.0	85.0	61.2	69.6	15.9	8303.9
93	221L1093	5.0	87.0	97.0	62.9	69.1	15.5	8294.6
104	221L1104	5.0	80.0	94.0	61.0	68.7	17.2	8284.0
14	221L1014	5.0	79.0	92.0	61.1	69.4	20.5	8284.0
179	221L1179	5.0	87.0	92.0	64.2	70.1	11.9	8223.3
28	221L1028	5.0	87.0	101.0	57.1	67.5	13.1	8222.7
172	221L1172	5.0	88.0	97.0	64.9	70.5	11.0	8211.8
110	221L1110	5.0	84.0	101.0	61.2	68.1	19.2	8204.6
69	221L1069	5.0	81.0	88.0	67.0	71.3	13.9	8152.7
15	221L1015	5.0	82.0	89.0	60.8	69.1	21.3	8128.8
82	221L1082	5.0	84.0	88.0	63.7	70.4	25.2	8120.9
145	221L1145	5.0	84.0	104.0	58.8	68.2	22.3	8101.7
153	221L1153	5.0	85.0	93.0	63.2	70.8	12.8	8095.6
164	221L1164	5.0	80.0	98.0	61.3	69.9	16.0	8066.6
156	221L1156	5.0	84.0	97.0	58.3	69.2	12.1	8052.2
76	221L1076	3.0	85.0	95.0	63.4	69.7	21.7	8043.0
173	221L1173	5.0	84.0	97.0	63.5	69.4	17.2	8033.2
148	221L1148	5.0	80.0	84.0	60.1	68.5	30.5	8027.7
137	221L1137	5.0	84.0	87.0	60.8	70.2	19.0	8008.8
38	221L1038	5.0	83.0	82.0	63.9	70.6	17.9	8001.4
227	IRGA416	5.0	82.0	99.0	60.3	67.5	5.8	7992.1
196	221L1196	5.0	89.0	93.0	60.5	67.7	11.2	7987.1
209	221L1209	5.0	86.0	105.0	59.8	67.1	11.4	7980.8
169	221L1169	5.0	87.0	86.0	63.6	69.5	11.2	7932.6

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
12	221L1012	5.0	80.0	93.0	60.3	69.0	14.8	7914.8
123	221L1123	5.0	86.0	98.0	63.3	69.9	15.4	7912.3
135	221L1135	5.0	82.0	96.0	63.5	70.1	13.9	7903.7
211	221L1211	5.0	87.0	101.0	59.7	68.5	18.0	7875.2
191	221L1191	5.0	83.0	103.0	54.5	67.1	14.3	7873.4
71	221L1071	5.0	84.0	89.0	63.3	68.9	14.6	7843.8
151	221L1151	5.0	83.0	88.0	59.7	68.0	26.5	7826.3
239	Avant	5.0	78.0	93.0	59.8	69.5	20.5	7825.3
19	221L1019	5.0	84.0	92.0	52.6	68.5	15.5	7817.6
79	221L1079	5.0	84.0	95.0	63.3	70.5	25.6	7813.6
188	221L1188	5.0	88.0	95.0	61.2	69.1	11.0	7809.8
201	221L1201	5.0	84.0	91.0	63.0	70.7	23.9	7792.4
40	221L1040	5.0	84.0	99.0	60.8	68.4	11.4	7782.0
5	221L1005	5.0	86.0	104.0	62.0	68.2	15.0	7775.8
134	221L1134	5.0	84.0	99.0	58.7	68.9	17.6	7751.7
10	221L1010	5.0	79.0	87.0	59.1	68.9	18.3	7746.3
228	IRGA417	5.0	82.0	99.0	57.8	65.8	5.4	7736.6
210	221L1210	5.0	86.0	103.0	62.2	69.3	15.1	7725.0
207	221L1207	5.0	83.0	94.0	59.6	65.4	18.1	7720.4
150	221L1150	5.0	84.0	82.0	60.8	69.5	21.1	7699.7
74	221L1074	5.0	80.0	90.0	64.1	70.2	13.4	7676.3
31	221L1031	5.0	86.0	93.0	59.9	68.2	15.4	7654.3
205	221L1205	5.0	89.0	93.0	60.6	67.8	11.8	7627.1
124	221L1124	5.0	84.0	92.0	63.2	69.7	17.9	7560.9
77	221L1077	5.0	85.0	96.0	63.4	68.8	15.7	7552.0
168	221L1168	5.0	87.0	75.0	61.0	69.6	21.2	7536.4
142	221L1142	5.0	88.0	85.0	62.7	68.2	9.2	7529.9
174	221L1174	7.0	85.0	94.0	61.1	68.1	20.2	7520.0
195	221L1195	5.0	87.0	102.0	61.9	68.1	17.2	7518.4
46	221L1046	5.0	89.0	94.0	62.7	68.3	14.0	7500.3
140	221L1140	5.0	87.0	97.0	63.0	70.0	16.4	7499.4
200	221L1200	5.0	80.0	94.0	59.2	69.7	20.6	7499.1
141	221L1141	5.0	82.0	94.0	59.1	68.2	16.1	7475.5
178	221L1178	5.0	88.0	88.0	59.8	67.7	12.3	7465.3
39	221L1039	5.0	89.0	96.0	62.1	68.7	23.1	7440.4
132	221L1132	5.0	90.0	100.0	58.3	69.3	14.0	7437.9
21	221L1021	5.0	87.0	90.0	66.5	72.0	15.9	7432.3
181	221L1181	5.0	89.0	93.0	61.4	68.7	18.6	7394.5
118	221L1118	5.0	84.0	92.0	63.2	70.2	15.9	7384.8
202	221L1202	5.0	83.0	99.0	61.1	69.9	24.6	7379.9
26	221L1026	5.0	84.0	88.0	50.3	67.0	17.4	7370.9
170	221L1170	5.0	84.0	90.0	64.8	70.0	12.7	7367.4
91	221L1091	5.0	90.0	97.0	60.6	67.5	12.2	7361.1

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
24	221L1024	5.0	86.0	97.0	58.9	68.8	17.8	7345.9
167	221L1167	5.0	91.0	89.0	59.5	68.5	16.0	7340.8
114	221L1114	5.0	79.0	80.0	60.5	69.7	18.0	7302.2
42	221L1042	5.0	84.0	94.0	63.9	71.1	16.8	7298.2
83	221L1083	5.0	84.0	95.0	62.2	68.8	21.3	7281.2
165	221L1165	5.0	86.0	96.0	66.2	71.4	12.3	7268.4
157	221L1157	5.0	86.0	100.0	58.9	69.0	14.6	7250.2
159	221L1159	5.0	87.0	91.0	55.2	68.7	22.7	7203.5
234	221L1234	5.0	75.0	105.0	46.7	63.5	27.3	7142.2
54	221L1054	5.0	84.0	93.0	61.8	69.9	20.4	7141.5
193	221L1193	5.0	84.0	94.0	60.9	67.6	18.0	7115.3
119	221L1119	5.0	89.0	94.0	64.3	70.7	14.2	7111.7
158	221L1158	5.0	87.0	95.0	56.3	68.6	16.2	7089.8
3	221L1003	5.0	80.0	94.0	59.0	68.8	23.3	7072.8
8	221L1008	5.0	77.0	92.0	56.8	68.0	19.5	7066.0
4	221L1004	5.0	84.0	99.0	58.4	68.3	22.9	7061.6
45	221L1045	5.0	87.0	92.0	58.0	68.3	9.7	7040.4
198	221L1198	5.0	84.0	91.0	61.0	69.2	16.6	7016.0
190	221L1190	5.0	86.0	96.0	56.5	68.5	22.0	6993.8
131	221L1131	5.0	89.0	105.0	57.7	68.6	6.6	6928.2
183	221L1183	5.0	90.0	93.0	57.7	68.6	17.5	6855.8
229	221L1229	5.0	74.0	112.0	43.2	62.2	22.5	6839.3
17	221L1017	5.0	87.0	100.0	56.9	66.2	7.3	6829.9
36	221L1036	5.0	89.0	93.0	61.6	67.4	12.8	6811.5
27	221L1027	5.0	86.0	97.0	59.7	67.7	10.9	6804.7
29	221L1029	5.0	84.0	91.0	52.3	65.9	27.6	6787.4
161	221L1161	5.0	82.0	92.0	57.8	69.4	16.5	6695.0
23	221L1023	5.0	85.0	84.0	59.3	68.6	12.8	6674.8
171	221L1171	5.0	91.0	94.0	59.8	67.0	14.4	6670.2
43	221L1043	5.0	88.0	87.0	60.7	69.2	12.2	6639.6
62	221L1062	5.0	78.0	92.0	58.2	67.9	16.9	6571.1
144	221L1144	5.0	88.0	87.0	58.4	67.4	10.3	6563.6
18	221L1018	5.0	87.0	93.0	61.2	69.3	15.1	6528.7
197	221L1197	5.0	84.0	97.0	60.5	67.0	18.7	6525.9
233	221L1233	5.0	77.0	97.0	52.6	62.3	25.7	6468.0
208	221L1208	5.0	89.0	103.0	56.3	66.6	10.9	6453.6
237	Cheniere	5.0	87.0	90.0	63.5	71.4	7.3	6434.7
7	221L1007	5.0	84.0	86.0	56.7	67.8	18.2	6416.2
22	221L1022	5.0	87.0	91.0	58.7	69.0	13.1	6414.3
20	221L1020	5.0	86.0	96.0	59.0	68.8	12.0	6405.6
204	221L1204	5.0	87.0	90.0	63.3	69.5	16.7	6235.9
88	221L1088	5.0	84.0	88.0	59.4	68.8	18.3	6167.0
185	221L1185	5.0	92.0	93.0	54.5	66.8	12.1	6136.8

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
224	Selenio	5.0	74.0	88.0	50.3	64.9	21.9	6105.0
213	221L1213	5.0	86.0	89.0	57.1	68.4	24.4	6025.6
235	221L1235	5.0	74.0	100.0	45.5	60.8	34.3	6017.8
30	221L1030	5.0	84.0	84.0	53.5	68.0	20.4	6001.3
186	221L1186	5.0	87.0	90.0	54.1	66.1	11.4	5975.4
189	221L1189	5.0	87.0	94.0	52.2	67.4	19.4	5929.4
206	221L1206	5.0	84.0	87.0	58.1	67.2	13.2	5927.3
236	221L1236	5.0	80.0	94.0	52.8	61.2	31.2	5878.3
80	221L1080	5.0	85.0	86.0	61.3	68.5	15.3	5876.2
230	221L1230	5.0	74.0	97.0	36.0	59.8	31.3	5867.3
149	221L1149	5.0	81.0	93.0	58.2	67.3	19.3	5760.8
232	221L1232	5.0	74.0	111.0	43.9	62.5	21.6	5655.7
223	Roma	5.0	75.0	110.0	47.0	60.6	34.2	5616.3
84	221L1084	5.0	87.0	95.0	58.4	66.8	18.6	5512.0
226	IRGA408	5.0	89.0	104.0	57.3	67.6	5.7	5499.8
34	221L1034	5.0	91.0	91.0	56.6	66.5	14.0	5421.4
231	221L1231	7.0	74.0	110.0	47.5	62.3	46.3	5393.0
33	221L1033	5.0	87.0	105.0	50.3	65.6	12.8	5204.7
222	Nero	5.0	78.0	103.0	41.9	58.8	36.8	5192.3
120	221L1120	5.0	83.0	90.0	60.0	69.0	20.9	5152.4
225	Br-IRGA411	5.0	84.0	114.0	53.9	63.7	12.4	4928.6
184	221L1184	5.0	87.0	88.0	36.7	62.0	13.5	4675.8
221	Maratelli	5.0	70.0	107.0	27.2	56.4	40.9	4529.5
220	Carnaroli	5.0	73.0	101.0	48.7	62.0	20.5	3544.1

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 4. Grain and milling yields and agronomic performance of entries in the 2022 Conventional Preliminary Yield Long-Grain trial – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
143	221L1143	5.0	70.0	111.0	59.5	70.1	26.9	11441.5
87	221L1087	5.0	71.0	96.0	63.7	70.5	26.6	10918.5
1	221L1001	5.0	72.0	104.0	59.5	69.6	24.0	10857.0
126	221L1126	5.0	74.0	108.0	64.2	70.6	21.4	10747.4
9	221L1009	5.0	70.0	94.0	64.0	71.7	22.2	10619.6
211	221L1211	5.0	78.0	103.0	66.5	72.4	22.9	10495.3
203	221L1203	5.0	71.0	105.0	64.5	72.2	36.3	10454.3
67	221L1067	5.0	68.0	93.0	65.4	72.5	20.2	10403.6
240	Addi Jo	5.0	78.0	96.0	62.5	69.8	21.7	10388.2
60	221L1060	5.0	70.0	101.0	65.6	71.6	32.2	10330.7
145	221L1145	5.0	74.0	110.0	62.5	70.5	25.3	10323.2
99	221L1099	5.0	68.0	98.0	66.2	72.7	18.6	10320.9
24	221L1024	5.0	78.0	109.0	64.3	71.1	19.4	10297.4
7	221L1007	5.0	75.0	100.0	64.4	72.0	24.6	10284.7
26	221L1026	5.0	74.0	101.0	59.8	70.4	22.5	10192.3
213	221L1213	5.0	74.0	99.0	67.3	73.6	29.2	10160.2
170	221L1170	5.0	71.0	87.0	65.9	72.4	17.2	10152.0
4	221L1004	5.0	73.0	106.0	62.5	71.6	33.2	10139.0
13	221L1013	5.0	68.0	96.0	63.3	70.5	14.7	10111.9
98	221L1098	5.0	75.0	101.0	66.1	71.8	20.1	10105.7
61	221L1061	5.0	70.0	100.0	65.6	72.1	24.1	10063.3
110	221L1110	5.0	74.0	105.0	64.9	71.6	24.4	10055.0
89	221L1089	5.0	74.0	106.0	67.9	73.5	20.1	9987.2
94	221L1094	5.0	80.0	107.0	66.8	72.6	16.9	9979.9
72	221L1072	5.0	71.0	102.0	67.1	72.2	24.1	9971.1
3	221L1003	5.0	70.0	101.0	64.3	71.7	31.9	9967.3
150	221L1150	5.0	74.0	94.0	62.8	70.2	18.5	9957.8
202	221L1202	5.0	70.0	107.0	66.1	72.4	26.0	9923.9
218	221L1218	5.0	74.0	110.0	66.8	72.6	26.8	9915.7
216	221L1216	5.0	73.0	105.0	65.9	72.3	29.3	9880.7
97	221L1097	5.0	75.0	100.0	65.4	72.8	18.6	9854.4
66	221L1066	5.0	69.0	98.0				9824.9
79	221L1079	5.0	77.0	105.0	64.7	71.2	24.1	9805.3
73	221L1073	5.0	71.0	99.0	60.0	71.2	18.8	9801.4
84	221L1084	5.0	77.0	99.0	68.2	72.8	30.9	9746.6
137	221L1137	5.0	74.0	100.0	62.8	71.8	19.9	9737.9
32	221L1032	5.0	78.0	112.0	61.2	69.6	19.0	9728.1
139	221L1139	5.0	76.0	107.0	66.8	72.2	18.5	9721.1
199	221L1199	5.0	70.0	102.0	63.7	72.0	24.6	9709.4
58	221L1058	5.0	74.0	102.0	63.5	71.8	19.7	9687.8
15	221L1015	5.0	70.0	96.0	63.2	70.8	19.1	9686.1
148	221L1148	5.0	74.0	96.0	59.3	69.6	34.3	9673.7
112	221L1112	5.0	68.0	99.0	64.5	73.1	24.6	9659.3

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
107	221L1107	5.0	75.0	91.0	67.6	72.6	22.0	9635.1
190	221L1190	5.0	73.0	100.0	61.2	70.4	27.0	9626.3
144	221L1144	5.0	80.0	96.0	68.0	73.6	20.3	9610.9
100	221L1100	5.0	72.0	101.0	63.5	72.0	23.2	9608.0
12	221L1012	5.0	68.0	99.0	61.9	71.5	24.2	9606.7
10	221L1010	5.0	70.0	96.0	61.0	70.5	17.7	9601.7
106	221L1106	5.0	70.0	101.0	61.0	69.8	20.6	9575.5
171	221L1171	5.0	79.0	91.0	64.1	71.2	13.7	9565.1
54	221L1054	5.0	74.0	102.0	67.8	73.8	24.5	9549.0
217	221L1217	5.0	74.0	106.0	63.0	71.0	23.9	9541.4
113	221L1113	5.0	72.0	99.0	65.6	72.6	20.4	9529.1
198	221L1198	5.0	71.0	115.0	63.8	71.0	17.5	9527.3
14	221L1014	5.0	70.0	102.0	64.8	71.2	23.5	9507.8
175	221L1175	5.0	73.0	91.0	58.2	70.0	30.1	9498.4
8	221L1008	5.0	68.0	99.0	63.9	70.8	23.5	9496.0
182	221L1182	5.0	72.0	108.0	60.2	71.2	16.3	9472.7
214	221L1214	5.0	72.0	105.0	62.0	71.8	33.0	9465.7
212	221L1212	5.0	73.0	99.0	64.1	72.5	22.4	9463.4
81	221L1081	5.0	78.0	106.0	66.5	71.9	21.0	9460.4
93	221L1093	5.0	77.0	101.0	65.2	70.7	17.8	9457.9
57	221L1057	5.0	74.0	99.0	66.4	72.9	18.1	9448.6
141	221L1141	5.0	74.0	105.0	64.8	70.5	24.9	9448.6
23	221L1023	5.0	75.0	83.0	66.3	72.7	19.3	9427.0
109	221L1109	5.0	74.0	110.0	63.2	70.6	18.7	9419.5
70	221L1070	5.0	73.0	98.0	64.9	70.7	16.1	9415.6
11	221L1011	5.0	69.0	94.0	62.8	70.8	18.9	9410.9
80	221L1080	5.0	78.0	102.0	66.8	72.0	24.2	9408.8
146	221L1146	5.0	73.0	89.0	60.6	70.0	17.2	9395.5
91	221L1091	5.0	83.0	111.0	65.2	71.3	20.8	9392.7
92	221L1092	5.0	79.0	99.0	69.0	72.7	17.8	9387.8
201	221L1201	5.0	74.0	105.0	63.2	70.9	24.9	9365.0
102	221L1102	5.0	70.0	94.0	66.8	73.6	12.9	9364.8
27	221L1027	5.0	74.0	104.0	65.0	69.9	14.0	9356.5
2	221L1002	5.0	73.0	113.0	64.4	72.5	36.2	9347.5
44	221L1044	5.0	72.0	101.0	65.1	72.9	22.2	9339.5
169	221L1169	5.0	74.0	88.0	61.2	68.3	11.6	9339.2
5	221L1005	5.0	74.0	109.0	65.3	71.1	21.3	9332.8
147	221L1147	5.0	70.0	95.0	51.7	68.2	22.7	9331.2
136	221L1136	5.0	76.0	108.0	63.4	70.7	17.1	9331.0
172	221L1172	5.0	78.0	103.0	66.2	71.6	14.7	9325.8
101	221L1101	5.0	71.0	96.0	66.0	72.6	15.8	9319.7
156	221L1156	5.0	74.0	109.0	65.4	72.8	19.4	9295.5
179	221L1179	5.0	75.0	96.0	66.1	72.1	11.3	9295.4

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
129	221L1129	5.0	75.0	108.0	60.1	69.8	23.5	9289.0
65	221L1065	5.0	69.0	104.0	61.4	71.0	34.0	9285.5
154	221L1154	5.0	73.0	105.0	62.0	70.3	19.0	9279.1
200	221L1200	5.0	70.0	95.0	63.3	72.0	27.5	9264.7
121	221L1121	5.0	75.0	111.0	62.6	69.6	19.2	9239.0
151	221L1151	5.0	74.0	93.0	59.9	70.0	33.2	9218.3
103	221L1103	5.0	70.0	96.0	65.4	72.9	23.6	9213.8
37	221L1037	5.0	70.0	100.0	61.1	69.4	23.9	9211.6
174	221L1174	5.0	73.0	106.0	62.1	69.1	20.4	9169.9
167	221L1167	5.0	81.0	90.0	65.5	72.7	20.0	9165.5
78	221L1078	5.0	76.0	109.0	62.8	70.8	24.1	9152.6
115	221L1115	5.0	70.0	88.0	65.7	71.9	25.2	9131.8
215	221L1215	5.0	74.0	109.0	65.6	72.6	30.4	9123.2
138	221L1138	5.0	74.0	112.0	62.2	70.2	18.9	9119.8
68	221L1068	5.0	69.0	96.0	59.3	70.4	19.0	9118.8
135	221L1135	5.0	74.0	98.0	68.4	73.8	19.9	9117.4
187	221L1187	5.0	70.0	108.0	64.4	71.8	27.3	9091.3
149	221L1149	5.0	73.0	96.0	64.1	70.1	23.7	9067.3
62	221L1062	5.0	68.0	105.0	59.5	69.6	20.9	9063.3
111	221L1111	5.0	75.0	105.0	63.9	71.2	18.3	9058.3
82	221L1082	5.0	76.0	100.0	64.7	71.2	30.5	9039.8
85	221L1085	5.0	77.0	105.0	66.3	71.6	30.2	9039.6
133	221L1133	5.0	72.0	114.0	62.7	71.0	27.0	9034.8
76	221L1076	5.0	75.0	109.0	62.7	69.8	28.2	9027.1
83	221L1083	5.0	77.0	108.0	65.3	71.6	28.4	9025.1
152	221L1152	5.0	74.0	106.0	65.9	72.4	24.4	9017.3
124	221L1124	5.0	74.0	99.0	64.9	71.1	20.6	8996.0
180	221L1180	5.0	75.0	100.0	67.0	71.7	13.8	8994.4
114	221L1114	5.0	69.0	92.0	64.3	70.9	22.1	8988.4
108	221L1108	5.0	78.0	110.0	67.4	73.1	21.0	8979.6
95	221L1095	5.0	78.0	105.0	63.3	71.2		8977.7
177	221L1177	5.0	72.0	91.0	56.8	70.2	27.0	8967.9
22	221L1022	5.0	75.0	91.0	64.5	71.8	20.0	8956.3
64	221L1064	5.0	68.0	101.0	65.1	72.2	23.3	8943.6
122	221L1122	5.0	72.0	98.0	64.5	71.4	29.6	8941.7
35	221L1035	5.0	73.0	104.0	62.4	70.7	18.5	8929.3
194	221L1194	5.0	72.0	106.0	59.7	69.0	22.1	8923.5
25	221L1025	5.0	76.0	110.0	62.8	71.1	23.4	8918.4
63	221L1063	5.0	70.0	102.0	63.3	70.5	28.1	8888.7
105	221L1105	5.0	66.0	91.0	67.1	73.3	19.9	8882.5
77	221L1077	5.0	80.0	107.0	66.3	72.1	20.8	8836.6
160	221L1160	5.0	71.0	97.0	65.0	72.3	30.5	8831.6
176	221L1176	5.0	74.0	89.0	62.7	71.9	21.7	8780.3

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
193	221L1193	5.0	75.0	115.0	67.5	72.5	17.5	8779.0
86	221L1086	5.0	75.0	99.0	63.9	70.9	22.2	8760.0
128	221L1128	5.0	76.0	93.0	62.6	70.3	25.3	8728.2
6	221L1006	5.0	76.0	99.0	65.5	72.8	26.5	8714.5
56	221L1056	5.0	70.0	102.0	62.4	71.3	27.7	8712.8
117	221L1117	5.0	75.0	94.0	66.8	73.6	23.8	8692.1
155	221L1155	5.0	72.0	105.0	61.3	70.3	25.0	8679.5
71	221L1071	5.0	74.0	97.0	65.0	70.7	14.5	8663.5
28	221L1028	5.0	78.0	107.0	62.6	70.2	16.1	8621.7
132	221L1132	5.0	78.0	101.0	64.4	72.8	18.0	8616.1
228	IRGA417	5.0	69.0	102.0	61.7	69.4	12.4	8575.6
104	221L1104	5.0	70.0	101.0	63.8	71.4	18.2	8573.2
238	DG263L	5.0	71.0	93.0	56.2	66.4	25.2	8552.6
166	221L1166	5.0	74.0	89.0	66.6	71.6	13.4	8550.3
119	221L1119	5.0	77.0	98.0	63.6	69.9	13.0	8549.8
189	221L1189	5.0	74.0	95.0	60.8	70.6		8545.6
59	221L1059	5.0	71.0	91.0	63.5	71.9	23.4	8534.4
38	221L1038	5.0	70.0	95.0	63.2	71.9	21.5	8504.5
188	221L1188	5.0	75.0	96.0	63.1	70.7	14.5	8503.1
55	221L1055	5.0	73.0	101.0	56.6	70.5	22.7	8483.6
118	221L1118	5.0	74.0	103.0	65.6	71.7	17.3	8474.9
47	221L1047	5.0	72.0	106.0	63.8	71.7	29.7	8466.2
116	221L1116	5.0	71.0	92.0	64.6	70.9	18.3	8456.8
48	221L1048	5.0	74.0	106.0	64.3	71.2	15.8	8406.7
74	221L1074	5.0	70.0	96.0	66.3	72.5	16.4	8369.3
227	IRGA416	5.0	69.0	120.0	61.9	70.6	9.2	8365.2
134	221L1134	5.0	75.0	100.0	61.8	70.9	21.7	8342.4
178	221L1178	5.0	75.0	91.0	64.3	70.9	15.0	8338.0
163	221L1163	5.0	72.0	105.0	54.8	68.9	33.5	8319.9
157	221L1157	5.0	71.0	104.0	65.3	72.8	24.8	8301.8
239	Avant	5.0	70.0	96.0	63.1	70.6	15.3	8294.2
51	221L1051	5.0	74.0	109.0	65.5	70.8	14.5	8274.6
49	221L1049	5.0	75.0	97.0	59.7	69.2	16.1	8252.7
96	221L1096	5.0	75.0	97.0	66.9	73.1	21.6	8227.1
75	221L1075	5.0	74.0	89.0	63.3	70.1	13.0	8194.8
161	221L1161	5.0	74.0	104.0	64.1	71.6	23.1	8194.6
125	221L1125	5.0	78.0	101.0	62.7	70.6	27.8	8193.4
53	221L1053	5.0	76.0	105.0	67.4	73.1	22.7	8189.2
120	221L1120	5.0	74.0	103.0	66.7	72.0	23.6	8180.5
88	221L1088	5.0	76.0	102.0	60.9	69.2	17.0	8162.0
235	221L1235	5.0	67.0	112.0	41.9	59.0	45.5	8159.1
142	221L1142	5.0	78.0	89.0	67.0	72.0	13.8	8126.9
205	221L1205	5.0	78.0	99.0	64.3	70.5	16.6	8107.5

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
159	221L1159	5.0	74.0	100.0	62.6	71.6	27.0	8104.9
52	221L1052	5.0	78.0	102.0	66.6	72.0	16.2	8082.4
181	221L1181	5.0	78.0	99.0	64.6	70.8	19.7	8056.8
237	Cheniere	5.0	75.0	92.0	69.5	74.7	15.4	8051.7
162	221L1162	5.0	77.0	97.0	64.8	72.2	24.3	8031.7
123	221L1123	5.0	74.0	108.0	63.2	69.9	13.8	8028.6
45	221L1045	5.0	76.0	99.0	66.2	72.7	18.3	8021.7
50	221L1050	5.0	76.0	102.0	64.8	71.0	12.2	8011.4
140	221L1140	5.0	74.0	104.0	62.0	71.0	17.9	7991.6
186	221L1186	5.0	74.0	96.0	59.8	68.2	21.0	7972.0
20	221L1020	5.0	77.0	106.0	66.7	73.0	18.3	7932.7
29	221L1029	5.0	73.0	105.0	51.4	66.3	37.4	7898.1
18	221L1018	5.0	74.0	102.0	61.8	70.9	18.3	7873.4
130	221L1130	5.0	73.0	102.0	60.6	69.6	21.4	7872.5
46	221L1046	5.0	78.0	95.0	63.4	70.1	12.1	7852.3
131	221L1131	5.0	79.0	105.0	62.8	72.0	17.2	7809.2
168	221L1168	5.0	78.0	92.0	56.5	68.6	17.1	7738.8
127	221L1127	5.0	75.0	105.0	59.4	69.8	27.2	7729.3
30	221L1030	5.0	72.0	97.0	56.1	69.1	23.5	7716.1
19	221L1019	5.0	71.0	89.0	62.6	72.0	18.6	7643.1
40	221L1040	5.0	74.0	107.0	61.5	70.5	20.5	7527.5
185	221L1185	5.0	80.0	95.0	65.1	72.7	14.6	7526.6
195	221L1195	5.0	75.0	109.0	64.7	70.5	16.8	7521.3
196	221L1196	5.0	78.0	106.0	61.1	68.7	18.1	7387.0
36	221L1036	5.0	76.0	91.0	64.3	70.4	20.0	7385.5
173	221L1173	5.0	74.0	105.0	64.4	71.1	20.4	7381.6
31	221L1031	5.0	75.0	95.0	59.1	70.6	19.6	7367.5
69	221L1069	5.0	73.0	93.0	66.9	71.2	14.6	7339.6
90	221L1090	5.0	74.0	106.0	60.9	69.3	11.9	7311.8
207	221L1207	5.0	74.0	95.0	60.1	68.8	21.4	7285.8
165	221L1165	5.0	76.0	98.0	67.6	72.9	11.5	7247.6
153	221L1153	5.0	71.0	98.0	62.3	71.1	18.5	7227.6
191	221L1191	5.0	71.0	115.0	56.3	70.0	18.7	7096.0
42	221L1042	5.0	74.0	100.0	57.3	70.6	18.9	7086.9
183	221L1183	5.0	78.0	103.0	61.9	70.7	18.8	7013.9
158	221L1158	5.0	76.0	102.0	64.9	74.4	30.6	6985.0
17	221L1017	5.0	73.0	106.0	58.9	68.9	13.9	6948.8
43	221L1043	5.0	76.0	102.0	62.1	70.9	10.7	6840.4
224	Selenio	3.0	63.0	106.0	44.6	62.3	29.0	6838.5
225	Br-IRGA411	5.0	75.0	121.0	62.4	68.3	21.8	6806.6
34	221L1034	5.0	79.0	106.0	59.4	69.2	21.8	6723.8
39	221L1039	5.0	77.0	100.0	63.8	70.7	23.1	6712.1
226	IRGA408	5.0	74.0	121.0	57.1	68.2	10.2	6711.0

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
16	221L1016	5.0	67.0	94.0	48.1	64.1	13.8	6431.7
41	221L1041	5.0	76.0	93.0	54.8	68.1	20.2	6347.0
33	221L1033	5.0	75.0	105.0	52.0	65.6	15.7	6343.5
209	221L1209	5.0	75.0	105.0	57.3	66.5	17.8	6272.3
204	221L1204	5.0	75.0	94.0	64.1	71.4	17.6	6006.1
233	221L1233	5.0	69.0	114.0	49.8	62.0	41.0	5988.5
206	221L1206	5.0	75.0	95.0	53.7	65.6	20.5	5940.8
236	221L1236	3.0	71.0	110.0	46.0	58.5	44.3	5911.2
192	221L1192	5.0	76.0	111.0	55.8	66.7	20.3	5616.0
232	221L1232	5.0	66.0	119.0	40.0	61.9	36.3	5603.6
21	221L1021	5.0	75.0	102.0	68.5	73.2	12.6	5556.9
231	221L1231	5.0	67.0	112.0	48.7	62.7	52.1	5379.4
220	Carnaroli	5.0	65.0	117.0	50.2	63.5	33.8	5357.5
208	221L1208	5.0	79.0	106.0	56.7	67.7	13.8	5243.9
197	221L1197	5.0	75.0	110.0	64.0	70.6	20.7	5230.6
164	221L1164	5.0	71.0	105.0	57.0	68.6	16.6	5204.8
229	221L1229	5.0	67.0	122.0	40.8	61.0	34.5	4926.0
210	221L1210	5.0	76.0	95.0	53.2	67.9	22.1	4882.6
234	221L1234	5.0	67.0	101.0	49.1	63.5	36.0	4661.0
230	221L1230	5.0	66.0	117.0	25.6	56.4	42.2	4484.0
221	Maratelli	5.0	59.0	110.0	24.1	54.8	31.1	3553.0
222	Nero	5.0	66.0	116.0	40.4	60.1	34.6	3010.5
184	221L1184	5.0	74.0	103.0	25.0	50.7	29.6	2372.5
223	Roma	5.0	67.0	117.0	52.1	65.1	25.2	1638.2

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 5. Grain and milling yields and agronomic performance of entries in the 2020 Conventional Preliminary Yield Medium-Grain trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
32	221M1032	3.0	83.0		66.6	70.7	3.9	9317.3
21	221M1021	3.0	82.0		60.4	68.2	9.1	8575.2
23	221M1023	3.0	81.0		64.8	69.0	9.2	8530.1
25	221M1025	3.0	83.0			69.6	7.1	8471.5
10	221M1010	3.0	84.0		66.5	70.4	5.9	8307.4
33	221M1033	3.0	83.0		63.8	70.1	4.9	8287.6
30	221M1030	3.0	84.0		65.9	69.0	4.7	8212.8
36	221M1036	5.0	83.0		68.6	71.4	6.3	8043.9
83	221M1083	5.0	83.0		68.1	71.8	5.8	8019.0
84	221M1084	3.0	82.0		63.5	70.1	5.4	8006.2
15	221M1015	3.0	82.0		65.2	69.5	5.0	7994.5
94	221M1094	5.0	82.0		66.8	70.9	6.7	7957.5
115	221M1115	3.0	83.0		62.8	68.8	4.0	7876.2
70	221M1070	3.0	81.0		60.7	69.4	5.1	7829.4
24	221M1024	3.0	79.0		64.2	68.5	9.1	7819.8
88	221M1088	5.0	83.0		68.5	71.6	6.1	7781.2
16	221M1016	3.0	82.0		67.0	70.3	7.0	7771.8
12	221M1012	3.0	84.0		67.4	70.7	6.9	7769.2
112	221M1112	3.0	82.0		62.0	65.6	6.8	7722.5
104	221M1104	3.0	82.0		61.3	68.3	10.7	7708.7
107	221M1107	5.0	84.0		64.1	68.3	9.4	7702.7
31	221M1031	3.0	84.0		64.1	69.2	3.9	7690.7
37	221M1037	3.0	78.0		65.7	70.4	4.9	7690.6
4	221M1004	3.0	83.0		64.1	69.5	4.1	7679.1
57	221M1057	3.0	83.0		65.9	70.6	4.0	7659.4
119	Lynx	3.0	85.0		65.2	68.9	5.7	7647.2
17	221M1017	5.0	82.0		68.5	71.5	5.1	7537.9
42	221M1042	3.0	85.0		65.6	68.9	6.0	7535.3
9	221M1009	3.0	82.0		67.7	70.2	4.8	7530.2
34	221M1034	5.0	78.0		64.3	70.2	9.4	7522.6
76	221M1076	3.0	83.0		69.0	71.7	5.1	7500.5
61	221M1061	5.0	78.0		63.0	68.8	5.1	7499.5
35	221M1035	3.0	83.0		60.8	66.1	10.9	7493.2
13	221M1013	3.0	83.0		65.8	70.4	8.4	7488.2
41	221M1041	5.0	85.0		68.5	71.7	4.6	7453.6
71	221M1071	3.0	83.0		64.5	70.7	4.4	7452.1
58	221M1058	3.0	85.0		68.4	71.2	5.3	7439.3
19	221M1019	3.0	83.0		63.7	69.4	6.4	7429.9
113	221M1113	5.0	82.0		68.3	71.3	5.9	7420.8
45	221M1045	3.0	85.0		65.3	69.6	7.9	7399.6
74	221M1074	5.0	77.0		60.5	69.0	6.6	7393.4
91	221M1091	3.0	82.0		67.7	71.5	6.3	7384.5
89	221M1089	3.0	81.0		66.2	70.8	8.2	7382.5

Continued.

Table 5. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
44	221M1044	3.0	82.0		66.5	71.0	4.9	7355.9
6	221M1006	3.0	83.0		66.9	70.2	1.8	7347.4
46	221M1046	3.0	85.0		66.5	69.9	6.5	7345.6
111	221M1111	3.0	84.0		68.2	71.0	8.4	7325.1
69	221M1069	5.0	82.0		65.6	70.6	4.4	7321.3
53	221M1053	3.0	83.0		68.8	71.5	4.4	7318.2
63	221M1063	3.0	78.0		61.1	69.4	6.7	7308.4
101	221M1101	3.0	83.0		66.0	70.0	6.7	7300.4
18	221M1018	3.0	81.0		61.3	69.0	7.3	7288.6
105	221M1105	3.0	82.0		63.2	69.1	10.2	7272.6
120	Titan	3.0	79.0		62.3	64.9	7.2	7272.0
48	221M1048	5.0	85.0		65.8	69.3	4.8	7213.1
50	221M1050	3.0	85.0		66.4	70.0	4.0	7204.4
90	221M1090	3.0	82.0		65.6	70.1	5.8	7161.9
87	221M1087	5.0	86.0		62.3	67.5	8.1	7161.8
40	221M1040	3.0	83.0		67.4	70.9	4.5	7149.2
5	221M1005	5.0	82.0		63.3	67.8	9.2	7143.0
55	221M1055	5.0	82.0		67.1	70.8	4.6	7109.9
118	Jupiter	3.0	87.0		65.5	69.3	10.7	7103.9
100	221M1100	3.0	84.0		66.2	70.2	4.4	7100.0
65	221M1065	3.0	83.0		63.9	69.5	6.5	7095.6
20	221M1020	3.0	77.0		59.6	69.7	4.0	7072.7
96	221M1096	5.0	82.0		66.2	69.9	4.9	7032.1
72	221M1072	3.0	83.0		58.9	68.9	4.5	7030.5
79	221M1079	3.0	85.0		63.7	68.4	7.5	6999.9
81	221M1081	5.0	84.0		67.2	70.0	5.9	6987.4
59	221M1059	3.0	83.0		65.5	69.9	6.4	6986.6
3	221M1003	5.0	82.0		69.3	71.5	7.4	6984.8
28	221M1028	3.0	75.0		60.9	68.5	11.9	6978.5
14	221M1014	5.0	84.0		64.9	70.2	6.1	6973.6
77	221M1077	3.0	85.0		62.7	68.5	10.8	6915.2
49	221M1049	3.0	84.0		66.8	71.2	3.7	6855.4
80	221M1080	5.0	83.0		65.6	69.1	5.3	6852.2
8	221M1008	3.0	77.0		63.3	69.7	4.5	6811.8
52	221M1052	3.0	83.0		67.3	71.4	5.2	6808.0
95	221M1095	3.0	84.0		63.7	67.7	5.2	6806.3
51	221M1051	3.0	81.0		64.7	69.9	6.1	6778.8
78	221M1078	5.0	82.0		70.0	73.1	8.8	6680.9
97	221M1097	5.0	83.0		68.4	71.4	6.5	6658.3
56	221M1056	5.0	82.0		61.2	67.8	7.1	6653.9
22	221M1022	5.0	82.0		61.3	68.1	5.6	6633.1
29	221M1029	3.0	86.0		59.9	67.0	5.9	6630.8
68	221M1068	3.0	82.0		59.8	69.8	5.5	6626.9

Continued.

Table 5. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
39	221M1039	3.0	81.0		60.3	67.8	6.4	6626.6
109	221M1109	3.0	84.0		60.2	66.8	12.6	6589.1
103	221M1103	3.0	81.0		62.0	70.1	6.8	6578.7
114	221M1114	5.0	82.0		67.3	70.4	9.2	6530.5
82	221M1082	3.0	81.0		59.0	67.2	5.3	6491.6
73	221M1073	3.0	82.0		52.3	67.4	5.4	6472.1
106	221M1106	3.0	86.0		66.1	69.3	9.4	6467.8
102	221M1102	5.0	84.0		64.6	69.9	6.4	6456.3
92	221M1092	5.0	83.0		66.5	70.1	7.9	6452.1
108	221M1108	5.0	83.0		61.3	67.7	7.2	6430.1
1	221M1001	3.0	80.0		62.4	68.2	6.6	6392.8
93	221M1093	3.0	82.0		65.8	71.1	5.0	6368.8
26	221M1026	3.0	77.0		61.2	67.3	3.9	6306.5
27	221M1027	3.0	83.0		62.7	68.8	6.6	6304.7
75	221M1075	3.0	83.0		65.5	70.3	5.3	6179.8
64	221M1064	3.0	85.0		65.6	69.2	8.9	6150.2
54	221M1054	3.0	77.0		58.0	66.8	7.0	6064.3
60	221M1060	3.0	78.0		56.5	67.3	5.8	6003.9
98	221M1098	7.0	82.0		56.8	67.1	7.1	5992.6
67	221M1067	3.0	81.0		61.0	68.5	6.2	5893.6
85	221M1085	3.0	78.0		52.3	64.3	12.9	5869.1
2	221M1002	5.0	84.0		63.7	69.3	5.3	5649.3
62	221M1062	3.0	83.0		64.0	70.2	3.3	5466.2
47	221M1047	3.0	85.0		63.9	69.6	4.2	5430.7
86	221M1086	3.0	84.0		62.9	67.4	8.1	5364.3
43	221M1043	3.0	81.0		58.6	69.1	7.9	5294.5
38	221M1038	3.0	83.0		55.7	68.0	3.7	4964.0
11	221M1011	3.0	84.0		62.5	67.1	7.2	4919.5
117	221M1117	3.0	83.0		64.1	68.7	5.7	4887.7
7	221M1007	5.0	83.0		56.1	67.3	6.5	4645.4
66	221M1066	3.0	83.0		59.7	67.8	4.6	4632.3
99	221M1099	5.0	80.0		60.1	68.1	5.6	4449.0
110	221M1110	3.0	79.0			57.0	7.2	4219.0
116	221M1116	5.0	82.0		59.0	67.2	9.7	4131.4

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 6. Grain and milling yields and agronomic performance of entries in the 2020 Conventional Preliminary Yield Medium-Grain trial – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
119	Lynx		75.0	100.0	63.8	68.9	6.3	9922.3
95	221M1095		78.0	90.0	65.1	68.4	5.3	9634.0
33	221M1033		75.0	105.0	50.0	66.4	4.5	9426.3
83	221M1083		75.0	114.0	66.6	71.7	4.7	9358.6
21	221M1021		74.0	95.0	55.2	66.5	8.2	9196.4
48	221M1048		76.0	99.0	64.1	68.3	4.9	9123.1
118	Jupiter		79.0	95.0	64.1	67.3	7.2	9053.8
78	221M1078		76.0	94.0	67.7	73.0	9.8	9003.5
79	221M1079		77.0	100.0	63.2	67.9	8.1	8893.0
41	221M1041		76.0	104.0	62.5	68.7	4.5	8885.6
39	221M1039		75.0	114.0	62.5	68.2	5.7	8817.6
20	221M1020		72.0	93.0	57.8	67.4	4.1	8802.1
37	221M1037		73.0	100.0	61.1	67.8	3.4	8745.0
56	221M1056		73.0	97.0	60.4	66.9	7.6	8733.9
61	221M1061		72.0	96.0	61.2	67.3	5.2	8662.9
55	221M1055		73.0	102.0	63.4	68.5	4.1	8619.5
44	221M1044		74.0	98.0	62.9	68.5	4.5	8601.1
97	221M1097		74.0	96.0	65.4	68.5	3.9	8593.8
17	221M1017		73.0	94.0	65.5	69.7	5.0	8589.1
15	221M1015		72.0	98.0	65.2	69.1	5.5	8584.6
6	221M1006		73.0	102.0	61.6	68.8	5.4	8577.9
87	221M1087		78.0	105.0	61.2	67.8	8.1	8553.1
58	221M1058		75.0	90.0	59.9	67.8	4.4	8538.3
45	221M1045		77.0	94.0	63.3	67.8	9.3	8535.0
76	221M1076		78.0	93.0	63.5	68.5	6.6	8520.9
50	221M1050		77.0	89.0	62.7	67.7	4.7	8512.0
88	221M1088		77.0	90.0	65.1	69.0	8.2	8500.9
68	221M1068		73.0	88.0	61.0	68.2	5.1	8500.1
19	221M1019		75.0	96.0	62.3	68.3	8.2	8489.3
105	221M1105		72.0	93.0	53.0	66.3	6.4	8460.7
65	221M1065		71.0	102.0	54.8	66.4	7.7	8441.2
49	221M1049		76.0	86.0	64.2	69.1	5.3	8435.9
24	221M1024		72.0	101.0	61.3	67.1	8.2	8424.4
16	221M1016		75.0	98.0	63.2	68.7	6.4	8407.7
40	221M1040		75.0	84.0	61.5	69.1	4.8	8398.5
3	221M1003		74.0	103.0	64.0	69.2	7.4	8394.8
52	221M1052		74.0	99.0	64.2	69.1	7.2	8369.3
72	221M1072		72.0	84.0	58.4	67.9	5.1	8332.7
31	221M1031		77.0	105.0	53.3	67.0	5.4	8319.2
94	221M1094		74.0	89.0	62.6	67.8	7.8	8318.8
74	221M1074		72.0	95.0	54.2	66.4	5.0	8275.3
7	221M1007		74.0	98.0	61.5	68.1	6.0	8249.3
23	221M1023		72.0	95.0	60.0	66.5	8.1	8226.7

Continued.

Table 6. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
80	221M1080		75.0	96.0	64.4	69.1	4.5	8178.9
42	221M1042		76.0	92.0	62.8	68.8	5.4	8175.2
103	221M1103		69.0	94.0	49.3	66.3	5.5	8165.9
53	221M1053		75.0	100.0	64.6	68.5	6.9	8137.2
46	221M1046		75.0	97.0	64.7	69.1	5.2	8120.7
70	221M1070		71.0	96.0	55.8	64.7	5.7	8120.7
18	221M1018		73.0	98.0	56.1	68.5	7.4	8111.5
90	221M1090		72.0	92.0	63.6	68.3	6.8	8108.3
35	221M1035		76.0	97.0	61.1	67.5	7.4	8092.3
73	221M1073		72.0	87.0	54.4	67.2	3.1	8032.6
4	221M1004		74.0	97.0	57.1	67.5	8.2	8031.2
47	221M1047		75.0	90.0	62.1	68.6	3.6	8031.2
51	221M1051		72.0	88.0	62.9	68.7	5.1	8031.2
84	221M1084		72.0	109.0	53.9	65.8	4.4	7986.3
112	221M1112		73.0	93.0	61.5	67.8	7.1	7981.5
120	Titan		70.0	87.0	60.7	68.1	5.5	7973.2
43	221M1043		74.0	87.0	61.7	68.4	6.3	7970.3
54	221M1054		72.0	90.0	61.6	68.4	8.3	7969.8
89	221M1089		72.0	101.0	62.3	67.6	10.5	7953.5
69	221M1069		73.0	89.0	64.5	69.7	3.1	7946.0
82	221M1082		75.0	91.0	63.2	68.7	3.9	7945.7
5	221M1005		72.0	104.0	60.7	67.8	6.2	7935.5
11	221M1011		78.0	95.0	65.4	69.1	5.5	7935.3
59	221M1059		73.0	91.0	59.4	67.1	4.1	7927.0
104	221M1104		71.0	93.0	49.0	64.9	6.8	7881.9
2	221M1002		76.0	91.0	62.9	68.2	5.0	7861.5
32	221M1032		76.0	109.0	57.1	65.6	5.8	7843.2
12	221M1012		76.0	92.0	65.3	68.8	7.1	7836.9
114	221M1114		74.0	102.0	61.9	67.7	4.9	7832.3
64	221M1064		76.0	98.0	64.2	69.0	5.9	7797.1
81	221M1081		76.0	96.0	65.5	69.2	5.0	7795.0
99	221M1099		75.0	99.0	63.3	68.6	6.3	7761.8
29	221M1029		78.0	100.0	56.8	66.2	9.6	7747.3
109	221M1109		74.0	94.0	64.0	68.0	8.2	7731.8
98	221M1098		74.0	99.0	61.5	67.3	8.2	7730.2
77	221M1077		78.0	91.0	58.2	67.0	12.1	7728.1
25	221M1025		73.0	107.0	62.3	67.9	4.3	7721.6
13	221M1013		74.0	96.0	64.1	68.3	6.7	7700.8
62	221M1062		72.0	99.0	60.3	69.0	6.0	7693.3
36	221M1036		78.0	105.0	62.1	68.7	6.7	7685.3
93	221M1093		75.0	88.0	65.5	69.0	5.1	7661.7
101	221M1101		74.0	106.0	57.8	66.0	8.3	7612.3
67	221M1067		72.0	87.0	61.1	67.8	7.8	7587.8

Continued.

Table 6. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
30	221M1030		75.0	103.0	59.1	66.7	7.2	7568.6
22	221M1022		76.0	92.0	59.1	66.9	5.5	7543.7
92	221M1092		74.0	97.0	61.4	67.2	13.0	7539.7
10	221M1010		75.0	93.0	62.1	67.5	7.2	7535.6
1	221M1001		74.0	100.0	61.4	67.2	8.6	7530.8
102	221M1102		75.0	95.0	61.0	66.4	10.1	7527.7
75	221M1075		78.0	88.0	66.0	70.0	4.3	7516.2
106	221M1106		76.0	89.0	63.0	67.4	7.1	7458.5
115	221M1115		74.0	97.0	57.3	66.8	6.7	7443.2
60	221M1060		72.0	93.0	61.7	68.4	4.7	7436.7
63	221M1063		70.0	100.0	55.7	67.9	6.1	7415.0
14	221M1014		74.0	104.0	57.2	65.5	7.8	7384.8
111	221M1111		75.0	94.0	63.0	67.8	3.9	7367.4
108	221M1108		73.0	99.0	58.5	67.7	6.2	7362.4
107	221M1107		76.0	98.0	63.6	68.0	6.4	7350.8
66	221M1066		72.0	85.0	56.0	67.2	6.8	7339.3
91	221M1091		74.0	98.0	60.4	66.2	10.3	7292.3
38	221M1038		74.0	101.0	57.6	67.0	7.0	7203.7
86	221M1086		73.0	92.0	64.0	69.1	9.3	7199.9
113	221M1113		72.0	97.0	61.3	68.1	4.6	7125.3
100	221M1100		75.0	92.0	61.1	66.8	5.4	7099.8
71	221M1071		74.0	83.0	55.5	67.5	3.6	7096.9
34	221M1034		69.0	103.0	64.1	68.7	6.0	7082.2
110	221M1110		72.0	85.0	54.3	66.8	6.1	6960.0
96	221M1096		74.0	93.0	63.8	68.3	7.8	6937.1
57	221M1057		72.0	86.0	59.4	66.7	4.5	6929.5
28	221M1028		66.0	94.0	58.9	66.4	8.8	6661.7
9	221M1009		72.0	104.0	59.1	67.2	5.9	6370.3
26	221M1026		69.0	86.0	54.8	63.8	7.3	6271.2
8	221M1008		69.0	92.0	54.9	64.6	7.3	5965.9
85	221M1085		68.0	90.0	53.8	62.9	12.2	5714.4
27	221M1027		72.0	88.0	60.9	65.8	8.0	5496.5
117	221M1117		74.0	86.0	58.1	65.7	5.3	5037.5
116	221M1116		71.0	87.0	43.8	60.9	10.3	3316.7

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

CLEARFIELD PRELIMINARY YIELD TRIALS

The Clearfield Preliminary Yield (CLPY) trials consist primarily of promising breeding nursery material that is ready to be tested in replicated yield trials. The material in these trials was screened for agronomic and grain characteristics in nurseries prior to this phase of testing. Promising experimental lines were evaluated for seedling vigor, maturity, plant height, lodging resistance, grain yield of main crop, and disease resistance.

Tests were conducted using standard agronomic practices (except that fungicides were not applied) at the H. Rouse Caffey Rice Research Station (HRCRRS), Rayne, LA. A randomized complete block design was applied to arrange test entries. The plot size was 4.66 x 16 ft. Seeding rate was 90 lb/A. Planting and harvesting dates are found in Table 1, while entry number, herbicide type, pedigree, grain type, and source for both tests are in Table 2. Data is presented for the aromatic test in Table 3, long-grain tests in Tables 4 and 5, and medium-grain tests in Tables 6 and 7.

Table 1. Planting and harvesting dates for the 2022 Clearfield Preliminary Yield trials.

Location	Trial	Planting	Harvesting
HRCRRS	CLPYA	3/3	7/29
	CLPYL	3/2	7/29
	CLPYL – Late Planting	4/19	8/14
	CLPYM	3/2	7/29
	CLPYM – Late Planting	4/19	8/15

Table 2. Entry number, pedigree, grain type, and source information for entries in the 2022 Clearfield Preliminary Yield trials.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CL	1	222A2001	RU1902170/CL111	Aro	LAES
CL	2	222A2002	RU1902170/CL111	Aro	LAES
CL	3	222A2003	RU1902170/RU1801169	Aro	LAES
CL	4	222A2004	RU1902170/RU1801169	Aro	LAES
CL	5	222A2005	RU1902170/RU1902014	Aro	LAES
CL	6	222A2006	RU1902170/RU1902014	Aro	LAES
CL	7	222A2007	RU1902170/RU1902014	Aro	LAES
CL	8	222A2008	RU1902170/RU1902014	Aro	LAES
CL	9	222A2009	RU1902170/CLL17	Aro	LAES
CL	10	222A2010	RU1602195/RU1902170	Aro	LAES
CL	11	222A2011	RU1602195/RU1902170	Aro	LAES
CL	12	222A2012	RU1902126/RU1902170	Aro	LAES
CL	13	222A2013	RU1902126/RU1902170	Aro	LAES
CL	14	222A2014	RU1902126/RU1902170	Aro	LAES
CL	15	222A2015	RU1902126/RU1902170	Aro	LAES
CL	16	222A2016	RU1902126/RU1902170	Aro	LAES
CL	17	222A2017	RU1801169/CLJ01	Aro	LAES
CL	18	222A2018	RU1801169/CLJ01	Aro	LAES
CL	19	222A2019	RU1801169/CLJ01	Aro	LAES
CL	20	222A2020	182L2166/RU1902170	Aro	LAES
CL	21	222A2021	182L2166/RU1902170	Aro	LAES
CL	22	222A2022	182L2166/RU1902170	Aro	LAES
CL	23	222A2023	182L2166/RU1902170	Aro	LAES
CL	24	222A2024	182L2166/RU1902170	Aro	LAES
CL	25	222A2025	182L2166/RU1902170	Aro	LAES
CL	26	222A2026	182L2166/RU1902170	Aro	LAES
CL	27	222A2027	RU1902122/CLJ01	Aro	LAES
CL	28	222A2028	RU1902122/CLJ01	Aro	LAES
CL	29	222A2029	RU1902122/CLJ01	Aro	LAES
CL	30	222A2030	RU1902122/CLJ01	Aro	LAES
CL	31	222A2031	RU1902122/CLJ01	Aro	LAES
CL	32	222A2032	RU1902170/INIA06	Aro	LAES
CL	33	222A2033	RU1902170/INIA06	Aro	LAES
CL	34	222A2034	RU1902170/INIA06	Aro	LAES
CL	35	222A2035	RU1902170/INIA06	Aro	LAES
CL	36	222A2036	RU1902170/INIA06	Aro	LAES
CL	37	222A2037	RU1902170/INIA06	Aro	LAES
CL	38	222A2038	RU1902170/INIA06	Aro	LAES
CL	39	222A2039	CLJ01/RU1702140	Aro	LAES
CL	40	222A2040	CLJ01/RU1702140	Aro	LAES
CL	41	222A2041	CLJ01/RU1702140	Aro	LAES
CL	42	222A2042	CLJ01/RU1702140	Aro	LAES
CL	43	222A2043	181L2002/CLJ01	Aro	LAES
CL	44	222A2044	181L2002/CLJ01	Aro	LAES
CL	45	222A2045	181L2002/CLJ01	Aro	LAES
CL	46	222A2046	181L2002/CLJ01	Aro	LAES
CL	47	222A2047	181L2002/CLJ01	Aro	LAES
CL	48	222A2048	181L2002/CLJ01	Aro	LAES

Continued.

Table 2. Continued.

Herbicide					Grain	
Type	Entry	Line	Pedigree		Type[†]	Source[‡]
CL	49	222A2049	181L2002/CLJ01		Aro	LAES
CL	50	222A2050	181L2002/RU1902170		Aro	LAES
CL	51	222A2051	181L2002/RU1902170		Aro	LAES
CL	52	222A2052	181L2002/RU1902170		Aro	LAES
CL	53	222A2053	181L2002/RU1902170		Aro	LAES
CL	54	222A2054	181L2002/RU1902170		Aro	LAES
CL	55	222A2055	INIA25/CLJ01		Aro	LAES
CL	56	222A2056	INIA25/CLJ01		Aro	LAES
CL	57	222A2057	INIA25/CLJ01		Aro	LAES
CL	58	222A2058	RU1804187/RU1902170		Aro	LAES
CL	59	222A2059	RU1804187/RU1902170		Aro	LAES
CL	60	222A2060	RU1804187/RU1902170		Aro	LAES
CL	61	222A2061	RU1804187/RU1902170		Aro	LAES
CL	62	222A2062	RU1804187/RU1902170		Aro	LAES
CL	63	222A2063	RU1804187/RU1902170		Aro	LAES
CL	64	CL153			LG	LAES
CL	65	CLJ01			Aro	LAES
CL	66	CLL17			LG	LAES
CL	1	222L1001	Thad/CL111		LG	LAES
CL	2	222L1002	Thad/CL111		LG	LAES
CL	3	222L1003	Thad/CL111		LG	LAES
CL	4	222L1004	Thad/CL111		LG	LAES
CL	5	222L1005	Thad/CL111		LG	LAES
CL	6	222L1006	Thad/CL111		LG	LAES
CL	7	222L1007	Thad/CL111		LG	LAES
CL	8	222L1008	Thad/CL111		LG	LAES
CL	9	222L1009	LaKast/CL163		LG	LAES
CL	10	222L1010	LaKast/CL163		LG	LAES
CL	11	222L1011	RU2002122/CL111		LG	LAES
CL	12	222L1012	RU2002122/CL111		LG	LAES
CL	13	222L1013	RU2002122/CL111		LG	LAES
CL	14	222L1014	RU2002122/CL111		LG	LAES
CL	15	222L1015	RU2002122/CL111		LG	LAES
CL	16	222L1016	RU2002122/CL111		LG	LAES
CL	17	222L1017	RU2002122/CL111		LG	LAES
CL	18	222L1018	RU2002122/CL111		LG	LAES
CL	19	222L1019	RU2002122/RU1702183		LG	LAES
CL	20	222L1020	RU2002122/RU1702183		LG	LAES
CL	21	222L1021	RU2002122/RU1702183		LG	LAES
CL	22	222L1022	RU2002122/RU1702183		LG	LAES
CL	23	222L1023	RU1804187/RU2002114		LG	LAES
CL	24	222L1024	RU1804187/RU2002114		LG	LAES
CL	25	222L1025	RU1804187/RU2002114		LG	LAES
CL	26	222L1026	RU1804187/RU2002114		LG	LAES

Continued.

Table 2. Continued.

Herbicide					Grain	
Type	Entry	Line	Pedigree		Type[†]	Source[‡]
CL	27	222L1027	RU1804187/RU2002114		LG	LAES
CL	28	222L1028	RU1804187/RU2002114		LG	LAES
CL	29	222L1029	RU1804187/RU2002114		LG	LAES
CL	30	222L1030	RU1804187/RU2002114		LG	LAES
CL	31	222L1031	CL153/CLL17		LG	LAES
CL	32	222L1032	CL151/RU1702140		LG	LAES
CL	33	222L1033	CL151/RU1702140		LG	LAES
CL	34	222L1034	CL151/RU1702140		LG	LAES
CL	35	222L1035	172L1264/RU1602131		LG	LAES
CL	36	222L1036	172L1264/RU1602131		LG	LAES
CL	37	222L1037	172L1264/RU1602131		LG	LAES
CL	38	222L1038	RU1602195/172L1264		LG	LAES
CL	39	222L1039	RU1602195/172L1264		LG	LAES
CL	40	222L1040	RU1602195/172L1264		LG	LAES
CL	41	222L1041	RU1602195/172L1264		LG	LAES
CL	42	222L1042	RU1602195/172L1264		LG	LAES
CL	43	222L1043	CL153/RU1902138		LG	LAES
CL	44	222L1044	CL153/RU1902138		LG	LAES
CL	45	222L1045	CL153/RU1902138		LG	LAES
CL	46	222L1046	CL153/RU1902138		LG	LAES
CL	47	222L1047	CL153/RU1902138		LG	LAES
CL	48	222L1048	CL153/RU1902138		LG	LAES
CL	49	222L1049	172L2058/RU1702097		LG	LAES
CL	50	222L1050	172L2058/RU1702097		LG	LAES
CL	51	222L1051	172L2058/RU1702097		LG	LAES
CL	52	222L1052	172L2058/RU1702097		LG	LAES
CL	53	222L1053	172L2058/RU1702097		LG	LAES
CL	54	222L1054	172L2058/RU1702097		LG	LAES
CL	55	222L1055	172L2058/RU1702097		LG	LAES
CL	56	222L1056	172L2058/RU1702097		LG	LAES
CL	57	222L1057	RU1902126/CL153		LG	LAES
CL	58	222L1058	RU1902126/CL153		LG	LAES
CL	59	222L1059	RU1902126/CL153		LG	LAES
CL	60	222L1060	RU1902138/RU1902126		LG	LAES
CL	61	222L1061	RU1902138/RU1902126		LG	LAES
CL	62	222L1062	RU1902138/RU1902126		LG	LAES
CL	63	222L1063	RU1902138/RU1902126		LG	LAES
CL	64	222L1064	RU1902138/RU1902126		LG	LAES
CL	65	222L1065	RU1902138/RU1902126		LG	LAES
CL	66	222L1066	RU1902138/RU1902126		LG	LAES
CL	67	222L1067	RU1902138/RU1902126		LG	LAES
CL	68	222L1068	CL153/RU1602195		LG	LAES
CL	69	222L1069	CL153/RU1602195		LG	LAES
CL	70	222L1070	CL153/RU1602195		LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CL	71	222L1071	CL153/RU1602195	LG	LAES
CL	72	222L1072	CL153/RU1602195	LG	LAES
CL	73	222L1073	CL153/RU1602195	LG	LAES
CL	74	222L1074	CL153/RU1602195	LG	LAES
CL	75	222L1075	CL153/RU1602195	LG	LAES
CL	76	222L1076	171L1786/CL153	LG	LAES
CL	77	222L1077	171L1786/CL153	LG	LAES
CL	78	222L1078	171L1786/CL153	LG	LAES
CL	79	222L1079	171L1786/CL153	LG	LAES
CL	80	222L1080	171L1786/CL153	LG	LAES
CL	81	222L1081	171L1786/CL153	LG	LAES
CL	82	222L1082	171L1786/CL153	LG	LAES
CL	83	222L1083	171L1786/CL153	LG	LAES
CL	84	222L1084	RU1702183/CL111	LG	LAES
CL	85	222L1085	RU1702183/CL111	LG	LAES
CL	86	222L1086	RU1702183/CL111	LG	LAES
CL	87	222L1087	RU1702183/CL111	LG	LAES
CL	88	222L1088	RU1702183/CL111	LG	LAES
CL	89	222L1089	RU1702183/CL111	LG	LAES
CL	90	222L1090	RU1702183/CL111	LG	LAES
CL	91	222L1091	RU1702183/CL111	LG	LAES
CL	92	222L1092	CL153/RU2002114	LG	LAES
CL	93	222L1093	CL153/RU2002114	LG	LAES
CL	94	222L1094	CL153/RU2002114	LG	LAES
CL	95	222L1095	CL153/RU2002114	LG	LAES
CL	96	222L1096	CL153/RU2002114	LG	LAES
CL	97	222L1097	CL153/RU2002114	LG	LAES
CL	98	222L1098	CL153/RU2002114	LG	LAES
CL	99	222L1099	CL153/RU2002114	LG	LAES
CL	100	222L1100	CL153/RU2002114	LG	LAES
CL	101	222L1101	CL153/RU2002114	LG	LAES
CL	102	222L1102	RU1801169/182L2166	LG	LAES
CL	103	222L1103	RU1801169/182L2166	LG	LAES
CL	104	222L1104	RU1801169/182L2166	LG	LAES
CL	105	222L1105	RU1801169/182L2166	LG	LAES
CL	106	222L1106	RU1801169/182L2166	LG	LAES
CL	107	222L1107	RU1801169/182L2166	LG	LAES
CL	108	222L1108	RU1801169/182L2166	LG	LAES
CL	109	222L1109	RU1801169/182L2166	LG	LAES
CL	110	222L1110	RU2002114/CL111	LG	LAES
CL	111	222L1111	RU2002114/CL111	LG	LAES
CL	112	222L1112	RU2002114/CL111	LG	LAES
CL	113	222L1113	RU2002114/CL111	LG	LAES
CL	114	222L1114	RU2002114/CL111	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CL	115	222L1115	RU2002114/CL111	LG	LAES
CL	116	222L1116	RU2002114/CL111	LG	LAES
CL	117	222L1117	RU2002114/CL111	LG	LAES
CL	118	222L1118	RU1602195/CL153	LG	LAES
CL	119	222L1119	RU1602195/CL153	LG	LAES
CL	120	222L1120	RU1602195/CL153	LG	LAES
CL	121	222L1121	RU1602195/CL153	LG	LAES
CL	122	222L1122	RU1602195/CL153	LG	LAES
CL	123	222L1123	RU1602195/CL153	LG	LAES
CL	124	222L1124	RU1602195/CL153	LG	LAES
CL	125	222L1125	RU1602195/CL153	LG	LAES
CL	126	222L1126	182L1278/CL111	LG	LAES
CL	127	222L1127	182L1278/CL111	LG	LAES
CL	128	222L1128	182L1278/CL111	LG	LAES
CL	129	222L1129	182L1278/CL111	LG	LAES
CL	130	222L1130	182L1278/CL111	LG	LAES
CL	131	222L1131	182L1278/CL111	LG	LAES
CL	132	222L1132	182L1278/CL111	LG	LAES
CL	133	222L1133	182L1278/CL111	LG	LAES
CL	134	222L1134	182L1278/CL111	LG	LAES
CL	135	222L1135	CL151/RU2002114	LG	LAES
CL	136	222L1136	CL151/RU2002114	LG	LAES
CL	137	222L1137	CL151/RU2002114	LG	LAES
CL	138	222L1138	CL151/RU2002114	LG	LAES
CL	139	222L1139	CL151/RU2002114	LG	LAES
CL	140	222L1140	CL151/RU2002114	LG	LAES
CL	141	222L1141	CL151/RU2002114	LG	LAES
CL	142	222L1142	CL151/RU2002114	LG	LAES
CL	143	222L1143	RU1801169/RU1902126	LG	LAES
CL	144	222L1144	RU1801169/RU1902126	LG	LAES
CL	145	222L1145	RU1801169/RU1902126	LG	LAES
CL	146	222L1146	RU1801169/RU1902126	LG	LAES
CL	147	222L1147	RU1801169/RU1902126	LG	LAES
CL	148	222L1148	RU1801169/RU1902126	LG	LAES
CL	149	222L1149	RU1801169/RU1902126	LG	LAES
CL	150	222L1150	RU1801169/RU1902126	LG	LAES
CL	151	222L1151	CL111/182L2195	LG	LAES
CL	152	222L1152	CL111/182L2195	LG	LAES
CL	153	222L1153	CL111/182L2195	LG	LAES
CL	154	222L1154	CL111/182L2195	LG	LAES
CL	155	222L1155	CL111/182L2195	LG	LAES
CL	156	222L1156	CL111/182L2195	LG	LAES
CL	157	222L1157	CL111/182L2195	LG	LAES
CL	158	222L1158	CL111/182L2195	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CL	159	222L1159	Diamond/RU1902146	LG	LAES
CL	160	222L1160	Diamond/RU1902146	LG	LAES
CL	161	222L1161	Diamond/RU1902146	LG	LAES
CL	162	222L1162	Diamond/RU1902146	LG	LAES
CL	163	222L1163	Diamond/RU1902146	LG	LAES
CL	164	222L1164	Diamond/RU1902146	LG	LAES
CL	165	222L1165	Diamond/RU1902146	LG	LAES
CL	166	222L1166	Diamond/RU1902146	LG	LAES
CL	167	222L1167	INIA6/RU1902162	LG	LAES
CL	168	222L1168	INIA6/RU1902162	LG	LAES
CL	169	222L1169	INIA6/RU1902162	LG	LAES
CL	170	222L1170	INIA6/RU1902162	LG	LAES
CL	171	222L1171	INIA6/RU1902162	LG	LAES
CL	172	222L1172	INIA6/RU1902162	LG	LAES
CL	173	222L1173	INIA6/RU1902162	LG	LAES
CL	174	222L1174	INIA6/RU1902162	LG	LAES
CL	175	222L1175	CL151/181L2002	LG	LAES
CL	176	222L1176	CL151/181L2002	LG	LAES
CL	177	222L1177	CL151/181L2002	LG	LAES
CL	178	222L1178	CL151/181L2002	LG	LAES
CL	179	222L1179	CL151/181L2002	LG	LAES
CL	180	222L1180	CL151/181L2002	LG	LAES
CL	181	222L1181	CL151/181L2002	LG	LAES
CL	182	222L1182	CL151/181L2002	LG	LAES
CL	183	222L1183	RoyJ/CL153	LG	LAES
CL	184	222L1184	RoyJ/CL153	LG	LAES
CL	185	222L1185	RoyJ/CL153	LG	LAES
CL	186	222L1186	RoyJ/CL153	LG	LAES
CL	187	222L1187	RoyJ/CL153	LG	LAES
CL	188	222L1188	RoyJ/CL153	LG	LAES
CL	189	222L1189	RoyJ/CL153	LG	LAES
CL	190	222L1190	RoyJ/CL153	LG	LAES
CL	191	CL111		LG	LAES
CL	192	CL151		LG	LAES
CL	193	CL153		LG	LAES
CL	194	CLL16		LG	AAES
CL	195	CLL17		LG	LAES
CL	1	222M1001	RU1702165/RU1902162	MG	LAES
CL	2	222M1002	Sasanishiki/CL272	MG	LAES
CL	3	222M1003	Sasanishiki/CL272	MG	LAES
CL	4	222M1004	CL272/RU1502183	MG	LAES
CL	5	222M1005	CL272/RU1502183	MG	LAES
CL	6	222M1006	RU1702162/RU1702180	MG	LAES
CL	7	222M1007	RU1702162/RU1702180	MG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type [†]	Source [‡]
CL	8	222M1008	RU1702162/RU1702180	MG	LAES
CL	9	222M1009	RU1702162/RU1702180	MG	LAES
CL	10	222M1010	RU1702162/RU1702180	MG	LAES
CL	11	222M1011	RU1702162/RU1702180	MG	LAES
CL	12	222M1012	RU1702162/RU1702180	MG	LAES
CL	13	222M1013	RU1702162/RU1702180	MG	LAES
CL	14	222M1014	RU1702162/RU1702180	MG	LAES
CL	15	222M1015	RU1702125/RU1702165	MG	LAES
CL	16	222M1016	RU1702125/RU1702165	MG	LAES
CL	17	222M1017	RU1702125/RU1702165	MG	LAES
CL	18	222M1018	RU1702125/RU1702165	MG	LAES
CL	19	222M1019	Titan/RU1702165	MG	LAES
CL	20	222M1020	Titan/RU1702165	MG	LAES
CL	21	222M1021	171M1843/172M1646	MG	LAES
CL	22	222M1022	171M1843/172M1646	MG	LAES
CL	23	222M1023	171M1843/172M1646	MG	LAES
CL	24	222M1024	171M1843/172M1646	MG	LAES
CL	25	222M1025	171M1843/172M1646	MG	LAES
CL	26	222M1026	171M1843/172M1646	MG	LAES
CL	27	222M1027	171M1843/172M1646	MG	LAES
CL	28	222M1028	171M1843/172M1646	MG	LAES
CL	29	222M1029	171M1843/172M1646	MG	LAES
CL	30	222M1030	172M1646/Titan	MG	LAES
CL	31	222M1031	172M1646/Titan	MG	LAES
CL	32	222M1032	172M1646/Titan	MG	LAES
CL	33	222M1033	172M1646/Titan	MG	LAES
CL	34	222M1034	172M1646/Titan	MG	LAES
CL	35	222M1035	172M1646/Titan	MG	LAES
CL	36	222M1036	172M1646/Titan	MG	LAES
CL	37	222M1037	Jupiter/CL272	MG	LAES
CL	38	222M1038	Jupiter/CL272	MG	LAES
CL	39	222M1039	Jupiter/CL272	MG	LAES
CL	40	222M1040	Jupiter/CL272	MG	LAES
CL	41	222M1041	Jupiter/CL272	MG	LAES
CL	42	222M1042	Titan/172M1600	MG	LAES
CL	43	222M1043	Titan/172M1600	MG	LAES
CL	44	222M1044	Jupiter/RU1702162	MG	LAES
CL	45	222M1045	Jupiter/RU1702162	MG	LAES
CL	46	222M1046	Jupiter/RU1702162	MG	LAES
CL	47	222M1047	Jupiter/RU1702162	MG	LAES
CL	48	222M1048	RU1702165/Neptune	MG	LAES
CL	49	222M1049	RU1702165/Neptune	MG	LAES
CL	50	222M1050	RU1702165/Neptune	MG	LAES
CL	51	222M1051	1702143/RU1702165	MG	LAES

Continued.

Table 2. Continued.

Herbicide					Grain	
Type	Entry	Line	Pedigree		Type[†]	Source[‡]
CL	52	222M1052	1702143/RU1702165		MG	LAES
CL	53	222M1053	1702143/RU1702165		MG	LAES
CL	54	222M1054	1702143/RU1702165		MG	LAES
CL	55	222M1055	CL272/172M1600		MG	LAES
CL	56	222M1056	CL272/172M1600		MG	LAES
CL	57	222M1057	CL272/172M1600		MG	LAES
CL	58	222M1058	CL272/172M1600		MG	LAES
CL	59	222M1059	CL272/172M1600		MG	LAES
CL	60	222M1060	CL272/RU1902182		MG	LAES
CL	61	222M1061	CL272/RU1902182		MG	LAES
CL	62	222M1062	CL272/RU1902182		MG	LAES
CL	63	222M1063	CL272/RU1902182		MG	LAES
CL	64	222M1064	CL272/RU1902182		MG	LAES
CL	65	222M1065	CL272/RU1902182		MG	LAES
CL	66	222M1066	CL272/RU1902182		MG	LAES
CL	67	222M1067	CL272/RU1902182		MG	LAES
CL	68	222M1068	CL272/RU1902182		MG	LAES
CL	69	222M1069	CL272/RU1902182		MG	LAES
CL	70	222M1070	CL272/RU1902182		MG	LAES
CL	71	222M1071	RU1702165/RU1902174		MG	LAES
CL	72	222M1072	RU1702165/RU1902174		MG	LAES
CL	73	222M1073	RU1702165/RU1902174		MG	LAES
CL	74	222M1074	RU1702165/RU1902174		MG	LAES
CL	75	222M1075	RU1902182/RU1802174		MG	LAES
CL	76	222M1076	RU1902182/RU1802174		MG	LAES
CL	77	222M1077	RU1902182/RU1802174		MG	LAES
CL	78	222M1078	RU1902182/RU1802174		MG	LAES
CL	79	222M1079	RU1902182/RU1802174		MG	LAES
CL	80	222M1080	CL272/RU1801211		MG	LAES
CL	81	222M1081	CL272/RU1801211		MG	LAES
CL	82	222M1082	CL272/RU1801211		MG	LAES
CL	83	222M1083	CL272/RU1801211		MG	LAES
CL	84	222M1084	CL272/RU1801211		MG	LAES
CL	85	222M1085	RU1902174/Titan		MG	LAES
CL	86	222M1086	RU1902174/Titan		MG	LAES
CL	87	222M1087	RU1902174/Titan		MG	LAES
CL	88	222M1088	RU1902174/Titan		MG	LAES
CL	89	222M1089	RU1902174/Titan		MG	LAES
CL	90	222M1090	RU1902174/Titan		MG	LAES
CL	91	222M1091	RU1902174/Titan		MG	LAES
CL	92	222M1092	RU1902174/Titan		MG	LAES
CL	93	222M1093	RU1902174/Titan		MG	LAES
CL	94	222M1094	RU1902174/Titan		MG	LAES
CL	95	222M1095	RU1902174/Titan		MG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type [†]	Source [‡]
CL	96	222M1096	RU1902174/Lynx	MG	LAES
CL	97	222M1097	RU1902174/Lynx	MG	LAES
CL	98	222M1098	CLM04/RU1802174	MG	LAES
CL	99	222M1099	CLM04/RU1802174	MG	LAES
CL	100	222M1100	CLM04/RU1802174	MG	LAES
CL	101	222M1101	CLM04/RU1802174	MG	LAES
CL	102	222M1102	CLM04/RU1802174	MG	LAES
CL	103	222M1103	CLM04/RU1802174	MG	LAES
CL	104	222M1104	CLM04/RU1802174	MG	LAES
CL	105	222M1105	181M1740/CLM04	MG	LAES
CL	106	222M1106	181M1740/CLM04	MG	LAES
CL	107	222M1107	181M1740/CLM04	MG	LAES
CL	108	222M1108	181M1740/CLM04	MG	LAES
CL	109	222M1109	181M1740/CLM04	MG	LAES
CL	110	222M1110	RU2002094/CLM04	MG	LAES
CL	111	222M1111	RU2002094/CLM04	MG	LAES
CL	112	222M1112	RU1902174/RU2002094	MG	LAES
CL	113	222M1113	RU1902174/RU2002094	MG	LAES
CL	114	222M1114	RU1902174/RU1802174	MG	LAES
CL	115	222M1115	RU1901033/CLM04	MG	LAES
CL	116	222M1116	BBC-17-1-20-37433/CLM04	MG	LAES
CL	117	222M1117	BBC-17-1-20-37433/CLM04	MG	LAES
CL	118	222M1118	BBC-17-1-20-37433/RU1902174	MG	LAES
CL	119	222M1119	BBC-17-1-20-37433/RU1902174	MG	LAES
CL	120	222M1120	BBC-17-1-20-37433/RU1902174	MG	LAES
CL	121	222M1121	BBC-17-1-20-37433/RU1902174	MG	LAES
CL	122	222M1122	BBC-17-1-20-37433/RU1901033	MG	LAES
CL	123	222M1123	BBC-17-1-20-37433/181M1740	MG	LAES
CL	124	222M1124	BBC-35-1-20BBCrow-129/RU1901033	MG	LAES
CL	125	222M1125	BBC-35-1-20BBCrow-129/RU1901033	MG	LAES
CL	126	222M1126	BBC-35-1-20BBCrow-129/Lynx	MG	LAES
CL	127	222M1127	BBC-35-1-20BBCrow-129/RU2002094	MG	LAES
CL	128	222M1128	181M1740/BBC-35-1-20BBCrow-129	MG	LAES
CL	129	222M1129	181M1740/BBC-35-1-20BBCrow-129	MG	LAES
CL	130	222M1130	RU2002090/BBC-35-1-20BBCrow-129	MG	LAES
CL	131	222M1131	RU2002090/BBC-35-1-20BBCrow-129	MG	LAES
CL	132	CL272		MG	LAES
CL	133	CLM04		MG	AAES

[†] LG = Long grain, MG = Medium grain, AI = Long-grain aromatic-Della type, AL = Long-grain aromatic-Jazzman type, and HI = Long-grain high amylose-Dixiebelles type.

[‡] LAES – H. Rouse Caffey Rice Research Station, Louisiana Agricultural Experiment Station, LSU AgCenter, Rayne; AAES – Arkansas Agricultural Experiment Station, Stuttgart, AR; MAES – Delta Research and Extension Center, Stoneville, MS; TAES, USDA – Texas A&M Research and Education Center, Texas Agricultural Experiment Station, U.S. Department of Agriculture, Beaumont, TX; RiceTec, Alvin, TX; and Nutrien Ag Solutions.

Table 3. Grain and milling yields and agronomic performance of entries in the 2022 Clearfield Preliminary Yield Aromatic trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
66	CLL17	3.0	83.7	100.0	62.8	68.5	17.5	9120.7
21	222A2021	3.0	82.0	101.5	66.4	70.9	13.8	8868.7
10	222A2010	4.0	82.0	106.5	62.3	68.9	15.3	8821.2
14	222A2014	4.0	82.0	105.5	63.4	69.9	14.6	8700.0
16	222A2016	4.0	83.0	106.0	58.9	68.7	18.3	8679.0
7	222A2007	5.0	84.5	98.0	59.7	70.0	16.2	8674.8
63	222A2063	3.0	81.5	94.5	58.4	69.1	19.6	8654.9
11	222A2011	4.0	84.0	102.5	60.8	69.3	19.1	8349.4
15	222A2015	3.0	83.5	107.5	65.0	70.5	8.3	8338.9
64	CL153	3.0	84.0	96.0	62.0	67.9	12.4	8301.5
40	222A2040	5.0	85.0	96.5	61.8	71.0	15.9	8281.0
36	222A2036	4.0	82.5	113.5	56.8	67.5	14.5	8165.0
23	222A2023	3.0	83.0	96.0	68.0	71.6	8.2	8154.5
2	222A2002	4.0	80.5	101.5	64.3	71.2	8.8	8136.9
6	222A2006	3.0	83.0	101.0	57.8	70.0	14.5	8118.2
61	222A2061	4.0	80.5	96.0	48.2	67.7	23.6	8090.6
19	222A2019	3.0	86.5	107.5	67.7	71.0	5.9	8051.1
59	222A2059	4.0	82.0	97.5	56.2	69.1	13.5	8041.4
35	222A2035	3.0	83.5	106.5	58.1	68.6	21.7	8016.9
26	222A2026	4.0	82.5	99.0	65.0	70.9	6.7	8013.0
42	222A2042	3.0	83.5	95.0	61.8	69.4	12.3	7997.6
18	222A2018	3.0	86.0	100.5	65.0	70.3	9.8	7994.7
54	222A2054	3.0	81.5	98.5	66.6	71.2	10.5	7943.5
46	222A2046	5.0	84.5	102.0	66.8	70.8	7.7	7906.8
22	222A2022	5.0	84.5	104.0	65.4	71.3	15.2	7905.1
41	222A2041	3.0	83.5	100.5	62.6	70.1	13.7	7902.9
52	222A2052	5.0	79.0	92.5	64.8	71.1	9.8	7893.9
3	222A2003	3.0	83.0	107.0	65.0	70.6	5.6	7890.4
4	222A2004	3.0	85.0	108.5	65.8	70.8	7.4	7888.7
12	222A2012	5.0	83.5	95.5	59.3	68.8	12.9	7863.5
8	222A2008	3.0	81.5	107.0	60.0	68.6	15.3	7826.9
65	CLJ01	3.0	86.0	97.0	67.6	71.0	4.9	7813.4
5	222A2005	4.0	83.5	103.5	59.2	69.4	8.2	7795.1
44	222A2044	5.0	84.5	89.5	66.4	70.3	9.7	7655.8
1	222A2001	3.0	80.0	105.0	65.5	70.8	6.4	7645.6
43	222A2043	5.0	86.0	99.5	64.9	71.2	10.8	7640.7
25	222A2025	5.0	82.0	99.0	58.0	68.0	18.4	7572.5
47	222A2047	5.0	84.0	105.0	66.1	71.0	8.7	7552.2
20	222A2020	5.0	83.5	99.0	60.5	68.6	9.0	7532.0
13	222A2013	4.0	81.5	101.5	61.2	69.0	16.0	7513.5
50	222A2050	3.0	79.0	100.5	48.9	70.0	26.9	7508.7
24	222A2024	4.0	80.5	97.0	65.2	70.6	8.6	7491.3
31	222A2031	5.0	83.0	95.0	64.5	70.1	12.6	7379.0

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
60	222A2060	5.0	84.0	95.5	56.2	69.2	20.3	7376.4
49	222A2049	5.0	85.0	99.0	64.5	69.3	9.8	7275.2
17	222A2017	4.0	83.5	108.0	66.0	70.5	4.5	7259.6
58	222A2058	5.0	83.5	102.5	52.2	69.1	14.4	7178.8
53	222A2053	5.0	83.0	97.5	58.4	69.5	17.6	7174.5
39	222A2039	3.0	84.0	99.5	68.6	71.7	7.3	7110.7
37	222A2037	3.0	80.5	103.5	57.5	67.4	10.5	7068.5
38	222A2038	5.0	83.5	102.0	61.7	68.8	11.7	7002.8
34	222A2034	4.0	83.0	106.5	63.2	69.5	8.4	6978.1
57	222A2057	5.0	82.5	107.0	55.7	67.4	10.6	6925.5
33	222A2033	3.0	83.0	107.5	61.3	69.9	9.1	6862.4
51	222A2051	5.0	83.0	95.5	61.1	70.1	14.6	6849.2
30	222A2030	5.0	87.5	87.5	64.0	70.2	9.7	6748.3
32	222A2032	3.0	85.5	99.0	61.2	68.1	10.3	6730.3
62	222A2062	3.0	79.0	92.5	61.1	70.1	12.6	6698.8
45	222A2045	4.0	86.0	99.5	66.7	71.1	5.0	6652.7
9	222A2009	4.0	83.0	102.0	65.0	68.7	6.2	6479.5
28	222A2028	4.0	87.0	87.0	61.5	69.3	9.5	6427.2
48	222A2048	5.0	80.0	98.5	65.2	69.9	5.9	6295.7
55	222A2055	5.0	86.0	99.0	58.1	68.0	9.8	6166.1
29	222A2029	5.0	87.0	91.0	58.7	68.7	16.9	6100.0
27	222A2027	5.0	86.5	92.0	64.8	69.8	5.0	5564.6
56	222A2056	5.0	84.5	97.5	57.6	67.0	9.7	5332.2

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 4. Grain and milling yields and agronomic performance of entries in the 2022 Clearfield Preliminary Yield Long-Grain trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
82	222L1082	5.0	85.0	106.0	64.5	70.4	17.8	11742.0
95	222L1095	3.0	88.0	103.0	65.2	70.0	17.8	11608.1
79	222L1079	5.0	89.0	102.0	64.8	69.7	19.0	11605.2
34	222L1034	5.0	88.0	103.0	63.8	70.6	16.4	11596.1
38	222L1038	3.0	86.0	107.0	64.8	69.2	23.2	11507.7
147	222L1147	3.0	87.0	103.0	57.1	68.3	15.8	11459.2
124	222L1124	3.0	88.0	97.0	63.8	68.8	20.2	11431.1
77	222L1077	5.0	92.0	98.0	64.0	70.0	18.9	11415.8
74	222L1074	3.0	86.0	97.0	63.9	68.4	16.1	11402.4
44	222L1044	3.0	89.0	106.0	63.9	69.5	16.3	11369.6
56	222L1056	3.0	88.0	105.0	63.3	70.0	19.6	11365.0
149	222L1149	3.0	89.0	97.0	63.3	69.5	18.6	11329.7
126	222L1126	3.0	88.0	104.0	64.8	70.4	18.5	11298.6
41	222L1041	3.0	87.0	96.0	63.7	68.4	21.9	11270.1
165	222L1165	3.0	86.0	103.0	55.8	67.0	17.9	11261.3
70	222L1070	3.0	88.0	103.0	65.7	70.0	16.0	11248.2
143	222L1143	5.0	88.0	104.0	62.2	69.1	12.4	11224.1
119	222L1119	5.0	88.0	105.0	66.4	70.4	20.4	11208.1
150	222L1150	5.0	87.0	105.0	58.6	68.4	9.6	11200.6
123	222L1123	3.0	88.0	108.0	64.4	69.0	21.1	11183.4
75	222L1075	3.0	86.0	97.0	64.4	69.2	20.0	11172.6
193	CL153	3.0	89.0	93.0	64.8	69.4	19.0	11125.7
87	222L1087	5.0	85.0	105.0	63.3	68.9	23.2	11116.0
73	222L1073	5.0	88.0	95.0	65.3	69.9	20.9	11081.1
139	222L1139	5.0	84.0	94.0	62.8	68.0	18.5	11038.4
140	222L1140	5.0	86.0	91.0	64.8	69.9	24.7	11031.9
101	222L1101	5.0	86.0	98.0	62.8	69.3	15.0	11012.5
121	222L1121	3.0	92.0	100.0	64.5	68.7	19.2	10997.9
161	222L1161	5.0	86.0	96.0	59.7	67.4	15.1	10993.1
57	222L1057	5.0	87.0	105.0	63.1	70.0	16.3	10941.4
118	222L1118	3.0	87.0	102.0	65.0	70.0	25.1	10935.7
30	222L1030	3.0	85.0	97.0	61.5	69.0	15.5	10934.2
93	222L1093	5.0	89.0	101.0	65.2	70.6	19.4	10920.5
122	222L1122	3.0	89.0	94.0	63.4	68.9	21.2	10915.2
132	222L1132	5.0	88.0	106.0	63.3	69.1	20.3	10896.8
187	222L1187	5.0	88.0	100.0	62.2	68.3	17.6	10895.7
48	222L1048	3.0	87.0	106.0	61.7	69.2	20.4	10889.9
127	222L1127	3.0	87.0	101.0	64.1	69.9	20.4	10858.1
61	222L1061	3.0	89.0	100.0	62.4	69.9	15.5	10825.2
37	222L1037	5.0	88.0	97.0	61.6	68.0	18.2	10793.8
138	222L1138	5.0	85.0	104.0	61.3	69.1	25.9	10774.9
97	222L1097	5.0	86.0	91.0	65.3	70.8	17.8	10727.0
43	222L1043	3.0	89.0	94.0	63.6	69.9	23.3	10722.7

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
42	222L1042	5.0	86.0	93.0	62.0	67.8	21.7	10710.7
69	222L1069	3.0	89.0	95.0	65.6	70.1	22.2	10685.6
4	222L1004	5.0	83.0	97.0	68.9	72.3	13.2	10684.2
58	222L1058	3.0	88.0	104.0	66.0	70.8	11.9	10671.8
131	222L1131	3.0	86.0	102.0	64.2	69.5	19.6	10653.5
89	222L1089	3.0	86.0	101.0	64.8	69.9	19.8	10640.3
144	222L1144	5.0	89.0	106.0	59.2	69.2	16.1	10631.9
45	222L1045	5.0	89.0	101.0	67.7	72.7	21.3	10609.4
133	222L1133	3.0	88.0	96.0	66.0	70.1	14.9	10553.7
62	222L1062	5.0	93.0	105.0	62.1	68.7	10.7	10551.6
67	222L1067	3.0	92.0	103.0	58.2	65.5	13.8	10551.6
71	222L1071	3.0	88.0	96.0	66.9	70.9	17.1	10537.6
155	222L1155	3.0	86.0	100.0	62.6	69.6	15.2	10537.2
72	222L1072	3.0	87.0	97.0	63.4	68.4	19.7	10532.5
151	222L1151	3.0	89.0	104.0	63.7	69.4	15.2	10522.5
80	222L1080	3.0	88.0	91.0	66.2	70.5	12.9	10510.7
190	222L1190	3.0	86.0	97.0	62.7	69.8	18.2	10505.1
40	222L1040	3.0	86.0	96.0	63.3	68.6	18.8	10448.2
46	222L1046	3.0	86.0	94.0	63.1	69.7	21.3	10435.5
135	222L1135	5.0	85.0	96.0	61.6	69.4	20.1	10433.3
148	222L1148	3.0	92.0	106.0	62.3	68.9	17.2	10401.9
85	222L1085	3.0	84.0	103.0	61.3	69.0	20.6	10401.5
120	222L1120	5.0	89.0	102.0	66.7	70.6	16.5	10381.6
47	222L1047	3.0	88.0	99.0	63.3	69.7	24.0	10378.9
59	222L1059	3.0	85.0	93.0	62.1	69.9	22.3	10372.6
55	222L1055	3.0	86.0	99.0	64.5	70.0	19.2	10359.8
7	222L1007	5.0	83.0	103.0	61.1	68.5	17.6	10351.3
142	222L1142	3.0	85.0	92.0	63.6	69.2	19.5	10349.1
129	222L1129	3.0	83.0	91.0	63.6	70.2	24.0	10331.6
36	222L1036	5.0	83.0	89.0	62.8	68.6	20.1	10330.9
175	222L1175	5.0	89.0	103.0	62.5	69.0	18.7	10316.5
6	222L1006	3.0	86.0	91.0	61.7	68.8	14.5	10313.9
112	222L1112	5.0	88.0	95.0	63.1	68.4	16.7	10304.1
92	222L1092	5.0	85.0	86.0	64.8	70.1	15.7	10301.3
32	222L1032	5.0	92.0	100.0	64.7	69.4	15.7	10301.0
146	222L1146	5.0	85.0	91.0	64.4	70.3	17.3	10288.5
68	222L1068	5.0	89.0	97.0	64.1	68.5	15.3	10288.3
84	222L1084	3.0	89.0	112.0	66.2	70.5	12.3	10284.0
35	222L1035	3.0	86.0	99.0	63.4	69.1	24.1	10281.2
192	CL151	3.0	88.0	94.0	62.3	68.7	29.2	10257.0
159	222L1159	3.0	86.0	90.0	65.9	70.5	17.5	10256.8
113	222L1113	5.0	86.0	95.0	65.3	70.9	14.6	10255.9
1	222L1001	3.0	89.0	92.0	65.4	69.3	13.2	10213.0

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
177	222L1177	5.0	88.0	90.0	59.8	68.7	14.1	10212.2
51	222L1051	5.0	89.0	98.0	65.0	70.4	14.4	10195.5
91	222L1091	3.0	83.0	97.0	64.2	68.6	16.5	10193.0
195	CLL17	3.0	88.0	102.0	62.4	67.9	18.9	10186.4
94	222L1094	3.0	89.0	91.0	65.8	69.8	16.2	10176.2
25	222L1025	3.0	85.0	97.0	63.4	69.8	19.6	10169.3
154	222L1154	3.0	86.0	96.0	64.7	69.9	16.0	10168.6
160	222L1160	3.0	89.0	86.0	62.7	68.1	14.3	10162.8
2	222L1002	3.0	89.0	96.0	66.5	70.5	16.0	10157.8
12	222L1012	3.0	82.0	100.0	59.8	67.8	15.7	10135.7
174	222L1174	5.0	92.0	92.0	61.3	67.7	11.2	10130.8
134	222L1134	3.0	83.0	96.0	63.5	70.4	18.6	10128.2
153	222L1153	5.0	86.0	100.0	61.4	69.1	19.6	10109.9
81	222L1081	3.0	86.0	110.0	63.7	69.1	12.0	10100.9
18	222L1018	3.0	82.0	95.0	59.4	68.8	26.5	10099.9
102	222L1102	3.0	87.0	96.0	61.6	68.6	15.4	10077.1
152	222L1152	3.0	85.0	96.0	62.9	69.5	18.1	10065.0
24	222L1024	3.0	89.0	92.0	60.3	69.6	15.5	10052.6
19	222L1019	5.0	82.0	104.0	56.9	67.2	25.0	10037.0
65	222L1065	5.0	92.0	97.0	65.3	70.2	13.1	10036.5
60	222L1060	3.0	89.0	97.0	64.1	71.1	21.2	10035.5
188	222L1188	5.0	89.0	94.0	64.3	69.6	16.6	10019.7
13	222L1013	3.0	81.0	93.0	63.1	69.9	20.5	10017.1
66	222L1066	5.0	94.0	96.0	62.7	70.4	10.9	10015.7
184	222L1184	7.0	94.0	77.0	63.2	69.5	14.4	10014.5
116	222L1116	5.0	88.0	93.0	66.4	70.7	16.1	10006.6
182	222L1182	5.0	88.0	96.0	65.4	70.7	18.2	10006.6
90	222L1090	3.0	86.0	104.0	61.8	69.9	15.2	9994.5
96	222L1096	5.0	88.0	95.0	66.4	71.2	16.5	9993.8
63	222L1063	3.0	94.0	94.0	67.1	71.8	15.2	9991.0
53	222L1053	3.0	87.0	97.0	64.7	69.2	14.9	9990.2
125	222L1125	3.0	88.0	104.0	62.7	69.3	17.4	9985.0
83	222L1083	3.0	88.0	103.0	63.7	69.3	13.0	9980.9
156	222L1156	3.0	86.0	94.0	64.2	70.5	17.6	9945.1
86	222L1086	3.0	85.0	110.0	63.2	69.4	21.6	9922.1
108	222L1108	5.0	87.0	101.0	63.6	71.0	19.9	9917.7
128	222L1128	3.0	85.0	94.0	66.3	71.1	12.6	9914.0
21	222L1021	5.0	86.0	96.0	54.7	67.0	25.5	9909.0
99	222L1099	3.0	92.0	94.0	66.9	70.8	12.3	9909.0
105	222L1105	3.0	88.0	96.0	65.0	70.5	12.7	9908.7
130	222L1130	3.0	88.0	101.0	66.1	70.8	13.9	9895.5
100	222L1100	5.0	85.0	97.0	64.8	70.6	22.4	9892.8
114	222L1114	3.0	86.0	98.0	64.3	69.3	16.0	9888.1

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
50	222L1050	5.0	86.0	95.0	65.5	71.5	23.0	9878.1
110	222L1110	5.0	82.0	90.0	59.0	69.0	19.8	9870.1
15	222L1015	3.0	85.0	104.0	63.3	69.9	20.3	9855.2
33	222L1033	5.0	92.0	91.0	64.9	69.7	16.1	9848.4
179	222L1179	3.0	88.0	107.0	65.7	70.1	18.5	9848.4
194	CLL16	3.0	94.0	104.0	58.9	67.4	15.2	9796.9
157	222L1157	5.0	86.0	91.0	65.4	70.4	17.7	9794.9
14	222L1014	3.0	89.0	103.0	60.8	69.2	23.6	9778.7
158	222L1158	3.0	86.0	100.0	66.1	70.8	13.8	9757.3
136	222L1136	3.0	89.0	105.0	59.4	66.7	16.4	9729.2
104	222L1104	3.0	86.0	97.0	62.6	70.8	22.0	9721.8
88	222L1088	5.0	85.0	91.0	63.0	69.1	16.2	9718.5
26	222L1026	5.0	86.0	87.0	58.1	67.9	15.6	9686.4
98	222L1098	5.0	86.0	98.0	63.6	70.1	13.3	9686.1
22	222L1022	5.0	86.0	92.0	63.8	69.4	18.6	9660.2
78	222L1078	5.0	86.0	88.0	65.8	71.3	18.4	9627.9
137	222L1137	3.0	85.0	96.0	64.2	69.9	15.0	9626.0
52	222L1052	3.0	88.0	99.0	67.4	71.8	14.5	9624.7
16	222L1016	5.0	86.0	96.0	63.0	70.5	14.5	9615.0
31	222L1031	5.0	91.0	98.0	64.2	69.2	16.0	9613.1
109	222L1109	3.0	88.0	96.0	64.2	70.0	13.6	9612.6
162	222L1162	5.0	86.0	90.0	58.3	68.2	18.6	9595.2
39	222L1039	3.0	88.0	101.0	64.0	70.1	19.6	9555.4
17	222L1017	3.0	80.0	96.0	61.1	73.3	17.8	9538.0
171	222L1171	5.0	92.0	102.0	62.4	68.4	15.5	9534.0
115	222L1115	5.0	88.0	94.0	64.1	70.2	15.2	9500.8
107	222L1107	5.0	92.0	101.0	63.1	70.2	15.2	9499.4
5	222L1005	3.0	88.0	103.0	64.4	69.3	16.1	9452.8
28	222L1028	5.0	86.0	95.0	63.2	68.8	15.7	9429.9
181	222L1181	3.0	88.0	104.0	63.2	69.1	14.9	9407.9
163	222L1163	5.0	89.0	98.0	60.9	69.6	19.0	9393.7
64	222L1064	5.0	88.0	99.0	54.8	67.8	19.4	9374.3
111	222L1111	5.0	88.0	96.0	65.5	69.7	15.5	9363.0
49	222L1049	3.0	88.0	100.0	62.6	70.9	21.1	9339.3
170	222L1170	5.0	92.0	111.0	64.8	69.3	13.2	9283.1
141	222L1141	3.0	86.0	105.0	64.4	70.5	17.9	9273.0
145	222L1145	5.0	86.0	85.0	64.7	69.1	16.6	9241.7
103	222L1103	3.0	86.0	98.0	62.1	69.8	23.1	9184.7
27	222L1027	5.0	92.0	91.0	61.3	68.0	15.5	9115.3
178	222L1178	5.0	88.0	94.0	64.3	69.8	13.6	9104.7
183	222L1183	3.0	92.0	89.0	62.6	69.2	21.0	9096.1
189	222L1189	5.0	94.0	90.0	63.3	69.6	17.9	9059.3
186	222L1186	5.0	86.0	96.0	60.9	68.9	18.0	9058.7

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
176	222L1176	5.0	92.0	94.0	68.0	71.7	10.5	8913.4
164	222L1164	5.0	89.0	87.0	54.7	67.4	14.7	8882.5
191	CL111	7.0	88.0	100.0	65.1	70.0	15.4	8844.3
23	222L1023	5.0	88.0	94.0	61.1	68.8	14.2	8798.2
76	222L1076	3.0	87.0	100.0	60.5	67.5	10.6	8797.2
180	222L1180	3.0	82.0	98.0	59.9	68.8	16.0	8741.5
117	222L1117	5.0	86.0	85.0	64.2	69.7	12.0	8723.4
185	222L1185	5.0	94.0	96.0	63.3	68.5	11.2	8670.6
29	222L1029	5.0	88.0	84.0	62.9	69.6	17.8	8659.2
20	222L1020	3.0	86.0	106.0	58.5	67.8	14.8	8644.4
169	222L1169	5.0	92.0	107.0	59.8	66.9	17.5	8632.7
8	222L1008	3.0	87.0	104.0	63.8	70.7	13.5	8536.7
106	222L1106	3.0	88.0	92.0	64.8	69.8	11.1	8528.1
172	222L1172	3.0	88.0	95.0	61.8	67.8	11.1	8496.6
173	222L1173	3.0	94.0	105.0	62.9	68.0	10.7	8467.1
167	222L1167	5.0	92.0	104.0	64.3	69.5	17.7	8457.3
168	222L1168	5.0	89.0	97.0	62.9	69.5	16.2	8274.1
54	222L1054	3.0	88.0	94.0	61.9	69.1	11.7	8236.8
11	222L1011	5.0	86.0	106.0	62.8	69.7	19.3	8170.2
166	222L1166	5.0	94.0	92.0	57.0	65.4	13.9	7935.8
3	222L1003	3.0	89.0	86.0	62.4	68.6	14.8	7706.4
9	222L1009	5.0	94.0	100.0	57.7	66.6	19.8	7447.3
10	222L1010	5.0	86.0	93.0	58.9	68.8	30.0	7255.9

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 5. Grain and milling yields and agronomic performance of entries in the 2022 Clearfield Preliminary Yield Long-Grain trial – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
194	CLL16	3.0	73.0	111.0	57.9	65.8	13.8	10029.4
190	222L1190	3.0	68.0	104.0	64.1	70.2	18.5	9910.7
147	222L1147	3.0	69.0	105.0	62.0	70.1	21.6	9893.7
121	222L1121	1.0	72.0	96.0	63.1	68.6	15.4	9753.3
77	222L1077	3.0	71.0	111.0	65.4	70.0	13.3	9733.5
118	222L1118	3.0	70.0	110.0	66.4	70.8	18.2	9724.7
71	222L1071	1.0	69.0	106.0	65.4	69.8	11.9	9699.4
193	CL153	3.0	70.0	103.0	66.0	71.0	16.8	9653.1
38	222L1038	3.0	69.0	101.0	64.5	69.1	16.9	9621.4
5	222L1005	1.0	69.0	103.0	66.3	70.2	12.4	9527.6
32	222L1032	3.0	71.0	103.0	66.4	70.6	17.4	9473.9
85	222L1085	1.0	65.0	110.0	65.2	70.9	16.8	9436.2
161	222L1161	3.0	68.0	98.0	61.7	68.1	12.9	9419.1
59	222L1059	1.0	67.0	100.0	60.9	68.0	16.7	9364.6
56	222L1056	3.0	69.0	108.0	66.2	71.4	24.6	9347.2
34	222L1034	3.0	71.0	106.0	64.9	71.2	17.4	9345.4
120	222L1120	1.0	71.0	107.0	64.8	69.5	12.6	9311.0
68	222L1068	3.0	72.0	107.0	63.6	68.7	10.3	9301.2
149	222L1149	5.0	72.0	100.0	62.4	68.2	16.4	9299.5
36	222L1036	3.0	66.0	101.0	62.3	68.2	15.2	9284.6
79	222L1079	3.0	69.0	96.0	64.1	68.9	12.4	9284.6
124	222L1124	1.0	71.0	102.0	62.8	68.5	15.7	9281.9
48	222L1048	1.0	69.0	109.0	62.7	68.3	17.7	9235.0
39	222L1039	1.0	68.0	101.0	62.4	69.7	24.0	9228.6
188	222L1188	5.0	71.0	100.0	64.6	69.9	24.6	9203.6
195	CLL17	3.0	68.0	94.0	62.3	67.8	16.5	9192.3
144	222L1144	3.0	71.0	103.0	63.6	69.9	14.0	9167.5
82	222L1082	1.0	68.0	106.0	64.3	69.4	10.4	9149.7
150	222L1150	1.0	70.0	116.0	63.6	70.1	13.6	9129.3
131	222L1131	3.0	69.0	105.0	62.2	68.2	15.3	9071.0
165	222L1165	1.0	67.0	104.0	60.8	68.1	16.9	9066.4
67	222L1067	3.0	71.0	104.0	61.8	69.0	9.8	9061.9
105	222L1105	3.0	72.0	105.0	64.1	69.4	16.7	9044.0
45	222L1045	3.0	70.0	104.0	65.0	70.4	14.8	9020.6
7	222L1007	3.0	66.0	99.0	60.3	68.4	21.3	9017.3
2	222L1002	3.0	70.0	99.0	65.2	70.2	17.1	8988.6
75	222L1075	3.0	69.0	103.0	64.2	68.8	13.8	8980.3
138	222L1138	3.0	66.0	111.0	62.4	69.0	21.2	8943.0
73	222L1073	3.0	70.0	99.0	64.4	69.3	16.8	8939.7
153	222L1153	3.0	67.0	113.0	66.5	71.8	20.9	8936.4
44	222L1044	3.0	69.0	103.0	65.2	69.9	13.0	8919.7
97	222L1097	3.0	68.0	95.0	64.8	70.8	23.1	8917.8
155	222L1155	3.0	67.0	105.0	64.1	69.3	14.3	8886.2

Continued.

Table 5. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
113	222L1113	3.0	67.0	98.0	64.4	69.5	14.1	8876.5
95	222L1095	3.0	68.0	104.0	64.1	69.5	17.2	8873.1
157	222L1157	3.0	68.0	105.0	64.7	69.6	17.9	8865.5
47	222L1047	1.0	68.0	102.0	64.8	70.0	18.5	8864.7
129	222L1129	3.0	67.0	99.0	62.9	69.0	19.8	8851.2
57	222L1057	3.0	70.0	102.0	66.0	71.4	17.3	8849.5
123	222L1123	3.0	72.0	110.0	62.5	67.8	14.5	8823.6
31	222L1031	3.0	69.0	101.0	63.3	69.0	16.6	8820.2
50	222L1050	3.0	67.0	104.0	65.0	71.2	20.6	8817.6
89	222L1089	1.0	68.0	111.0	66.4	70.9	20.0	8808.8
158	222L1158	3.0	69.0	105.0	65.3	69.8	10.7	8802.3
6	222L1006	1.0	68.0	100.0	62.8	69.4	15.3	8764.0
151	222L1151	3.0	69.0	106.0	60.9	67.5	15.1	8735.0
84	222L1084	3.0	72.0	113.0	64.8	70.4	12.9	8729.5
74	222L1074	1.0	69.0	100.0	62.7	67.3	11.7	8727.6
93	222L1093	1.0	69.0	98.0	63.2	68.5	19.3	8707.0
101	222L1101	1.0	68.0	98.0	63.2	70.0	16.4	8697.1
86	222L1086	1.0	67.0	110.0	63.5	69.1	20.3	8678.5
143	222L1143	3.0	71.0	107.0	62.7	68.4	17.4	8678.4
51	222L1051	1.0	69.0	105.0	66.1	71.2	12.8	8673.1
156	222L1156	3.0	68.0	103.0	61.9	68.1	14.4	8667.2
184	222L1184	5.0	75.0	84.0	61.2	69.3	19.1	8664.2
80	222L1080	3.0	69.0	95.0	65.0	69.3	11.3	8663.8
72	222L1072	1.0	69.0	100.0	64.0	68.8	15.2	8663.4
173	222L1173	3.0	72.0	102.0	66.3	71.9	14.4	8663.4
61	222L1061	3.0	70.0	86.0	64.2	70.0	11.2	8636.0
78	222L1078	5.0	70.0	91.0	67.3	71.4	12.7	8636.0
90	222L1090	3.0	69.0	103.0	64.9	70.6	14.2	8617.8
132	222L1132	3.0	68.0	104.0	63.3	69.0	18.9	8615.8
53	222L1053	1.0	71.0	100.0	65.3	69.8	16.5	8600.7
146	222L1146	1.0	65.0	101.0	62.3	69.3	14.3	8599.8
122	222L1122	1.0	70.0	101.0	62.4	68.8	20.3	8595.5
119	222L1119	3.0	69.0	103.0	65.1	69.8	13.4	8582.0
174	222L1174	3.0	70.0	104.0	60.4	67.3	13.9	8574.5
125	222L1125	1.0	71.0	102.0	63.9	69.2	14.5	8573.0
148	222L1148	5.0	73.0	105.0	63.5	69.5	16.1	8548.4
187	222L1187	3.0	69.0	91.0	62.6	68.5	14.9	8479.2
87	222L1087	1.0	67.0	107.0				8476.6
35	222L1035	3.0	66.0	103.0	63.2	68.9	18.3	8467.1
100	222L1100	3.0	64.0	99.0	61.3	69.2	17.6	8463.6
169	222L1169	3.0	70.0	103.0	60.1	66.9	13.0	8448.3
83	222L1083	3.0	68.0	101.0	66.3	70.9	13.7	8422.3
4	222L1004	3.0	71.0	97.0	68.4	71.8	11.4	8408.0

Continued.

Table 5. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
69	222L1069	3.0	72.0	106.0	62.7	68.2	15.9	8401.7
102	222L1102	3.0	70.0	107.0	58.7	68.3	17.4	8400.3
126	222L1126	3.0	69.0	100.0	64.0	69.6	13.7	8394.6
175	222L1175	3.0	68.0	109.0	61.2	67.6	17.2	8394.6
92	222L1092	3.0	65.0	99.0	59.1	67.7	17.8	8372.8
142	222L1142	1.0	65.0	96.0	59.2	67.5	19.5	8372.6
191	CL111	5.0	71.0	102.0	64.7	70.5	16.0	8366.2
60	222L1060	1.0	68.0	95.0	63.4	70.1	15.5	8355.5
154	222L1154	3.0	70.0	107.0	63.8	69.2	16.1	8344.9
8	222L1008	3.0	69.0	105.0	64.2	71.3	16.5	8344.3
46	222L1046	3.0	66.0	103.0	63.4	69.4	13.3	8317.3
182	222L1182	3.0	69.0	104.0	64.8	70.0	14.3	8317.2
163	222L1163	3.0	69.0	101.0	63.8	70.6	20.8	8305.9
13	222L1013	3.0	63.0	103.0	57.7	67.6	18.5	8305.8
134	222L1134	1.0	65.0	109.0	63.1	69.3	17.9	8304.0
58	222L1058	3.0	67.0	101.0	64.4	69.3	10.8	8298.4
63	222L1063	1.0	72.0	92.0	69.2	73.4	12.4	8290.1
152	222L1152	3.0	68.0	103.0	64.4	69.3	13.7	8285.2
133	222L1133	1.0	70.0	100.0	64.3	69.5	13.2	8269.1
33	222L1033	3.0	72.0	99.0	66.5	71.1	17.4	8260.8
37	222L1037	3.0	68.0	105.0	63.9	69.0	18.2	8259.4
130	222L1130	3.0	69.0	109.0	63.2	68.8	11.1	8248.6
99	222L1099	1.0	70.0	101.0	65.2	70.3	11.6	8219.6
15	222L1015	3.0	67.0	108.0	63.4	70.1	16.0	8204.5
135	222L1135	3.0	66.0	108.0	57.7	66.6	17.2	8197.9
159	222L1159	1.0	65.0	98.0	63.4	68.8	16.5	8175.1
43	222L1043	1.0	69.0	91.0	64.5	69.8	13.5	8169.1
98	222L1098	1.0	67.0	97.0	56.3	67.7	13.3	8159.1
185	222L1185	5.0	73.0	97.0	62.1	69.1	14.5	8158.1
140	222L1140	3.0	68.0	95.0	63.4	69.1	18.3	8154.2
91	222L1091	3.0	66.0	102.0	64.4	69.1	15.9	8149.8
164	222L1164	3.0	69.0	84.0	55.3	67.5	17.2	8129.8
111	222L1111	3.0	68.0	89.0	60.6	67.5	11.7	8127.6
70	222L1070	1.0	71.0	100.0	63.3	68.8	15.4	8114.7
103	222L1103	3.0	67.0	103.0	63.2	69.6	18.0	8087.9
88	222L1088	3.0	65.0	99.0	63.3	68.8	14.2	8068.7
114	222L1114	1.0	66.0	106.0	62.3	68.2	14.2	8041.3
62	222L1062	3.0	73.0	102.0	62.1	68.0	8.5	8012.6
168	222L1168	3.0	72.0	90.0	62.2	69.4	12.5	7987.3
112	222L1112	3.0	66.0	100.0	59.8	68.1	19.9	7966.6
110	222L1110	3.0	66.0	97.0	53.0	66.3	18.1	7950.1
16	222L1016	1.0	68.0	107.0	60.3	68.0	15.2	7942.8
136	222L1136	3.0	68.0	102.0	63.6	68.5	13.7	7942.6

Continued.

Table 5. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
14	222L1014	3.0	72.0	102.0	61.7	68.3	12.3	7939.5
192	CL151	1.0	67.0	108.0	60.3	68.2	28.2	7927.1
17	222L1017	3.0	64.0	91.0	50.7	65.9	24.4	7922.5
189	222L1189	5.0	72.0	82.0	60.7	67.3	17.3	7910.9
94	222L1094	3.0	71.0	96.0	62.0	68.6	18.4	7905.4
127	222L1127	3.0	71.0	105.0	60.2	68.2	16.7	7904.8
18	222L1018	3.0	66.0	98.0	58.1	67.6	34.5	7891.7
3	222L1003	3.0	70.0	98.0	64.0	69.4	12.0	7877.6
108	222L1108	3.0	70.0	97.0	65.3	71.0	18.8	7869.8
186	222L1186	3.0	68.0	96.0	62.3	69.6	20.7	7868.0
65	222L1065	3.0	72.0	93.0	63.6	68.7	8.2	7859.9
12	222L1012	3.0	67.0	109.0	61.7	68.2	14.6	7807.2
109	222L1109	1.0	72.0	102.0	63.8	70.0	10.8	7807.0
96	222L1096	3.0	69.0	96.0	59.7	67.1	14.4	7788.9
28	222L1028	3.0	67.0	99.0	59.3	67.6	18.9	7769.6
1	222L1001	3.0	72.0	95.0	65.1	69.6	10.9	7768.0
55	222L1055	1.0	68.0	103.0	61.4	68.4	17.9	7767.0
166	222L1166	5.0	71.0	91.0	55.9	64.9	21.5	7751.2
27	222L1027	3.0	73.0	92.0	63.4	69.4	16.5	7744.7
128	222L1128	1.0	66.0	96.0	63.0	68.5	10.7	7718.8
40	222L1040	7.0	69.0	94.0	62.5	67.9	16.6	7694.4
41	222L1041	7.0	72.0	101.0	61.3	67.5	14.0	7675.3
107	222L1107	3.0	69.0	112.0	66.9	72.0	13.8	7671.7
49	222L1049	1.0	68.0	106.0	63.6	69.8	13.3	7659.4
141	222L1141	3.0	66.0	107.0	62.5	69.2	13.2	7659.4
52	222L1052	1.0	69.0	94.0	64.4	69.6	10.5	7628.9
139	222L1139	3.0	62.0	104.0	62.5	68.8	14.5	7623.6
116	222L1116	3.0	70.0	93.0	61.3	67.5	13.3	7617.4
24	222L1024	3.0	71.0	89.0	54.7	66.6	12.9	7613.3
26	222L1026	5.0	70.0	89.0	58.0	67.0	21.6	7591.4
137	222L1137	1.0	63.0	100.0	60.7	67.7	14.7	7591.3
117	222L1117	3.0	69.0	85.0	60.8	68.0	16.4	7587.3
162	222L1162	3.0	67.0	91.0	56.6	67.0	22.8	7501.8
171	222L1171	5.0	72.0	111.0	61.2	66.3	9.1	7471.6
183	222L1183	3.0	72.0	95.0	64.1	69.4	18.3	7458.2
115	222L1115	3.0	69.0	95.0	61.3	67.9	13.9	7449.3
66	222L1066	1.0	71.0	99.0	59.6	69.0	10.9	7388.0
145	222L1145	3.0	65.0	93.0	61.6	68.6	15.1	7356.2
179	222L1179	3.0	69.0	110.0	64.0	68.8	19.9	7325.8
42	222L1042	3.0	67.0	96.0	60.5	66.7	15.6	7319.8
177	222L1177	3.0	70.0	93.0	63.3	68.8	11.5	7292.9
54	222L1054	3.0	70.0	97.0	63.0	69.3	12.2	7257.9
64	222L1064	3.0	68.0	91.0	60.9	71.5	20.3	7219.2

Continued.

Table 5. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
29	222L1029	3.0	70.0	92.0	53.0	66.1	27.6	7168.3
178	222L1178	3.0	69.0	98.0	59.1	66.9	14.1	7161.9
23	222L1023	5.0	72.0	99.0	59.1	68.0	17.7	7045.4
180	222L1180	1.0	64.0	95.0	56.4	66.4	13.2	6968.6
30	222L1030	3.0	68.0	98.0	52.9	65.6	16.0	6789.7
181	222L1181	5.0	71.0	106.0	61.5	67.4	10.2	6724.0
160	222L1160	3.0	69.0	96.0	48.6	63.4	19.6	6721.2
22	222L1022	3.0	68.0	89.0	58.6	68.3	16.9	6677.0
104	222L1104	3.0	69.0	95.0	64.7	70.5	22.6	6661.7
81	222L1081	3.0	67.0	111.0	58.0	66.1	12.7	6637.6
10	222L1010	3.0	68.0	90.0	58.1	68.2	36.0	6456.2
170	222L1170	5.0	67.0	98.0	54.3	65.0	12.4	6442.2
25	222L1025	3.0	69.0	92.0	50.1	64.8	28.1	6322.1
11	222L1011	5.0	66.0	98.0	59.9	66.8	16.7	6273.1
106	222L1106	3.0	71.0	90.0	62.2	68.3	9.6	6119.4
19	222L1019	3.0	66.0	103.0	50.0	65.0	20.6	6053.2
176	222L1176	3.0	73.0	87.0	62.9	69.8	10.6	5746.4
21	222L1021	3.0	69.0	97.0	35.3	57.3	31.9	5564.5
9	222L1009	3.0	71.0	100.0	46.3	62.7	24.7	5499.8
76	222L1076	3.0	69.0	105.0	43.1	60.6	16.8	5260.6
172	222L1172	1.0	67.0	97.0	48.8	63.3	12.8	5202.0
167	222L1167	1.0	70.0	97.0	53.4	65.2	14.4	5007.9
20	222L1020	3.0	67.0	97.0	42.0	60.6	23.0	4711.0

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 6. Grain and milling yields and agronomic performance of entries in the 2022 Clearfield Preliminary Yield Medium-Grain trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
96	222M1096	5.0	90.0	93.0	67.4	69.8	3.8	10470.4
15	222M1015	3.0	90.0	92.0	68.0	70.3	3.9	10267.6
12	222M1012	3.0	87.0	97.0	65.1	69.3	7.3	9672.0
98	222M1098	5.0	87.0	90.0	66.8	69.8	3.5	9559.6
73	222M1073	5.0	88.0	87.0	68.0	70.7	5.0	9362.3
97	222M1097	5.0	90.0	79.0	66.0	68.8	4.0	9345.9
38	222M1038	5.0	84.0	93.0	64.9	68.5	4.4	9313.4
108	222M1108	3.0	84.0	90.0	63.9	69.6	3.8	9244.0
8	222M1008	5.0	86.0	96.0	66.2	70.6	4.6	9224.6
58	222M1058	5.0	85.0	93.0	63.4	69.6	10.8	9203.7
10	222M1010	5.0	89.0	87.0	66.1	70.1	8.7	9199.2
71	222M1071	3.0	88.0	87.0	67.4	71.1	4.4	9144.8
13	222M1013	5.0	86.0	87.0	65.6	70.5	4.9	9063.4
103	222M1103	5.0	90.0	86.0	66.4	69.3	5.1	9049.2
57	222M1057	5.0	87.0	97.0	68.5	70.7	4.7	9031.4
105	222M1105	3.0	88.0	94.0	66.5	69.0	2.9	9004.0
52	222M1052	3.0	82.0	99.0	66.7	70.4	4.7	9000.9
55	222M1055	5.0	86.0	86.0	68.1	71.3	9.3	8965.2
41	222M1041	5.0	84.0	92.0	65.9	68.2	8.5	8937.9
114	222M1114	5.0	88.0	77.0	67.4	70.1	1.8	8933.4
22	222M1022	5.0	86.0	86.0	64.8	70.8	7.8	8926.6
83	222M1083	5.0	85.0	98.0	56.7	68.0	8.5	8921.5
56	222M1056	3.0	84.0	106.0	65.1	69.4	8.9	8789.1
67	222M1067	3.0	87.0	87.0	66.1	70.0	6.0	8779.1
82	222M1082	3.0	85.0	89.0	59.9	68.6	5.7	8737.7
121	222M1121	5.0	87.0	94.0	65.2	68.6	6.7	8730.1
61	222M1061	3.0	88.0	83.0	64.0	68.9	7.1	8710.7
50	222M1050	5.0	88.0	89.0	66.9	70.1	5.6	8684.9
11	222M1011	3.0	91.0	94.0	68.6	70.5	3.1	8668.4
3	222M1003	5.0	86.0	85.0	65.9	69.7	8.9	8651.7
81	222M1081	5.0	87.0	95.0	65.5	69.6	5.4	8643.5
44	222M1044	3.0	85.0	86.0	66.3	69.4	4.4	8634.1
20	222M1020	3.0	84.0	98.0	64.8	68.3	6.2	8630.2
28	222M1028	3.0	83.0	86.0	50.9	69.4	9.5	8624.9
59	222M1059	3.0	86.0	101.0	63.9	70.0	6.8	8547.0
74	222M1074	5.0	86.0	94.0	66.3	69.2	4.7	8532.1
68	222M1068	3.0	89.0	86.0	66.6	69.4	9.3	8474.4
14	222M1014	3.0	86.0	92.0	64.6	69.6	6.2	8471.6
115	222M1115	5.0	89.0	82.0	66.0	69.1	7.4	8467.7
26	222M1026	3.0	87.0	93.0	65.5	69.2	4.3	8465.8
54	222M1054	3.0	80.0	87.0	62.3	68.2	5.7	8451.6
93	222M1093	5.0	82.0	86.0	64.8	69.4	7.3	8432.4
133	CLM04	5.0	90.0	94.0	67.3	69.6	6.2	8399.2

Continued.

Table 6. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
70	222M1070	3.0	89.0	87.0	65.5	68.8	7.8	8382.5
63	222M1063	3.0	88.0	84.0	64.1	68.5	5.2	8361.0
5	222M1005	5.0	87.0	86.0	55.6	69.7	7.3	8360.6
23	222M1023	3.0	83.0	84.0	60.8	69.3	5.6	8353.0
2	222M1002	5.0	85.0	83.0	66.5	69.3	9.4	8348.9
18	222M1018	3.0	84.0	94.0	68.1	70.4	1.7	8333.4
99	222M1099	5.0	89.0	83.0	66.5	69.4	4.0	8328.5
35	222M1035	3.0	85.0	97.0	65.1	67.4	8.1	8293.1
46	222M1046	5.0	90.0	91.0	65.8	69.8	4.3	8284.4
94	222M1094	5.0	83.0	88.0	65.4	69.5	10.2	8269.1
84	222M1084	5.0	85.0	97.0	64.2	69.8	5.2	8267.8
113	222M1113	5.0	89.0	84.0	67.8	69.8	4.6	8198.4
85	222M1085	5.0	84.0	98.0	65.2	69.2	5.6	8194.8
109	222M1109	5.0	85.0	84.0	65.9	69.9	4.4	8178.9
102	222M1102	5.0	86.0	98.0	65.6	69.3	5.6	8173.1
4	222M1004	5.0	87.0	83.0	63.7	70.3	7.6	8172.4
65	222M1065	5.0	88.0	87.0	65.4	69.9	7.2	8172.1
76	222M1076	5.0	84.0	87.0	66.3	68.3	5.2	8162.5
112	222M1112	3.0	87.0	88.0	66.2	68.7	6.3	8153.4
31	222M1031	5.0	87.0	90.0	64.3	68.7	7.3	8144.6
92	222M1092	5.0	85.0	84.0	65.5	69.3	5.8	8109.9
128	222M1128	3.0	84.0	84.0	63.2	68.7	4.5	8079.6
16	222M1016	5.0	84.0	87.0	66.1	70.2	4.3	8075.5
80	222M1080	5.0	84.0	101.0	61.3	69.4	4.1	8025.0
36	222M1036	3.0	88.0	95.0	65.6	68.5	7.8	7986.0
72	222M1072	3.0	84.0	93.0	64.5	69.0	2.6	7965.1
51	222M1051	5.0	86.0	84.0	66.6	69.3	7.0	7916.6
119	222M1119	5.0	88.0	88.0	65.6	68.7	5.9	7914.3
91	222M1091	5.0	87.0	83.0	64.6	67.9	9.3	7896.2
7	222M1007	5.0	88.0	97.0	65.5	69.6	5.1	7882.6
107	222M1107	5.0	83.0	96.0	64.6	68.5	2.8	7875.6
100	222M1100	3.0	87.0	89.0	67.3	70.2	3.6	7863.8
88	222M1088	5.0	84.0	87.0	66.0	69.6	3.3	7846.3
118	222M1118	3.0	90.0	88.0	67.0	69.3	3.6	7838.3
66	222M1066	5.0	86.0	85.0	66.0	70.1	8.7	7809.0
89	222M1089	5.0	83.0	88.0	66.0	69.6	8.0	7799.8
45	222M1045	5.0	85.0	98.0	63.7	68.1	11.1	7784.4
39	222M1039	5.0	85.0	80.0	65.2	68.6	2.9	7778.7
49	222M1049	5.0	87.0	84.0	66.3	70.2	8.5	7756.5
104	222M1104	5.0	87.0	80.0	67.7	70.4	3.2	7729.1
123	222M1123	5.0	87.0	95.0	64.6	70.2	7.1	7710.2
77	222M1077	5.0	83.0	81.0	66.3	68.8	3.9	7694.6
1	222M1001	5.0	79.0	97.0	64.2	69.9	5.5	7652.4
95	222M1095	5.0	84.0	85.0	61.8	68.6	5.2	7623.5

Continued.

Table 6. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
53	222M1053	5.0	84.0	89.0	64.6	69.7	7.8	7608.5
43	222M1043	5.0	84.0	94.0	62.0	67.7	6.2	7590.4
32	222M1032	3.0	89.0	94.0	66.3	69.2	2.4	7581.4
9	222M1009	3.0	87.0	82.0	61.3	69.6	5.7	7574.4
19	222M1019	5.0	87.0	97.0	60.4	68.4	4.0	7573.8
62	222M1062	5.0	90.0	92.0	64.2	67.6	10.2	7573.5
117	222M1117	3.0	84.0	90.0	66.1	69.5	2.3	7571.2
116	222M1116	5.0	87.0	91.0	65.9	68.9	4.1	7509.9
25	222M1025	5.0	87.0	73.0	64.4	70.3	6.6	7501.9
34	222M1034	5.0	87.0	87.0	64.6	67.7	6.6	7488.8
6	222M1006	5.0	88.0	77.0	66.6	69.8	5.6	7449.2
42	222M1042	5.0	87.0	90.0	63.5	67.0	13.8	7440.9
125	222M1125	5.0	84.0	82.0	58.4	68.8	3.9	7425.9
111	222M1111	5.0	83.0	89.0	66.5	69.4	4.7	7372.3
129	222M1129	5.0	87.0	87.0	64.8	68.2	2.7	7344.4
47	222M1047	5.0	85.0	83.0	62.0	68.6	7.0	7285.3
106	222M1106	5.0	83.0	93.0	64.5	68.6	4.5	7272.9
101	222M1101	5.0	87.0	83.0	66.0	69.4	4.4	7268.1
127	222M1127	3.0	86.0	88.0	58.6	67.0	3.9	7202.7
64	222M1064	3.0	88.0	77.0	62.3	68.9	7.9	7176.8
78	222M1078	5.0	84.0	88.0	65.7	68.5	9.5	7155.9
75	222M1075	5.0	85.0	93.0	65.0	67.6	7.7	7118.5
86	222M1086	5.0	81.0	84.0	59.4	68.2	8.3	7115.6
87	222M1087	5.0	82.0	90.0	65.9	70.3	6.3	7107.0
90	222M1090	5.0	84.0	87.0	58.3	66.7	10.3	7106.3
124	222M1124	5.0	88.0	80.0	62.9	68.0	2.9	7093.9
40	222M1040	5.0	90.0	92.0	65.8	68.7	8.5	7093.8
17	222M1017	5.0	88.0	98.0	63.6	69.1	3.1	7087.7
29	222M1029	5.0	88.0	90.0	64.3	66.6	10.0	6984.2
27	222M1027	5.0	89.0	86.0	56.8	69.8	4.9	6919.1
60	222M1060	5.0	89.0	84.0	65.4	69.2	5.2	6917.9
120	222M1120	5.0	88.0	80.0	66.2	68.7	3.9	6907.2
131	222M1131	5.0	89.0	84.0	61.7	67.7	3.1	6871.2
69	222M1069	5.0	90.0	91.0	66.4	68.7	6.4	6815.1
79	222M1079	5.0	84.0	88.0	65.3	68.2	4.2	6747.1
48	222M1048	5.0	85.0	85.0	66.1	69.6	4.3	6723.2
132	CL272	3.0	85.0	81.0	63.4	69.2	5.5	6709.5
130	222M1130	5.0	88.0	74.0	63.2	68.0	3.1	6708.4
110	222M1110	5.0	87.0	78.0	62.6	69.7	3.7	6673.3
21	222M1021	5.0	89.0	88.0	62.2	67.7	5.6	6508.5
30	222M1030	7.0	88.0	100.0	62.0	65.2	9.3	6347.2
126	222M1126	5.0	85.0	82.0	55.2	67.1	6.0	6065.1
122	222M1122	5.0	87.0	81.0	62.1	69.0	5.7	5927.8
37	222M1037	5.0	90.0	86.0	64.5	67.4	8.5	5795.8

Continued.

Table 6. Continued.

ENT	NAME	VIG¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
24	222M1024	5.0	83.0	84.0	64.5	69.6	5.4	5703.7
33	222M1033	5.0	86.0	87.0	64.2	66.7	6.4	5618.2

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 7. Grain and milling yields and agronomic performance of entries in the 2022 Clearfield Preliminary Yield Medium-Grain trial – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
124	222M1124	5.0	75.0	92.0	58.8	63.9	6.1	8726.7
97	222M1097	5.0	75.0	85.0	54.6	60.0	4.8	8686.7
82	222M1082	3.0	71.0	98.0	58.5	64.2	4.6	8620.4
133	CLM04	3.0	75.0	102.0	58.7	64.2	6.5	8596.9
101	222M1101	3.0	74.0	88.0	59.2	64.0	2.8	8568.6
98	222M1098	5.0	74.0	98.0	59.0	64.3	3.1	8490.3
74	222M1074	3.0	70.0	96.0	57.6	63.1	5.3	8457.5
109	222M1109	3.0	72.0	95.0	56.2	62.5	6.8	8438.0
108	222M1108	3.0	71.0	98.0	58.4	64.7	4.3	8434.1
106	222M1106	3.0	71.0	101.0	56.1	61.7	3.6	8359.1
118	222M1118	5.0	74.0	96.0	62.7	66.9	3.8	8334.8
71	222M1071	3.0	73.0	91.0	61.5	66.7	4.1	8278.5
41	222M1041	5.0	71.0	99.0	55.4	60.9	5.2	8232.5
87	222M1087	5.0	71.0	97.0	54.9	61.6	6.5	8218.2
83	222M1083	5.0	70.0	101.0	57.7	64.8	5.4	8175.3
115	222M1115	5.0	74.0	92.0	58.2	63.6	5.0	8159.6
105	222M1105	3.0	72.0	93.0	56.9	61.6	4.1	8139.3
96	222M1096	5.0	74.0	100.0	53.7	61.4	6.8	8085.2
43	222M1043	3.0	69.0	106.0	57.4	63.2	5.4	8074.7
103	222M1103	5.0	73.0	89.0	61.1	65.8	4.6	8048.3
125	222M1125	3.0	73.0	90.0	61.2	68.4	6.2	8039.0
102	222M1102	3.0	74.0	95.0	60.3	64.4	5.0	8011.6
12	222M1012	3.0	72.0	103.0	56.5	63.3	8.7	7958.5
7	222M1007	3.0	70.0	95.0	58.9	64.8	5.8	7947.5
27	222M1027	5.0	73.0	86.0	60.2	65.8	5.0	7946.6
22	222M1022	5.0	72.0	95.0	54.2	64.1	9.7	7918.0
114	222M1114	3.0	74.0	80.0	60.7	65.8	5.4	7907.7
76	222M1076	5.0	69.0	92.0	62.6	65.8	4.0	7865.9
99	222M1099	5.0	74.0	93.0	56.9	62.7	4.5	7865.8
58	222M1058	3.0	71.0	105.0	56.6	64.1	5.7	7864.4
54	222M1054	3.0	66.0	102.0	55.9	63.8	5.0	7818.6
49	222M1049	5.0	74.0	95.0	57.3	63.5	8.7	7777.5
93	222M1093	5.0	70.0	92.0	58.8	64.0	6.6	7760.9
18	222M1018	5.0	69.0	93.0	57.1	63.1	4.8	7756.3
113	222M1113	5.0	74.0	94.0	58.0	63.6	3.8	7689.3
59	222M1059	3.0	72.0	109.0	57.3	63.5	3.8	7641.7
11	222M1011	5.0	74.0	97.0	56.3	62.4	2.7	7640.7
15	222M1015	3.0	74.0	100.0	54.8	61.9	6.6	7631.0
52	222M1052	3.0	69.0	100.0	54.1	61.6	8.2	7611.0
44	222M1044	5.0	72.0	101.0	57.1	62.3	4.8	7603.2
13	222M1013	5.0	71.0	98.0	55.9	63.1	3.5	7575.8
85	222M1085	5.0	70.0	91.0	59.3	64.9	7.0	7573.7
16	222M1016	3.0	69.0	96.0	53.8	62.1	5.7	7561.6

Continued.

Table 7. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
129	222M1129	3.0	71.0	97.0	58.2	63.5	2.9	7554.2
42	222M1042	3.0	72.0	106.0	53.2	60.2	6.8	7542.3
119	222M1119	3.0	73.0	92.0	57.1	62.9	2.2	7516.2
51	222M1051	5.0	72.0	97.0	52.9	60.0	7.5	7497.1
72	222M1072	3.0	70.0	93.0	60.3	65.8	3.9	7479.5
53	222M1053	3.0	70.0	92.0	57.2	63.8	5.4	7474.9
10	222M1010	5.0	77.0	98.0	59.5	65.1	7.7	7462.8
84	222M1084	5.0	69.0	95.0	54.0	62.6	4.7	7461.7
78	222M1078	5.0	70.0	95.0	51.7	59.4	5.7	7445.0
107	222M1107	3.0	69.0	102.0	55.9	61.9	3.8	7443.0
48	222M1048	5.0	72.0	99.0	53.0	62.2	7.7	7404.2
45	222M1045	5.0	70.0	99.0	51.3	58.5	6.0	7403.1
35	222M1035	5.0	72.0	104.0	53.4	60.1	4.9	7392.3
112	222M1112	5.0	73.0	93.0	52.7	59.7	6.8	7385.3
47	222M1047	3.0	73.0	88.0	60.1	65.5	4.8	7336.8
56	222M1056	3.0	72.0	101.0	53.2	60.5	5.5	7317.2
92	222M1092	5.0	70.0	86.0	58.4	64.9	7.4	7272.1
50	222M1050	3.0	73.0	100.0	51.7	58.8	8.7	7255.9
34	222M1034	5.0	73.0	104.0	52.7	60.7	8.3	7240.7
116	222M1116	3.0	73.0	93.0	56.2	61.9	6.6	7221.3
100	222M1100	3.0	74.0	95.0	60.7	65.6	4.1	7196.0
117	222M1117	3.0	71.0	98.0	60.0	64.5	1.7	7176.5
17	222M1017	5.0	72.0	95.0	55.4	61.9	6.3	7173.1
104	222M1104	5.0	73.0	85.0	58.9	64.3	3.8	7151.8
86	222M1086	3.0	70.0	98.0	54.7	61.3	7.4	7144.5
57	222M1057	3.0	73.0	111.0	58.2	64.0	3.9	7143.6
126	222M1126	5.0	71.0	92.0	57.4	62.2	3.8	7112.4
8	222M1008	3.0	70.0	98.0	48.9	58.4	5.4	7097.9
127	222M1127	5.0	74.0	89.0	52.9	59.4	4.4	7085.6
68	222M1068	3.0	77.0	96.0	53.9	61.9	9.8	7082.8
80	222M1080	3.0	70.0	107.0	53.6	61.9	6.9	7061.9
61	222M1061	3.0	75.0	94.0	52.4	61.3	12.5	7049.4
25	222M1025	5.0	74.0	85.0	52.8	62.6	4.1	7045.7
6	222M1006	5.0	72.0	86.0	60.3	65.5	4.0	7041.9
23	222M1023	3.0	71.0	90.0	56.7	64.4	5.2	7036.8
46	222M1046	5.0	74.0	95.0	53.1	61.3	4.5	7036.2
39	222M1039	3.0	71.0	91.0	57.4	63.1	4.8	7019.0
91	222M1091	3.0	76.0	95.0	52.6	59.9	8.1	7015.9
32	222M1032	5.0	74.0	89.0	58.0	63.3	2.3	7001.7
2	222M1002	7.0	96.0	94.0	51.3	59.2	6.1	6969.0
67	222M1067	3.0	76.0	95.0	51.1	60.8	7.3	6960.0
111	222M1111	3.0	71.0	101.0	59.9	64.9	4.6	6957.3
73	222M1073	5.0	72.0	98.0	50.2	59.3	10.2	6937.1
131	222M1131	3.0	71.0	86.0	58.9	63.4	2.4	6924.8

Continued.

Table 7. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
30	222M1030	3.0	72.0	100.0	54.5	60.8	5.6	6867.1
130	222M1130	3.0	70.0	82.0	55.3	62.2	1.3	6847.2
75	222M1075	5.0	71.0	104.0	57.1	62.4	8.9	6824.8
120	222M1120	3.0	73.0	93.0	56.8	62.6	2.2	6796.4
79	222M1079	5.0	69.0	82.0	58.2	63.1	1.7	6744.3
5	222M1005	3.0	71.0	84.0	51.2	61.9	6.3	6742.0
77	222M1077	3.0	68.0	103.0	55.8	63.6	7.9	6734.0
65	222M1065	3.0	75.0	90.0	49.3	58.9	6.3	6728.3
24	222M1024	5.0	70.0	83.0	56.9	63.6	5.0	6719.7
128	222M1128	5.0	73.0	85.0	58.7	64.0	4.5	6707.4
19	222M1019	3.0	70.0	93.0	51.2	62.0	7.2	6689.2
132	CL272	3.0	71.0	93.0	55.7	63.3	7.0	6660.7
110	222M1110	5.0	74.0	90.0	57.8	63.2	5.7	6657.4
64	222M1064	3.0	75.0	86.0	49.9	59.0	8.0	6655.0
89	222M1089	5.0	70.0	101.0	52.0	60.2	5.9	6654.9
88	222M1088	5.0	70.0	95.0	54.0	61.4	7.0	6645.5
121	222M1121	5.0	72.0	96.0	47.6	58.7	8.8	6634.0
9	222M1009	5.0	73.0	83.0	57.7	63.4	4.1	6623.0
20	222M1020	3.0	70.0	97.0	51.6	59.5	5.5	6617.3
95	222M1095	5.0	70.0	90.0	50.2	59.1	12.8	6603.9
81	222M1081	3.0	72.0	109.0	42.2	55.0	8.3	6582.3
4	222M1004	5.0	72.0	98.0	56.3	63.4	8.4	6571.2
70	222M1070	5.0	75.0	90.0	42.4	53.4	9.6	6533.0
66	222M1066	5.0	73.0	96.0	50.2	58.5	10.0	6532.5
123	222M1123	3.0	73.0	98.0	58.0	63.9	6.2	6500.8
62	222M1062	5.0	76.0	93.0	41.2	53.5	14.4	6349.1
14	222M1014	3.0	70.0	91.0	53.4	61.0	10.1	6327.9
33	222M1033	3.0	73.0	94.0	55.7	61.7	2.2	6260.9
55	222M1055	5.0	71.0	100.0	50.4	59.5	8.2	6257.6
38	222M1038	5.0	69.0	96.0	50.0	60.5	10.2	6256.7
26	222M1026	3.0	74.0	95.0	53.2	60.6	5.6	6126.7
63	222M1063	3.0	74.0	85.0	53.7	61.6	9.7	6124.9
1	222M1001	3.0	65.0	95.0	48.9	59.6	4.1	6121.9
29	222M1029	5.0	73.0	92.0	56.8	60.9	3.4	6084.4
37	222M1037	5.0	72.0	85.0	57.4	63.6	7.5	6036.0
28	222M1028	5.0	70.0	85.0	48.4	63.0	13.9	5947.4
21	222M1021	3.0	75.0	93.0	51.0	59.1	4.0	5924.5
60	222M1060	5.0	75.0	89.0	51.8	61.0	6.8	5921.7
90	222M1090	5.0	69.0	88.0	44.9	56.1	9.6	5893.7
36	222M1036	5.0	72.0	96.0	48.9	57.9	5.9	5887.3
94	222M1094	5.0	70.0	87.0	46.3	55.3	7.4	5840.4
3	222M1003	5.0	75.0	98.0	47.8	58.3	9.2	5800.7
122	222M1122	5.0	72.0	90.0	51.5	59.6	4.3	5384.2
69	222M1069	5.0	78.0	86.0	49.2	58.9	13.0	5332.6

Continued.

Table 7. Continued.

ENT	NAME	VIG¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
31	222M1031	5.0	71.0	98.0	41.4	56.1	5.0	5216.7
40	222M1040	5.0	75.0	89.0	44.5	56.0	13.3	5034.0

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

PROVISA PRELIMINARY YIELD TRIAL

The Provisia Preliminary Yield (PVPY) trial consists primarily of promising breeding nursery material that is ready to be tested in replicated yield trials. The material in this trial was screened for agronomic and grain characteristics in nurseries prior to this phase of testing. Promising experimental lines were evaluated for seedling vigor, maturity, plant height, lodging resistance, grain yield of main crop, and disease resistance.

The trial was conducted using standard agronomic practices (except that no fungicides were applied) at the H. Rouse Caffey Rice Research Station (HRCRRS), Rayne, LA. Provisia herbicide was applied at 31 oz (2x rate) on April 28. A randomized complete block design was applied to arrange test entries. The plot size was 4.66 x 16 ft. Seeding rate was 90 lb/A. Planting and harvesting dates are found in Table 1, while entry number, herbicide type, pedigree, grain type, and source are in Table 2. Data is presented in Tables 3 and 4.

Table 1. Planting and harvesting dates for the 2022 Provisia Preliminary Yield trial.

Location	Trial	Planting	Harvesting
HRCRRS	PVPY	3/4	7/25
	PVPY – Late Planting	4/4	8/6

Table 2. Entry number, pedigree, grain type, and source information for entries in the 2022 Provisia Preliminary Yield trial.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
PV	1	223L1001	PVL01/CHNR	LG	LAES
PV	2	223L1002	PVL01/CHNR	LG	LAES
PV	3	223L1003	PVL01/CHNR	LG	LAES
PV	4	223L1004	PVL01/CHNR	LG	LAES
PV	5	223L1005	PVL01/CHNR	LG	LAES
PV	6	223L1006	PVL01/LKST	LG	LAES
PV	7	223L1007	PVL01/LKST	LG	LAES
PV	8	223L1008	PVL01/LKST	LG	LAES
PV	9	223L1009	PVL01/LKST	LG	LAES
PV	10	223L1010	PVL01/LKST	LG	LAES
PV	11	223L1011	PVL01/LKST	LG	LAES
PV	12	223L1012	RU1502115/PVL01	LG	LAES
PV	13	223L1013	RU1502115/PVL01	LG	LAES
PV	14	223L1014	PVL01/RU1602189	LG	LAES
PV	15	223L1015	PVL01/RU1602189	LG	LAES
PV	16	223L1016	PVL01/RU1602189	LG	LAES
PV	17	223L1017	PVL01/RU1602189	LG	LAES
PV	18	223L1018	PVL01/RU1602189	LG	LAES
PV	19	223L1019	PVL081/CL172	LG	LAES
PV	20	223L1020	PVL081/CL172	LG	LAES
PV	21	223L1021	PVL081/CL172	LG	LAES
PV	22	223L1022	PVL081/CL172	LG	LAES
PV	23	223L1023	PVL081/CL172	LG	LAES
PV	24	223L1024	CL111/183L2070	LG	LAES
PV	25	223L1025	CL111/183L2070	LG	LAES
PV	26	223L1026	CL111/183L2070	LG	LAES
PV	27	223L1027	CL111/183L2070	LG	LAES
PV	28	223L1028	CL111/183L2070	LG	LAES
PV	29	223L1029	182L1278/PVL02	LG	LAES
PV	30	223L1030	182L1278/PVL02	LG	LAES
PV	31	223L1031	182L1278/PVL02	LG	LAES
PV	32	223L1032	183L2070/182L1278	LG	LAES
PV	33	223L1033	183L2070/182L1278	LG	LAES
PV	34	223L1034	183L2070/182L1278	LG	LAES
PV	35	223L1035	183L2070/182L1278	LG	LAES
PV	36	223L1036	RU1902126/PVL01	LG	LAES
PV	37	223L1037	RU1902126/PVL01	LG	LAES
PV	38	223L1038	RU1902126/PVL01	LG	LAES
PV	39	223L1039	RU1902126/PVL01	LG	LAES
PV	40	223L1040	RU1902126/PVL01	LG	LAES
PV	41	223L1041	RU1902126/PVL01	LG	LAES
PV	42	223L1042	RU1902126/PVL01	LG	LAES
PV	43	223L1043	RU1902126/PVL01	LG	LAES
PV	44	223L1044	RU1902126/PVL01	LG	LAES
PV	45	223L1045	RU1902126/PVL01	LG	LAES
PV	46	223L1046	PVL03/RoyJ	LG	LAES
PV	47	223L1047	PVL03/RoyJ	LG	LAES
PV	48	223L1048	PVL03/RoyJ	LG	LAES
PV	49	223L1049	PVL03/RoyJ	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
PV	50	223L1050	PVL03/RoyJ	LG	LAES
PV	51	223L1051	PVL03/RoyJ	LG	LAES
PV	52	223L1052	PVL03/RoyJ	LG	LAES
PV	53	223L1053	PVL03/RoyJ	LG	LAES
PV	54	223L1054	PVL03/RoyJ	LG	LAES
PV	55	223L1055	PVL03/RoyJ	LG	LAES
PV	56	223L1056	PVL03/RoyJ	LG	LAES
PV	57	223L1057	PVL03/RoyJ	LG	LAES
PV	58	223L1058	PVL03/CHNR	LG	LAES
PV	59	223L1059	PVL03/CHNR	LG	LAES
PV	60	223L1060	PVL03/CHNR	LG	LAES
PV	61	223L1061	PVL03/CHNR	LG	LAES
PV	62	223L1062	PVL03/CHNR	LG	LAES
PV	63	223L1063	PVL03/CHNR	LG	LAES
PV	64	223L1064	PVL03/CHNR	LG	LAES
PV	65	223L1065	PVL03/CHNR	LG	LAES
PV	66	223L1066	PVL03/CHNR	LG	LAES
PV	67	223L1067	PVL03/CHNR	LG	LAES
PV	68	223L1068	PVL03/CHNR	LG	LAES
PV	69	223L1069	PV17TA76/171L1772	LG	LAES
PV	70	223L1070	PV17TA76/171L1772	LG	LAES
PV	71	223L1071	PV17TA76/171L1772	LG	LAES
PV	72	223L1072	PV17TA76/171L1772	LG	LAES
PV	73	223L1073	PV17TA76/171L1772	LG	LAES
PV	74	223L1074	PV17TA76/171L1772	LG	LAES
PV	75	223L1075	PV17TA76/171L1772	LG	LAES
PV	76	223L1076	PV17TA76/171L1772	LG	LAES
PV	77	223L1077	PV17TA76/171L1772	LG	LAES
PV	78	223L1078	PV17TA76/171L1772	LG	LAES
PV	79	223L1079	PV17TA76/171L1772	LG	LAES
PV	80	223L1080	PV17TA76/171L1772	LG	LAES
PV	81	223L1081	PV17TA76/171L1772	LG	LAES
PV	82	223L1082	PV17TA76/171L1772	LG	LAES
PV	83	223L1083	PV17TA76/171L1772	LG	LAES
PV	84	223L1084	PV17TA75/RoyJ	LG	LAES
PV	85	223L1085	PV17TA75/RoyJ	LG	LAES
PV	86	223L1086	PV17TA75/RoyJ	LG	LAES
PV	87	223L1087	PV17TA75/RoyJ	LG	LAES
PV	88	223L1088	PV17TA75/RoyJ	LG	LAES
PV	89	223L1089	PV17TA75/RoyJ	LG	LAES
PV	90	223L1090	PV17TA75/RoyJ	LG	LAES
PV	91	223L1091	PV17TA75/RoyJ	LG	LAES
PV	92	223L1092	PV17TA75/RoyJ	LG	LAES
PV	93	223L1093	PV17TA75/RoyJ	LG	LAES
PV	94	223L1094	PV17TA75/RoyJ	LG	LAES
PV	95	223L1095	PV17TA75/RoyJ	LG	LAES
PV	96	223L1096	PV17TA75/RoyJ	LG	LAES
PV	97	223L1097	RoyJ/PV17TA73	LG	LAES
PV	98	223L1098	RoyJ/PV17TA73	LG	LAES
PV	99	223L1099	PV17TA75/LKST	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
PV	100	223L1100	PV17TA75/LKST	LG	LAES
PV	101	223L1101	PV17TA75/LKST	LG	LAES
PV	102	223L1102	PV17TA75/LKST	LG	LAES
PV	103	223L1103	PV17TA75/RU1702140	LG	LAES
PV	104	223L1104	PV17TA75/RU1702140	LG	LAES
PV	105	223L1105	PV17TA75/RU1702140	LG	LAES
PV	106	223L1106	PV17TA75/RU1702140	LG	LAES
PV	107	223L1107	PV17TA75/RU1702140	LG	LAES
PV	108	223L1108	PV17TA75/RU1702140	LG	LAES
PV	109	223L1109	PV17TA75/RU1702140	LG	LAES
PV	110	223L1110	PV17TA75/RU1702140	LG	LAES
PV	111	223L1111	PV17TA75/RU1702140	LG	LAES
PV	112	223L1112	PV17TA75/RU1702140	LG	LAES
PV	113	223L1113	PV17TA75/RU1702140	LG	LAES
PV	114	223L1114	PV17TA75/RU1702140	LG	LAES
PV	115	223L1115	PV17TA75/RU1702140	LG	LAES
PV	116	223L1116	PV17TA75/RU1702140	LG	LAES
PV	117	223L1117	PV17TA75/RU1702140	LG	LAES
PV	118	223L1118	PV17TA75/CTHL	LG	LAES
PV	119	223L1119	PV17TA75/CTHL	LG	LAES
PV	120	223L1120	PV17TA75/CTHL	LG	LAES
PV	121	223L1121	183L2070/RU2002150	LG	LAES
PV	122	223L1122	183L2070/RU2002150	LG	LAES
PV	123	223L1123	183L2070/RU2002150	LG	LAES
PV	124	223L1124	183L2070/RU2002150	LG	LAES
PV	125	223L1125	183L2070/RU2002150	LG	LAES
PV	126	223L1126	183L2070/RU2002150	LG	LAES
PV	127	223L1127	183L2070/RU2002150	LG	LAES
PV	128	223L1128	183L2070/RU2002150	LG	LAES
PV	129	223L1129	183L2070/RU2002150	LG	LAES
PV	130	223L1130	183L2070/RU2002150	LG	LAES
PV	131	223L1131	183L2070/RU2002150	LG	LAES
PV	132	223L1132	183L2070/RU2002150	LG	LAES
PV	133	223L1133	183L2070/RU2002150	LG	LAES
PV	134	223L1134	183L2070/RU2002150	LG	LAES
PV	135	223L1135	183L2070/RU2002150	LG	LAES
PV	136	223L1136	183L2070/RU2002150	LG	LAES
PV	137	223L1137	183L2070/RU2002150	LG	LAES
PV	138	223L1138	183L2070/RU2002150	LG	LAES
PV	139	223L1139	DMND/183L2070	LG	LAES
PV	140	223L1140	DMND/183L2070	LG	LAES
PV	141	223L1141	DMND/183L2070	LG	LAES
PV	142	223L1142	DMND/183L2070	LG	LAES
PV	143	223L1143	183L1231/PVL02	LG	LAES
PV	144	223L1144	DMND/183L1227	LG	LAES
PV	145	223L1145	DMND/183L1227	LG	LAES
PV	146	223L1146	DMND/183L1227	LG	LAES
PV	147	223L1147	DMND/183L1227	LG	LAES
PV	148	223L1148	DMND/183L1227	LG	LAES
PV	149	223L1149	DMND/183L1227	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
PV	150	223L1150	DMND/183L1227	LG	LAES
PV	151	223L1151	CTHL/183L1227	LG	LAES
PV	152	223L1152	CTHL/183L1227	LG	LAES
PV	153	223L1153	INIA6/183L1227	LG	LAES
PV	154	223L1154	INIA6/183L1227	LG	LAES
PV	155	223L1155	INIA6/183L1227	LG	LAES
PV	156	223L1156	183L2070/CHNR	LG	LAES
PV	157	223L1157	183L2070/CHNR	LG	LAES
PV	158	223L1158	183L2070/CHNR	LG	LAES
PV	159	223L1159	183L2070/CHNR	LG	LAES
PV	160	223L1160	183L2070/CHNR	LG	LAES
PV	161	223L1161	183L2070/CHNR	LG	LAES
PV	162	223L1162	183L2070/CHNR	LG	LAES
PV	163	223L1163	183L2070/CHNR	LG	LAES
PV	164	223L1164	183L2070/CHNR	LG	LAES
PV	165	223L1165	183L2070/CHNR	LG	LAES
PV	166	223L1166	183L2070/CHNR	LG	LAES
PV	167	223L1167	183L2070/CHNR	LG	LAES
PV	168	223L1168	183L2070/CHNR	LG	LAES
PV	169	223L1169	183L2070/CHNR	LG	LAES
PV	170	223L1170	183L2070/CHNR	LG	LAES
PV	171	223L1171	183L1227/RU1902194	LG	LAES
PV	172	223L1172	183L1227/RU1902194	LG	LAES
PV	173	223L1173	183L1227/RU1902194	LG	LAES
PV	174	223L1174	183L1227/RU1902194	LG	LAES
PV	175	223L1175	RU1702140/PVL01	LG	LAES
PV	176	223L1176	RU1702140/PVL01	LG	LAES
PV	177	223L1177	RU1702140/PVL01	LG	LAES
PV	178	223L1178	RU1702140/PVL01	LG	LAES
PV	179	223L1179	RU1702140/PVL01	LG	LAES
PV	180	223L1180	RU1702140/PVL01	LG	LAES
PV	181	223L1181	RU1702140/PVL01	LG	LAES
PV	182	223L1182	183L2070/RU1902186	LG	LAES
PV	183	223L1183	183L2070/RU1902186	LG	LAES
PV	184	223L1184	183L2070/RU1902186	LG	LAES
PV	185	223L1185	183L2070/RU1902186	LG	LAES
PV	186	223L1186	183L2070/RU1902186	LG	LAES
PV	187	223L1187	183L2070/RU1902186	LG	LAES
PV	188	223L1188	183L2070/RU1902186	LG	LAES
PV	189	223L1189	183L2070/RU1902186	LG	LAES
PV	190	223L1190	183L2070/RU1902186	LG	LAES
PV	191	223L1191	183L2070/RU1902186	LG	LAES
PV	192	223L1192	183L2070/RU1902186	LG	LAES
PV	193	223L1193	183L2070/RU1902186	LG	LAES
PV	194	223L1194	183L2070/RU1902186	LG	LAES
PV	195	223L1195	183L2070/RU1902186	LG	LAES
PV	196	223L1196	183L2070/RU1902186	LG	LAES
PV	197	223L1197	183L2070/RU1902186	LG	LAES
PV	198	223L1198	183L2070/RU1902186	LG	LAES
PV	199	223L1199	183L2070/RU1902186	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
PV	200	223L1200	183L2070/RU1902186	LG	LAES
PV	201	223L1201	183L2070/RU1902186	LG	LAES
PV	202	223L1202	183L2070/RU1902186	LG	LAES
PV	203	223L1203	PVL03/RU1902194	LG	LAES
PV	204	223L1204	PVL03/RU1902194	LG	LAES
PV	205	223L1205	PVL03/RU1902194	LG	LAES
PV	206	223L1206	PVL03/RU1902194	LG	LAES
PV	207	223L1207	PVL03/RU1902194	LG	LAES
PV	208	223L1208	PVL03/RU1902194	LG	LAES
PV	209	223L1209	PVL03/RU1902194	LG	LAES
PV	210	223L1210	PVL03/RU1902194	LG	LAES
PV	211	223L1211	PVL03/RU1902194	LG	LAES
PV	212	223L1212	PVL03/RU1902194	LG	LAES
PV	213	223L1213	PVL03/RU1902194	LG	LAES
PV	214	223L1214	PVL03/RU1902194	LG	LAES
PV	215	223L1215	PVL03/RU1902194	LG	LAES
PV	216	223L1216	PVL03/RU1902194	LG	LAES
PV	217	223L1217	PVL03/RU1902194	LG	LAES
PV	218	223L1218	PVL03/RU1902194	LG	LAES
PV	219	223L1219	PVL03/RU1902194	LG	LAES
PV	220	223L1220	PVL03/RU1902194	LG	LAES
PV	221	223L1221	PVL03/RU1902194	LG	LAES
PV	222	223L1222	PVL03/RU1902194	LG	LAES
PV	223	223L1223	PVL03/RU1902194	LG	LAES
PV	224	223L1224	PVL03/RU1902194	LG	LAES
PV	225	223L1225	PVL03/RU1902194	LG	LAES
PV	226	223L1226	PVL03/RU1902194	LG	LAES
PV	227	223L1227	RU1902186/PVL02	LG	LAES
PV	228	223L1228	RU1902186/PVL02	LG	LAES
PV	229	223L1229	INIA6/PVL03	LG	LAES
PV	230	223L1230	INIA6/PVL03	LG	LAES
PV	231	223L1231	INIA6/PVL03	LG	LAES
PV	232	223L1232	INIA6/PVL03	LG	LAES
PV	233	223L1233	INIA6/PVL03	LG	LAES
PV	234	223L1234	INIA6/PVL03	LG	LAES
PV	235	223L1235	INIA6/PVL03	LG	LAES
PV	236	223L1236	INIA6/PVL03	LG	LAES
PV	237	223L1237	INIA6/PVL03	LG	LAES
PV	238	223L1238	INIA6/PVL03	LG	LAES
PV	239	223L1239	INIA6/PVL03	LG	LAES
PV	240	223L1240	INIA6/PVL03	LG	LAES
PV	241	223L1241	INIA6/PVL03	LG	LAES
PV	242	223L1242	INIA6/PVL03	LG	LAES
PV	243	223L1243	INIA6/PVL03	LG	LAES
PV	244	223L1244	INIA6/PVL03	LG	LAES
PV	245	223L1245	INIA6/PVL03	LG	LAES
PV	246	223L1246	INIA6/PVL03	LG	LAES
PV	247	223L1247	INIA6/PVL03	LG	LAES
PV	248	223L1248	INIA6/PVL03	LG	LAES
PV	249	223L1249	PVL01/RU1902186	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
PV	250	223L1250	PVL01/RU1902186	LG	LAES
PV	251	223L1251	PVL01/RU1902186	LG	LAES
PV	252	223L1252	PVL01/RU1902186	LG	LAES
PV	253	223L1253	PVL01/RU1902186	LG	LAES
PV	254	223L1254	PVL01/RU1902186	LG	LAES
PV	255	223L1255	PVL01/RU1902186	LG	LAES
PV	256	223L1256	PVL01/RU1902186	LG	LAES
PV	257	223L1257	PVL01/RU1902186	LG	LAES
PV	258	223L1258	PVL01/RU1902186	LG	LAES
PV	259	223L1259	PVL01/RU1902186	LG	LAES
PV	260	223L1260	PVL01/RU1902186	LG	LAES
PV	261	223L1261	PVL01/RU1902186	LG	LAES
PV	262	223L1262	PVL01/RU1902186	LG	LAES
PV	263	223L1263	PVL01/RU1902186	LG	LAES
PV	264	223L1264	PVL01/RU1902186	LG	LAES
PV	265	223L1265	PVL01/RU1902186	LG	LAES
PV	266	223L1266	PVL01/RU1902186	LG	LAES
PV	267	223L1267	PVL01/RU1902186	LG	LAES
PV	268	223L1268	PVL03/DMND	LG	LAES
PV	269	223L1269	PVL03/DMND	LG	LAES
PV	270	223L1270	PVL03/DMND	LG	LAES
PV	271	223L1271	PVL03/DMND	LG	LAES
PV	272	223L1272	PVL03/DMND	LG	LAES
PV	273	223L1273	PVL03/DMND	LG	LAES
PV	274	223L1274	PVL03/DMND	LG	LAES
PV	275	223L1275	PVL03/DMND	LG	LAES
PV	276	223L1276	PVL03/DMND	LG	LAES
PV	277	223L1277	PVL03/DMND	LG	LAES
PV	278	223L1278	PVL03/DMND	LG	LAES
PV	279	223L1279	PVL03/DMND	LG	LAES
PV	280	223L1280	PVL03/DMND	LG	LAES
PV	281	223L1281	PVL03/DMND	LG	LAES
PV	282	223L1282	PVL03/DMND	LG	LAES
PV	283	223L1283	PVL03/DMND	LG	LAES
PV	284	223L1284	INIA22/PVL01	LG	LAES
PV	285	223L1285	INIA22/PVL01	LG	LAES
PV	286	223L1286	INIA22/PVL01	LG	LAES
PV	287	223L1287	INIA22/PVL01	LG	LAES
PV	288	223L1288	INIA22/PVL01	LG	LAES
PV	289	223L1289	INIA22/PVL01	LG	LAES
PV	290	223L1290	PVL01/RU1804187	LG	LAES
PV	291	223L1291	PVL01/RU1804187	LG	LAES
PV	292	223L1292	PVL01/RU1804187	LG	LAES
PV	293	223L1293	PVL01/RU1804187	LG	LAES
PV	294	223L1294	PVL01/RU1804187	LG	LAES
PV	295	223L1295	PVL01/RU1804187	LG	LAES
PV	296	223L1296	PVL01/RU1804187	LG	LAES
PV	297	223L1297	PVL01/RU1804187	LG	LAES
PV	298	223L1298	PVL01/RU1804187	LG	LAES
PV	299	223L1299	PVL01/RU1804187	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
PV	300	223L1300	PVL01/RU1804187	LG	LAES
PV	301	223L1301	PVL01/RU1804187	LG	LAES
PV	302	223L1302	PVL01/RU1804187	LG	LAES
PV	303	223L1303	PVL01/RU1804187	LG	LAES
PV	304	223L1304	PVL01/RU1804187	LG	LAES
PV	305	223L1305	PVL01/RU1804187	LG	LAES
PV	306	223L1306	PVL01/RU1804187	LG	LAES
PV	307	223L1307	PVL01/RU1804187	LG	LAES
PV	308	223L1308	PVL01/RU1804187	LG	LAES
PV	309	223L1309	PVL03/RU1804067	LG	LAES
PV	310	223L1310	PVL03/RU1804067	LG	LAES
PV	311	223L1311	PVL03/RU1804067	LG	LAES
PV	312	223L1312	PVL03/RU1804067	LG	LAES
PV	313	223L1313	PVL03/RU1804067	LG	LAES
PV	314	223L1314	PVL03/RU1804067	LG	LAES
PV	315	223L1315	PVL03/RU1804067	LG	LAES
PV	316	223L1316	PVL03/RU1804067	LG	LAES
PV	317	223L1317	PVL03/RU1804067	LG	LAES
PV	318	223L1318	PVL03/RU1804067	LG	LAES
PV	319	223L1319	PVL03/RU1804067	LG	LAES
PV	320	223L1320	PVL03/RU1804067	LG	LAES
PV	321	223L1321	PVL03/RU1804067	LG	LAES
PV	322	223L1322	PVL03/RU1804067	LG	LAES
PV	323	223L1323	183L1231/RU1804067	LG	LAES
PV	324	223L1324	183L1231/RU1804067	LG	LAES
PV	325	223L1325	183L1231/RU1804067	LG	LAES
PV	326	223L1326	183L1231/RU1804067	LG	LAES
PV	327	223L1327	PVL03/INIA22	LG	LAES
PV	328	223L1328	PVL03/INIA22	LG	LAES
PV	329	223L1329	PVL03/INIA22	LG	LAES
PV	330	223L1330	PVL03/INIA8	LG	LAES
PV	331	223L1331	PVL03/INIA8	LG	LAES
PV	332	PVL02		LG	LAES
PV	333	PVL03		LG	LAES
PV	334	RU2002070		LG	LAES
PV	335	RU2002174		LG	LAES
PV	336	RU2102186		LG	LAES

[†] LG = Long grain, MG = Medium grain, AI = Long-grain aromatic-Della type, AL = Long-grain aromatic-Jazzman type, and HI = Long-grain high amylose-Dixiebelles type.

[‡] LAES – H. Rouse Caffey Rice Research Station, Louisiana Agricultural Experiment Station, LSU AgCenter, Rayne; AAES – Arkansas Agricultural Experiment Station, Stuttgart, AR; MAES – Delta Research and Extension Center, Stoneville, MS; TAES, USDA – Texas A&M Research and Education Center, Texas Agricultural Experiment Station, U.S. Department of Agriculture, Beaumont, TX; RiceTec, Alvin, TX; and Nutrien Ag Solutions.

Table 3. Grain and milling yields and agronomic performance of entries in the 2022 Provisia Preliminary Yield trial.
H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
1	223L1001	5.0	85.0	98.0	49.4	68.8	7.4	9827.4
147	223L1147	5.0	82.0	113.0	52.9	66.5	16.8	9512.5
188	223L1188	5.0	88.0	96.0	59.2	68.1	16.5	9512.5
331	223L1331	5.0	83.0	105.0	47.7	61.5	15.8	9507.2
12	223L1012	5.0	87.0	106.0	55.9	67.5	16.7	9487.0
173	223L1173	5.0	87.0	105.0	53.9	65.1	13.2	9412.8
148	223L1148	5.0	80.0	99.0	55.8	65.4	15.2	9371.2
191	223L1191	5.0	85.0	105.0	56.0	65.6	18.9	9367.3
145	223L1145	3.0	81.0	100.0	56.7	65.3	19.9	9354.0
221	223L1221	7.0	82.0	102.0	60.6	67.8	16.5	9335.5
139	223L1139	5.0	86.0	102.0	60.0	68.3	16.3	9328.4
247	223L1247	5.0	84.0	101.0	52.8	64.3	18.9	9251.6
232	223L1232	7.0	84.0	109.0	55.6	65.8	9.8	9204.6
248	223L1248	5.0	80.0	96.0	53.6	65.7	17.8	9176.2
211	223L1211	5.0	79.0	106.0	53.9	65.6	18.4	9176.0
196	223L1196	3.0	84.0	97.0	52.3	66.8	15.8	9167.1
184	223L1184	5.0	85.0	100.0	57.9	67.2	13.1	9138.9
5	223L1005	5.0	83.0	93.0	58.0	67.9	13.4	9138.3
206	223L1206	7.0	82.0	94.0	59.0	66.1	18.8	9135.0
193	223L1193	5.0	82.0	98.0	47.6	65.4	26.8	9120.4
66	223L1066	5.0	87.0	96.0	59.4	69.1	14.2	9104.1
185	223L1185	5.0	84.0	109.0	53.9	66.0	24.5	9086.3
133	223L1133	5.0	80.0	96.0	58.2	67.7	11.4	9085.3
226	223L1226	5.0	81.0	97.0	56.2	65.5	19.6	9074.4
176	223L1176	5.0	87.0	97.0	58.6	67.1	27.9	9069.7
244	223L1244	5.0	84.0	109.0	54.7	66.6	10.4	9052.0
171	223L1171	3.0	80.0	96.0	48.8	63.2	19.7	9050.9
26	223L1026	3.0	84.0	106.0	54.1	66.9	11.4	9044.4
272	223L1272	7.0	85.0	85.0	60.4	68.1	10.7	9026.8
230	223L1230	5.0	85.0	101.0	61.7	67.5	16.3	9010.2
27	223L1027	5.0	79.0	101.0	55.9	68.5	15.2	8985.6
245	223L1245	5.0	83.0	106.0	51.9	65.7	14.0	8985.6
213	223L1213	5.0	79.0	108.0	56.3	67.2	22.7	8976.4
216	223L1216	5.0	82.0	95.0	57.0	66.4	24.1	8948.0
60	223L1060	5.0	83.0	93.0	58.9	68.7	12.2	8901.3
243	223L1243	5.0	84.0	99.0	56.6	65.3	14.8	8866.9
315	223L1315	5.0	85.0	93.0	56.0	66.2	15.9	8854.0
228	223L1228	5.0	85.0	104.0	56.5	67.1	17.7	8833.2
205	223L1205	5.0	82.0	98.0	58.8	67.0	21.0	8808.5
183	223L1183	5.0	84.0	99.0	58.0	67.9	20.0	8776.8
236	223L1236	5.0	79.0	98.0	48.2	66.1	14.7	8771.7
249	223L1249	5.0	85.0	100.0	54.0	63.1	22.2	8760.5
334	RU2002070	5.0	84.0	93.0	55.2	66.9	12.1	8740.4

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
162	223L1162	7.0	88.0	88.0	60.2	68.6	9.5	8731.2
210	223L1210	5.0	80.0	92.0	55.8	67.2	22.3	8729.5
32	223L1032	7.0	83.0	107.0	55.1	67.4	24.5	8723.7
212	223L1212	3.0	79.0	100.0	57.2	67.1	20.5	8700.9
25	223L1025	5.0	85.0	97.0	65.0	69.8	9.8	8698.7
198	223L1198	5.0	89.0	96.0	57.1	67.9	20.5	8686.5
189	223L1189	5.0	87.0	101.0	54.2	65.7	23.9	8674.9
333	PVL03	5.0	84.0	104.0	60.4	68.8	15.5	8652.9
37	223L1037	5.0	89.0	95.0	51.3	66.2	11.6	8642.9
4	223L1004	5.0	83.0	93.0	56.4	67.6	19.4	8625.7
190	223L1190	5.0	83.0	93.0	52.9	65.8	26.9	8614.2
182	223L1182	5.0	94.0	102.0	59.7	68.4	22.2	8606.1
280	223L1280	5.0	85.0	94.0	59.6	67.9	15.3	8579.0
16	223L1016	5.0	85.0	93.0	65.0	70.3	11.0	8573.3
336	RU2102186	5.0	88.0	107.0	61.1	69.3	9.9	8559.2
38	223L1038	5.0	92.0	99.0	54.7	65.4	13.9	8554.6
24	223L1024	5.0	82.0	95.0	59.4	68.7	20.8	8553.3
310	223L1310	5.0	87.0	97.0	49.6	64.8	13.4	8552.2
81	223L1081	5.0	80.0	97.0	61.8	69.4	14.9	8511.6
28	223L1028	7.0	83.0	101.0	57.3	67.4	21.7	8503.7
266	223L1266	5.0	83.0	117.0	53.6	65.8	13.2	8494.6
268	223L1268	5.0	85.0	111.0	56.1	66.0	17.7	8476.9
34	223L1034	5.0	84.0	94.0	60.0	68.1	12.6	8469.6
181	223L1181	5.0	88.0	97.0	52.5	64.1	15.3	8456.0
195	223L1195	5.0	82.0	104.0	48.9	63.0	31.6	8454.6
218	223L1218	5.0	80.0	98.0	58.0	68.5	15.0	8453.7
225	223L1225	5.0	79.0	97.0	51.8	67.0	20.2	8452.3
194	223L1194	5.0	88.0	95.0	58.1	66.6	20.3	8441.5
44	223L1044	5.0	94.0	94.0	48.7	66.1	10.9	8441.2
160	223L1160	5.0	85.0	97.0	52.0	65.1	11.0	8440.1
155	223L1155	5.0	79.0	103.0	56.8	64.3	9.2	8432.0
20	223L1020	5.0	88.0	95.0	42.7	65.3	9.0	8427.8
158	223L1158	5.0	82.0	97.0	52.3	66.5	8.5	8423.6
224	223L1224	5.0	79.0	102.0	49.3	66.8	17.7	8417.8
21	223L1021	5.0	82.0	95.0	55.8	65.6	9.1	8407.7
219	223L1219	5.0	85.0	94.0	60.6	67.7	16.0	8404.6
172	223L1172	5.0	82.0	97.0	58.3	66.0	15.7	8396.8
22	223L1022	5.0	86.0	100.0	52.7	65.9	11.5	8376.2
265	223L1265	5.0	84.0	101.0	53.1	65.9	12.1	8374.8
125	223L1125	5.0	89.0	94.0	61.0	69.2	13.4	8352.2
2	223L1002	5.0	84.0	96.0	57.3	67.1	8.4	8344.6
142	223L1142	5.0	94.0	88.0	54.0	64.6	10.1	8344.6
165	223L1165	7.0	87.0	100.0	61.6	69.1	8.8	8343.1
234	223L1234	5.0	81.0	101.0	55.0	65.8	16.5	8333.8

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
177	223L1177	5.0	86.0	101.0	59.4	67.5	11.2	8308.9
222	223L1222	5.0	82.0	108.0	59.5	69.1	17.3	8287.6
223	223L1223	5.0	80.0	96.0	57.7	67.5	20.0	8284.4
320	223L1320	3.0	83.0	96.0	56.1	66.7	14.2	8283.4
201	223L1201	5.0	88.0	101.0	53.0	64.3	22.3	8282.1
6	223L1006	5.0	87.0	94.0	47.0	64.1	14.4	8275.7
157	223L1157	5.0	84.0	99.0	62.3	70.0	16.4	8237.9
258	223L1258	3.0	83.0	96.0	55.1	67.1	17.2	8232.7
295	223L1295	5.0	93.0	104.0	47.0	64.5	16.0	8229.5
3	223L1003	5.0	83.0	97.0	56.1	66.5	10.3	8227.1
283	223L1283	5.0	81.0	99.0	55.8	66.5	12.8	8226.1
159	223L1159	5.0	85.0	103.0	53.9	67.0	13.5	8222.7
202	223L1202	5.0	84.0	105.0	52.8	64.3	24.7	8219.5
238	223L1238	5.0	85.0	106.0	45.0	62.4	16.7	8194.1
71	223L1071	7.0	80.0	110.0	52.1	67.2	13.2	8175.6
63	223L1063	7.0	82.0	92.0	59.2	67.7	10.7	8173.7
56	223L1056	5.0	80.0	91.0	54.2	66.4	20.6	8165.9
154	223L1154	3.0	83.0	105.0	57.0	65.1	13.5	8156.6
203	223L1203	5.0	80.0	95.0	57.9	67.3	15.9	8152.3
273	223L1273	5.0	82.0	100.0	56.2	67.0	11.0	8139.3
126	223L1126	5.0	95.0	93.0	62.4	67.8	10.9	8135.4
18	223L1018	5.0	87.0	92.0	53.7	66.9	7.0	8120.8
43	223L1043	5.0	85.0	92.0	51.0	67.1	17.2	8111.6
323	223L1323	5.0	83.0	92.0	58.0	68.0	9.5	8089.0
252	223L1252	5.0	88.0	95.0	55.6	67.7	17.5	8063.3
281	223L1281	5.0	83.0	92.0	60.2	68.2	9.3	8030.4
77	223L1077	5.0	80.0	100.0	53.7	67.8	12.0	8021.7
335	RU2002174	5.0	93.0	98.0	54.3	67.2	10.1	8005.4
30	223L1030	5.0	85.0	97.0	62.1	67.3	8.9	8001.5
170	223L1170	5.0	89.0	100.0	57.4	68.7	8.3	7995.0
65	223L1065	5.0	79.0	96.0	55.0	68.0	15.5	7988.4
42	223L1042	5.0	88.0	97.0	53.6	67.1	13.3	7978.7
237	223L1237	7.0	82.0	96.0	57.3	66.1	7.0	7966.6
123	223L1123	5.0	96.0	102.0	56.9	67.9	17.1	7955.6
278	223L1278	5.0	87.0	94.0	59.7	68.7	12.8	7952.8
227	223L1227		88.0	106.0	65.3	70.0	11.9	7951.9
39	223L1039	5.0	93.0	95.0	45.9	63.3	9.3	7951.1
259	223L1259	5.0	88.0	100.0	57.2	66.1	18.4	7950.1
332	PVL02	5.0	83.0	101.0	62.8	69.0	10.4	7948.4
163	223L1163	5.0	84.0	101.0	41.6	63.1	21.0	7944.1
72	223L1072	5.0	79.0	98.0	55.7	67.5	11.5	7930.1
73	223L1073	5.0	81.0	95.0	59.3	69.7	14.1	7929.0
79	223L1079	5.0	85.0	106.0	59.9	68.2	9.6	7920.5
246	223L1246	5.0	81.0	101.0	55.2	66.3	16.6	7911.1

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
101	223L1101	5.0	85.0	92.0	57.4	65.5	7.7	7885.4
168	223L1168	5.0	89.0	101.0	58.2	68.3	13.9	7882.4
192	223L1192	5.0	85.0	104.0	57.4	66.3	21.0	7875.2
13	223L1013	5.0	94.0	96.0	59.1	68.3	8.7	7865.0
241	223L1241	7.0	83.0	88.0	53.8	65.7	20.3	7846.7
270	223L1270	5.0	82.0	86.0	53.5	67.0	18.3	7843.8
130	223L1130	5.0	85.0	95.0	55.1	66.8	9.5	7826.6
118	223L1118	5.0	81.0	105.0	55.0	68.3	12.9	7822.7
136	223L1136	5.0	89.0	93.0	57.6	66.4	19.9	7821.1
175	223L1175	5.0	87.0	100.0	57.7	67.0	12.1	7813.9
166	223L1166	5.0	85.0	98.0	56.6	66.5	14.2	7805.9
269	223L1269	5.0	89.0	96.0	56.8	65.9	12.9	7792.1
186	223L1186	5.0	84.0	96.0	59.2	69.5	26.2	7763.3
235	223L1235	5.0	85.0	104.0	55.1	65.6	11.1	7757.2
41	223L1041	5.0	94.0	105.0	52.4	65.5	7.9	7744.1
174	223L1174	5.0	85.0	95.0	64.2	71.3	25.0	7743.7
187	223L1187	5.0	84.0	103.0	66.0	71.9	19.1	7740.6
144	223L1144	5.0	81.0	103.0	58.4	66.4	19.5	7735.2
105	223L1105	5.0	84.0	104.0	56.3	68.2	11.7	7735.1
141	223L1141	3.0	94.0	90.0	52.2	63.4	24.5	7727.6
215	223L1215	5.0	84.0	100.0				7707.1
153	223L1153	7.0	84.0	92.0	53.3	63.2	11.3	7707.0
260	223L1260	5.0	88.0	93.0	57.8	66.7	13.5	7693.6
14	223L1014	5.0	85.0	98.0	64.7	69.5	12.2	7690.5
254	223L1254	5.0	94.0	103.0	60.8	68.8	15.9	7676.6
11	223L1011	5.0	87.0	102.0	58.0	66.7	18.8	7673.7
217	223L1217	5.0	81.0	94.0	60.6	67.8	15.4	7669.6
143	223L1143	5.0	85.0	97.0	65.7	70.4	8.6	7666.4
64	223L1064	5.0	82.0	95.0	60.1	70.1	12.7	7658.1
314	223L1314	5.0	84.0	88.0	58.7	66.5	10.0	7656.8
67	223L1067	5.0	84.0	98.0	59.7	68.4	9.1	7613.4
128	223L1128	3.0	85.0	89.0	62.1	70.0	14.7	7599.9
169	223L1169	5.0	93.0	93.0	56.2	67.3	9.7	7587.8
31	223L1031	5.0	82.0	90.0	63.7	68.4	8.5	7574.8
104	223L1104	5.0	85.0	101.0	52.7	64.0	10.9	7562.0
98	223L1098	5.0	84.0	89.0	35.8	59.9	35.1	7526.9
146	223L1146	7.0	84.0	91.0	45.3	60.6	32.4	7525.8
229	223L1229	5.0	85.0	97.0	52.7	65.8	12.8	7518.0
132	223L1132	5.0	96.0	92.0	56.1	66.8	20.3	7508.2
279	223L1279	7.0	83.0	85.0	59.2	67.3	12.8	7489.5
74	223L1074	5.0	82.0	97.0	59.0	67.7	12.4	7472.9
83	223L1083	5.0	80.0	100.0	60.7	68.6	9.1	7466.6
208	223L1208	7.0	81.0	99.0	56.6	66.6	18.9	7462.2
302	223L1302	5.0	89.0	98.0	46.3	64.1	17.9	7452.8

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
251	223L1251	5.0	94.0	95.0	53.5	65.7	16.3	7428.3
122	223L1122	5.0	96.0	99.0	55.8	65.8	15.5	7421.2
255	223L1255	5.0	94.0	97.0	61.0	69.6	19.3	7414.3
167	223L1167	5.0	96.0	93.0	55.2	67.7	13.6	7413.5
207	223L1207	5.0	87.0	92.0	60.2	66.7	21.1	7397.5
312	223L1312	5.0	81.0	97.0	49.5	64.9	7.3	7376.6
59	223L1059	5.0	81.0	85.0	56.9	67.8	7.8	7374.0
116	223L1116	5.0	79.0	95.0	49.5	64.2	12.5	7370.3
240	223L1240	3.0	84.0	100.0	44.4	61.7	15.5	7361.8
82	223L1082	5.0	85.0	105.0	52.7	67.1	16.3	7361.1
289	223L1289	5.0	94.0	100.0	56.4	67.0	11.0	7351.3
61	223L1061	5.0	89.0	97.0	60.6	68.3	10.9	7338.0
199	223L1199	5.0	87.0	92.0	55.6	66.2	18.3	7337.5
29	223L1029	5.0	89.0	94.0	59.3	66.2	5.4	7312.8
301	223L1301	5.0	93.0	85.0	49.2	63.9	6.2	7296.9
322	223L1322	5.0	80.0	90.0	54.3	64.9	12.9	7274.2
149	223L1149	5.0	79.0	101.0	53.6	65.3	19.3	7273.3
316	223L1316	5.0	83.0	86.0	51.1	65.5	7.1	7272.3
197	223L1197	5.0	89.0	98.0	64.7	70.6	26.4	7259.5
264	223L1264	5.0	93.0	98.0	51.9	64.3	17.5	7258.7
84	223L1084	5.0	83.0	109.0	52.8	64.6	10.6	7243.7
129	223L1129	5.0	88.0	99.0	59.5	66.5	13.6	7234.0
250	223L1250	5.0	85.0	102.0	59.5	68.6	18.3	7209.0
46	223L1046	5.0	85.0	93.0	53.6	65.3	15.9	7203.8
137	223L1137	-	93.0	100.0	56.2	66.8	13.9	7197.8
321	223L1321	5.0	80.0	90.0	45.4	64.3	14.3	7195.8
204	223L1204	5.0	82.0	106.0	50.8	63.9	22.0	7180.7
274	223L1274	5.0	84.0	99.0	59.7	68.0	9.1	7177.6
293	223L1293	5.0	84.0	102.0	51.6	65.6	7.8	7174.7
328	223L1328	7.0	82.0	84.0	51.0	64.8	7.3	7171.6
36	223L1036	5.0	88.0	97.0	41.7	65.5	12.9	7169.5
299	223L1299	5.0	94.0	89.0	43.0	63.6	18.8	7143.7
220	223L1220	5.0	82.0	101.0	60.0	68.6	21.4	7141.4
214	223L1214	7.0	82.0	90.0	57.7	67.6	19.1	7132.2
50	223L1050	5.0	84.0	105.0	53.7	66.0	15.8	7100.0
78	223L1078	5.0	80.0	105.0	53.8	68.2	17.3	7089.2
33	223L1033	5.0	85.0	91.0	59.9	68.0	18.2	7047.8
288	223L1288	5.0	89.0	104.0	51.3	63.4	5.5	7043.1
52	223L1052	5.0	80.0	94.0	58.2	67.8	19.5	7020.1
103	223L1103	5.0	84.0	97.0	61.4	68.9	9.5	7010.0
62	223L1062	5.0	84.0	95.0	61.7	68.8	7.8	6999.2
164	223L1164	5.0	85.0	98.0	61.2	69.7	24.9	6997.3
113	223L1113	5.0	85.0	96.0	60.0	68.9	11.6	6996.7
17	223L1017	5.0	85.0	88.0	65.6	71.0	10.3	6967.4

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
119	223L1119	7.0	85.0	98.0	-	-	-	6957.5
23	223L1023	5.0	88.0	90.0	57.4	66.5	10.7	6909.1
276	223L1276	5.0	82.0	90.0	58.1	67.4	12.5	6901.8
69	223L1069	5.0	81.0	95.0	52.4	67.2	24.8	6899.8
68	223L1068	5.0	83.0	90.0	56.4	68.3	15.3	6884.0
80	223L1080	5.0	85.0	93.0	58.8	66.8	10.6	6880.9
76	223L1076	5.0	80.0	103.0	41.3	65.0	17.8	6878.4
306	223L1306	5.0	93.0	87.0	55.2	65.4	8.6	6871.3
152	223L1152	5.0	79.0	95.0	53.0	65.8	11.4	6858.4
242	223L1242	5.0	81.0	103.0	54.8	65.8	8.2	6852.2
261	223L1261	5.0	95.0	90.0	56.3	66.4	12.9	6843.4
135	223L1135	5.0	89.0	87.0	61.7	67.4	11.2	6839.9
209	223L1209	5.0	81.0	100.0	56.3	65.7	19.3	6829.9
48	223L1048	5.0	85.0	90.0	57.5	67.2	9.4	6827.1
51	223L1051	5.0	85.0	97.0	61.5	67.2	14.7	6816.4
19	223L1019	5.0	86.0	96.0	39.6	65.0	7.2	6807.6
131	223L1131	5.0	88.0	94.0	49.8	61.9	19.0	6775.9
305	223L1305	5.0	84.0	100.0	52.8	65.0	12.8	6746.1
319	223L1319	5.0	84.0	88.0	55.2	65.4	11.0	6740.1
91	223L1091	3.0	89.0	102.0	56.0	65.1	10.4	6736.0
297	223L1297	5.0	94.0	96.0	49.7	63.4	9.1	6706.9
200	223L1200	5.0	94.0	94.0	51.9	66.0	29.6	6694.3
267	223L1267	5.0	84.0	84.0	54.9	66.7	14.2	6693.0
134	223L1134	5.0	94.0	93.0	53.9	64.5	17.7	6691.3
231	223L1231	5.0	84.0	100.0	61.5	67.3	11.9	6687.4
93	223L1093	5.0	87.0	105.0	55.0	64.6	8.2	6685.0
53	223L1053	5.0	94.0	92.0	53.4	64.9	15.4	6681.8
329	223L1329	5.0	81.0	95.0	53.1	65.0	7.8	6661.7
318	223L1318	5.0	85.0	94.0	59.6	69.4	11.6	6660.5
161	223L1161	5.0	95.0	93.0	53.9	66.6	14.7	6641.5
253	223L1253	7.0	93.0	100.0	45.1	64.8	25.3	6607.2
286	223L1286	5.0	96.0	97.0	49.9	64.4	10.4	6592.9
102	223L1102	5.0	87.0	97.0	46.8	64.6	8.0	6578.6
239	223L1239	3.0	84.0	96.0	65.3	71.3	16.8	6564.6
45	223L1045	5.0	89.0	99.0	48.4	64.3	13.8	6560.1
309	223L1309	5.0	88.0	100.0	51.5	64.1	7.2	6557.8
55	223L1055	7.0	81.0	95.0	51.7	65.9	18.9	6538.9
35	223L1035	-	88.0	100.0	54.2	66.0	12.0	6518.3
307	223L1307	5.0	96.0	95.0	51.3	67.4	8.1	6503.9
7	223L1007	5.0	93.0	90.0	53.5	68.0	18.8	6498.5
121	223L1121	5.0	94.0	104.0	54.2	63.4	19.6	6490.1
15	223L1015	5.0	82.0	96.0	59.0	67.5	8.2	6484.4
330	223L1330	5.0	87.0	104.0	42.1	62.2	14.8	6443.5
317	223L1317	5.0	85.0	84.0	48.4	66.4	12.6	6442.9

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
106	223L1106	5.0	82.0	96.0	55.3	65.8	8.1	6436.6
127	223L1127	7.0	94.0	95.0	52.1	66.2	20.3	6413.0
294	223L1294	5.0	93.0	92.0	46.8	63.2	13.1	6410.5
114	223L1114	5.0	85.0	94.0	55.5	67.2	7.5	6389.8
117	223L1117	5.0	87.0	99.0	54.8	66.9	11.9	6389.7
277	223L1277	5.0	80.0	98.0	54.6	67.2	12.0	6381.0
96	223L1096	5.0	88.0	98.0	47.9	62.7	14.0	6369.1
54	223L1054	5.0	86.0	93.0	52.9	63.9	12.7	6358.7
304	223L1304	5.0	87.0	99.0	49.9	65.7	10.6	6341.6
284	223L1284	5.0	94.0	98.0	52.1	68.2	29.9	6338.7
308	223L1308	5.0	85.0	88.0	55.4	67.1	9.1	6326.2
313	223L1313	5.0	85.0	94.0	54.1	65.2	8.0	6281.1
112	223L1112	5.0	88.0	98.0	60.0	66.8	9.2	6280.4
327	223L1327	5.0	82.0	96.0	57.6	67.4	6.4	6269.8
49	223L1049	7.0	92.0	88.0	54.6	66.0	15.2	6262.0
263	223L1263	5.0	96.0	94.0	52.2	64.7	17.3	6257.9
9	223L1009	5.0	89.0	89.0	52.2	65.7	23.1	6256.1
275	223L1275	5.0	89.0	88.0	51.9	65.1	16.6	6252.3
120	223L1120	5.0	87.0	93.0	56.3	66.1	15.5	6229.9
179	223L1179	5.0	96.0	102.0	47.9	64.5	8.7	6222.6
311	223L1311	5.0	84.0	94.0	45.2	65.7	10.4	6213.6
180	223L1180	5.0	98.0	109.0	46.5	63.6	10.0	6182.6
95	223L1095	5.0	89.0	93.0	44.1	60.3	14.5	6174.7
70	223L1070	5.0	83.0	99.0	63.1	71.7	17.0	6170.4
88	223L1088	5.0	89.0	91.0	57.1	65.7	8.8	6161.6
150	223L1150	5.0	82.0	98.0	58.1	65.6	11.8	6144.0
271	223L1271	5.0	87.0	87.0	50.8	64.8	17.1	6119.3
110	223L1110	5.0	84.0	97.0	57.3	65.5	8.8	6089.6
233	223L1233	5.0	85.0	105.0	51.6	62.9	10.6	6085.4
178	223L1178	5.0	93.0	96.0	43.8	61.0	18.6	6038.1
108	223L1108	5.0	81.0	103.0	59.1	65.6	12.0	6028.3
94	223L1094	5.0	89.0	103.0	46.1	59.4	16.5	6014.9
115	223L1115	5.0	82.0	86.0	45.9	64.5	20.2	6013.9
262	223L1262	5.0	96.0	100.0	35.9	59.3	20.4	6007.6
292	223L1292	5.0	93.0	88.0	51.2	64.2	8.1	6002.2
325	223L1325	5.0	83.0	90.0	56.7	66.7	6.2	5974.6
303	223L1303	5.0	96.0	88.0	31.5	59.0	13.1	5966.1
138	223L1138	5.0	87.0	96.0	57.2	66.5	12.4	5904.3
285	223L1285	5.0	95.0	98.0	52.3	65.3	8.8	5881.9
300	223L1300	7.0	98.0	89.0	56.8	65.8	7.0	5873.7
47	223L1047	5.0	89.0	89.0	47.3	63.0	18.0	5838.2
290	223L1290	5.0	96.0	90.0	50.3	63.8	7.3	5821.1
100	223L1100	5.0	87.0	95.0	49.7	62.5	12.5	5813.8
326	223L1326	5.0	79.0	92.0	57.5	66.0	5.3	5800.0

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
107	223L1107	5.0	85.0	101.0	53.8	65.6	8.7	5710.3
287	223L1287	5.0	96.0	100.0	50.2	64.5	13.3	5702.8
257	223L1257	5.0	95.0	84.0	56.1	67.7	21.2	5674.6
140	223L1140	7.0	89.0	93.0	51.0	61.6	26.7	5674.3
10	223L1010	5.0	89.0	93.0	49.1	64.2	32.4	5672.3
111	223L1111	5.0	88.0	89.0	58.3	67.8	9.1	5617.0
8	223L1008	5.0	95.0	88.0	45.7	62.9	31.6	5559.4
324	223L1324	5.0	82.0	106.0	54.1	64.0	20.3	5500.6
89	223L1089	5.0	87.0	97.0	58.8	66.8	12.3	5494.7
109	223L1109	5.0	81.0	105.0	55.6	66.1	8.8	5461.1
296	223L1296	5.0	98.0	90.0	46.8	62.4	8.3	5459.3
282	223L1282	5.0	89.0	78.0	61.4	68.7	20.1	5457.5
40	223L1040	5.0	97.0	100.0	43.8	62.2	13.7	5451.9
151	223L1151	5.0	79.0	97.0	54.1	68.6	16.7	5422.5
298	223L1298	7.0	88.0	94.0	52.4	65.5	14.1	5411.1
124	223L1124	5.0	96.0	85.0	41.0	58.6	15.1	5218.8
90	223L1090	5.0	94.0	103.0	55.0	65.8	9.9	5065.3
85	223L1085	5.0	96.0	94.0	48.4	62.1	13.4	4996.2
97	223L1097	7.0	80.0	98.0	28.5	57.1	33.7	4956.0
75	223L1075	5.0	79.0	92.0	48.7	66.0	27.7	4934.1
156	223L1156	3.0	94.0	95.0	35.7	60.8	15.2	4891.9
86	223L1086	5.0	94.0	90.0	45.5	61.5	11.6	4865.6
87	223L1087	5.0	94.0	92.0	46.6	62.2	17.2	4784.6
256	223L1256	5.0	97.0	103.0	43.5	64.8	8.3	4665.8
92	223L1092	5.0	94.0	88.0	44.9	58.5	22.0	4474.5
99	223L1099	7.0	88.0	98.0	46.9	62.3	13.5	3898.6
57	223L1057	7.0	87.0	83.0	53.9	66.7	18.0	3398.5
291	223L1291	7.0	98.0	89.0	34.1	59.7	17.3	2701.3

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 4. Grain and milling yields and agronomic performance of entries in the 2022 Provisia Preliminary Yield trial – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
128	223L1128		75.0	101.0	60.6	69.1	15.5	10709.5
139	223L1139	5.0	76.0	104.0	56.5	64.7	17.1	10587.5
216	223L1216	5.0	73.0	105.0	57.9	66.1	20.4	10505.6
212	223L1212	5.0	72.0	110.0	60.3	68.7	21.5	10391.3
224	223L1224	5.0	72.0	113.0	58.8	66.5	14.2	10234.9
55	223L1055	5.0	73.0	96.0	62.4	69.5	15.0	10195.6
211	223L1211	5.0	68.0	108.0	61.2	69.8	15.5	10118.6
213	223L1213	5.0	72.0	109.0	59.2	68.1	22.6	10081.5
97	223L1097	5.0	73.0	126.0	38.9	62.8	22.0	10015.3
222	223L1222	5.0	75.0	110.0	61.9	69.4	15.6	9909.4
176	223L1176	5.0	75.0	106.0	58.6	67.3	29.4	9874.3
37	223L1037	5.0	77.0	98.0	55.1	67.2	19.1	9856.0
196	223L1196	5.0	76.0	109.0	58.3	67.6	16.7	9765.0
215	223L1215	5.0	75.0	105.0	60.8	69.3	20.8	9622.4
65	223L1065	5.0	72.0	104.0	56.8	68.5	16.0	9566.9
208	223L1208	5.0	73.0	103.0	58.5	67.6	15.9	9518.6
244	223L1244	5.0	73.0	120.0	58.6	66.8	12.2	9374.0
214	223L1214	5.0	74.0	109.0	62.0	68.8	15.5	9364.3
27	223L1027	5.0	66.0	108.0	62.3	69.8	11.1	9337.8
173	223L1173	5.0	77.0	112.0	57.9	65.6	12.8	9326.0
151	223L1151	5.0	72.0	110.0	60.7	68.4	13.8	9316.0
121	223L1121	3.0	78.0	105.0	60.0	67.3	14.4	9311.0
183	223L1183	5.0	75.0	113.0	59.2	67.7	13.5	9285.6
266	223L1266	5.0	75.0	125.0	54.8	66.2	9.8	9250.9
223	223L1223	5.0	73.0	104.0	58.3	67.0	19.3	9204.5
191	223L1191	5.0	76.0	101.0	58.5	66.8	17.4	9185.4
217	223L1217	5.0	73.0	108.0	60.3	67.8	11.6	9174.5
42	223L1042	5.0	78.0	104.0	55.4	67.4	14.7	9159.5
247	223L1247	5.0	75.0	109.0	55.9	64.7	19.0	9100.9
59	223L1059	-	73.0	97.0	57.2	67.1	11.1	9096.5
31	223L1031	5.0	74.0	109.0	62.2	68.1	5.7	9083.6
187	223L1187	5.0	73.0	117.0	60.7	68.5	21.3	9065.5
283	223L1283	5.0	74.0	114.0	56.6	65.8	11.1	9025.8
184	223L1184	-	76.0	110.0	60.1	68.0	20.5	9011.4
229	223L1229	5.0	77.0	116.0	60.2	67.8	13.5	8993.6
190	223L1190	5.0	75.0	113.0	53.8	65.3	29.8	8941.1
221	223L1221	5.0	74.0	110.0	61.2	67.6	16.6	8939.2
166	223L1166	7.0	74.0	108.0	60.7	69.5	13.6	8938.0
92	223L1092	5.0	76.0	109.0	54.4	64.5	19.3	8899.2
116	223L1116	5.0	73.0	102.0	55.2	65.5	11.8	8863.3
203	223L1203	5.0	71.0	114.0	58.4	66.7	17.5	8817.0
68	223L1068	5.0	75.0	104.0	61.4	69.3	13.1	8802.2
258	223L1258	5.0	74.0	97.0	58.1	67.6	22.8	8800.6

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
313	223L1313	5.0	76.0	108.0		64.9	9.6	8800.0
245	223L1245	5.0	73.0	124.0	54.9	66.6	25.5	8791.3
1	223L1001	5.0	77.0	111.0	59.0	69.5	9.0	8786.2
218	223L1218	3.0	73.0	114.0	62.1	69.7	11.8	8764.0
50	223L1050	5.0	77.0	106.0	56.2	66.7	13.2	8756.0
219	223L1219	5.0	77.0	112.0	60.6	67.9	13.3	8737.0
194	223L1194	5.0	77.0	108.0	60.9	69.6	12.4	8734.0
62	223L1062	5.0	75.0	110.0	61.9	68.8	10.6	8713.7
132	223L1132	-	75.0	112.0	58.6	68.2	10.8	8694.1
56	223L1056	5.0	75.0	101.0	57.8	67.6	13.0	8692.8
182	223L1182	5.0	77.0	109.0	54.7	66.7	18.2	8683.6
144	223L1144	7.0	68.0	118.0	60.4	68.4	19.0	8649.0
126	223L1126	5.0	79.0	99.0	57.5	64.8	9.3	8645.4
174	223L1174	5.0	75.0	112.0	56.0	67.4	14.7	8614.9
333	PVL03	5.0	76.0	111.0	56.0	66.7	16.6	8609.4
181	223L1181	5.0	77.0	108.0	54.3	64.2	17.0	8588.0
74	223L1074	5.0	73.0	114.0	59.7	67.4	9.3	8583.8
175	223L1175	5.0	76.0	113.0	55.3	65.7	12.1	8565.5
242	223L1242	5.0	75.0	115.0	59.1	68.5	8.3	8550.3
25	223L1025	5.0	76.0	107.0	62.9	68.9	9.9	8533.2
163	223L1163	7.0	75.0	103.0	50.4	66.5	26.4	8525.6
72	223L1072	5.0	66.0	109.0	-	-	-	8497.0
20	223L1020	5.0	78.0	108.0	49.0	68.4	7.1	8467.4
137	223L1137	5.0	79.0	107.0	58.0	66.9	12.7	8461.8
246	223L1246	5.0	74.0	118.0	59.0	66.6	21.6	8461.7
186	223L1186	5.0	73.0	113.0	61.0	68.9	25.9	8461.6
236	223L1236	5.0	72.0	110.0	56.5	68.3	14.2	8438.4
34	223L1034	5.0	75.0	101.0	58.5	67.5	11.4	8433.5
63	223L1063	7.0	73.0	99.0	62.7	69.3	15.5	8411.9
35	223L1035	5.0	78.0	108.0	55.4	65.9	12.8	8410.0
101	223L1101	5.0	77.0	100.0	60.9	67.5	7.6	8406.3
30	223L1030	5.0	75.0	102.0	62.9	69.6	9.6	8401.1
234	223L1234	5.0	73.0	119.0	52.8	66.3	16.1	8391.3
123	223L1123	5.0	84.0	100.0	57.5	67.3	13.6	8378.9
64	223L1064	5.0	75.0	103.0	60.7	68.4	9.1	8371.1
49	223L1049	5.0	78.0	100.0	56.3	66.1	12.7	8369.0
54	223L1054	5.0	78.0	101.0	59.7	67.2	12.9	8366.1
133	223L1133	5.0	75.0	100.0	57.6	67.0	15.1	8363.1
231	223L1231	5.0	76.0	118.0	62.9	68.9	8.4	8334.0
238	223L1238	5.0	77.0	115.0	50.6	62.8	20.7	8331.0
314	223L1314	5.0	75.0	103.0	62.5	69.4	11.1	8325.4
22	223L1022	5.0	76.0	97.0	53.5	66.2	15.3	8319.2
14	223L1014	5.0	75.0	107.0	63.9	69.2	11.1	8316.5
335	RU2002174	5.0	79.0	106.0	56.9	68.5	8.5	8300.3

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
235	223L1235	5.0	75.0	121.0	58.8	66.7	12.4	8291.2
51	223L1051	5.0	77.0	106.0	61.0	66.4	9.9	8273.3
12	223L1012	5.0	78.0	112.0	58.4	69.4	11.3	8251.1
302	223L1302	5.0	79.0	110.0	53.8	66.3	12.7	8239.9
125	223L1125	5.0	79.0	106.0	56.1	66.6	11.6	8217.0
48	223L1048	5.0	78.0	108.0	60.4	69.1	10.7	8195.9
66	223L1066	5.0	76.0	107.0	60.4	68.0	10.4	8194.7
114	223L1114	5.0	75.0	110.0	58.2	67.5	12.4	8183.2
82	223L1082	5.0	76.0	111.0	58.9	69.4	16.5	8152.3
160	223L1160	5.0	74.0	110.0	49.6	67.0	11.8	8128.8
60	223L1060	5.0	76.0	100.0	58.2	69.0	9.6	8126.1
207	223L1207	-	77.0	111.0	58.4	66.8	12.7	8120.0
6	223L1006	5.0	77.0	104.0	50.6	63.9	12.0	8118.7
98	223L1098	5.0	76.0	104.0	42.8	65.0	33.4	8114.7
200	223L1200	5.0	78.0	101.0	54.3	66.4	23.5	8110.2
193	223L1193	5.0	73.0	117.0	52.8	68.4	31.8	8088.0
310	223L1310	5.0	75.0	103.0	47.3	63.7	14.4	8069.3
331	223L1331	5.0	75.0	109.0	54.2	65.1	14.5	8066.8
21	223L1021	-	75.0	107.0	55.0	65.0	9.9	8066.3
209	223L1209	5.0	74.0	110.0	61.1	68.7	11.4	8058.6
143	223L1143	5.0	76.0	110.0	58.5	66.9	10.7	8053.4
149	223L1149	5.0	68.0	107.0	56.1	66.3	22.1	8047.6
256	223L1256	7.0	83.0	107.0	53.5	67.0	9.4	8047.5
192	223L1192	5.0	76.0	113.0	58.1	66.3	20.2	8034.8
57	223L1057	5.0	78.0	92.0	60.5	68.3	15.8	8010.4
274	223L1274	5.0	74.0	112.0	55.3	67.1	14.9	8009.6
3	223L1003	5.0	72.0	103.0	58.9	69.3	15.8	8006.3
145	223L1145	5.0	68.0	111.0	51.5	64.5	14.2	7999.2
4	223L1004	5.0	73.0	98.0	57.4	69.1	14.6	7989.3
29	223L1029	5.0	78.0	108.0	57.4	65.5	5.5	7981.2
260	223L1260	5.0	76.0	103.0	58.2	67.2	11.9	7964.3
253	223L1253	5.0	76.0	118.0	51.8	65.6	20.8	7958.7
265	223L1265	5.0	75.0	109.0	55.5	67.5	14.8	7954.6
317	223L1317	5.0	76.0	102.0	51.8	64.5	13.1	7952.2
168	223L1168	5.0	81.0	107.0	55.8	67.9	10.9	7951.5
189	223L1189	5.0	76.0	100.0	49.5	64.0	23.9	7935.8
18	223L1018	5.0	76.0	108.0	54.2	65.6	10.1	7933.5
271	223L1271	5.0	76.0	93.0	51.3	61.8	10.0	7926.6
70	223L1070	5.0	75.0	116.0	62.1	69.8	12.9	7923.7
36	223L1036	5.0	78.0	112.0	53.2	66.8	10.6	7921.3
233	223L1233	5.0	76.0	120.0	56.8	65.1	12.0	7918.8
201	223L1201	5.0	76.0	114.0	53.1	65.5	22.3	7906.7
279	223L1279	5.0	75.0	89.0	62.1	67.6	12.6	7903.2
309	223L1309	5.0	77.0	114.0	54.7	64.9	10.8	7893.2

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
67	223L1067	5.0	75.0	99.0	61.5	69.2	11.7	7886.8
76	223L1076	5.0	73.0	109.0	43.9	65.2	16.2	7886.2
202	223L1202	5.0	73.0	108.0	56.7	66.6	31.0	7857.1
75	223L1075	5.0	68.0	108.0	59.9	70.8	20.5	7845.1
81	223L1081	5.0	73.0	110.0	61.4	70.0	11.3	7838.5
52	223L1052	5.0	68.0	101.0	61.2	69.2	17.4	7838.2
259	223L1259	5.0	76.0	109.0	57.6	66.4	17.2	7835.7
262	223L1262	5.0	79.0	99.0	50.0	62.2	13.4	7834.9
61	223L1061	7.0	78.0	109.0	61.7	69.4	8.0	7829.2
117	223L1117	5.0	76.0	109.0	58.0	69.9	13.4	7800.6
5	223L1005	7.0	73.0	104.0	57.1	69.3	11.6	7796.8
205	223L1205	5.0	73.0	108.0	57.2	67.2	13.4	7792.8
329	223L1329	5.0	72.0	108.0	60.2	69.8	13.3	7790.4
273	223L1273	5.0	74.0	119.0	52.6	65.7	13.4	7788.6
136	223L1136	5.0	78.0	100.0	55.4	65.8	13.6	7788.3
78	223L1078	5.0	73.0	107.0	59.0	69.4	16.3	7768.8
87	223L1087	5.0	78.0	102.0	49.1	63.4	17.1	7764.6
130	223L1130	5.0	76.0	105.0	54.8	65.3	10.9	7756.7
251	223L1251	5.0	79.0	113.0	48.1	61.6	14.3	7741.5
278	223L1278	5.0	78.0	101.0	55.0	66.0	9.1	7690.5
79	223L1079	5.0	77.0	111.0	58.1	68.9	12.1	7690.0
157	223L1157	5.0	76.0	111.0	60.1	68.9	12.9	7680.8
327	223L1327	5.0	75.0	104.0	54.6	67.2	6.3	7675.9
104	223L1104	5.0	76.0	104.0	57.1	68.6	13.7	7671.7
199	223L1199	5.0	77.0	109.0	56.4	65.8	14.1	7671.6
210	223L1210	5.0	74.0	105.0	56.1	66.3	14.4	7656.2
228	223L1228	5.0	77.0	113.0	60.9	70.5	15.8	7652.4
312	223L1312	5.0	73.0	100.0	47.1	66.5	8.7	7649.5
102	223L1102	5.0	78.0	109.0	52.8	66.1	9.7	7644.2
319	223L1319	5.0	76.0	97.0	57.0	66.2	12.2	7639.5
185	223L1185	5.0	75.0	107.0	54.3	66.0	26.1	7634.4
77	223L1077	5.0	74.0	119.0	60.1	70.1	14.5	7629.2
267	223L1267	7.0	75.0	88.0	56.7	67.2	17.8	7628.4
197	223L1197	5.0	76.0	113.0	52.6	63.0	18.5	7613.8
169	223L1169	5.0	78.0	100.0	56.8	67.6	11.1	7613.5
83	223L1083	5.0	72.0	109.0	62.7	69.8	10.0	7604.2
23	223L1023	5.0	78.0	112.0	58.6	66.3	7.3	7603.2
93	223L1093	5.0	83.0	118.0	56.9	66.1	10.5	7594.0
122	223L1122	5.0	79.0	105.0	54.7	65.1	10.1	7591.9
316	223L1316	5.0	75.0	103.0	57.1	66.7	8.7	7583.4
334	RU2002070	5.0	76.0	108.0	56.7	67.9	16.1	7580.5
131	223L1131	5.0	79.0	115.0	54.4	65.6	13.8	7576.5
58	223L1058	5.0	76.0	104.0	56.4	66.4	12.5	7576.5
290	223L1290	7.0	84.0	103.0	53.1	66.7	10.0	7570.1

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
13	223L1013	5.0	78.0	100.0	55.6	67.5	11.7	7569.1
118	223L1118	5.0	73.0	109.0	52.6	66.1	11.6	7564.5
330	223L1330	5.0	77.0	119.0	49.7	64.4	10.5	7553.4
19	223L1019	5.0	77.0	104.0	53.6	67.1	8.5	7545.4
148	223L1148	5.0	73.0	120.0	54.6	64.2	16.9	7543.4
178	223L1178	5.0	79.0	106.0	54.4	66.6	12.2	7517.9
320	223L1320	5.0	76.0	105.0	58.6	68.1	15.3	7516.5
112	223L1112	7.0	76.0	111.0	59.3	66.6	9.6	7504.7
43	223L1043	5.0	76.0	101.0	52.4	67.0	11.8	7441.0
150	223L1150	3.0	72.0	114.0	59.8	68.0	7.3	7434.8
41	223L1041	5.0	77.0	105.0	49.7	64.4	13.2	7432.0
282	223L1282	7.0	83.0	87.0	56.3	65.2	19.9	7420.2
26	223L1026	5.0	74.0	112.0	52.1	65.0	15.9	7408.9
275	223L1275	5.0	79.0	99.0	50.3	62.5	16.7	7382.0
73	223L1073	5.0	74.0	104.0	61.1	69.6	12.9	7381.1
142	223L1142	5.0	84.0	86.0	51.6	64.6	12.6	7353.8
336	RU2102186	5.0	78.0	112.0	57.6	69.0	7.4	7334.0
188	223L1188	5.0	77.0	105.0	53.2	66.7	17.4	7310.8
308	223L1308	5.0	77.0	103.0	58.8	68.4	8.5	7287.9
288	223L1288	3.0	78.0	110.0	53.3	64.1	8.6	7260.3
17	223L1017	5.0	75.0	111.0	62.6	69.1	7.3	7248.9
270	223L1270	5.0	73.0	99.0	49.7	64.1	18.8	7246.1
165	223L1165	5.0	77.0	111.0	59.1	69.0	12.0	7245.7
230	223L1230	3.0	77.0	116.0	55.5	65.8	9.1	7241.4
269	223L1269	5.0	77.0	115.0	57.3	67.1	9.7	7228.1
300	223L1300	7.0	83.0	100.0	57.4	68.6	10.1	7216.8
281	223L1281	5.0	76.0	91.0	-	-	-	7191.1
206	223L1206	5.0	72.0	104.0	53.9	66.1	10.4	7161.9
124	223L1124	5.0	80.0	94.0	52.7	62.2	9.6	7158.6
24	223L1024	5.0	72.0	108.0	60.1	69.2	23.1	7157.1
11	223L1011	5.0	77.0	100.0	54.9	66.5	18.1	7152.4
328	223L1328	5.0	75.0	97.0	46.0	64.5	11.2	7148.9
241	223L1241	5.0	76.0	104.0	54.5	66.8	13.2	7096.9
154	223L1154	5.0	66.0	115.0	52.8	63.2	18.5	7080.9
127	223L1127	5.0	84.0	102.0	43.8	61.5	22.5	7065.5
135	223L1135	5.0	79.0	98.0	54.4	63.8	13.1	7062.8
284	223L1284	5.0	76.0	121.0	45.3	64.5	21.9	7056.9
95	223L1095	5.0	78.0	101.0	52.3	64.8	14.2	7054.7
226	223L1226	5.0	75.0	101.0	56.8	67.4	19.9	7051.3
161	223L1161	5.0	79.0	104.0	54.2	65.0	10.9	7050.0
170	223L1170	5.0	79.0	108.0	50.3	65.1	14.6	7046.9
243	223L1243	5.0	77.0	109.0	56.7	65.4	15.2	7045.9
109	223L1109	5.0	72.0	104.0	57.2	67.4	10.1	7045.4
324	223L1324	5.0	72.0	124.0	59.9	67.2	14.6	7040.5

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
311	223L1311	5.0	76.0	107.0	49.9	66.1	11.7	7040.4
239	223L1239	5.0	76.0	105.0	57.3	67.4	15.8	7033.2
120	223L1120	5.0	74.0	106.0	56.8	66.8	16.7	7032.0
138	223L1138	5.0	75.0	99.0	54.2	65.0	11.6	7030.6
53	223L1053	5.0	84.0	106.0	50.0	62.5	18.0	7025.9
47	223L1047	5.0	84.0	99.0	51.4	63.8	16.9	7015.0
80	223L1080	5.0	77.0	113.0	54.4	66.7	7.4	7009.6
85	223L1085	5.0	85.0	97.0	47.3	61.8	19.2	7009.2
119	223L1119	5.0	74.0	101.0	58.0	68.1	12.3	7008.0
252	223L1252	5.0	78.0	105.0	52.3	64.9	13.5	7004.6
325	223L1325	5.0	74.0	102.0	57.7	67.5	9.2	6993.1
179	223L1179	7.0	84.0	103.0	51.5	65.8	5.9	6991.3
44	223L1044	5.0	79.0	110.0	47.3	63.6	12.0	6967.3
315	223L1315	5.0	76.0	106.0	51.3	65.7	13.5	6963.4
225	223L1225	5.0	71.0	105.0	57.6	67.8	16.8	6960.6
255	223L1255	5.0	79.0	97.0	50.7	64.5	12.7	6941.5
39	223L1039	7.0	78.0	100.0	47.9	66.9	10.9	6941.1
263	223L1263	5.0	79.0	97.0	45.7	56.0	13.4	6896.4
322	223L1322	5.0	75.0	103.0	52.6	67.0	16.4	6880.3
204	223L1204	5.0	74.0	117.0	57.5	68.1	18.2	6877.1
129	223L1129	5.0	78.0	106.0	55.8	65.7	13.6	6877.0
146	223L1146	5.0	73.0	103.0	37.4	59.7	31.3	6876.3
46	223L1046	5.0	78.0	102.0	52.2	66.0	20.4	6857.1
301	223L1301	7.0	85.0	103.0	52.8	65.8	7.8	6845.2
277	223L1277	5.0	72.0	93.0	56.8	68.7	15.1	6803.3
16	223L1016	5.0	76.0	110.0	59.1	67.9	6.9	6802.5
15	223L1015	5.0	72.0	104.0	58.4	69.2	11.2	6788.2
115	223L1115	5.0	74.0	89.0	48.9	65.2	22.9	6785.5
318	223L1318	5.0	77.0	108.0	55.7	66.0	9.0	6735.2
96	223L1096	5.0	78.0	111.0	52.8	65.2	15.8	6730.4
257	223L1257	-	78.0	104.0	53.0	65.5	14.0	6703.0
264	223L1264	5.0	82.0	102.0	46.7	63.4	23.9	6701.8
268	223L1268	3.0	75.0	114.0	49.2	64.6	16.4	6700.0
89	223L1089	5.0	79.0	113.0	58.2	67.9	12.6	6694.3
103	223L1103	5.0	74.0	109.0	53.2	64.7	12.1	6689.2
71	223L1071	5.0	67.0	115.0	56.5	66.6	12.0	6650.2
141	223L1141	7.0	78.0	96.0	42.0	57.5	23.7	6649.1
289	223L1289	7.0	83.0	112.0	53.1	66.7	10.6	6630.6
237	223L1237	5.0	73.0	113.0	47.7	64.2	13.7	6610.1
295	223L1295	7.0	79.0	104.0	37.3	60.2	15.2	6571.3
88	223L1088	5.0	80.0	100.0	53.4	63.6	8.4	6564.2
249	223L1249	5.0	77.0	112.0	51.1	64.7	17.2	6545.3
99	223L1099	5.0	77.0	112.0	49.6	63.9	17.9	6534.2
195	223L1195	-	74.0	109.0	51.8	65.3	34.4	6531.7

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
84	223L1084	5.0	76.0	116.0	52.1	64.2	14.3	6507.5
306	223L1306	7.0	79.0	99.0	48.0	61.1	10.7	6500.7
261	223L1261	5.0	83.0	105.0	49.8	64.6	10.4	6450.0
110	223L1110	5.0	76.0	106.0	52.8	65.7	12.1	6441.8
180	223L1180	5.0	85.0	107.0	45.6	61.3	9.0	6394.8
171	223L1171	5.0	71.0	102.0	45.0	61.1	16.4	6389.2
272	223L1272	5.0	76.0	102.0	55.1	67.8	11.5	6373.3
286	223L1286	5.0	85.0	111.0	48.8	66.1	12.2	6350.4
304	223L1304	5.0	78.0	108.0	51.1	67.4	9.4	6346.4
172	223L1172	5.0	73.0	106.0	52.5	66.1	10.8	6342.8
159	223L1159	3.0	75.0	108.0	52.6	67.0	12.7	6335.2
107	223L1107	5.0	77.0	105.0	55.4	67.7	9.7	6316.8
254	223L1254	5.0	78.0	112.0	48.3	63.3	9.4	6313.6
147	223L1147	5.0	73.0	114.0	47.4	63.7	16.0	6309.3
321	223L1321	5.0	74.0	96.0	45.2	65.4	20.4	6305.6
38	223L1038	5.0	79.0	104.0	50.0	65.3	17.1	6268.4
299	223L1299	7.0	84.0	102.0	40.3	61.3	22.6	6252.1
162	223L1162	5.0	76.0	95.0	52.0	66.0	24.1	6200.4
177	223L1177	3.0	76.0	112.0	55.8	62.9	6.5	6197.2
292	223L1292	5.0	77.0	107.0	57.0	68.5	10.2	6196.2
69	223L1069	5.0	75.0	95.0	55.7	69.1	23.9	6170.3
287	223L1287	5.0	86.0	108.0	46.4	63.1	9.5	6122.3
7	223L1007	5.0	78.0	101.0	57.5	67.1	12.2	6104.4
28	223L1028	5.0	73.0	113.0	61.1	68.7	20.0	6103.8
106	223L1106	5.0	73.0	106.0	55.5	68.6	7.6	6102.5
134	223L1134	5.0	79.0	106.0	45.7	61.8	15.2	6090.9
198	223L1198	3.0	76.0	104.0	51.5	67.7	18.7	6075.7
250	223L1250	3.0	77.0	114.0	51.5	64.6	15.7	6010.9
240	223L1240	3.0	76.0	122.0	47.8	64.4	14.8	5990.2
100	223L1100	5.0	77.0	106.0	46.0	62.1	26.7	5986.1
326	223L1326	5.0	66.0	105.0	61.3	71.0	6.6	5981.1
323	223L1323	5.0	73.0	93.0	49.0	66.1	11.0	5975.8
91	223L1091	5.0	81.0	122.0	47.9	62.1	18.0	5966.1
248	223L1248	5.0	75.0	110.0	53.3	65.2	14.7	5962.1
10	223L1010	5.0	81.0	100.0	53.1	66.7	20.6	5951.5
220	223L1220	5.0	73.0	106.0	54.0	67.1	11.9	5944.2
2	223L1002	5.0	73.0	100.0	54.7	68.5	10.7	5927.4
232	223L1232	5.0	75.0	122.0	56.3	65.7	9.8	5906.2
86	223L1086	5.0	85.0	95.0	49.6	63.4	16.5	5882.5
140	223L1140	5.0	77.0	99.0	41.0	60.0	26.4	5797.1
33	223L1033	5.0	76.0	109.0	49.1	63.3	17.3	5791.6
90	223L1090	5.0	79.0	102.0	57.5	67.7	13.5	5776.9
280	223L1280	3.0	76.0	103.0	42.5	62.0	10.9	5744.5
155	223L1155	5.0	68.0	114.0	55.0	66.6	10.7	5726.7

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
158	223L1158	5.0	74.0	100.0	37.8	62.1	19.3	5700.2
9	223L1009	5.0	78.0	94.0	53.7	65.4	21.0	5672.2
152	223L1152	5.0	65.0	106.0	-	67.1	11.0	5661.0
40	223L1040	5.0	76.0	108.0	46.4	63.8	13.7	5620.0
297	223L1297	7.0	78.0	106.0	45.4	64.7	11.2	5590.4
108	223L1108	5.0	75.0	108.0	53.4	64.9	12.7	5484.7
105	223L1105	5.0	76.0	114.0	51.6	65.2	10.5	5466.2
94	223L1094	5.0	78.0	100.0	54.3	66.0	12.8	5377.8
285	223L1285	5.0	78.0	108.0	52.8	66.2	10.8	5310.5
298	223L1298	7.0	77.0	101.0	48.1	64.2	12.8	5238.0
153	223L1153	5.0	75.0	108.0	46.1	62.1	17.0	5215.1
227	223L1227	5.0	78.0	122.0	60.2	69.9	7.8	5186.7
276	223L1276	3.0	73.0	94.0	50.3	64.6	18.0	5163.6
45	223L1045	5.0	78.0	110.0	43.3	61.7	21.2	5113.8
293	223L1293	5.0	76.0	102.0	34.7	60.2	15.0	5018.5
111	223L1111	5.0	76.0	98.0	46.3	64.4	11.1	4935.5
32	223L1032	3.0	74.0	105.0	51.1	67.1	12.2	4906.0
167	223L1167	5.0	77.0	101.0	40.0	62.3	22.7	4761.2
113	223L1113	5.0	75.0	104.0	43.5	66.2	10.4	4623.3
296	223L1296	9.0	85.0	98.0	39.2	60.5	20.3	4565.9
303	223L1303	5.0	85.0	97.0	34.9	58.6	22.6	4419.9
164	223L1164	3.0	76.0	103.0	43.1	62.5	21.7	4209.0
8	223L1008	5.0	78.0	90.0	38.5	61.6	31.4	4136.1
305	223L1305	7.0	74.0	98.0	33.6	60.8	16.0	3924.7
332	PVL02	3.0	72.0	125.0	61.0	69.8	8.3	3710.6
307	223L1307	7.0	86.0	102.0	39.1	61.9	20.3	3665.4
294	223L1294	7.0	84.0	98.0	25.1	57.6	22.7	2922.5
291	223L1291	5.0	85.0	98.0	27.0	58.4	21.4	2200.2

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

WHOLE GENOME PREDICTION TRIAL

The Whole Genome Prediction (WGP) trial consisted of elite breeding lines from selected populations for the purpose of validating genomic predictions in the LSU breeding program. The material in this trial was screened for agronomic and grain characteristics in nurseries prior to this phase of testing and was genotyped and predicted for yield and other quantitative traits. The experimental lines were evaluated for seedling vigor, maturity, plant height, lodging resistance, grain yield of main crop, and disease resistance.

The trial was conducted using standard agronomic practices by the H. Rouse Caffey Rice Research Station (HRCRRS), Rayne, LA. A randomized complete block design was applied to arrange test entries. The plot size was 4.66 x 16 ft. Seeding rate was 90 lb/A. Planting and harvesting dates are found in Table 1, while entry number, herbicide type, pedigree, grain type, and source are in Table 2. Data is presented in Tables 3-7.

Table 1. Planting and harvesting dates for the 2022 Whole Genome Prediction trial.

Location	Trial	Planting	Harvesting
HRCRRS	WGP-CL	3/3	7/31
	WGP-CL – Late Planting	4/19	8/15
	WGP-CN	3/3	7/31
	WGP-CN – Late Planting	4/8	8/14
	WGP-PV	4/4	8/6

Table 2. Entry number, pedigree, grain type, and source information for entries in the 2022 Whole Genome Prediction trial.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CL	1	19T-028-2	RU1902122/RU1902142	LG	LAES
CL	2	19T-028-7	RU1902122/RU1902142	LG	LAES
CL	3	19T-028-14	RU1902122/RU1902142	LG	LAES
CL	4	19T-028-17	RU1902122/RU1902142	LG	LAES
CL	5	19T-028-19	RU1902122/RU1902142	LG	LAES
CL	6	19T-028-35	RU1902122/RU1902142	LG	LAES
CL	7	19T-028-42	RU1902122/RU1902142	LG	LAES
CL	8	19T-028-57	RU1902122/RU1902142	LG	LAES
CL	9	19T-028-59	RU1902122/RU1902142	LG	LAES
CL	10	19T-028-62	RU1902122/RU1902142	LG	LAES
CL	11	19T-028-64	RU1902122/RU1902142	LG	LAES
CL	12	19T-028-76	RU1902122/RU1902142	LG	LAES
CL	13	19T-028-82	RU1902122/RU1902142	LG	LAES
CL	14	19T-029-4	182L1278/RU1702183	LG	LAES
CL	15	19T-029-24	182L1278/RU1702183	LG	LAES
CL	16	19T-029-33	182L1278/RU1702183	LG	LAES
CL	17	19T-029-48	182L1278/RU1702183	LG	LAES
CL	18	19T-030-3	182L2195/RU1702183	LG	LAES
CL	19	19T-030-5	182L2195/RU1702183	LG	LAES
CL	20	19T-030-10	182L2195/RU1702183	LG	LAES
CL	21	19T-030-13	182L2195/RU1702183	LG	LAES
CL	22	19T-030-14	182L2195/RU1702183	LG	LAES
CL	23	19T-030-17	182L2195/RU1702183	LG	LAES
CL	24	19T-030-19	182L2195/RU1702183	LG	LAES
CL	25	19T-030-24	182L2195/RU1702183	LG	LAES
CL	26	19T-030-26	182L2195/RU1702183	LG	LAES
CL	27	19T-030-27	182L2195/RU1702183	LG	LAES
CL	28	19T-030-31	182L2195/RU1702183	LG	LAES
CL	29	19T-030-32	182L2195/RU1702183	LG	LAES
CL	30	19T-030-33	182L2195/RU1702183	LG	LAES
CL	31	19T-030-35	182L2195/RU1702183	LG	LAES
CL	32	19T-030-36	182L2195/RU1702183	LG	LAES
CL	33	19T-030-38	182L2195/RU1702183	LG	LAES
CL	34	19T-030-39	182L2195/RU1702183	LG	LAES
CL	35	19T-030-41	182L2195/RU1702183	LG	LAES
CL	36	19T-030-42	182L2195/RU1702183	LG	LAES
CL	37	19T-030-43	182L2195/RU1702183	LG	LAES
CL	38	19T-030-44	182L2195/RU1702183	LG	LAES
CL	39	19T-030-46	182L2195/RU1702183	LG	LAES
CL	40	19T-030-48	182L2195/RU1702183	LG	LAES
CL	41	19T-030-50	182L2195/RU1702183	LG	LAES
CL	42	19T-030-53	182L2195/RU1702183	LG	LAES
CL	43	19T-030-54	182L2195/RU1702183	LG	LAES
CL	44	19T-030-55	182L2195/RU1702183	LG	LAES
CL	45	19T-030-65	182L2195/RU1702183	LG	LAES
CL	46	19T-030-66	182L2195/RU1702183	LG	LAES
CL	47	19T-030-67	182L2195/RU1702183	LG	LAES
CL	48	19T-030-70	182L2195/RU1702183	LG	LAES
CL	49	19T-030-71	182L2195/RU1702183	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CL	50	19T-030-74	182L2195/RU1702183	LG	LAES
CL	51	19T-030-78	182L2195/RU1702183	LG	LAES
CL	52	19T-030-89	182L2195/RU1702183	LG	LAES
CL	53	19T-030-92	182L2195/RU1702183	LG	LAES
CL	54	19T-030-25	182L2195/RU1702183	LG	LAES
CL	55	19T-030-29	182L2195/RU1702183	LG	LAES
CL	56	19T-030-45	182L2195/RU1702183	LG	LAES
CL	57	19T-030-57	182L2195/RU1702183	LG	LAES
CL	58	19T-030-58	182L2195/RU1702183	LG	LAES
CL	59	19T-030-59	182L2195/RU1702183	LG	LAES
CL	60	19T-030-60	182L2195/RU1702183	LG	LAES
CL	61	19T-030-63	182L2195/RU1702183	LG	LAES
CL	62	19T-030-73	182L2195/RU1702183	LG	LAES
CL	63	19T-030-76	182L2195/RU1702183	LG	LAES
CL	64	19T-030-81	182L2195/RU1702183	LG	LAES
CL	65	19T-030-86	182L2195/RU1702183	LG	LAES
CL	66	19T-030-90	182L2195/RU1702183	LG	LAES
CL	67	19T-030-91	182L2195/RU1702183	LG	LAES
CL	68	19T-032-15	RU1902162/RU1602195	LG	LAES
CL	69	19T-033-9	CL153/RU1702183	LG	LAES
CL	70	19T-033-31	CL153/RU1702183	LG	LAES
CL	71	19T-033-32	CL153/RU1702183	LG	LAES
CL	72	19T-033-35	CL153/RU1702183	LG	LAES
CL	73	19T-033-38	CL153/RU1702183	LG	LAES
CL	74	19T-033-40	CL153/RU1702183	LG	LAES
CL	75	19T-033-49	CL153/RU1702183	LG	LAES
CL	76	19T-033-63	CL153/RU1702183	LG	LAES
CL	77	19T-033-66	CL153/RU1702183	LG	LAES
CL	78	19T-033-77	CL153/RU1702183	LG	LAES
CL	79	19T-033-81	CL153/RU1702183	LG	LAES
CL	80	19T-041-16	RU1902162/RU1902014	LG	LAES
CL	81	19T-041-59	RU1902162/RU1902014	LG	LAES
CL	82	19T-041-69	RU1902162/RU1902014	LG	LAES
CL	83	19T-041-79	RU1902162/RU1902014	LG	LAES
CL	84	19T-042-44	RU1602195/RU1801169	LG	LAES
CL	85	19T-042-2	RU1602195/RU1801169	LG	LAES
CL	86	19T-042-6	RU1602195/RU1801169	LG	LAES
CL	87	19T-042-12	RU1602195/RU1801169	LG	LAES
CL	88	19T-042-17	RU1602195/RU1801169	LG	LAES
CL	89	19T-042-26	RU1602195/RU1801169	LG	LAES
CL	90	19T-042-27	RU1602195/RU1801169	LG	LAES
CL	91	19T-042-35	RU1602195/RU1801169	LG	LAES
CL	92	19T-042-88	RU1602195/RU1801169	LG	LAES
CL	93	19T-046-2	182L1278/RU1902162	LG	LAES
CL	94	19T-046-10	182L1278/RU1902162	LG	LAES
CL	95	19T-046-15	182L1278/RU1902162	LG	LAES
CL	96	19T-046-17	182L1278/RU1902162	LG	LAES
CL	97	19T-046-18	182L1278/RU1902162	LG	LAES
CL	98	19T-046-30	182L1278/RU1902162	LG	LAES
CL	99	19T-046-35	182L1278/RU1902162	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CL	100	19T-046-54	182L1278/RU1902162	LG	LAES
CL	101	19T-046-65	182L1278/RU1902162	LG	LAES
CL	102	19T-046-66	182L1278/RU1902162	LG	LAES
CL	103	19T-046-69	182L1278/RU1902162	LG	LAES
CL	104	19T-046-75	182L1278/RU1902162	LG	LAES
CL	105	19T-046-79	182L1278/RU1902162	LG	LAES
CL	106	19T-046-86	182L1278/RU1902162	LG	LAES
CL	107	19T-046-3	182L1278/RU1902162	LG	LAES
CL	108	19T-046-5	182L1278/RU1902162	LG	LAES
CL	109	19T-046-7	182L1278/RU1902162	LG	LAES
CL	110	19T-046-11	182L1278/RU1902162	LG	LAES
CL	111	19T-046-12	182L1278/RU1902162	LG	LAES
CL	112	19T-046-21	182L1278/RU1902162	LG	LAES
CL	113	19T-046-26	182L1278/RU1902162	LG	LAES
CL	114	19T-046-33	182L1278/RU1902162	LG	LAES
CL	115	19T-046-38	182L1278/RU1902162	LG	LAES
CL	116	19T-046-41	182L1278/RU1902162	LG	LAES
CL	117	19T-046-48	182L1278/RU1902162	LG	LAES
CL	118	19T-046-56	182L1278/RU1902162	LG	LAES
CL	119	19T-046-58	182L1278/RU1902162	LG	LAES
CL	120	19T-046-59	182L1278/RU1902162	LG	LAES
CL	121	19T-046-61	182L1278/RU1902162	LG	LAES
CL	122	19T-046-64	182L1278/RU1902162	LG	LAES
CL	123	19T-046-70	182L1278/RU1902162	LG	LAES
CL	124	19T-046-72	182L1278/RU1902162	LG	LAES
CL	125	19T-046-73	182L1278/RU1902162	LG	LAES
CL	126	19T-046-74	182L1278/RU1902162	LG	LAES
CL	127	19T-046-76	182L1278/RU1902162	LG	LAES
CL	128	19T-046-78	182L1278/RU1902162	LG	LAES
CL	129	19T-046-80	182L1278/RU1902162	LG	LAES
CL	130	19T-046-87	182L1278/RU1902162	LG	LAES
CL	131	19T-046-89	182L1278/RU1902162	LG	LAES
CL	132	19T-046-94	182L1278/RU1902162	LG	LAES
CL	133	19T-048-7	RU1902162/CL151	LG	LAES
CL	134	19T-048-10	RU1902162/CL151	LG	LAES
CL	135	19T-048-27	RU1902162/CL151	LG	LAES
CL	136	19T-048-35	RU1902162/CL151	LG	LAES
CL	137	19T-048-88	RU1902162/CL151	LG	LAES
CL	138	19T-053-3	CL111/182L2166	LG	LAES
CL	139	19T-053-13	CL111/182L2166	LG	LAES
CL	140	19T-053-26	CL111/182L2166	LG	LAES
CL	141	19T-053-33	CL111/182L2166	LG	LAES
CL	142	19T-053-61	CL111/182L2166	LG	LAES
CL	143	19T-053-70	CL111/182L2166	LG	LAES
CL	144	19T-053-83	CL111/182L2166	LG	LAES
CL	145	19T-055-5	RU1902122/RU1902014	LG	LAES
CL	146	19T-055-16	RU1902122/RU1902014	LG	LAES
CL	147	19T-055-2	RU1902122/RU1902014	LG	LAES
CL	148	19T-055-12	RU1902122/RU1902014	LG	LAES
CL	149	19T-055-22	RU1902122/RU1902014	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CL	150	19T-055-29	RU1902122/RU1902014	LG	LAES
CL	151	19T-055-30	RU1902122/RU1902014	LG	LAES
CL	152	19T-055-33	RU1902122/RU1902014	LG	LAES
CL	153	19T-055-38	RU1902122/RU1902014	LG	LAES
CL	154	19T-055-39	RU1902122/RU1902014	LG	LAES
CL	155	19T-055-73	RU1902122/RU1902014	LG	LAES
CL	156	19T-055-76	RU1902122/RU1902014	LG	LAES
CL	157	19T-055-86	RU1902122/RU1902014	LG	LAES
CL	158	19T-055-89	RU1902122/RU1902014	LG	LAES
CL	159	19T-055-90	RU1902122/RU1902014	LG	LAES
CL	160	19T-055-92	RU1902122/RU1902014	LG	LAES
CL	161	19T-055-93	RU1902122/RU1902014	LG	LAES
CL	162	19T-055-19	RU1902122/RU1902014	LG	LAES
CL	163	19T-092-35	RU1902212/RU2002114	LG	LAES
CL	164	19T-092-5	RU1902212/RU2002114	LG	LAES
CL	165	19T-092-36	RU1902212/RU2002114	LG	LAES
CL	166	19T-092-84	RU1902212/RU2002114	LG	LAES
CL	167	19T-106-CL-7	CL153/RU1902207	LG	LAES
CL	168	19T-106-CL-55	CL153/RU1902207	LG	LAES
CL	169	19T-106-CL-57	CL153/RU1902207	LG	LAES
CL	170	19T-106-CL-71	CL153/RU1902207	LG	LAES
CL	171	19T-106-CL-76	CL153/RU1902207	LG	LAES
CL	172	19T-106-CL-81	CL153/RU1902207	LG	LAES
CL	173	19T-112-54	RU1902122/RU1902207	LG	LAES
CL	174	19T-129-84	RU1902207/182L2166	LG	LAES
CL	175	19T-134-CL-61	RU1902207/182L1278	LG	LAES
CL	176	19T-140-1	181L2002/CL153	LG	LAES
CL	177	19T-140-3	181L2002/CL153	LG	LAES
CL	178	19T-140-5	181L2002/CL153	LG	LAES
CL	179	19T-140-6	181L2002/CL153	LG	LAES
CL	180	19T-140-7	181L2002/CL153	LG	LAES
CL	181	19T-140-11	181L2002/CL153	LG	LAES
CL	182	19T-140-15	181L2002/CL153	LG	LAES
CL	183	19T-140-18	181L2002/CL153	LG	LAES
CL	184	19T-140-22	181L2002/CL153	LG	LAES
CL	185	19T-140-28	181L2002/CL153	LG	LAES
CL	186	19T-140-36	181L2002/CL153	LG	LAES
CL	187	19T-140-38	181L2002/CL153	LG	LAES
CL	188	19T-140-40	181L2002/CL153	LG	LAES
CL	189	19T-140-41	181L2002/CL153	LG	LAES
CL	190	19T-140-47	181L2002/CL153	LG	LAES
CL	191	19T-140-48	181L2002/CL153	LG	LAES
CL	192	19T-140-52	181L2002/CL153	LG	LAES
CL	193	19T-140-55	181L2002/CL153	LG	LAES
CL	194	19T-140-59	181L2002/CL153	LG	LAES
CL	195	19T-140-60	181L2002/CL153	LG	LAES
CL	196	19T-140-62	181L2002/CL153	LG	LAES
CL	197	19T-140-65	181L2002/CL153	LG	LAES
CL	198	19T-140-66	181L2002/CL153	LG	LAES
CL	199	19T-140-69	181L2002/CL153	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CL	200	19T-140-70	181L2002/CL153	LG	LAES
CL	201	19T-140-74	181L2002/CL153	LG	LAES
CL	202	19T-140-77	181L2002/CL153	LG	LAES
CL	203	19T-140-79	181L2002/CL153	LG	LAES
CL	204	19T-140-83	181L2002/CL153	LG	LAES
CL	205	19T-140-85	181L2002/CL153	LG	LAES
CL	206	19T-140-86	181L2002/CL153	LG	LAES
CL	207	19T-140-90	181L2002/CL153	LG	LAES
CL	208	19T-140-92	181L2002/CL153	LG	LAES
CL	209	19T-140-93	181L2002/CL153	LG	LAES
CL	210	19T-140-94	181L2002/CL153	LG	LAES
CL	211	19T-140-10	181L2002/CL153	LG	LAES
CL	212	19T-140-12	181L2002/CL153	LG	LAES
CL	213	19T-140-14	181L2002/CL153	LG	LAES
CL	214	19T-140-20	181L2002/CL153	LG	LAES
CL	215	19T-140-21	181L2002/CL153	LG	LAES
CL	216	19T-140-29	181L2002/CL153	LG	LAES
CL	217	19T-140-30	181L2002/CL153	LG	LAES
CL	218	19T-140-44	181L2002/CL153	LG	LAES
CL	219	19T-140-50	181L2002/CL153	LG	LAES
CL	220	19T-140-51	181L2002/CL153	LG	LAES
CL	221	19T-140-57	181L2002/CL153	LG	LAES
CL	222	19T-140-61	181L2002/CL153	LG	LAES
CL	223	19T-140-68	181L2002/CL153	LG	LAES
CL	224	19T-140-75	181L2002/CL153	LG	LAES
CL	225	19T-140-82	181L2002/CL153	LG	LAES
CL	226	19T-141-CL-9	RU1902186/182L2166	LG	LAES
CL	227	19T-141-CL-40	RU1902186/182L2166	LG	LAES
CL	228	19T-141-CL-50	RU1902186/182L2166	LG	LAES
CL	229	19T-141-CL-52	RU1902186/182L2166	LG	LAES
CL	230	19T-141-CL-53	RU1902186/182L2166	LG	LAES
CL	231	19T-141-CL-91	RU1902186/182L2166	LG	LAES
CL	232	19T-141-CL-93	RU1902186/182L2166	LG	LAES
CL	233	19T-176-CL-2	RU1702165/RU1801211	MG	LAES
CL	234	19T-176-CL-7	RU1702165/RU1801211	MG	LAES
CL	235	19T-176-CL-8	RU1702165/RU1801211	MG	LAES
CL	236	19T-176-CL-11	RU1702165/RU1801211	MG	LAES
CL	237	19T-176-CL-13	RU1702165/RU1801211	MG	LAES
CL	238	19T-176-CL-21	RU1702165/RU1801211	MG	LAES
CL	239	19T-176-CL-23	RU1702165/RU1801211	MG	LAES
CL	240	19T-176-CL-29	RU1702165/RU1801211	MG	LAES
CL	241	19T-176-CL-32	RU1702165/RU1801211	MG	LAES
CL	242	19T-176-CL-36	RU1702165/RU1801211	MG	LAES
CL	243	19T-176-CL-55	RU1702165/RU1801211	MG	LAES
CL	244	19T-176-CL-65	RU1702165/RU1801211	MG	LAES
CL	245	19T-176-CL-69	RU1702165/RU1801211	MG	LAES
CL	246	19T-176-CL-86	RU1702165/RU1801211	MG	LAES
CL	247	19T-176-CL-89	RU1702165/RU1801211	MG	LAES
CL	248	19T-176-CL-10	RU1702165/RU1801211	MG	LAES
CL	249	19T-176-CL-14	RU1702165/RU1801211	MG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CL	250	19T-176-CL-26	RU1702165/RU1801211	MG	LAES
CL	251	19T-176-CL-39	RU1702165/RU1801211	MG	LAES
CL	252	19T-176-CL-43	RU1702165/RU1801211	MG	LAES
CL	253	19T-176-CL-46	RU1702165/RU1801211	MG	LAES
CL	254	19T-176-CL-52	RU1702165/RU1801211	MG	LAES
CL	255	19T-176-CL-53	RU1702165/RU1801211	MG	LAES
CL	256	19T-176-CL-58	RU1702165/RU1801211	MG	LAES
CL	257	19T-176-CL-62	RU1702165/RU1801211	MG	LAES
CL	258	19T-176-CL-63	RU1702165/RU1801211	MG	LAES
CL	259	19T-176-CL-64	RU1702165/RU1801211	MG	LAES
CL	260	19T-176-CL-66	RU1702165/RU1801211	MG	LAES
CL	261	19T-176-CL-71	RU1702165/RU1801211	MG	LAES
CL	262	19T-176-CL-74	RU1702165/RU1801211	MG	LAES
CL	263	19T-176-CL-76	RU1702165/RU1801211	MG	LAES
CL	264	19T-176-CL-79	RU1702165/RU1801211	MG	LAES
CL	265	19T-176-CL-82	RU1702165/RU1801211	MG	LAES
CL	266	19T-176-CL-84	RU1702165/RU1801211	MG	LAES
CL	267	19T-176-CL-88	RU1702165/RU1801211	MG	LAES
CL	268	19T-176-CL-90	RU1702165/RU1801211	MG	LAES
CL	269	19T-176-CL-93	RU1702165/RU1801211	MG	LAES
CL	270	19T-177-CL-1	RU1902178/Lynx	MG	LAES
CL	271	19T-177-CL-5	RU1902178/Lynx	MG	LAES
CL	272	19T-177-CL-25	RU1902178/Lynx	MG	LAES
CL	273	19T-177-CL-35	RU1902178/Lynx	MG	LAES
CL	274	19T-177-CL-59	RU1902178/Lynx	MG	LAES
CL	275	19T-177-CL-66	RU1902178/Lynx	MG	LAES
CL	276	19T-177-CL-72	RU1902178/Lynx	MG	LAES
CL	277	19T-177-CL-75	RU1902178/Lynx	MG	LAES
CL	278	19T-177-CL-8	RU1902178/Lynx	MG	LAES
CL	279	19T-177-CL-30	RU1902178/Lynx	MG	LAES
CL	280	19T-177-CL-37	RU1902178/Lynx	MG	LAES
CL	281	19T-177-CL-38	RU1902178/Lynx	MG	LAES
CL	282	19T-177-CL-41	RU1902178/Lynx	MG	LAES
CL	283	19T-177-CL-54	RU1902178/Lynx	MG	LAES
CL	284	19T-177-CL-82	RU1902178/Lynx	MG	LAES
CL	285	19T-184-CL-1	RU1902178/Titan	MG	LAES
CL	286	19T-184-CL-3	RU1902178/Titan	MG	LAES
CL	287	19T-184-CL-10	RU1902178/Titan	MG	LAES
CL	288	19T-184-CL-15	RU1902178/Titan	MG	LAES
CL	289	19T-184-CL-21	RU1902178/Titan	MG	LAES
CL	290	19T-184-CL-31	RU1902178/Titan	MG	LAES
CL	291	19T-184-CL-44	RU1902178/Titan	MG	LAES
CL	292	19T-184-CL-52	RU1902178/Titan	MG	LAES
CL	293	19T-184-CL-59	RU1902178/Titan	MG	LAES
CL	294	19T-184-CL-62	RU1902178/Titan	MG	LAES
CL	295	19T-184-CL-64	RU1902178/Titan	MG	LAES
CL	296	19T-184-CL-71	RU1902178/Titan	MG	LAES
CL	297	19T-184-CL-72	RU1902178/Titan	MG	LAES
CL	298	19T-184-CL-84	RU1902178/Titan	MG	LAES
CL	299	19T-184-CL-89	RU1902178/Titan	MG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CL	300	19T-184-CL-93	RU1902178/Titan	MG	LAES
CL	301	19T-184-CL-11	RU1902178/Titan	MG	LAES
CL	302	19T-184-CL-13	RU1902178/Titan	MG	LAES
CL	303	19T-184-CL-14	RU1902178/Titan	MG	LAES
CL	304	19T-184-CL-19	RU1902178/Titan	MG	LAES
CL	305	19T-184-CL-29	RU1902178/Titan	MG	LAES
CL	306	19T-184-CL-37	RU1902178/Titan	MG	LAES
CL	307	19T-184-CL-38	RU1902178/Titan	MG	LAES
CL	308	19T-184-CL-60	RU1902178/Titan	MG	LAES
CL	309	19T-184-CL-81	RU1902178/Titan	MG	LAES
CL	310	19T-179-3	RU1902182/Lynx	MG	LAES
CL	311	19T-179-4	RU1902182/Lynx	MG	LAES
CL	312	19T-179-8	RU1902182/Lynx	MG	LAES
CL	313	19T-179-19	RU1902182/Lynx	MG	LAES
CL	314	19T-179-25	RU1902182/Lynx	MG	LAES
CL	315	19T-179-36	RU1902182/Lynx	MG	LAES
CL	316	19T-179-41	RU1902182/Lynx	MG	LAES
CL	317	19T-179-42	RU1902182/Lynx	MG	LAES
CL	318	19T-179-44	RU1902182/Lynx	MG	LAES
CL	319	19T-179-46	RU1902182/Lynx	MG	LAES
CL	320	19T-179-2	RU1902182/Lynx	MG	LAES
CL	321	19T-179-6	RU1902182/Lynx	MG	LAES
CL	322	19T-179-10	RU1902182/Lynx	MG	LAES
CL	323	19T-179-11	RU1902182/Lynx	MG	LAES
CL	324	19T-179-15	RU1902182/Lynx	MG	LAES
CL	325	19T-179-20	RU1902182/Lynx	MG	LAES
CL	326	19T-179-23	RU1902182/Lynx	MG	LAES
CL	327	19T-179-24	RU1902182/Lynx	MG	LAES
CL	328	19T-179-33	RU1902182/Lynx	MG	LAES
CL	329	19T-179-37	RU1902182/Lynx	MG	LAES
CL	330	19T-179-38	RU1902182/Lynx	MG	LAES
CL	331	19T-179-40	RU1902182/Lynx	MG	LAES
CL	332	19T-179-1	RU1902182/Lynx	MG	LAES
CL	333	19T-179-5	RU1902182/Lynx	MG	LAES
CL	334	19T-179-7	RU1902182/Lynx	MG	LAES
CL	335	19T-179-9	RU1902182/Lynx	MG	LAES
CL	336	19T-179-14	RU1902182/Lynx	MG	LAES
CL	337	19T-179-17	RU1902182/Lynx	MG	LAES
CL	338	19T-179-18	RU1902182/Lynx	MG	LAES
CL	339	19T-179-26	RU1902182/Lynx	MG	LAES
CL	340	19T-179-27	RU1902182/Lynx	MG	LAES
CL	341	19T-179-30	RU1902182/Lynx	MG	LAES
CL	342	19T-179-32	RU1902182/Lynx	MG	LAES
CL	343	19T-179-34	RU1902182/Lynx	MG	LAES
CL	344	19T-179-39	RU1902182/Lynx	MG	LAES
CL	345	19T-183-CL-1	RU1902174/RU1801211	MG	LAES
CL	346	19T-183-CL-4	RU1902174/RU1801211	MG	LAES
CL	347	19T-183-CL-7	RU1902174/RU1801211	MG	LAES
CL	348	19T-183-CL-8	RU1902174/RU1801211	MG	LAES
CL	349	19T-183-CL-14	RU1902174/RU1801211	MG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CL	350	19T-183-CL-18	RU1902174/RU1801211	MG	LAES
CL	351	19T-183-CL-25	RU1902174/RU1801211	MG	LAES
CL	352	19T-183-CL-27	RU1902174/RU1801211	MG	LAES
CL	353	19T-183-CL-33	RU1902174/RU1801211	MG	LAES
CL	354	19T-183-CL-36	RU1902174/RU1801211	MG	LAES
CL	355	19T-183-CL-38	RU1902174/RU1801211	MG	LAES
CL	356	19T-183-CL-41	RU1902174/RU1801211	MG	LAES
CL	357	19T-183-CL-44	RU1902174/RU1801211	MG	LAES
CL	358	19T-183-CL-47	RU1902174/RU1801211	MG	LAES
CL	359	19T-183-CL-48	RU1902174/RU1801211	MG	LAES
CL	360	19T-183-CL-5	RU1902174/RU1801211	MG	LAES
CL	361	19T-183-CL-6	RU1902174/RU1801211	MG	LAES
CL	362	19T-183-CL-10	RU1902174/RU1801211	MG	LAES
CL	363	19T-183-CL-13	RU1902174/RU1801211	MG	LAES
CL	364	19T-183-CL-15	RU1902174/RU1801211	MG	LAES
CL	365	19T-183-CL-21	RU1902174/RU1801211	MG	LAES
CL	366	19T-183-CL-29	RU1902174/RU1801211	MG	LAES
CL	367	19T-183-CL-30	RU1902174/RU1801211	MG	LAES
CL	368	19T-183-CL-37	RU1902174/RU1801211	MG	LAES
CL	369	19T-183-CL-39	RU1902174/RU1801211	MG	LAES
CL	370	19T-183-CL-45	RU1902174/RU1801211	MG	LAES
CL	371	19T-183-CL-2	RU1902174/RU1801211	MG	LAES
CL	372	19T-183-CL-3	RU1902174/RU1801211	MG	LAES
CL	373	19T-183-CL-11	RU1902174/RU1801211	MG	LAES
CL	374	19T-183-CL-12	RU1902174/RU1801211	MG	LAES
CL	375	19T-183-CL-16	RU1902174/RU1801211	MG	LAES
CL	376	19T-183-CL-17	RU1902174/RU1801211	MG	LAES
CL	377	19T-183-CL-22	RU1902174/RU1801211	MG	LAES
CL	378	19T-183-CL-23	RU1902174/RU1801211	MG	LAES
CL	379	19T-183-CL-24	RU1902174/RU1801211	MG	LAES
CL	380	19T-183-CL-31	RU1902174/RU1801211	MG	LAES
CL	381	19T-183-CL-34	RU1902174/RU1801211	MG	LAES
CL	382	19T-183-CL-35	RU1902174/RU1801211	MG	LAES
CL	383	19T-183-CL-46	RU1902174/RU1801211	MG	LAES
CL	384	19T-074-21	RU1702165/RU1902182	MG	LAES
CL	385	19T-074-6	RU1702165/RU1902182	MG	LAES
CL	386	19T-074-13	RU1702165/RU1902182	MG	LAES
CL	387	19T-074-24	RU1702165/RU1902182	MG	LAES
CL	388	19T-074-25	RU1702165/RU1902182	MG	LAES
CL	389	19T-074-29	RU1702165/RU1902182	MG	LAES
CL	390	19T-074-36	RU1702165/RU1902182	MG	LAES
CL	391	19T-175-CL-7	RU1702165/Titan	MG	LAES
CL	392	19T-175-CL-9	RU1702165/Titan	MG	LAES
CL	393	19T-175-CL-10	RU1702165/Titan	MG	LAES
CL	394	19T-175-CL-13	RU1702165/Titan	MG	LAES
CL	395	19T-175-CL-14	RU1702165/Titan	MG	LAES
CL	396	19T-175-CL-15	RU1702165/Titan	MG	LAES
CL	397	19T-175-CL-34	RU1702165/Titan	MG	LAES
CL	398	19T-175-CL-36	RU1702165/Titan	MG	LAES
CL	399	19T-175-CL-41	RU1702165/Titan	MG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CL	400	19T-175-CL-45	RU1702165/Titan	MG	LAES
CL	401	CL151		LG	LAES
CL	402	CL153		LG	LAES
CL	403	CLL16		LG	AAES
CL	404	CLL17		LG	LAES
CL	405	CLM04		MG	AAES
CL	406	RU1902026		LG	LAES
CN	1	19T-198-4	RU1902194/RoyJ	LG	LAES
CN	2	19T-198-14	RU1902194/RoyJ	LG	LAES
CN	3	19T-198-15	RU1902194/RoyJ	LG	LAES
CN	4	19T-198-57	RU1902194/RoyJ	LG	LAES
CN	5	19T-198-61	RU1902194/RoyJ	LG	LAES
CN	6	19T-198-80	RU1902194/RoyJ	LG	LAES
CN	7	19T-198-81	RU1902194/RoyJ	LG	LAES
CN	8	19T-198-83	RU1902194/RoyJ	LG	LAES
CN	9	19T-198-23	RU1902194/RoyJ	LG	LAES
CN	10	19T-198-31	RU1902194/RoyJ	LG	LAES
CN	11	19T-198-35	RU1902194/RoyJ	LG	LAES
CN	12	19T-198-63	RU1902194/RoyJ	LG	LAES
CN	13	19T-198-67	RU1902194/RoyJ	LG	LAES
CN	14	19T-198-69	RU1902194/RoyJ	LG	LAES
CN	15	19T-207-3	RU1702140/RU1902186	LG	LAES
CN	16	19T-207-12	RU1702140/RU1902186	LG	LAES
CN	17	19T-207-20	RU1702140/RU1902186	LG	LAES
CN	18	19T-207-23	RU1702140/RU1902186	LG	LAES
CN	19	19T-207-34	RU1702140/RU1902186	LG	LAES
CN	20	19T-207-44	RU1702140/RU1902186	LG	LAES
CN	21	19T-207-48	RU1702140/RU1902186	LG	LAES
CN	22	19T-207-85	RU1702140/RU1902186	LG	LAES
CN	23	19T-207-93	RU1702140/RU1902186	LG	LAES
CN	24	19T-208-11	RU1902186/RU1902207	LG	LAES
CN	25	19T-208-12	RU1902186/RU1902207	LG	LAES
CN	26	19T-208-15	RU1902186/RU1902207	LG	LAES
CN	27	19T-208-25	RU1902186/RU1902207	LG	LAES
CN	28	19T-208-31	RU1902186/RU1902207	LG	LAES
CN	29	19T-208-38	RU1902186/RU1902207	LG	LAES
CN	30	19T-208-48	RU1902186/RU1902207	LG	LAES
CN	31	19T-208-69	RU1902186/RU1902207	LG	LAES
CN	32	19T-208-71	RU1902186/RU1902207	LG	LAES
CN	33	19T-208-75	RU1902186/RU1902207	LG	LAES
CN	34	19T-208-84	RU1902186/RU1902207	LG	LAES
CN	35	19T-208-91	RU1902186/RU1902207	LG	LAES
CN	36	19T-213-3	Catahoula/RoyJ	LG	LAES
CN	37	19T-213-4	Catahoula/RoyJ	LG	LAES
CN	38	19T-213-20	Catahoula/RoyJ	LG	LAES
CN	39	19T-213-44	Catahoula/RoyJ	LG	LAES
CN	40	19T-213-67	Catahoula/RoyJ	LG	LAES
CN	41	19T-217-39	Catahoula/RU1902212	LG	LAES
CN	42	LSU_Basmati		LG	LAES
CN	43	19T-217-65	Catahoula/RU1902212	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CN	44	19T-217-69	Catahoula/RU1902212	LG	LAES
CN	45	19T-217-71	Catahoula/RU1902212	LG	LAES
CN	46	19T-217-74	Catahoula/RU1902212	LG	LAES
CN	47	19T-217-88	Catahoula/RU1902212	LG	LAES
CN	48	19T-217-94	Catahoula/RU1902212	LG	LAES
CN	49	19T-217-13	Catahoula/RU1902212	LG	LAES
CN	50	19T-217-56	Catahoula/RU1902212	LG	LAES
CN	51	19T-217-76	Catahoula/RU1902212	LG	LAES
CN	52	19T-217-84	Catahoula/RU1902212	LG	LAES
CN	53	19T-218-1	RU1702140/RU1902207	LG	LAES
CN	54	19T-218-4	RU1702140/RU1902207	LG	LAES
CN	55	19T-218-10	RU1702140/RU1902207	LG	LAES
CN	56	19T-218-14	RU1702140/RU1902207	LG	LAES
CN	57	19T-218-18	RU1702140/RU1902207	LG	LAES
CN	58	19T-218-19	RU1702140/RU1902207	LG	LAES
CN	59	19T-218-24	RU1702140/RU1902207	LG	LAES
CN	60	19T-218-25	RU1702140/RU1902207	LG	LAES
CN	61	19T-218-26	RU1702140/RU1902207	LG	LAES
CN	62	19T-218-27	RU1702140/RU1902207	LG	LAES
CN	63	19T-218-28	RU1702140/RU1902207	LG	LAES
CN	64	19T-218-30	RU1702140/RU1902207	LG	LAES
CN	65	19T-218-34	RU1702140/RU1902207	LG	LAES
CN	66	19T-218-43	RU1702140/RU1902207	LG	LAES
CN	67	19T-218-44	RU1702140/RU1902207	LG	LAES
CN	68	19T-218-46	RU1702140/RU1902207	LG	LAES
CN	69	19T-218-47	RU1702140/RU1902207	LG	LAES
CN	70	19T-218-48	RU1702140/RU1902207	LG	LAES
CN	71	19T-218-49	RU1702140/RU1902207	LG	LAES
CN	72	19T-218-54	RU1702140/RU1902207	LG	LAES
CN	73	19T-218-57	RU1702140/RU1902207	LG	LAES
CN	74	19T-218-62	RU1702140/RU1902207	LG	LAES
CN	75	19T-218-64	RU1702140/RU1902207	LG	LAES
CN	76	19T-218-65	RU1702140/RU1902207	LG	LAES
CN	77	19T-218-67	RU1702140/RU1902207	LG	LAES
CN	78	19T-218-70	RU1702140/RU1902207	LG	LAES
CN	79	19T-218-75	RU1702140/RU1902207	LG	LAES
CN	80	19T-218-76	RU1702140/RU1902207	LG	LAES
CN	81	19T-218-86	RU1702140/RU1902207	LG	LAES
CN	82	19T-218-87	RU1702140/RU1902207	LG	LAES
CN	83	19T-218-89	RU1702140/RU1902207	LG	LAES
CN	84	19T-218-90	RU1702140/RU1902207	LG	LAES
CN	85	19T-218-91	RU1702140/RU1902207	LG	LAES
CN	86	19T-218-93	RU1702140/RU1902207	LG	LAES
CN	87	19T-218-94	RU1702140/RU1902207	LG	LAES
CN	88	19T-218-12	RU1702140/RU1902207	LG	LAES
CN	89	19T-218-17	RU1702140/RU1902207	LG	LAES
CN	90	19T-218-21	RU1702140/RU1902207	LG	LAES
CN	91	19T-218-22	RU1702140/RU1902207	LG	LAES
CN	92	19T-218-29	RU1702140/RU1902207	LG	LAES
CN	93	19T-218-38	RU1702140/RU1902207	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CN	94	19T-218-39	RU1702140/RU1902207	LG	LAES
CN	95	19T-218-40	RU1702140/RU1902207	LG	LAES
CN	96	19T-218-45	RU1702140/RU1902207	LG	LAES
CN	97	19T-218-55	RU1702140/RU1902207	LG	LAES
CN	98	19T-218-59	RU1702140/RU1902207	LG	LAES
CN	99	19T-218-66	RU1702140/RU1902207	LG	LAES
CN	100	19T-218-79	RU1702140/RU1902207	LG	LAES
CN	101	19T-218-84	RU1702140/RU1902207	LG	LAES
CN	102	19T-218-5	RU1702140/RU1902207	LG	LAES
CN	103	19T-218-7	RU1702140/RU1902207	LG	LAES
CN	104	19T-218-13	RU1702140/RU1902207	LG	LAES
CN	105	19T-218-32	RU1702140/RU1902207	LG	LAES
CN	106	19T-218-36	RU1702140/RU1902207	LG	LAES
CN	107	19T-218-42	RU1702140/RU1902207	LG	LAES
CN	108	19T-218-50	RU1702140/RU1902207	LG	LAES
CN	109	19T-218-56	RU1702140/RU1902207	LG	LAES
CN	110	19T-218-69	RU1702140/RU1902207	LG	LAES
CN	111	19T-218-71	RU1702140/RU1902207	LG	LAES
CN	112	19T-218-80	RU1702140/RU1902207	LG	LAES
CN	113	19T-218-81	RU1702140/RU1902207	LG	LAES
CN	114	19T-218-85	RU1702140/RU1902207	LG	LAES
CN	115	19T-220-9	Catahoula/RU1902207	LG	LAES
CN	116	19T-220-36	Catahoula/RU1902207	LG	LAES
CN	117	19T-220-3	Catahoula/RU1902207	LG	LAES
CN	118	19T-220-7	Catahoula/RU1902207	LG	LAES
CN	119	19T-220-31	Catahoula/RU1902207	LG	LAES
CN	120	19T-220-61	Catahoula/RU1902207	LG	LAES
CN	121	19T-220-67	Catahoula/RU1902207	LG	LAES
CN	122	19T-220-69	Catahoula/RU1902207	LG	LAES
CN	123	19T-220-81	Catahoula/RU1902207	LG	LAES
CN	124	19T-220-92	Catahoula/RU1902207	LG	LAES
CN	125	19T-220-94	Catahoula/RU1902207	LG	LAES
CN	126	19T-228-40	181L2018/RU1902194	LG	LAES
CN	127	19T-228-43	181L2018/RU1902194	LG	LAES
CN	128	19T-228-77	181L2018/RU1902194	LG	LAES
CN	129	19T-228-86	181L2018/RU1902194	LG	LAES
CN	130	19T-228-89	181L2018/RU1902194	LG	LAES
CN	131	19T-228-7	181L2018/RU1902194	LG	LAES
CN	132	19T-228-17	181L2018/RU1902194	LG	LAES
CN	133	19T-228-31	181L2018/RU1902194	LG	LAES
CN	134	19T-228-34	181L2018/RU1902194	LG	LAES
CN	135	19T-228-44	181L2018/RU1902194	LG	LAES
CN	136	19T-228-55	181L2018/RU1902194	LG	LAES
CN	137	19T-228-57	181L2018/RU1902194	LG	LAES
CN	138	19T-228-72	181L2018/RU1902194	LG	LAES
CN	139	19T-228-79	181L2018/RU1902194	LG	LAES
CN	140	19T-228-83	181L2018/RU1902194	LG	LAES
CN	141	19T-228-3	181L2018/RU1902194	LG	LAES
CN	142	19T-228-4	181L2018/RU1902194	LG	LAES
CN	143	19T-228-6	181L2018/RU1902194	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CN	144	19T-228-33	181L2018/RU1902194	LG	LAES
CN	145	19T-228-35	181L2018/RU1902194	LG	LAES
CN	146	19T-228-63	181L2018/RU1902194	LG	LAES
CN	147	19T-228-73	181L2018/RU1902194	LG	LAES
CN	148	19T-228-74	181L2018/RU1902194	LG	LAES
CN	149	19T-237-12	181L2002/RU1804067	LG	LAES
CN	150	19T-237-20	181L2002/RU1804067	LG	LAES
CN	151	19T-237-59	181L2002/RU1804067	LG	LAES
CN	152	19T-237-13	181L2002/RU1804067	LG	LAES
CN	153	19T-237-32	181L2002/RU1804067	LG	LAES
CN	154	19T-237-33	181L2002/RU1804067	LG	LAES
CN	155	19T-237-42	181L2002/RU1804067	LG	LAES
CN	156	19T-237-51	181L2002/RU1804067	LG	LAES
CN	157	19T-237-55	181L2002/RU1804067	LG	LAES
CN	158	19T-237-69	181L2002/RU1804067	LG	LAES
CN	159	19T-237-70	181L2002/RU1804067	LG	LAES
CN	160	19T-237-76	181L2002/RU1804067	LG	LAES
CN	161	19T-237-86	181L2002/RU1804067	LG	LAES
CN	162	19T-237-17	181L2002/RU1804067	LG	LAES
CN	163	19T-237-57	181L2002/RU1804067	LG	LAES
CN	164	19T-237-74	181L2002/RU1804067	LG	LAES
CN	165	19T-238-3	RU1902207/RU1804187	LG	LAES
CN	166	19T-238-4	RU1902207/RU1804187	LG	LAES
CN	167	19T-238-5	RU1902207/RU1804187	LG	LAES
CN	168	19T-238-7	RU1902207/RU1804187	LG	LAES
CN	169	19T-238-10	RU1902207/RU1804187	LG	LAES
CN	170	19T-238-11	RU1902207/RU1804187	LG	LAES
CN	171	19T-238-12	RU1902207/RU1804187	LG	LAES
CN	172	19T-238-21	RU1902207/RU1804187	LG	LAES
CN	173	19T-238-22	RU1902207/RU1804187	LG	LAES
CN	174	19T-238-27	RU1902207/RU1804187	LG	LAES
CN	175	19T-238-30	RU1902207/RU1804187	LG	LAES
CN	176	19T-238-33	RU1902207/RU1804187	LG	LAES
CN	177	19T-238-34	RU1902207/RU1804187	LG	LAES
CN	178	19T-238-35	RU1902207/RU1804187	LG	LAES
CN	179	19T-238-39	RU1902207/RU1804187	LG	LAES
CN	180	19T-238-41	RU1902207/RU1804187	LG	LAES
CN	181	19T-238-45	RU1902207/RU1804187	LG	LAES
CN	182	19T-238-47	RU1902207/RU1804187	LG	LAES
CN	183	19T-238-49	RU1902207/RU1804187	LG	LAES
CN	184	19T-238-55	RU1902207/RU1804187	LG	LAES
CN	185	19T-238-62	RU1902207/RU1804187	LG	LAES
CN	186	19T-238-69	RU1902207/RU1804187	LG	LAES
CN	187	19T-238-73	RU1902207/RU1804187	LG	LAES
CN	188	19T-238-74	RU1902207/RU1804187	LG	LAES
CN	189	19T-238-75	RU1902207/RU1804187	LG	LAES
CN	190	19T-238-76	RU1902207/RU1804187	LG	LAES
CN	191	19T-238-82	RU1902207/RU1804187	LG	LAES
CN	192	19T-238-85	RU1902207/RU1804187	LG	LAES
CN	193	19T-238-92	RU1902207/RU1804187	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CN	194	19T-238-1	RU1902207/RU1804187	LG	LAES
CN	195	19T-238-13	RU1902207/RU1804187	LG	LAES
CN	196	19T-238-14	RU1902207/RU1804187	LG	LAES
CN	197	19T-238-20	RU1902207/RU1804187	LG	LAES
CN	198	19T-238-40	RU1902207/RU1804187	LG	LAES
CN	199	19T-238-43	RU1902207/RU1804187	LG	LAES
CN	200	19T-238-44	RU1902207/RU1804187	LG	LAES
CN	201	19T-238-48	RU1902207/RU1804187	LG	LAES
CN	202	19T-238-72	RU1902207/RU1804187	LG	LAES
CN	203	19T-238-89	RU1902207/RU1804187	LG	LAES
CN	204	19T-176-CONV-1	RU1702165/RU1801211	MG	LAES
CN	205	19T-176-CONV-7	RU1702165/RU1801211	MG	LAES
CN	206	19T-176-CONV-8	RU1702165/RU1801211	MG	LAES
CN	207	19T-176-CONV-27	RU1702165/RU1801211	MG	LAES
CN	208	19T-176-CONV-34	RU1702165/RU1801211	MG	LAES
CN	209	19T-176-CONV-37	RU1702165/RU1801211	MG	LAES
CN	210	19T-176-CONV-40	RU1702165/RU1801211	MG	LAES
CN	211	19T-176-CONV-2	RU1702165/RU1801211	MG	LAES
CN	212	19T-176-CONV-4	RU1702165/RU1801211	MG	LAES
CN	213	19T-176-CONV-10	RU1702165/RU1801211	MG	LAES
CN	214	19T-176-CONV-12	RU1702165/RU1801211	MG	LAES
CN	215	19T-176-CONV-16	RU1702165/RU1801211	MG	LAES
CN	216	19T-176-CONV-17	RU1702165/RU1801211	MG	LAES
CN	217	19T-176-CONV-18	RU1702165/RU1801211	MG	LAES
CN	218	19T-176-CONV-24	RU1702165/RU1801211	MG	LAES
CN	219	19T-176-CONV-25	RU1702165/RU1801211	MG	LAES
CN	220	19T-176-CONV-28	RU1702165/RU1801211	MG	LAES
CN	221	19T-176-CONV-31	RU1702165/RU1801211	MG	LAES
CN	222	19T-176-CONV-36	RU1702165/RU1801211	MG	LAES
CN	223	19T-176-CONV-3	RU1702165/RU1801211	MG	LAES
CN	224	19T-176-CONV-6	RU1702165/RU1801211	MG	LAES
CN	225	19T-176-CONV-9	RU1702165/RU1801211	MG	LAES
CN	226	19T-176-CONV-19	RU1702165/RU1801211	MG	LAES
CN	227	19T-176-CONV-22	RU1702165/RU1801211	MG	LAES
CN	228	19T-176-CONV-29	RU1702165/RU1801211	MG	LAES
CN	229	19T-176-CONV-30	RU1702165/RU1801211	MG	LAES
CN	230	Titan		MG	AAES
CN	231	19T-176-CONV-38	RU1702165/RU1801211	MG	LAES
CN	232	19T-176-CONV-41	RU1702165/RU1801211	MG	LAES
CN	233	19T-176-CONV-42	RU1702165/RU1801211	MG	LAES
CN	234	19T-176-CONV-45	RU1702165/RU1801211	MG	LAES
CN	235	19T-176-CONV-46	RU1702165/RU1801211	MG	LAES
CN	236	18T196-10	CL272/Titan	MG	LAES
CN	237	18T196-14	CL272/Titan	MG	LAES
CN	238	18T196-20	CL272/Titan	MG	LAES
CN	239	18T196-24	CL272/Titan	MG	LAES
CN	240	18T196-25	CL272/Titan	MG	LAES
CN	241	18T196-46	CL272/Titan	MG	LAES
CN	242	18T196-48	CL272/Titan	MG	LAES
CN	243	18T196-3	CL272/Titan	MG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CN	244	18T196-7	CL272/Titan	LG	LAES
CN	245	18T196-13	CL272/Titan	LG	LAES
CN	246	Addi Jo		LG	LAES
CN	247	18T196-31	CL272/Titan	LG	LAES
CN	248	18T196-32	CL272/Titan	LG	LAES
CN	249	18T196-37	CL272/Titan	LG	LAES
CN	250	18T196-41	CL272/Titan	LG	LAES
CN	251	18T196-42	CL272/Titan	LG	LAES
CN	252	18T196-4	CL272/Titan	LG	LAES
CN	253	18T196-6	CL272/Titan	LG	LAES
CN	254	18T196-8	CL272/Titan	MG	LAES
CN	255	18T196-9	CL272/Titan	MG	LAES
CN	256	18T196-12	CL272/Titan	MG	LAES
CN	257	18T196-15	CL272/Titan	MG	LAES
CN	258	18T196-18	CL272/Titan	MG	LAES
CN	259	18T196-19	CL272/Titan	MG	LAES
CN	260	18T196-22	CL272/Titan	MG	LAES
CN	261	18T196-26	CL272/Titan	MG	LAES
CN	262	18T196-28	CL272/Titan	MG	LAES
CN	263	18T196-33	CL272/Titan	MG	LAES
CN	264	18T196-34	CL272/Titan	MG	LAES
CN	265	18T196-36	CL272/Titan	MG	LAES
CN	266	18T196-39	CL272/Titan	MG	LAES
CN	267	Mermentau		LG	LAES
CN	268	19T-247-2	LYNX/RU1801211	MG	LAES
CN	269	19T-247-4	LYNX/RU1801211	MG	LAES
CN	270	19T-247-7	LYNX/RU1801211	MG	LAES
CN	271	19T-247-13	LYNX/RU1801211	MG	LAES
CN	272	19T-247-21	LYNX/RU1801211	MG	LAES
CN	273	19T-247-25	LYNX/RU1801211	MG	LAES
CN	274	19T-247-26	LYNX/RU1801211	MG	LAES
CN	275	19T-247-27	LYNX/RU1801211	MG	LAES
CN	276	19T-247-29	LYNX/RU1801211	MG	LAES
CN	277	19T-247-30	LYNX/RU1801211	MG	LAES
CN	278	19T-247-31	LYNX/RU1801211	MG	LAES
CN	279	19T-247-38	LYNX/RU1801211	MG	LAES
CN	280	19T-247-39	LYNX/RU1801211	MG	LAES
CN	281	19T-247-41	LYNX/RU1801211	MG	LAES
CN	282	19T-247-43	LYNX/RU1801211	MG	LAES
CN	283	19T-247-47	LYNX/RU1801211	MG	LAES
CN	284	19T-247-52	LYNX/RU1801211	MG	LAES
CN	285	19T-247-53	LYNX/RU1801211	MG	LAES
CN	286	19T-247-59	LYNX/RU1801211	MG	LAES
CN	287	19T-247-60	LYNX/RU1801211	MG	LAES
CN	288	19T-247-65	LYNX/RU1801211	MG	LAES
CN	289	19T-247-67	LYNX/RU1801211	MG	LAES
CN	290	19T-247-85	LYNX/RU1801211	MG	LAES
CN	291	19T-247-87	LYNX/RU1801211	MG	LAES
CN	292	19T-247-89	LYNX/RU1801211	MG	LAES
CN	293	19T-247-6	LYNX/RU1801211	MG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CN	294	19T-247-12	LYNX/RU1801211	LG	LAES
CN	295	19T-247-23	LYNX/RU1801211	LG	LAES
CN	296	19T-247-35	LYNX/RU1801211	LG	LAES
CN	297	19T-247-44	LYNX/RU1801211	LG	LAES
CN	298	19T-247-45	LYNX/RU1801211	LG	LAES
CN	299	19T-247-54	LYNX/RU1801211	LG	LAES
CN	300	19T-247-71	LYNX/RU1801211	LG	LAES
CN	301	19T-247-72	LYNX/RU1801211	LG	LAES
CN	302	19T-247-80	LYNX/RU1801211	LG	LAES
CN	303	19T-247-88	LYNX/RU1801211	LG	LAES
CN	304	19T-247-90	LYNX/RU1801211	MG	LAES
CN	305	19T-247-1	LYNX/RU1801211	MG	LAES
CN	306	19T-247-3	LYNX/RU1801211	MG	LAES
CN	307	19T-247-8	LYNX/RU1801211	MG	LAES
CN	308	19T-247-9	LYNX/RU1801211	MG	LAES
CN	309	19T-247-15	LYNX/RU1801211	MG	LAES
CN	310	19T-247-18	LYNX/RU1801211	MG	LAES
CN	311	19T-247-24	LYNX/RU1801211	MG	LAES
CN	312	19T-247-36	LYNX/RU1801211	MG	LAES
CN	313	19T-247-40	LYNX/RU1801211	MG	LAES
CN	314	19T-247-46	LYNX/RU1801211	MG	LAES
CN	315	19T-247-55	LYNX/RU1801211	MG	LAES
CN	316	19T-247-63	LYNX/RU1801211	MG	LAES
CN	317	19T-247-68	LYNX/RU1801211	MG	LAES
CN	318	19T-247-69	LYNX/RU1801211	MG	LAES
CN	319	19T-247-70	LYNX/RU1801211	MG	LAES
CN	320	19T-247-82	LYNX/RU1801211	MG	LAES
CN	321	19T-247-83	LYNX/RU1801211	MG	LAES
CN	322	19T-247-86	LYNX/RU1801211	MG	LAES
CN	323	19T-247-93	LYNX/RU1801211	MG	LAES
CN	324	Avant		LG	LAES
CN	325	Cheniere		LG	LAES
CL	326	CL153		LG	LAES
CL	327	CLL17		LG	LAES
CL	328	CLM04		MG	AAES
CN	329	DG263L		LG	Nutrien
CN	330	Jupiter		MG	LAES
PV	1	19T-262-1	Catahoula/PVL03	LG	LAES
PV	2	19T-262-5	Catahoula/PVL03	LG	LAES
PV	3	19T-262-8	Catahoula/PVL03	LG	LAES
PV	4	19T-262-12	Catahoula/PVL03	LG	LAES
PV	5	19T-262-13	Catahoula/PVL03	LG	LAES
PV	6	19T-262-15	Catahoula/PVL03	LG	LAES
PV	7	19T-262-19	Catahoula/PVL03	LG	LAES
PV	8	19T-262-21	Catahoula/PVL03	LG	LAES
PV	9	19T-262-25	Catahoula/PVL03	LG	LAES
PV	10	19T-262-40	Catahoula/PVL03	LG	LAES
PV	11	19T-262-51	Catahoula/PVL03	LG	LAES
PV	12	19T-262-54	Catahoula/PVL03	LG	LAES
PV	13	19T-262-56	Catahoula/PVL03	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type[†]	Source[‡]
PV	14	19T-262-60	Catahoula/PVL03	LG	LAES
PV	15	19T-262-61	Catahoula/PVL03	LG	LAES
PV	16	19T-262-62	Catahoula/PVL03	LG	LAES
PV	17	19T-262-65	Catahoula/PVL03	LG	LAES
PV	18	19T-262-67	Catahoula/PVL03	LG	LAES
PV	19	19T-262-75	Catahoula/PVL03	LG	LAES
PV	20	19T-262-76	Catahoula/PVL03	LG	LAES
PV	21	19T-262-83	Catahoula/PVL03	LG	LAES
PV	22	19T-262-84	Catahoula/PVL03	LG	LAES
PV	23	19T-262-85	Catahoula/PVL03	LG	LAES
PV	24	19T-262-91	Catahoula/PVL03	LG	LAES
PV	25	19T-262-93	Catahoula/PVL03	LG	LAES
PV	26	19T-262-95	Catahoula/PVL03	LG	LAES
PV	27	19T-262-100	Catahoula/PVL03	LG	LAES
PV	28	19T-262-102	Catahoula/PVL03	LG	LAES
PV	29	19T-262-103	Catahoula/PVL03	LG	LAES
PV	30	19T-262-104	Catahoula/PVL03	LG	LAES
PV	31	19T-262-111	Catahoula/PVL03	LG	LAES
PV	32	19T-262-114	Catahoula/PVL03	LG	LAES
PV	33	19T-262-118	Catahoula/PVL03	LG	LAES
PV	34	19T-262-126	Catahoula/PVL03	LG	LAES
PV	35	19T-262-127	Catahoula/PVL03	LG	LAES
PV	36	19T-262-128	Catahoula/PVL03	LG	LAES
PV	37	19T-262-131	Catahoula/PVL03	LG	LAES
PV	38	19T-262-135	Catahoula/PVL03	LG	LAES
PV	39	19T-262-136	Catahoula/PVL03	LG	LAES
PV	40	19T-262-137	Catahoula/PVL03	LG	LAES
PV	41	19T-262-141	Catahoula/PVL03	LG	LAES
PV	42	19T-262-145	Catahoula/PVL03	LG	LAES
PV	43	19T-262-147	Catahoula/PVL03	LG	LAES
PV	44	19T-262-151	Catahoula/PVL03	LG	LAES
PV	45	19T-262-154	Catahoula/PVL03	LG	LAES
PV	46	19T-262-160	Catahoula/PVL03	LG	LAES
PV	47	19T-262-166	Catahoula/PVL03	LG	LAES
PV	48	19T-262-169	Catahoula/PVL03	LG	LAES
PV	49	19T-262-174	Catahoula/PVL03	LG	LAES
PV	50	19T-262-175	Catahoula/PVL03	LG	LAES
PV	51	19T-262-184	Catahoula/PVL03	LG	LAES
PV	52	19T-262-187	Catahoula/PVL03	LG	LAES
PV	53	19T-262-188	Catahoula/PVL03	LG	LAES
PV	54	19T-262-191	Catahoula/PVL03	LG	LAES
PV	55	19T-262-198	Catahoula/PVL03	LG	LAES
PV	56	19T-262-203	Catahoula/PVL03	LG	LAES
PV	57	19T-262-207	Catahoula/PVL03	LG	LAES
PV	58	19T-262-210	Catahoula/PVL03	LG	LAES
PV	59	19T-262-211	Catahoula/PVL03	LG	LAES
PV	60	19T-262-214	Catahoula/PVL03	LG	LAES
PV	61	19T-262-215	Catahoula/PVL03	LG	LAES
PV	62	19T-262-217	Catahoula/PVL03	LG	LAES
PV	63	19T-262-221	Catahoula/PVL03	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
PV	64	19T-262-223	Catahoula/PVL03	LG	LAES
PV	65	19T-262-225	Catahoula/PVL03	LG	LAES
PV	66	19T-262-228	Catahoula/PVL03	LG	LAES
PV	67	19T-262-229	Catahoula/PVL03	LG	LAES
PV	68	19T-262-230	Catahoula/PVL03	LG	LAES
PV	69	19T-262-234	Catahoula/PVL03	LG	LAES
PV	70	19T-262-238	Catahoula/PVL03	LG	LAES
PV	71	19T-262-239	Catahoula/PVL03	LG	LAES
PV	72	19T-262-244	Catahoula/PVL03	LG	LAES
PV	73	19T-262-247	Catahoula/PVL03	LG	LAES
PV	74	19T-262-250	Catahoula/PVL03	LG	LAES
PV	75	19T-262-256	Catahoula/PVL03	LG	LAES
PV	76	19T-262-258	Catahoula/PVL03	LG	LAES
PV	77	19T-262-259	Catahoula/PVL03	LG	LAES
PV	78	19T-262-260	Catahoula/PVL03	LG	LAES
PV	79	19T-262-276	Catahoula/PVL03	LG	LAES
PV	80	19T-262-278	Catahoula/PVL03	LG	LAES
PV	81	19T-262-282	Catahoula/PVL03	LG	LAES
PV	82	PVL01		LG	LAES
PV	83	PVL02		LG	LAES
PV	84	PVL03		LG	LAES

[†] LG = Long grain, MG = Medium grain, AI = Long-grain aromatic-Della type, AL = Long-grain aromatic-Jazzman type, and HI = Long-grain high amylose-Dixiebelle type.

[‡] LAES – H. Rouse Caffey Rice Research Station, Louisiana Agricultural Experiment Station, LSU AgCenter, Rayne; AAES – Arkansas Agricultural Experiment Station, Stuttgart, AR; MAES – Delta Research and Extension Center, Stoneville, MS; TAES, USDA – Texas A&M Research and Education Center, Texas Agricultural Experiment Station, U.S. Department of Agriculture, Beaumont, TX; RiceTec, Alvin, TX; and Nutrien Ag Solutions.

Table 3. Grain and milling yields and agronomic performance of entries in the 2022 Whole Genome Prediction trial - Clearfield. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
170	19T-106-CL-71	5.0	87.0	98.0	69.7	73.9	27.8	11786.9
279	19T-177-CL-30	5.0	83.0	100.0	66.9	71.0	18.3	11718.5
277	19T-177-CL-75	5.0	85.0	115.0	64.1	70.9	19.1	11709.7
386	19T-074-13	5.0	87.0	110.0	67.3	70.6	19.7	11681.2
192	19T-140-52	5.0	85.0	103.0	68.9	73.0	28.0	11674.3
368	19T-183-CL-37	5.0	83.0	103.0	66.8	70.9	29.8	11628.5
375	19T-183-CL-16	5.0	85.0	95.0	64.8	68.5	24.6	11606.8
188	19T-140-40	5.0	84.0	112.0	69.2	73.9	28.6	11595.1
183	19T-140-18	3.0	84.0	111.0	69.1	73.2	25.7	11572.9
169	19T-106-CL-57	3.0	85.0	103.0	70.8	74.7	27.0	11534.7
363	19T-183-CL-13	5.0	88.0	105.0	66.8	70.0	21.8	11523.2
78	19T-033-77	5.0	84.0	102.0	68.5	72.6	24.7	11469.8
372	19T-183-CL-3	5.0	83.0	104.0	67.8	71.1	27.4	11424.5
180	19T-140-7	3.0	84.0	106.0	67.6	72.8	33.2	11421.1
262	19T-176-CL-74	5.0	85.0	103.0	69.2	71.6	11.6	11344.5
224	19T-140-75	5.0	88.0	102.0	66.5	71.5	23.8	11300.0
237	19T-176-CL-13	3.0	85.0	107.0	69.7	72.2	14.5	11287.2
25	19T-030-24	5.0	83.0	107.0	66.2	71.4	25.9	11264.8
203	19T-140-79	5.0	83.0	101.0	67.5	73.4	36.7	11264.8
236	19T-176-CL-11	5.0	86.0	91.0	68.2	70.9	20.5	11253.0
212	19T-140-12	5.0	84.0	110.0	63.5	70.3	25.7	11185.8
73	19T-033-38	5.0	85.0	93.0	68.3	73.4	26.7	11179.9
270	19T-177-CL-1	7.0	89.0	103.0	62.3	66.9	23.7	11165.5
259	19T-176-CL-64	5.0	84.0	106.0	66.5	71.1	16.3	11140.8
70	19T-033-31	5.0	85.0	104.0	69.6	73.7	23.1	11116.2
275	19T-177-CL-66	5.0	89.0	103.0	65.2	68.9	24.7	11098.4
136	19T-048-35	5.0	93.0	112.0	55.9	67.7	34.0	11080.4
201	19T-140-74	3.0	85.0	105.0	67.3	72.6	25.8	11069.9
345	19T-183-CL-1	5.0	85.0	102.0	66.8	70.3	34.4	11061.5
168	19T-106-CL-55	5.0	88.0	100.0	68.7	72.3	25.1	11057.6
326	19T-179-23	5.0	88.0	106.0	65.2	68.9	22.5	11043.6
238	19T-176-CL-21	5.0	86.0	100.0	67.8	70.5	14.1	11037.7
361	19T-183-CL-6	5.0	85.0	102.0	64.9	70.0	25.4	11027.6
284	19T-177-CL-82	5.0	85.0	115.0	70.9	73.9	17.3	11020.6
379	19T-183-CL-24	5.0	84.0	88.0	65.3	69.4	22.5	11004.3
198	19T-140-66	5.0	83.0	98.0	70.0	74.6	30.3	10977.2
342	19T-179-32	7.0	93.0	100.0	68.3	71.5	20.0	10976.5
274	19T-177-CL-59	7.0	87.0	101.0	66.8	70.8	19.9	10963.7
367	19T-183-CL-30	5.0	83.0	99.0	67.4	71.1	32.4	10963.7
252	19T-176-CL-43	3.0	85.0	120.0	63.8	69.2	15.9	10953.3
184	19T-140-22	5.0	85.0	102.0	69.6	73.3	20.0	10949.5
406	RU1902026	5.0	84.0	101.0	64.9	71.4	30.7	10941.7
39	19T-030-46	5.0	84.0	101.0	68.2	72.8	18.7	10932.8

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
205	19T-140-85	5.0	85.0	105.0	68.9	73.9	24.7	10907.8
298	19T-184-CL-84	5.0	83.0	96.0	65.1	69.4	27.9	10879.1
381	19T-183-CL-34	7.0	89.0	90.0	65.9	70.1	28.4	10869.2
65	19T-030-86	5.0	88.0	108.0	69.6	73.9	26.2	10867.8
268	19T-176-CL-90	3.0	82.0	114.0	67.7	71.8	13.4	10861.7
41	19T-030-50	5.0	88.0	102.0	70.7	74.7	20.3	10858.5
22	19T-030-14	5.0	85.0	105.0	70.5	74.6	25.3	10850.7
362	19T-183-CL-10	5.0	84.0	99.0	65.8	70.0	18.4	10836.8
193	19T-140-55	5.0	87.0	102.0	69.1	73.3	20.8	10825.8
338	19T-179-18	5.0	83.0	109.0	66.4	70.8	24.9	10822.1
72	19T-033-35	5.0	85.0	95.0	67.9	73.2	21.8	10819.5
374	19T-183-CL-12	5.0	84.0	99.0	65.9	70.6	26.2	10819.5
325	19T-179-20	5.0	89.0	111.0	67.9	71.1	21.1	10815.3
167	19T-106-CL-7	5.0	85.0	106.0	68.2	73.0	23.2	10813.6
303	19T-184-CL-14	5.0	82.0	93.0	65.9	69.4	23.7	10806.4
37	19T-030-43	3.0	83.0	99.0	68.5	72.5	19.8	10801.1
217	19T-140-30	5.0	87.0	103.0	66.8	71.7	23.9	10801.1
330	19T-179-38	5.0	88.0	93.0	60.6	67.2	22.0	10797.0
267	19T-176-CL-88	5.0	85.0	98.0	68.4	71.0	12.7	10794.6
189	19T-140-41	5.0	82.0	110.0	65.2	72.2	28.7	10770.6
269	19T-176-CL-93	5.0	87.0	105.0	69.0	71.5	12.0	10768.7
400	19T-175-CL-45	5.0	86.0	106.0	63.4	68.2	20.9	10764.6
58	19T-030-58	3.0	84.0	95.0	71.4	75.0	18.2	10741.8
380	19T-183-CL-31	5.0	83.0	91.0	66.5	71.1	30.7	10736.6
373	19T-183-CL-11	5.0	84.0	101.0	67.1	70.4	29.9	10734.3
370	19T-183-CL-45	7.0	83.0	99.0	66.3	71.1	38.1	10717.2
172	19T-106-CL-81	5.0	87.0	101.0	69.4	73.5	21.2	10713.1
276	19T-177-CL-72	5.0	88.0	105.0	65.8	70.4	20.4	10711.1
225	19T-140-82	5.0	83.0	102.0	66.4	72.6	32.8	10691.9
185	19T-140-28	5.0	88.0	106.0	69.7	73.8	23.3	10679.3
76	19T-033-63	5.0	87.0	101.0	68.3	72.4	22.7	10679.3
215	19T-140-21	5.0	84.0	105.0	70.2	74.3	26.6	10679.2
390	19T-074-36	5.0	83.0	108.0	67.0	72.0	19.1	10666.5
332	19T-179-1	5.0	86.0	98.0	67.7	70.7	20.2	10666.4
190	19T-140-47	5.0	85.0	103.0	68.5	72.5	22.2	10664.7
351	19T-183-CL-25	5.0	86.0	98.0	66.4	71.3	29.0	10661.7
18	19T-030-3	5.0	85.0	106.0	69.8	73.4	22.4	10660.0
139	19T-053-13	5.0	84.0	104.0	69.8	75.2	24.2	10656.2
60	19T-030-60	5.0	88.0	108.0	69.2	73.2	22.8	10650.2
114	19T-046-33	5.0	86.0	101.0	67.5	72.6	27.3	10647.5
68	19T-032-15	5.0	86.0	105.0	68.5	72.9	24.6	10647.0
17	19T-029-48	5.0	83.0	106.0	68.6	73.5	24.2	10640.9
272	19T-177-CL-25	5.0	85.0	106.0	65.1	69.8	19.7	10634.2
77	19T-033-66	5.0	83.0	98.0	68.0	72.9	25.2	10623.6

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
16	19T-029-33	5.0	85.0	97.0	69.9	73.6	25.8	10622.0
179	19T-140-6	3.0	85.0	105.0	68.6	72.6	22.5	10615.8
181	19T-140-11	5.0	84.0	110.0	69.1	73.3	27.0	10610.3
150	19T-055-29	5.0	84.0	102.0	67.2	72.6	27.4	10609.0
125	19T-046-73	5.0	84.0	97.0	67.9	72.5	27.3	10603.0
5	19T-028-19	5.0	84.0	95.0	70.8	75.4	29.9	10602.9
178	19T-140-5	5.0	87.0	103.0	70.1	74.1	25.8	10593.7
69	19T-033-9	5.0	86.0	102.0	69.1	72.9	18.3	10586.5
382	19T-183-CL-35	5.0	88.0	97.0	66.9	70.9	38.1	10586.0
196	19T-140-62	5.0	83.0	105.0	67.8	73.2	29.0	10584.1
14	19T-029-4	5.0	85.0	103.0	67.8	71.7	24.4	10575.0
216	19T-140-29	5.0	84.0	104.0	67.9	73.2	31.9	10575.0
392	19T-175-CL-9	5.0	82.0	101.0	67.5	70.6	21.8	10564.3
12	19T-028-76	5.0	84.0	112.0	68.7	74.7	34.7	10549.7
45	19T-030-65	5.0	84.0	100.0	68.9	73.6	27.2	10545.9
156	19T-055-76	5.0	87.0	99.0	66.7	72.5	26.3	10544.4
226	19T-141-CL-9	5.0	85.0	108.0	69.1	73.8	21.7	10539.8
130	19T-046-87	5.0	88.0	100.0	67.4	71.8	22.8	10539.7
28	19T-030-31	5.0	84.0	102.0	67.1	72.0	21.8	10527.2
50	19T-030-74	5.0	86.0	98.0	70.0	74.0	25.6	10526.1
15	19T-029-24	5.0	85.0	95.0	68.2	72.2	21.7	10514.5
377	19T-183-CL-22	7.0	84.0	105.0	65.7	70.6	31.5	10508.8
327	19T-179-24	7.0	88.0	94.0	66.1	69.6	24.3	10501.1
320	19T-179-2	5.0	94.0	98.0	66.7	70.2	19.3	10499.6
352	19T-183-CL-27	7.0	86.0	109.0	65.8	70.6	25.9	10493.6
271	19T-177-CL-5	5.0	85.0	119.0	66.6	69.9	18.0	10493.2
63	19T-030-76	3.0	87.0	106.0	62.3	70.7	21.0	10491.0
310	19T-179-3	7.0	92.0	110.0	65.7	69.6	25.5	10447.8
116	19T-046-41	5.0	86.0	99.0	68.5	73.4	23.2	10432.7
174	19T-129-84	5.0	87.0	110.0	68.8	72.7	21.8	10430.9
302	19T-184-CL-13	5.0	82.0	94.0	65.6	69.1	25.0	10421.0
186	19T-140-36		89.0	106.0	67.4	72.4	22.5	10419.9
354	19T-183-CL-36	5.0	85.0	104.0	66.3	71.9	32.6	10419.8
401	CL151	5.0	86.0	96.0	68.3	73.4	31.8	10413.6
67	19T-030-91	5.0	83.0	103.0	69.2	74.4	24.1	10409.2
195	19T-140-60	5.0	82.0	96.0	67.4	72.0	24.2	10408.3
300	19T-184-CL-93	5.0	82.0	110.0	67.6	71.0	25.3	10400.2
305	19T-184-CL-29	5.0	89.0	96.0	68.4	71.2	18.2	10394.5
207	19T-140-90	5.0	88.0	109.0	70.8	74.4	24.4	10387.5
246	19T-176-CL-86	7.0	84.0	93.0	67.3	70.7	17.9	10387.5
228	19T-141-CL-50	5.0	84.0	106.0	68.1	74.0	26.0	10381.9
365	19T-183-CL-21	7.0	85.0	93.0	65.4	68.6	22.4	10379.6
221	19T-140-57	5.0	86.0	103.0	69.9	73.5	19.2	10368.6
261	19T-176-CL-71	5.0	84.0	92.0	66.6	70.8	12.9	10364.6

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
102	19T-046-66	3.0	87.0	100.0	67.4	71.9	19.4	10361.4
149	19T-055-22	5.0	87.0	97.0	69.4	74.4	28.1	10352.3
206	19T-140-86	3.0	83.0	95.0	66.2	71.8	19.5	10351.7
200	19T-140-70	5.0	85.0	92.0	69.3	73.1	19.0	10351.6
247	19T-176-CL-89	5.0	88.0	100.0	69.4	72.2	17.2	10350.6
364	19T-183-CL-15	5.0	82.0	89.0	62.1	67.3	24.8	10347.0
20	19T-030-10	5.0	85.0	100.0	66.4	71.2	19.0	10337.0
231	19T-141-CL-91	5.0	84.0	104.0	67.1	73.1	24.5	10327.5
46	19T-030-66	5.0	89.0	96.0	67.8	71.9	17.8	10326.0
27	19T-030-27	5.0	85.0	108.0	66.1	72.0	24.1	10325.8
292	19T-184-CL-52	5.0	84.0	106.0	65.4	68.2	16.4	10325.1
316	19T-179-41		89.0	99.0	68.0	70.6	17.1	10311.7
209	19T-140-93	5.0	90.0	108.0	68.8	72.7	18.8	10299.5
202	19T-140-77	5.0	88.0	109.0	68.6	72.4	13.4	10269.8
86	19T-042-6	5.0	89.0	116.0	68.9	73.8	29.6	10269.3
99	19T-046-35	5.0	85.0	102.0	67.8	72.9	23.3	10263.4
218	19T-140-44	3.0	85.0	113.0	67.3	72.1	26.7	10263.4
59	19T-030-59	5.0	87.0	103.0	69.8	74.0	27.6	10259.7
132	19T-046-94	5.0	89.0	101.0	68.1	71.4	17.0	10257.2
290	19T-184-CL-31	5.0	84.0	100.0	67.9	70.6	21.2	10253.1
396	19T-175-CL-15	7.0	83.0	105.0	67.0	70.6	21.3	10252.1
71	19T-033-32	5.0	87.0	110.0	64.6	69.7	20.8	10250.8
245	19T-176-CL-69	5.0	87.0	101.0	67.9	71.4	14.5	10247.5
47	19T-030-67	5.0	92.0	107.0	68.9	72.6	25.2	10231.0
34	19T-030-39	3.0	84.0	106.0	70.0	74.4	21.6	10219.3
64	19T-030-81	5.0	85.0	104.0	69.3	73.3	17.3	10197.2
336	19T-179-14	5.0	89.0	106.0	65.6	69.0	21.9	10191.7
164	19T-092-5	5.0	87.0	104.0	68.9	73.0	25.8	10187.4
244	19T-176-CL-65	5.0	86.0	100.0	67.8	71.3	15.7	10182.3
208	19T-140-92	7.0	85.0	100.0	70.6	74.7	21.1	10182.2
341	19T-179-30	7.0	89.0	104.0	66.6	70.5	21.8	10176.5
51	19T-030-78	5.0	85.0	101.0	68.0	72.7	20.9	10174.8
213	19T-140-14	5.0	85.0	107.0	68.8	73.8	29.1	10173.1
49	19T-030-71	5.0	89.0	107.0	69.8	73.2	17.8	10171.3
287	19T-184-CL-10	5.0	86.0	111.0	67.7	71.6	18.8	10168.4
194	19T-140-59	5.0	83.0	98.0	70.0	74.2	25.5	10167.4
36	19T-030-42	5.0	87.0	105.0	66.7	70.9	15.5	10165.5
30	19T-030-33	5.0	87.0	87.0	73.0	76.2	21.2	10165.0
328	19T-179-33	7.0	88.0	107.0	68.7	71.4	16.4	10162.6
81	19T-041-59	5.0	89.0	103.0	70.0	73.6	19.7	10161.7
92	19T-042-88	5.0	87.0	116.0	66.2	70.8	29.0	10160.7
199	19T-140-69	5.0	81.0	105.0	68.2	73.6	26.8	10138.5
239	19T-176-CL-23	5.0	87.0	98.0	66.8	69.7	14.3	10137.4
324	19T-179-15	7.0	89.0	109.0	67.6	71.2	26.7	10131.9

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
223	19T-140-68	5.0	83.0	106.0	69.5	73.1	21.4	10120.5
57	19T-030-57	5.0	83.0	103.0	68.0	72.7	23.5	10120.3
85	19T-042-2		89.0	115.0	66.7	71.6	24.3	10118.6
84	19T-042-44	5.0	87.0	112.0	67.8	71.8	21.3	10118.2
219	19T-140-50	5.0	83.0	112.0	64.6	71.5	30.2	10113.0
322	19T-179-10	7.0	92.0	98.0	67.0	70.2	21.8	10113.0
61	19T-030-63	7.0	83.0	102.0	64.8	71.1	27.5	10106.5
21	19T-030-13	5.0	87.0	99.0	66.1	71.1	14.3	10102.1
230	19T-141-CL-53	7.0	84.0	97.0	68.2	72.7	26.4	10097.0
4	19T-028-17	5.0	88.0	104.0	69.0	74.0	20.9	10079.7
90	19T-042-27	5.0	88.0	112.0	67.4	72.2	29.0	10078.5
211	19T-140-10	5.0	84.0	105.0	68.1	72.5	28.1	10076.8
26	19T-030-26	5.0	83.0	102.0	61.4	69.6	26.0	10073.8
124	19T-046-72	5.0	86.0	101.0	67.7	72.3	21.6	10069.5
299	19T-184-CL-89	5.0	85.0	101.0	67.9	71.2	25.3	10069.1
152	19T-055-33	5.0	84.0	100.0	64.4	71.2	23.0	10051.4
154	19T-055-39	5.0	85.0	97.0	68.3	73.4	19.9	10045.9
53	19T-030-92	5.0	83.0	104.0	62.9	69.6	23.9	10044.8
32	19T-030-36	5.0	84.0	97.0	68.7	73.9	26.1	10037.7
312	19T-179-8	7.0	87.0	90.0	64.6	69.2	22.9	10034.2
356	19T-183-CL-41	7.0	82.0	99.0	65.1	69.5	30.4	10021.8
153	19T-055-38	5.0	83.0	112.0	64.9	71.9	24.8	10016.3
166	19T-092-84	5.0	85.0	100.0	68.9	73.0	22.4	10015.6
313	19T-179-19	7.0	94.0	108.0	67.4	70.9	15.4	10014.2
19	19T-030-5	5.0	87.0	104.0	70.0	74.0	14.5	10010.2
131	19T-046-89	5.0	86.0	97.0	67.2	72.6	21.5	10007.0
119	19T-046-58	5.0	85.0	98.0	68.4	73.4	25.9	9994.8
56	19T-030-45	5.0	85.0	106.0	68.2	72.5	21.4	9991.8
371	19T-183-CL-2	5.0	83.0	97.0	65.4	69.9	31.2	9983.9
146	19T-055-16	5.0	85.0	102.0	63.4	69.3	20.7	9982.4
264	19T-176-CL-79	5.0	83.0	104.0	62.0	70.4	13.3	9981.4
283	19T-177-CL-54	7.0	89.0	100.0	66.3	70.2	19.7	9979.9
395	19T-175-CL-14	5.0	83.0	107.0	66.1	69.9	23.5	9978.5
357	19T-183-CL-44	7.0	85.0	91.0	65.9	70.7	25.3	9972.6
163	19T-092-35	5.0	85.0	100.0	69.0	73.5	17.9	9972.5
31	19T-030-35	5.0	85.0	102.0	68.3	73.5	29.5	9970.3
75	19T-033-49	5.0	84.0	97.0	63.9	70.6	25.8	9968.1
347	19T-183-CL-7	7.0	85.0	92.0	65.4	70.5	33.1	9965.5
317	19T-179-42	5.0	88.0	108.0	66.4	70.7	25.8	9945.2
74	19T-033-40	5.0	83.0	99.0	67.5	72.7	29.3	9943.6
104	19T-046-75	7.0	89.0	105.0	66.3	70.8	17.5	9929.6
394	19T-175-CL-13	7.0	83.0	108.0	67.2	70.9	15.4	9928.3
105	19T-046-79	5.0	87.0	104.0	67.6	72.6	26.6	9919.8
346	19T-183-CL-4	5.0	84.0	99.0	67.4	71.3	27.6	9916.7

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
144	19T-053-83	3.0	85.0	105.0	70.1	74.8	22.9	9908.7
128	19T-046-78	5.0	84.0	99.0	65.9	70.9	20.5	9903.1
340	19T-179-27	7.0	86.0	97.0	61.8	67.1	24.4	9872.1
403	CLL16	7.0	94.0	111.0	63.7	71.5	23.4	9867.7
1	19T-028-2	5.0	82.0	102.0	67.1	72.4	26.9	9865.6
158	19T-055-89	5.0	84.0	102.0	68.1	74.1	23.4	9859.4
121	19T-046-61	5.0	87.0	101.0	69.4	73.9	29.6	9856.2
204	19T-140-83	5.0	82.0	103.0	62.8	71.1	24.7	9854.4
113	19T-046-26	5.0	84.0	102.0	66.6	72.4	30.0	9831.3
187	19T-140-38	3.0	85.0	98.0	68.5	73.4	22.9	9829.8
147	19T-055-2	5.0	89.0	100.0	67.2	72.0	20.5	9825.4
120	19T-046-59	5.0	88.0	105.0	66.2	70.9	24.0	9824.1
260	19T-176-CL-66	7.0	85.0	88.0	66.0	70.6	18.8	9812.3
235	19T-176-CL-8	5.0	86.0	110.0	68.8	72.7	14.0	9807.7
24	19T-030-19	5.0	86.0	99.0	70.6	74.7	24.6	9805.0
123	19T-046-70	5.0	87.0	99.0	66.7	70.9	22.4	9792.5
360	19T-183-CL-5	5.0	87.0	109.0	66.6	69.6	26.7	9790.8
355	19T-183-CL-38		87.0	103.0	66.1	70.3	29.1	9787.2
171	19T-106-CL-76	5.0	87.0	108.0	70.0	74.2	24.4	9779.6
399	19T-175-CL-41	5.0	85.0	106.0	58.9	69.1	21.9	9776.1
251	19T-176-CL-39	5.0	85.0	103.0	66.8	70.6	20.6	9773.2
248	19T-176-CL-10	5.0	83.0	108.0	64.3	69.2	9.9	9768.9
6	19T-028-35	5.0	85.0	98.0	67.9	73.0	29.4	9756.5
66	19T-030-90	5.0	88.0	108.0	63.1	68.4	17.7	9749.7
304	19T-184-CL-19	5.0	85.0	100.0	66.2	69.0	16.7	9748.3
33	19T-030-38	5.0	85.0	104.0	69.7	73.7	29.9	9746.4
266	19T-176-CL-84	5.0	84.0	96.0	63.1	71.4	14.1	9743.6
321	19T-179-6	7.0	92.0	91.0	65.3	69.8	22.7	9743.5
161	19T-055-93	5.0	86.0	96.0	66.1	71.5	20.9	9730.4
353	19T-183-CL-33	5.0	85.0	105.0	64.8	70.8	30.1	9728.0
173	19T-112-54	5.0	88.0	101.0	68.8	73.3	26.3	9727.4
148	19T-055-12	5.0	88.0	104.0	67.3	73.5	21.2	9726.4
55	19T-030-29	5.0	87.0	106.0	68.0	71.7	19.0	9719.3
250	19T-176-CL-26	7.0	83.0	95.0	62.8	69.3	15.2	9708.9
333	19T-179-5	5.0	91.0	84.0	65.3	68.7	18.7	9704.4
405	CLM04	7.0	91.0	108.0	68.9	71.6	19.3	9704.0
52	19T-030-89	3.0	83.0	103.0	67.6	72.9	19.3	9691.0
242	19T-176-CL-36	5.0	84.0	95.0	67.4	71.1	13.9	9688.4
253	19T-176-CL-46	5.0	85.0	110.0	68.2	72.0	12.3	9683.4
331	19T-179-40	5.0	89.0	96.0	65.5	69.1	18.8	9679.7
232	19T-141-CL-93	5.0	83.0	107.0	67.8	73.6	20.2	9676.4
402	CL153	5.0	85.0	94.0	68.5	73.0	22.8	9663.4
133	19T-048-7	5.0	89.0	106.0	68.6	73.1	21.3	9662.7
176	19T-140-1	3.0	86.0	110.0	70.5	74.8	31.4	9662.2

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
229	19T-141-CL-52	5.0	84.0	113.0	69.4	74.9	30.7	9662.1
89	19T-042-26	5.0	89.0	111.0	68.0	72.1	33.7	9660.3
108	19T-046-5	5.0	88.0	102.0	68.4	73.1	22.9	9657.0
273	19T-177-CL-35	5.0	88.0	94.0	66.3	70.1	16.1	9643.1
35	19T-030-41	5.0	83.0	101.0	68.7	73.0	25.1	9643.0
101	19T-046-65	5.0	85.0	94.0	66.6	71.3	23.3	9635.3
40	19T-030-48	5.0	87.0	102.0	68.1	72.7	26.2	9630.5
10	19T-028-62	5.0	86.0	103.0	70.2	74.7	20.1	9619.4
289	19T-184-CL-21	5.0	85.0	105.0	65.4	69.6	17.4	9618.8
291	19T-184-CL-44	5.0	84.0	102.0	63.7	68.5	20.7	9618.8
329	19T-179-37	5.0	89.0	108.0	65.0	69.3	30.5	9612.8
358	19T-183-CL-47	7.0	85.0	98.0	66.0	69.6	25.3	9612.2
87	19T-042-12	3.0	87.0	100.0	69.4	73.4	26.2	9609.8
278	19T-177-CL-8	5.0	89.0	94.0	66.2	70.0	16.3	9606.8
3	19T-028-14	5.0	85.0	103.0	66.4	71.3	18.1	9600.5
263	19T-176-CL-76	7.0	85.0	111.0	68.5	71.6	14.2	9597.2
100	19T-046-54	5.0	89.0	103.0	64.9	69.9	16.0	9593.2
88	19T-042-17	5.0	87.0	114.0	62.1	68.8	23.7	9581.6
255	19T-176-CL-53	5.0	85.0	100.0	65.6	70.3	20.1	9566.6
258	19T-176-CL-63	5.0	86.0	112.0	66.4	71.1	14.1	9556.7
157	19T-055-86	5.0	90.0	94.0	71.7	74.9	17.5	9544.2
240	19T-176-CL-29	3.0	84.0	102.0	67.5	70.6	16.0	9544.2
112	19T-046-21	5.0	84.0	95.0	66.0	71.0	16.1	9543.8
222	19T-140-61	5.0	84.0	102.0	67.7	73.4	28.1	9537.5
109	19T-046-7	5.0	87.0	99.0	68.3	72.5	20.6	9537.4
335	19T-179-9	5.0	92.0	103.0	67.4	70.4	19.6	9531.2
214	19T-140-20	5.0	86.0	105.0	69.5	73.6	26.4	9516.8
388	19T-074-25	5.0	83.0	109.0	66.6	71.4	20.6	9504.8
282	19T-177-CL-41	5.0	85.0	88.0	60.7	68.8	24.2	9503.9
38	19T-030-44	5.0	89.0	90.0	71.2	74.3	13.4	9502.9
285	19T-184-CL-1	5.0	84.0	101.0	65.8	69.7	26.7	9499.6
182	19T-140-15	5.0	82.0	110.0	62.6	69.9	24.8	9498.4
80	19T-041-16	5.0	89.0	94.0	66.4	71.6	18.3	9495.5
243	19T-176-CL-55	5.0	86.0	98.0	64.3	68.2	16.4	9492.8
393	19T-175-CL-10	7.0	85.0	101.0	68.0	71.3	12.9	9491.0
286	19T-184-CL-3	5.0	85.0	98.0	66.4	69.2	15.4	9478.2
162	19T-055-19	5.0	84.0	104.0	68.5	73.6	24.9	9470.3
48	19T-030-70	5.0	85.0	109.0	70.8	75.1	22.5	9463.3
160	19T-055-92	5.0	86.0	103.0	69.4	74.2	29.5	9462.2
309	19T-184-CL-81	5.0	83.0	101.0	67.6	70.7	18.6	9461.6
129	19T-046-80	5.0	86.0	98.0	67.3	71.6	25.6	9461.3
319	19T-179-46	5.0	86.0	97.0	67.8	71.3	25.7	9461.3
337	19T-179-17	5.0	89.0	110.0	66.9	71.8	24.3	9451.7
366	19T-183-CL-29	5.0	81.0	88.0	63.4	67.4	25.6	9440.6

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
297	19T-184-CL-72	7.0	87.0	105.0	65.3	68.3	24.5	9438.7
210	19T-140-94	5.0	83.0	114.0	59.0	69.7	23.8	9424.0
11	19T-028-64	5.0	83.0	104.0	65.2	72.3	29.2	9415.9
83	19T-041-79	5.0	89.0	95.0	69.9	73.6	24.3	9413.0
288	19T-184-CL-15	5.0	86.0	103.0	64.2	69.0	26.9	9410.9
306	19T-184-CL-37	5.0	83.0	99.0	65.9	69.0	19.7	9410.5
135	19T-048-27	5.0	85.0	107.0	66.9	72.3	23.5	9401.3
191	19T-140-48	5.0	84.0	104.0	65.5	72.3	28.6	9400.2
177	19T-140-3	3.0	84.0	106.0	60.5	69.8	24.9	9386.2
314	19T-179-25	5.0	85.0	109.0	65.5	69.9	20.4	9360.6
42	19T-030-53	5.0	81.0	101.0	66.3	72.1	27.4	9358.9
2	19T-028-7	5.0	85.0	103.0	69.3	74.3	28.7	9356.7
110	19T-046-11	5.0	85.0	105.0	66.3	72.4	25.2	9356.4
159	19T-055-90	5.0	87.0	102.0	71.3	75.3	17.8	9354.5
343	19T-179-34	5.0	93.0	97.0	66.9	70.5	23.8	9338.1
376	19T-183-CL-17	7.0	87.0	100.0	67.7	71.5	24.8	9327.2
95	19T-046-15	5.0	87.0	97.0	67.7	72.0	21.8	9319.8
54	19T-030-25	5.0	82.0	97.0	68.8	73.5	20.5	9319.7
323	19T-179-11	7.0	87.0	97.0	66.4	70.5	22.9	9311.9
220	19T-140-51	5.0	85.0	117.0	63.7	71.9	21.9	9276.4
165	19T-092-36	5.0	83.0	96.0	68.6	72.8	14.0	9272.2
339	19T-179-26	5.0	89.0	96.0	65.5	69.3	22.6	9272.2
280	19T-177-CL-37	5.0	87.0	100.0	66.2	70.4	17.2	9271.1
385	19T-074-6	5.0	90.0	104.0	69.0	72.0	18.7	9255.5
107	19T-046-3	7.0	88.0	95.0	69.0	73.2	23.1	9189.0
97	19T-046-18	5.0	85.0	93.0	64.1	69.3	19.5	9180.8
398	19T-175-CL-36	5.0	85.0	86.0	66.3	70.1	21.8	9146.6
93	19T-046-2	5.0	89.0	106.0	69.8	74.6	23.6	9085.7
391	19T-175-CL-7	5.0	84.0	105.0	67.9	71.0	16.5	9073.5
294	19T-184-CL-62	5.0	83.0	102.0	62.3	68.3	30.7	9069.7
13	19T-028-82	5.0	82.0	88.0	66.5	72.6	21.8	9066.7
8	19T-028-57	5.0	84.0	93.0	66.8	72.4	28.6	9044.0
98	19T-046-30	5.0	93.0	101.0	67.1	71.6	22.3	9025.7
137	19T-048-88	5.0	84.0	104.0	64.9	72.5	23.5	9024.4
197	19T-140-65	5.0	83.0	108.0	66.0	71.7	30.1	9019.7
91	19T-042-35	5.0	88.0	101.0	66.6	71.7	19.5	9005.5
155	19T-055-73	5.0	87.0	106.0	62.7	69.9	21.6	8986.5
96	19T-046-17	5.0	87.0	105.0	69.0	73.9	25.1	8946.8
82	19T-041-69	5.0	95.0	109.0	70.4	73.9	19.3	8942.3
389	19T-074-29	5.0	85.0	106.0	67.4	71.0	15.8	8941.1
307	19T-184-CL-38	5.0	81.0	105.0	60.9	67.7	20.4	8933.4
249	19T-176-CL-14	7.0	84.0	94.0	67.8	71.5	16.7	8927.0
44	19T-030-55	7.0	83.0	106.0	62.2	69.0	26.2	8916.3
387	19T-074-24	5.0	84.0	104.0	64.5	69.2	17.4	8913.4

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
126	19T-046-74	5.0	91.0	101.0	71.1	75.4	26.2	8911.9
43	19T-030-54	5.0	84.0	109.0	63.1	69.7	30.4	8900.8
117	19T-046-48	5.0	87.0	96.0	70.0	74.0	25.2	8888.9
7	19T-028-42	5.0	82.0	95.0	65.7	72.0	33.6	8859.6
79	19T-033-81	5.0	84.0	104.0	59.1	69.2	33.9	8853.0
308	19T-184-CL-60	5.0	80.0	99.0	65.8	69.5	21.6	8839.2
23	19T-030-17	5.0	84.0	108.0	69.1	73.6	30.2	8827.7
257	19T-176-CL-62	5.0	84.0	98.0	65.5	69.6	12.7	8801.3
348	19T-183-CL-8	5.0	85.0	101.0	63.6	69.1	29.8	8795.6
293	19T-184-CL-59	5.0	87.0	107.0	68.5	71.2	20.4	8791.6
111	19T-046-12	5.0	87.0	103.0	70.4	74.1	22.0	8790.2
384	19T-074-21	5.0	83.0	100.0	67.3	71.9	20.6	8766.4
397	19T-175-CL-34	5.0	83.0	93.0	68.1	71.3	14.1	8721.1
118	19T-046-56	5.0	89.0	101.0	69.1	72.9	22.8	8715.8
241	19T-176-CL-32	7.0	83.0	92.0	66.3	70.6	13.3	8701.0
103	19T-046-69	5.0	86.0	96.0	66.3	71.2	19.6	8648.9
151	19T-055-30	5.0	83.0	100.0	65.3	73.3	31.1	8642.9
134	19T-048-10	5.0	89.0	107.0	68.0	72.2	18.9	8619.9
29	19T-030-32	5.0	84.0	107.0	68.2	73.7	21.7	8608.6
233	19T-176-CL-2	5.0	84.0	102.0	67.2	71.4	13.8	8585.4
254	19T-176-CL-52	5.0	84.0	91.0	64.2	69.7	15.3	8562.3
127	19T-046-76	3.0	84.0	95.0	66.8	71.6	21.4	8554.4
349	19T-183-CL-14	7.0	82.0	99.0	65.3	69.9	31.2	8431.6
62	19T-030-73	5.0	83.0	100.0	65.0	69.4	18.1	8415.6
143	19T-053-70	5.0	84.0	103.0	68.0	74.3	24.1	8384.0
344	19T-179-39	5.0	88.0	95.0	67.5	71.4	21.6	8347.8
9	19T-028-59	5.0	85.0	95.0	68.1	73.8	29.2	8340.0
94	19T-046-10	5.0	88.0	100.0	63.9	69.2	21.2	8278.4
295	19T-184-CL-64	5.0	88.0	102.0	67.6	70.1	16.9	8274.8
265	19T-176-CL-82	5.0	84.0	103.0	67.2	71.1	17.5	8265.7
281	19T-177-CL-38	5.0	89.0	109.0	66.9	70.8	17.8	8248.6
234	19T-176-CL-7	7.0	86.0	100.0	65.1	68.8	13.2	8041.8
138	19T-053-3	5.0	85.0	104.0	66.9	73.5	14.9	8036.4
141	19T-053-33	5.0	85.0	104.0	67.9	73.8	22.6	8016.5
404	CLL17	5.0	88.3	101.3	64.8	70.2	19.5	8013.6
378	19T-183-CL-23	5.0	84.0	103.0	63.9	69.3	27.4	7967.9
106	19T-046-86	5.0	91.0	111.0	67.2	72.2	18.4	7904.4
296	19T-184-CL-71	7.0	85.0	89.0	65.8	69.5	29.4	7899.3
175	19T-134-CL-61	5.0	89.0	107.0	69.7	74.7	19.0	7882.9
301	19T-184-CL-11	5.0	84.0	94.0	64.5	69.1	16.0	7882.3
315	19T-179-36	7.0	87.0	98.0	64.7	68.0	18.3	7725.8
350	19T-183-CL-18	7.0	83.0	94.0	63.8	70.6	42.3	7719.9
383	19T-183-CL-46	5.0	82.0	88.0	63.2	69.7	34.2	7719.5
256	19T-176-CL-58	5.0	85.0	100.0	64.1	68.5	14.0	7656.1

Continued.

Table 3. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
140	19T-053-26	5.0	84.0	101.0	67.6	73.6	19.0	7557.6
311	19T-179-4	7.0	89.0	97.0	66.1	69.6	26.8	7126.5
122	19T-046-64	9.0	85.0	104.0	67.6	72.3	20.0	7120.1
318	19T-179-44	7.0	89.0	90.0	67.6	71.0	23.3	7092.5
145	19T-055-5	5.0	84.0	104.0	67.2	72.4	20.2	7079.2
334	19T-179-7	7.0	93.0	95.0	65.6	69.7	25.1	6981.0
359	19T-183-CL-48	7.0	83.0	95.0	64.2	70.1	28.8	5927.0
115	19T-046-38	9.0	85.0	100.0	68.5	73.2	21.1	5810.0
142	19T-053-61	5.0	83.0	101.0	62.5	73.0	18.6	5544.3
227	19T-141-CL-40	9.0	90.0					na

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 4. Grain and milling yields and agronomic performance of entries in the 2022 Whole Genome Prediction trial – Clearfield – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
25	19T-030-24	3.0	70.0	111.0	61.8	69.5	22.1	9731.2
77	19T-033-66	3.0	68.0	103.0	64.3	70.4	24.5	9607.0
70	19T-033-31	3.0	70.0	108.0	61.4	69.0	19.6	9515.6
78	19T-033-77	3.0	71.0	107.0	63.9	70.9	18.4	9490.9
139	19T-053-13	5.0	72.0	107.0	64.4	71.0	14.8	9441.5
50	19T-030-74	3.0	71.0	104.0	64.3	70.5	19.7	9441.0
406	RU1902026	3.0	71.0	98.0	63.7	70.9	25.4	9420.8
197	19T-140-65	5.0	71.0	111.0	63.9	70.3	23.5	9411.1
32	19T-030-36	5.0	69.0	102.0	64.8	71.1	22.3	9399.5
73	19T-033-38	3.0	74.0	106.0	61.3	69.5	20.8	9373.6
201	19T-140-74	5.0	65.0	100.0	65.6	71.6	20.3	9365.2
203	19T-140-79	5.0	67.0	107.0	65.8	71.8	25.5	9358.9
58	19T-030-58	3.0	69.0	107.0	63.0	68.5	13.2	9358.6
366	19T-183-CL-29	7.0	70.0	98.0	61.1	67.5	15.0	9288.5
74	19T-033-40	5.0	69.0	106.0	65.0	71.3	25.8	9237.5
76	19T-033-63	3.0	74.0	101.0	63.6	71.1	19.2	9233.2
41	19T-030-50	3.0	76.0	101.0	65.1	71.3	17.9	9231.1
145	19T-055-5	5.0	66.0	108.0	63.8	70.6	15.3	9191.6
61	19T-030-63	5.0	69.0	106.0	62.1	69.8	21.6	9184.6
22	19T-030-14	5.0	73.0	105.0	63.8	70.1	22.7	9146.4
154	19T-055-39	3.0	73.0	100.0	66.5	72.4	17.0	9133.9
17	19T-029-48	5.0	68.0	108.0	66.2	71.3	17.8	9129.3
71	19T-033-32	3.0	72.0	106.0	60.5	68.5	12.6	9126.7
15	19T-029-24	5.0	68.0	100.0	67.1	72.1	19.8	9126.4
370	19T-183-CL-45	3.0	66.0	93.0	58.0	66.5	21.0	9108.9
21	19T-030-13	5.0	72.0	101.0	66.4	72.3	17.2	9103.3
357	19T-183-CL-44	5.0	72.0	105.0	56.4	66.7	21.9	9048.0
169	19T-106-CL-57	5.0	75.0	110.0	62.5	70.0	18.4	9039.6
146	19T-055-16	5.0	72.0	101.0	63.7	70.5	17.0	9024.9
210	19T-140-94	3.0	67.0	101.0	65.9	71.6	21.9	9001.9
75	19T-033-49	5.0	75.0	104.0	63.0	70.5	16.0	8992.9
303	19T-184-CL-14	7.0	72.0	105.0	55.4	64.0	16.2	8990.8
199	19T-140-69	5.0	66.0	107.0	63.5	70.2	19.4	8984.3
269	19T-176-CL-93	5.0	75.0	111.0	59.9	66.9	13.9	8984.3
2	19T-028-7	5.0	74.0	102.0	65.3	71.5	18.6	8982.7
213	19T-140-14	5.0	69.0	112.0	64.4	70.1	19.5	8979.2
180	19T-140-7	5.0	71.0	112.0	63.2	70.3	27.2	8968.3
16	19T-029-33	5.0	73.0	99.0	66.1	71.1	19.9	8937.4
72	19T-033-35	5.0	73.0	109.0	61.9	69.9	17.1	8924.1
403	CLL16	5.0	77.0	111.0	54.5	66.4	14.1	8921.5
176	19T-140-1	5.0	73.0	105.0	64.1	70.6	24.6	8905.2
363	19T-183-CL-13	5.0	77.0	98.0	61.2	68.1	9.9	8878.6
37	19T-030-43	3.0	71.0	97.0	65.4	70.9	18.0	8874.2

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
181	19T-140-11	5.0	69.0	105.0	64.0	70.4	19.1	8872.8
54	19T-030-25	3.0	68.0	105.0	64.7	70.5	15.4	8870.8
136	19T-048-35	3.0	79.0	114.0	60.7	69.0	24.7	8870.4
152	19T-055-33	3.0	75.0	99.0	64.3	69.5	16.0	8846.1
27	19T-030-27	5.0	68.0	101.0	63.9	70.9	20.9	8843.8
12	19T-028-76	5.0	72.0	108.0	65.5	72.0	23.5	8837.8
351	19T-183-CL-25	5.0	76.0	95.0	61.5	68.6	22.3	8835.8
167	19T-106-CL-7	5.0	70.0	105.0	63.4	70.3	14.8	8834.4
137	19T-048-88	3.0	72.0	104.0	60.4	68.8	16.9	8825.6
57	19T-030-57	5.0	68.0	111.0	64.5	70.6	16.7	8824.2
10	19T-028-62	5.0	73.0	104.0	66.3	72.0	15.0	8815.2
4	19T-028-17	3.0	74.0	105.0	60.9	69.3	15.4	8814.0
365	19T-183-CL-21	7.0	71.0	100.0	60.5	67.6	13.3	8799.9
249	19T-176-CL-14	5.0	77.0	103.0	55.5	64.8	17.7	8786.1
46	19T-030-66	5.0	70.0	94.0	65.3	68.4	19.0	8780.3
179	19T-140-6	5.0	73.0	101.0	64.7	70.3	15.5	8744.1
53	19T-030-92	5.0	68.0	107.0	63.3	69.1	18.6	8724.4
49	19T-030-71	5.0	76.0	105.0	64.0	69.1	16.5	8707.0
383	19T-183-CL-46	3.0	68.0	104.0	60.6	66.8	24.5	8693.4
170	19T-106-CL-71	5.0	72.0	98.0	63.4	71.3	17.6	8680.6
14	19T-029-4	5.0	73.0	109.0	63.7	70.0	15.4	8669.3
65	19T-030-86	5.0	74.0	110.0	64.1	70.6	21.7	8669.3
155	19T-055-73	5.0	72.0	107.0	64.6	71.3	18.3	8667.7
284	19T-177-CL-82	5.0	75.0	115.0	58.4	67.4	12.5	8667.7
375	19T-183-CL-16	3.0	71.0	96.0	60.2	67.6	21.1	8664.5
216	19T-140-29	7.0	68.0	98.0	65.0	71.6	23.1	8646.5
312	19T-179-8	5.0	80.0	94.0	59.6	67.4	22.9	8645.5
159	19T-055-90	3.0	73.0	107.0	65.5	71.8	13.7	8644.9
48	19T-030-70	5.0	72.0	107.0	60.8	68.8	18.1	8638.3
30	19T-030-33	3.0	73.0	93.0	64.0	70.7	16.9	8632.9
69	19T-033-9	5.0	76.0	109.0	60.7	69.5	13.5	8629.7
187	19T-140-38	5.0	77.0	107.0	63.1	69.9	16.7	8626.9
373	19T-183-CL-11	5.0	72.0	92.0	59.6	67.9	22.9	8604.7
263	19T-176-CL-76	3.0	75.0	111.0	60.2	68.5	12.4	8601.3
172	19T-106-CL-81	5.0	76.0	102.0	64.6	71.1	14.0	8597.5
31	19T-030-35	5.0	68.0	110.0	61.3	68.7	24.2	8585.5
346	19T-183-CL-4	3.0	73.0	108.0	60.0	67.1	16.9	8581.3
85	19T-042-2	3.0	76.0	114.0	61.1	68.4	26.9	8579.1
55	19T-030-29	5.0	75.0	117.0	61.7	68.4	16.4	8577.7
219	19T-140-50	5.0	68.0	115.0	63.6	70.4	23.7	8571.7
231	19T-141-CL-91	5.0	69.0	95.0	62.2	70.8	16.2	8565.7
267	19T-176-CL-88	3.0	76.0	111.0	57.2	65.8	11.9	8557.4
39	19T-030-46	5.0	69.0	101.0	62.1	69.0	14.5	8554.9
218	19T-140-44	3.0	71.0	110.0	63.2	69.8	16.2	8554.3

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
205	19T-140-85	5.0	72.0	108.0	61.7	68.6	14.8	8544.9
245	19T-176-CL-69	5.0	76.0	102.0	56.5	66.1	13.6	8539.3
188	19T-140-40	5.0	72.0	110.0	57.7	70.0		8536.8
362	19T-183-CL-10	5.0	74.0	98.0	60.3	67.8	11.5	8535.4
128	19T-046-78	7.0	70.0	94.0	62.4	69.0	20.9	8523.1
364	19T-183-CL-15	5.0	70.0	94.0	59.8	66.7	24.9	8519.8
206	19T-140-86	3.0	70.0	101.0	63.9	70.4	18.6	8511.2
158	19T-055-89	3.0	70.0	104.0	64.4	70.8	15.4	8510.0
86	19T-042-6	5.0	76.0	110.0	61.2	68.2	26.6	8509.0
149	19T-055-22	5.0	70.0	94.0	64.2	72.0	23.6	8500.1
40	19T-030-48	3.0	73.0	111.0	61.5	69.5	19.4	8494.4
374	19T-183-CL-12	7.0	76.0	104.0	55.0	64.7	26.2	8487.3
193	19T-140-55	5.0	78.0	108.0	61.9	68.8	15.6	8485.6
113	19T-046-26	5.0	66.0	90.0	64.0	70.1	20.1	8483.0
47	19T-030-67	5.0	80.0	107.0	59.6		22.7	8471.9
212	19T-140-12	5.0	77.0	120.0	60.2	68.2	20.4	8471.1
29	19T-030-32	5.0	71.0	108.0	64.0	70.0	15.5	8464.1
87	19T-042-12	3.0	75.0	114.0	62.6	69.8	23.4	8457.6
23	19T-030-17	3.0	74.0	112.0	60.9	67.5	22.0	8455.8
319	19T-179-46	5.0	80.0	114.0	57.1	65.4	22.2	8430.9
196	19T-140-62	7.0	72.0	105.0	62.4	70.2	25.7	8427.1
19	19T-030-5	3.0	73.0	101.0	65.2	70.7	13.8	8424.0
156	19T-055-76	5.0	75.0	92.0	62.6	69.5	23.9	8421.5
144	19T-053-83	5.0	69.0	113.0	63.3	69.9	16.3	8412.8
348	19T-183-CL-8	5.0	76.0	99.0	58.7	66.8	19.3	8408.7
262	19T-176-CL-74	3.0	76.0	105.0	57.8	66.8	14.0	8406.8
43	19T-030-54	3.0	67.0	114.0	63.8	69.8	25.8	8405.0
45	19T-030-65	5.0	68.0	104.0	65.2	71.4	22.6	8398.8
226	19T-141-CL-9	5.0	73.0	114.0	61.7	69.4	15.9	8397.3
355	19T-183-CL-38	3.0	73.0	99.0	58.9	66.9	22.4	8389.1
126	19T-046-74	3.0	71.0	99.0	61.0	67.9	18.8	8382.6
64	19T-030-81	5.0	70.0	113.0	65.3	70.1	17.0	8380.4
392	19T-175-CL-9	3.0	70.0	105.0	54.4	63.9	18.5	8379.4
297	19T-184-CL-72	5.0	76.0	110.0	56.2	64.7	22.7	8376.1
241	19T-176-CL-32	5.0	75.0	100.0	57.0	67.2	12.6	8375.9
89	19T-042-26	5.0	76.0	110.0	58.1	66.5	21.4	8375.1
44	19T-030-55	3.0	69.0	100.0	60.4	68.5	25.7	8372.8
59	19T-030-59	5.0	72.0	108.0	62.1	69.9	23.4	8371.8
182	19T-140-15	5.0	66.0	108.0	62.0	69.9	20.7	8362.2
253	19T-176-CL-46	5.0	76.0	120.0	57.5	66.8	10.5	8362.2
292	19T-184-CL-52	7.0	75.0	119.0	59.3	65.9	15.0	8359.7
296	19T-184-CL-71	5.0	73.0	103.0	56.9	65.3	14.5	8359.1
161	19T-055-93	5.0	73.0	95.0	64.3	71.2	16.3	8355.1
208	19T-140-92	7.0	72.0	106.0	63.9	70.6	16.1	8352.1

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
90	19T-042-27	5.0	71.0	114.0	60.8	68.2	29.1	8340.1
356	19T-183-CL-41	7.0	70.0	110.0	56.9	66.9	18.9	8337.7
177	19T-140-3	5.0	74.0	105.0	62.8	69.8	20.9	8333.9
194	19T-140-59	5.0	67.0	109.0	64.0	70.5	16.3	8329.8
204	19T-140-83	5.0	71.0	108.0	63.6	69.9	21.1	8324.1
215	19T-140-21	5.0	68.0	111.0	61.9	68.8	18.5	8320.9
68	19T-032-15	5.0	75.0	111.0	65.6	71.0	19.9	8320.2
36	19T-030-42	5.0	74.0	104.0	61.3	69.1	16.0	8316.5
18	19T-030-3	3.0	69.0	111.0	62.4	69.5	17.0	8312.0
404	CLL17	3.0	69.0	102.0	61.8	68.9	20.5	8307.4
265	19T-176-CL-82	3.0	75.0	109.0	55.9	67.4	10.6	8303.5
247	19T-176-CL-89	3.0	75.0	115.0	58.6	66.7	16.4	8299.5
235	19T-176-CL-8	5.0	78.0	110.0	54.8	66.3	18.2	8295.1
311	19T-179-4	7.0	81.0	117.0	52.9	60.8	31.2	8290.8
224	19T-140-75	5.0	77.0	111.0	61.4	69.3	19.2	8275.3
174	19T-129-84	5.0	72.0	116.0	62.8	70.7	16.4	8267.9
51	19T-030-78	5.0	72.0	105.0	61.7	69.3	17.0	8266.6
189	19T-140-41	5.0	69.0	110.0	63.6	70.5	17.8	8263.6
63	19T-030-76	5.0	71.0	108.0	56.6	65.4	24.7	8259.4
289	19T-184-CL-21	5.0	76.0	112.0	58.7	65.4	16.4	8242.8
168	19T-106-CL-55	5.0	74.0	106.0	62.7	68.8	14.7	8230.4
290	19T-184-CL-31	5.0	78.0	108.0	61.5	68.0	14.7	8217.6
166	19T-092-84	5.0	70.0	111.0	63.4	70.8	17.5	8211.0
234	19T-176-CL-7	5.0	76.0	112.0	49.9	61.8	17.2	8210.0
11	19T-028-64	3.0	68.0	99.0	59.6	68.6	21.2	8208.4
192	19T-140-52	5.0	70.0	106.0	60.6	68.5	19.0	8204.8
268	19T-176-CL-90	5.0	73.0	116.0	56.8	66.3	17.1	8187.4
183	19T-140-18	5.0	67.0	109.0	62.2	69.0	18.6	8185.2
237	19T-176-CL-13	5.0	75.0	108.0	57.3	66.9	19.3	8181.9
24	19T-030-19	5.0	74.0	104.0	61.6	69.7	22.7	8172.1
283	19T-177-CL-54	5.0	80.0	109.0	50.8	62.9	24.1	8171.4
227	19T-141-CL-40	7.0	73.0	104.0	62.1	70.1	13.4	8171.3
361	19T-183-CL-6	7.0	71.0	99.0	57.6	67.5	20.0	8160.8
81	19T-041-59	5.0	76.0	107.0	61.4	68.6	14.3	8159.6
60	19T-030-60	5.0	72.0	112.0	60.8	68.8	19.2	8159.4
302	19T-184-CL-13	3.0	73.0	96.0	62.8	68.0	14.1	8151.3
368	19T-183-CL-37	5.0	73.0	101.0	54.3	64.3	16.0	8148.2
56	19T-030-45	3.0	71.0	106.0	62.7	69.1	17.1	8146.3
121	19T-046-61	5.0	73.0	100.0	64.8	70.7	18.8	8139.5
264	19T-176-CL-79	5.0	73.0	105.0	56.9	67.5	8.9	8139.3
162	19T-055-19	5.0	72.0	100.0	63.6	71.3	14.7	8125.9
225	19T-140-82	5.0	67.0	114.0	59.4	69.0	21.3	8120.8
295	19T-184-CL-64	5.0	77.0	114.0	57.6	65.1	17.4	8120.7
259	19T-176-CL-64	5.0	73.0	106.0	56.2	66.4	16.6	8119.2

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
67	19T-030-91	5.0	68.0	100.0	61.4	70.9	16.1	8116.4
402	CL153	3.0	72.0	104.0	61.4	69.6	18.3	8113.5
260	19T-176-CL-66	3.0	72.0	99.0	54.4	65.6	14.5	8113.1
26	19T-030-26	5.0	69.0	116.0	62.1	69.1	19.0	8104.5
257	19T-176-CL-62	5.0	75.0	107.0	55.4	66.3	14.1	8098.6
198	19T-140-66	5.0	70.0	110.0	59.9	68.9	20.3	8097.2
238	19T-176-CL-21	5.0	79.0	107.0	53.4	64.0	17.7	8097.2
52	19T-030-89	3.0	69.0	100.0	64.7	70.2	11.0	8091.0
96	19T-046-17	7.0	71.0	100.0	61.6	69.0	19.0	8090.4
153	19T-055-38	5.0	70.0	105.0	63.2	70.1	15.2	8087.5
221	19T-140-57	5.0	70.0	111.0	62.0	68.6	16.3	8085.3
33	19T-030-38	3.0	68.0	112.0	64.8	70.3	23.2	8076.0
396	19T-175-CL-15	7.0	73.0	107.0	56.8	65.8	17.0	8074.9
95	19T-046-15	5.0	70.0	101.0	61.8	68.5	19.3	8067.3
79	19T-033-81	3.0	70.0	102.0	57.8	67.8	34.4	8060.8
34	19T-030-39	3.0	71.0	107.0	65.4	71.2	19.9	8060.1
88	19T-042-17	3.0	73.0	113.0	57.7	66.5	19.9	8044.1
84	19T-042-44	3.0	75.0	114.0	61.5	69.1	20.8	8043.6
246	19T-176-CL-86	5.0	76.0	103.0	48.2	66.1	13.9	8039.1
228	19T-141-CL-50	7.0	73.0	101.0	58.7	70.4	13.6	8028.6
239	19T-176-CL-23	7.0	79.0	105.0	54.0	64.3	21.6	8027.5
243	19T-176-CL-55	7.0	76.0	110.0	56.7	66.1	18.7	8023.2
354	19T-183-CL-36	7.0	71.0	110.0	55.8	65.7	24.9	8021.7
151	19T-055-30	5.0	69.0	88.0	62.0	70.2	20.9	8010.4
3	19T-028-14	5.0	70.0	97.0	65.0	71.0	14.1	8008.4
171	19T-106-CL-76	5.0	75.0	105.0	61.9	69.9	16.0	8003.8
230	19T-141-CL-53	7.0	71.0	95.0	61.0	70.4	16.6	7974.3
349	19T-183-CL-14	5.0	72.0	105.0	59.6	67.1	17.4	7972.6
9	19T-028-59	3.0	73.0	99.0	63.1	70.7	25.3	7965.0
405	CLM04	5.0	80.0	108.0	59.7	66.5	11.2	7953.7
80	19T-041-16	3.0	76.0	101.0	63.8	70.5	19.0	7945.5
1	19T-028-2	3.0	70.0	96.0	63.3	69.5	14.7	7937.9
223	19T-140-68	7.0	67.0	105.0	62.7	69.7	18.9	7937.8
310	19T-179-3	5.0	80.0	104.0	51.0	63.1	28.6	7932.4
345	19T-183-CL-1	3.0	72.0	104.0	46.7	62.6	22.5	7929.8
147	19T-055-2	5.0	74.0	101.0	63.8	70.2	16.5	7924.7
28	19T-030-31	5.0	71.0	98.0	64.9	70.9	18.5	7920.5
6	19T-028-35	5.0	73.0	99.0	64.5	71.5	21.3	7916.0
360	19T-183-CL-5	5.0	75.0	105.0	56.7	65.4	16.7	7900.8
309	19T-184-CL-81	5.0	75.0	105.0	53.5	63.6	17.9	7899.8
138	19T-053-3	5.0	71.0	111.0	65.4	71.8	14.8	7893.3
13	19T-028-82	5.0	70.0	90.0	63.3	69.0	15.6	7880.3
143	19T-053-70	5.0	71.0	110.0	64.4	71.2	16.2	7878.6
150	19T-055-29	5.0	65.0	104.0	62.4	69.3	18.1	7876.9

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
140	19T-053-26	7.0	72.0	107.0	62.7	71.0	14.8	7873.4
308	19T-184-CL-60	5.0	73.0	110.0	62.0	67.8	18.1	7870.4
209	19T-140-93	5.0	77.0	113.0	61.6	69.3	18.1	7863.1
325	19T-179-20	3.0	78.0	108.0	55.3	65.0	18.6	7859.5
229	19T-141-CL-52	5.0	70.0	106.0	59.6	69.2	21.8	7854.1
105	19T-046-79	7.0	73.0	103.0	60.1	67.9	21.2	7845.0
353	19T-183-CL-33	3.0	70.0	106.0	53.9	65.5	31.6	7834.1
266	19T-176-CL-84	3.0	75.0	101.0	53.6	65.3	9.2	7833.2
42	19T-030-53	3.0	69.0	101.0	61.9	68.7	17.2	7818.1
326	19T-179-23	7.0	80.0	114.0	49.1	60.9	25.0	7812.7
35	19T-030-41	3.0	70.0	109.0	60.1	68.3	17.9	7808.5
207	19T-140-90	5.0	76.0	110.0	62.7	68.9	16.7	7797.9
350	19T-183-CL-18	5.0	72.0	109.0	52.6	64.5	36.0	7794.1
372	19T-183-CL-3	5.0	71.0	110.0	55.2	64.7	22.5	7783.0
315	19T-179-36	5.0	77.0	104.0	58.3	66.3	16.3	7775.7
122	19T-046-64	3.0	71.0	103.0	60.2	67.6	19.5	7771.4
379	19T-183-CL-24	7.0	73.0	106.0	52.8	63.8	16.3	7762.0
293	19T-184-CL-59	5.0	78.0	108.0	55.8	65.7	15.4	7746.3
134	19T-048-10	7.0	72.0	100.0	62.4	68.9	13.4	7746.2
273	19T-177-CL-35	7.0	77.0	89.0	58.1	66.8	13.9	7743.3
38	19T-030-44	3.0	76.0	98.0	62.2	69.1	11.9	7737.5
111	19T-046-12	3.0	70.0	109.0	61.4	69.1	18.6	7736.2
114	19T-046-33	5.0	68.0	97.0	59.6	67.9	17.0	7729.2
261	19T-176-CL-71	5.0	75.0	95.0	57.0	67.3	11.2	7725.5
217	19T-140-30	3.0	74.0	104.0	62.5	68.9	18.7	7719.6
240	19T-176-CL-29	5.0	73.0	110.0	54.1	65.2	19.5	7692.4
251	19T-176-CL-39	7.0	76.0	114.0	52.3	63.4	19.5	7690.2
359	19T-183-CL-48	5.0	72.0	97.0	54.6	64.9	25.0	7688.0
107	19T-046-3	5.0	71.0	100.0	62.6	70.1	18.0	7675.6
236	19T-176-CL-11	5.0	79.0	104.0	50.6	63.5	20.9	7672.1
7	19T-028-42	5.0	69.0	85.0	45.5	49.2	25.8	7654.1
141	19T-053-33	5.0	69.0	114.0	63.3	70.7	22.1	7653.5
369	19T-183-CL-39	5.0	73.0	100.0	53.9	64.3	25.8	7650.0
101	19T-046-65	5.0	66.0	99.0	61.2	69.4	21.3	7638.1
288	19T-184-CL-15	5.0	76.0	105.0	52.7	62.0	23.5	7636.6
358	19T-183-CL-47	3.0	76.0	107.0	58.2	66.1	20.1	7632.8
102	19T-046-66	7.0	77.0	102.0	59.3	67.4	16.5	7632.5
305	19T-184-CL-29	3.0	76.0	102.0	58.2	66.5	14.2	7592.8
99	19T-046-35	5.0	68.0	99.0	61.4	69.9	18.5	7588.2
220	19T-140-51	5.0	72.0	119.0	57.3	68.1	17.7	7584.5
83	19T-041-79	5.0	76.0	104.0	62.6	69.7	15.0	7578.2
200	19T-140-70	3.0	72.0	101.0	60.3	69.4	18.2	7576.9
381	19T-183-CL-34	7.0	78.0	100.0	52.2	63.7	23.1	7567.1
332	19T-179-1	5.0	78.0	106.0	54.8	64.2	22.8	7560.8

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
248	19T-176-CL-10	5.0	72.0	108.0	55.5	67.1	8.5	7545.2
103	19T-046-69	7.0	69.0	89.0	64.2	70.2	14.0	7536.6
135	19T-048-27	5.0	70.0	105.0	58.9	67.9	20.3	7536.6
165	19T-092-36	5.0	71.0	93.0	64.0	70.0	9.9	7525.1
190	19T-140-47	5.0	71.0	107.0	61.8	69.1	19.2	7525.0
5	19T-028-19	5.0	71.0	95.0	65.2	71.5	19.1	7519.3
94	19T-046-10	3.0	70.0	100.0	61.0	68.9	18.1	7516.9
163	19T-092-35	7.0	72.0	103.0	60.1	69.6	15.0	7510.3
164	19T-092-5	3.0	71.0	101.0	57.9	66.6	19.2	7505.6
120	19T-046-59	5.0	72.0	108.0	61.5	68.4	17.4	7483.4
8	19T-028-57	5.0	71.0	105.0	62.1	69.1	20.6	7472.8
244	19T-176-CL-65	7.0	75.0	107.0	49.9	63.5	19.4	7472.3
82	19T-041-69	3.0	79.0	108.0	63.4	70.2	16.4	7467.4
336	19T-179-14	5.0	81.0	109.0	50.4	61.0	19.0	7463.3
195	19T-140-60	5.0	70.0	106.0	62.7	70.1	18.3	7458.2
278	19T-177-CL-8	5.0	79.0	102.0	54.0	65.2	15.1	7446.5
112	19T-046-21	5.0	70.0	94.0	61.9	68.9	14.2	7441.1
397	19T-175-CL-34	3.0	71.0	98.0	55.7	66.1	11.4	7436.0
398	19T-175-CL-36	7.0	72.0	100.0	56.6	66.2	16.0	7435.9
286	19T-184-CL-3	5.0	77.0	102.0	50.2	57.1	20.5	7434.5
395	19T-175-CL-14	5.0	72.0	110.0	52.0	64.7	14.3	7424.3
342	19T-179-32	5.0	80.0	114.0	55.4	65.3	26.6	7421.5
62	19T-030-73	5.0	68.0	108.0	62.3	67.4	16.3	7412.0
91	19T-042-35	5.0	79.0	107.0	56.6	65.9	20.4	7404.4
371	19T-183-CL-2	5.0	69.0	103.0	52.9	63.7	22.9	7404.3
129	19T-046-80	5.0	69.0	107.0	60.6	68.0	18.1	7400.8
250	19T-176-CL-26	5.0	74.0	101.0	54.0	65.4	17.0	7392.4
132	19T-046-94	5.0	75.0	105.0	60.2	67.0	16.5	7391.1
92	19T-042-88	5.0	76.0	108.0	56.6	66.5	31.5	7384.5
333	19T-179-5	5.0	80.0	89.0	51.5	63.1	23.1	7383.4
287	19T-184-CL-10	5.0	75.0	104.0	57.8	64.7	14.5	7381.6
148	19T-055-12	3.0	72.0	101.0	64.1	70.6	14.9	7369.4
108	19T-046-5	7.0	74.0	101.0	56.1	66.0	20.5	7365.7
214	19T-140-20	3.0	71.0	111.0	62.3	69.4	13.9	7361.9
301	19T-184-CL-11	5.0	75.0	102.0	62.6	67.8	9.4	7358.7
352	19T-183-CL-27	3.0	75.0	111.0	52.6	64.8	22.5	7355.1
330	19T-179-38	5.0	83.0	97.0	57.7	66.0	17.8	7348.7
173	19T-112-54	3.0	75.0	99.0	60.3	69.4	13.5	7346.7
109	19T-046-7	7.0	71.0	97.0	62.6	69.2	16.3	7343.9
258	19T-176-CL-63	3.0	78.0	110.0	47.6	63.9	19.1	7325.8
307	19T-184-CL-38	5.0	75.0	109.0	59.5	66.3	17.6	7318.0
157	19T-055-86	3.0	77.0	104.0	62.7	70.3	9.4	7314.8
104	19T-046-75	7.0	76.0	104.0	59.9	67.3	12.5	7301.6
242	19T-176-CL-36	5.0	78.0	103.0	55.3	66.0	12.2	7298.7

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
116	19T-046-41	5.0	72.0	98.0	61.0	68.4	16.2	7295.1
184	19T-140-22	5.0	71.0	101.0	60.1	69.7	13.5	7290.8
256	19T-176-CL-58	5.0	74.0	114.0	46.4	62.0	21.9	7280.4
115	19T-046-38	5.0	73.0	94.0	59.6	66.8	19.1	7277.4
376	19T-183-CL-17	5.0	76.0	98.0	54.5	65.3	20.1	7274.0
298	19T-184-CL-84	5.0	73.0	107.0	49.1	62.0	21.5	7267.4
394	19T-175-CL-13	5.0	72.0	110.0	57.5	66.2	9.6	7255.9
401	CL151	3.0	71.0	108.0	55.2	66.5	25.3	7247.4
233	19T-176-CL-2	5.0	71.0	105.0	58.6		11.1	7209.4
393	19T-175-CL-10	5.0	75.0	98.0				7194.7
270	19T-177-CL-1	7.0	76.0	110.0	48.7	63.0	20.1	7177.4
316	19T-179-41	5.0	81.0	104.0	56.3	66.0	20.3	7131.8
178	19T-140-5	5.0	76.0	111.0	60.8	69.0	13.7	7130.1
387	19T-074-24	5.0	75.0	102.0	55.2	65.4	19.7	7127.7
279	19T-177-CL-30	3.0	76.0	102.0	52.0	65.2	18.3	7121.0
282	19T-177-CL-41	5.0	75.0	98.0	50.1	63.0	21.7	7119.6
291	19T-184-CL-44	3.0	80.0	110.0	52.3	63.5	23.7	7118.5
93	19T-046-2	7.0	75.0	100.0	58.1	67.2	16.6	7084.7
125	19T-046-73	7.0	71.0	98.0	62.5	69.1	18.0	7082.9
331	19T-179-40	5.0	83.0	106.0	47.8	60.1	24.3	7079.6
347	19T-183-CL-7	5.0	71.0	100.0	52.3	64.1	24.0	7064.7
222	19T-140-61	5.0	72.0	105.0	56.3	67.6	23.2	7048.5
321	19T-179-6	7.0	78.0	105.0	50.8	63.2	24.3	7043.3
123	19T-046-70	7.0	73.0	101.0	61.9	67.4	15.4	7038.7
127	19T-046-76	7.0	71.0	108.0	57.7	66.7	17.8	7036.8
277	19T-177-CL-75	5.0	76.0	115.0	46.9	61.6	26.4	7003.3
106	19T-046-86	5.0	71.0	97.0	60.8	68.3	16.4	6997.9
119	19T-046-58	5.0	67.0	98.0	54.2	65.0	18.3	6993.7
252	19T-176-CL-43	3.0	77.0	120.0	46.0	62.9	22.0	6977.6
294	19T-184-CL-62	7.0	77.0	109.0	45.9	61.0	31.4	6962.1
328	19T-179-33	5.0	80.0	109.0	55.3	65.0	19.9	6942.3
255	19T-176-CL-53	5.0	78.0	104.0	47.6	63.4	23.3	6927.4
344	19T-179-39	5.0	79.0	109.0	50.0	62.4	27.5	6912.0
272	19T-177-CL-25	5.0	76.0	117.0	41.3	60.7	21.5	6895.2
285	19T-184-CL-1	7.0	80.0	101.0	55.3	64.9	23.5	6894.2
186	19T-140-36	3.0	75.0	106.0	60.2	69.1	12.9	6832.9
367	19T-183-CL-30	3.0	71.0	102.0	53.3	65.2	20.6	6818.5
117	19T-046-48	3.0	72.0	100.0	61.2	68.5	18.7	6806.6
377	19T-183-CL-22	5.0	75.0	99.0	49.6	63.0	23.8	6800.7
118	19T-046-56	7.0	77.0	95.0	59.4	67.5	18.8	6781.5
202	19T-140-77	7.0	74.0	101.0	60.5	68.5	11.8	6765.3
98	19T-046-30	5.0	75.0	98.0	57.5	66.8	19.3	6763.4
271	19T-177-CL-5	7.0	72.0	118.0	54.1	64.9	24.7	6757.0
317	19T-179-42	5.0	79.0	119.0	46.1	60.0	36.2	6755.4

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
130	19T-046-87	7.0	75.0	98.0	58.8	67.2	19.0	6734.7
160	19T-055-92	3.0	71.0	103.0	64.3	71.0	19.7	6734.3
254	19T-176-CL-52	5.0	74.0	99.0	53.9	65.9	18.2	6721.2
329	19T-179-37	5.0	74.0	111.0	44.9	58.0	30.1	6681.2
110	19T-046-11	5.0	66.0	96.0	54.4	65.4	21.6	6662.2
185	19T-140-28	5.0	74.0	103.0	57.1	67.9	11.2	6654.9
391	19T-175-CL-7	3.0	72.0	105.0	56.9	66.0	13.9	6635.7
340	19T-179-27	7.0	80.0	107.0	44.5	59.8	25.8	6628.2
131	19T-046-89	7.0	75.0	102.0	60.2	68.1	21.3	6602.9
384	19T-074-21	5.0	75.0	100.0	56.9	67.0	24.9	6600.1
97	19T-046-18	5.0	71.0	96.0	61.2	68.8	16.8	6578.4
322	19T-179-10	5.0	80.0	108.0	51.7	63.6	29.4	6575.5
335	19T-179-9	5.0	82.0	110.0	52.5	63.1	18.6	6560.5
314	19T-179-25	5.0	78.0	111.0	48.9	62.1	29.4	6558.4
124	19T-046-72	7.0	75.0	100.0	48.7	61.6	19.4	6552.7
320	19T-179-2	5.0	78.0	90.0	55.8	65.9	18.9	6490.0
390	19T-074-36	5.0	76.0	107.0	54.3	65.8	20.1	6477.9
133	19T-048-7	5.0	72.0	99.0	55.2	65.2	15.7	6468.5
276	19T-177-CL-72	3.0	78.0	114.0	47.2	61.8	28.5	6446.4
306	19T-184-CL-37	3.0	75.0	102.0	60.4	66.5	14.8	6445.5
389	19T-074-29	5.0	78.0	106.0	51.2	63.1	25.0	6445.3
338	19T-179-18	7.0	76.0	107.0	49.6	63.7	25.9	6378.6
280	19T-177-CL-37	5.0	78.0	116.0	43.9	61.4	20.1	6377.5
299	19T-184-CL-89	5.0	78.0	111.0	46.7	60.9	24.8	6326.8
304	19T-184-CL-19	5.0	73.0	108.0	53.4	64.1	21.8	6308.3
300	19T-184-CL-93	5.0	72.0	109.0	49.1	62.4	20.6	6295.8
327	19T-179-24	5.0	80.0	106.0	48.6	61.0	32.9	6277.6
275	19T-177-CL-66	7.0	80.0	109.0	41.6	60.1	24.7	6228.8
382	19T-183-CL-35	5.0	78.0	102.0	52.4	63.6	28.6	6208.2
339	19T-179-26	5.0	83.0	108.0	43.9	59.9	26.7	6206.4
232	19T-141-CL-93	5.0	70.0	109.0	53.2	67.1	13.8	6204.8
281	19T-177-CL-38	5.0	79.0	114.0	48.6	61.8	24.1	6200.2
100	19T-046-54	7.0	73.0	99.0	57.0	66.9	18.9	6144.7
399	19T-175-CL-41	5.0	74.0	110.0	40.1	59.7	29.5	6114.7
324	19T-179-15	3.0	77.0	107.0	48.2	62.5	28.7	6101.8
400	19T-175-CL-45	5.0	74.0	107.0	41.3	59.4	25.2	6095.5
191	19T-140-48	3.0	70.0	104.0	55.9	67.6	17.9	6086.2
343	19T-179-34	5.0		98.0	44.2	60.8	19.6	6073.2
313	19T-179-19	5.0	83.0	105.0	51.1	64.0	26.1	6072.6
323	19T-179-11	5.0	80.0	106.0	48.5	61.6	27.8	6062.2
386	19T-074-13	5.0	81.0	110.0	44.2	59.4	31.8	6024.0
385	19T-074-6	5.0	78.0	111.0	48.8	63.9	19.1	5992.0
341	19T-179-30	5.0	77.0	111.0	45.1	58.3	27.7	5906.7
378	19T-183-CL-23	7.0	73.0	92.0	43.2	60.3	36.6	5839.9

Continued.

Table 4. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
388	19T-074-25	5.0	75.0	111.0	45.2	62.9	27.6	5804.8
175	19T-134-CL-61	5.0	74.0	98.0	58.2	68.9	14.2	5798.6
334	19T-179-7	7.0	81.0	98.0	44.1	59.4	39.4	5767.3
318	19T-179-44	5.0	80.0	105.0	44.3	60.7	35.5	5724.6
274	19T-177-CL-59	5.0	78.0	112.0	47.7	64.0	22.4	5699.2
337	19T-179-17	5.0	82.0	111.0	45.8	61.3	31.3	5340.5
142	19T-053-61	5.0	70.0	107.0	55.8	67.6	20.5	4747.3
20	19T-030-10	3.0	72.0	106.0				na
66	19T-030-90	9.0	78.0	109.0				na
380	19T-183-CL-31	7.0	72.0	89.0				na

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 5. Grain and milling yields and agronomic performance of entries in the 2022 Whole Genome Prediction trial – Conventional. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
236	18T196-10	3.0	91.0	105.0	63.9	67.2	17.5	12546.2
231	19T-176-CONV-38	5.0	90.0	107.0	66.5	69.6	17.4	12172.0
187	19T-238-73	3.0	89.0	112.0	61.2	68.2	20.7	12043.9
185	19T-238-62	5.0	87.0	102.0	60.9	68.6	29.3	11971.3
81	19T-218-86	5.0	90.0	105.0	61.9	69.2	18.9	11855.5
211	19T-176-CONV-2	3.0	91.0	113.0	64.4	68.9	13.2	11792.2
213	19T-176-CONV-10	3.0	90.0	99.0	65.5	69.6	8.6	11741.0
96	19T-218-45	5.0	90.0	103.0	63.2	70.0	20.4	11685.5
210	19T-176-CONV-40	5.0	91.0	97.0	64.7	69.0	7.2	11661.1
30	19T-208-48	5.0	88.0	111.0	63.9	70.0	24.4	11593.6
114	19T-218-85	5.0	88.0	103.0	63.8	69.8	19.5	11547.4
165	19T-238-3	3.0	91.0	114.0	57.0	69.6	21.3	11525.7
64	19T-218-30	3.0	87.0	109.0	61.7	69.7	23.5	11477.9
86	19T-218-93	5.0	87.0	110.0	64.6	71.4	21.6	11264.6
58	19T-218-19	5.0	90.0	104.0	65.8	71.5	23.4	11258.7
202	19T-238-72	3.0	90.0	109.0	61.4	68.6	19.3	11193.7
195	19T-238-13	5.0	91.0	106.0	65.0	70.5	24.0	11146.2
107	19T-218-42	3.0	87.0	107.0	62.5	70.2	27.2	11101.4
79	19T-218-75	5.0	90.0	105.0	56.6	67.8	14.0	11086.1
177	19T-238-34	5.0	90.0	98.0	63.3	70.3	25.0	11083.7
247	18T196-31	5.0	92.0	107.0	64.8	68.1	12.3	11076.9
88	19T-218-12	5.0	90.0	111.0	63.2	69.8	15.5	11064.0
223	19T-176-CONV-3	3.0	89.0	102.0	65.1	68.6	9.7	11055.4
134	19T-228-34	5.0	91.0	110.0	52.9	66.1	27.3	11052.8
85	19T-218-91	5.0	89.0	110.0	60.9	70.5	18.0	11050.1
113	19T-218-81	3.0	90.0	109.0	60.8	70.1	18.6	10979.2
326	CL153	5.0	91.0	110.0	63.8	68.7	14.2	10940.4
327	CLL17	3.0	91.0	103.0	62.9	68.6	17.6	10912.6
52	19T-217-84	5.0	87.0	103.0	64.4	70.9	21.6	10888.3
201	19T-238-48	5.0	94.0	112.0	59.9	67.7	13.8	10881.0
328	CLM04	5.0	92.0	111.0	63.9	67.3	12.9	10873.4
82	19T-218-87	3.0	89.0	107.0	60.3	70.5	18.7	10838.5
45	19T-217-71	3.0	85.0	104.0	66.8	71.3	19.3	10834.4
234	19T-176-CONV-45	3.0	87.0	103.0	60.8	67.4	11.8	10827.8
68	19T-218-46	5.0	89.0	105.0	63.8	70.2	16.4	10819.1
222	19T-176-CONV-36	3.0	89.0	103.0	58.9	67.8	11.6	10802.2
72	19T-218-54	5.0	90.0	110.0	59.7	69.1	17.0	10774.3
55	19T-218-10	3.0	89.0	106.0	61.9	70.0	25.4	10749.1
291	19T-247-87	5.0	92.0	101.0	63.5	67.6	7.1	10671.3
112	19T-218-80	5.0	89.0	108.0	60.6	69.8	17.5	10622.7
44	19T-217-69	3.0	85.0	97.0	62.7	69.8	21.3	10613.4
122	19T-220-69	3.0	90.0	105.0	62.9	69.5	19.6	10532.3
33	19T-208-75	5.0	90.0	109.0	62.4	69.6	23.5	10517.1

Continued.

Table 5. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
89	19T-218-17	3.0	86.0	101.0	63.2	70.3	20.9	10505.6
95	19T-218-40	5.0	91.0	109.0	57.7	68.6	16.5	10478.3
257	18T196-15	5.0	86.0	93.0	66.1	69.2	12.7	10474.1
56	19T-218-14	3.0	90.0	99.0	60.4	69.6	21.0	10473.5
176	19T-238-33	5.0	89.0	104.0	61.0	69.9	25.0	10473.3
141	19T-228-3	5.0	91.0	117.0	61.0	68.5	14.6	10468.7
168	19T-238-7	3.0	90.0	107.0	64.6	69.8	19.1	10466.9
174	19T-238-27	3.0	90.0	123.0	59.8	68.1	13.6	10442.4
143	19T-228-6	3.0	92.0	113.0	60.1	67.9	14.2	10432.6
129	19T-228-86	3.0	89.0	105.0	58.3	67.8	18.7	10430.2
47	19T-217-88	5.0	83.0	110.0	61.9	69.6	18.4	10392.1
295	19T-247-23	3.0	90.0	97.0	61.6	67.7	17.1	10381.7
41	19T-217-39	5.0	84.0	99.0	65.0	70.7	22.4	10358.2
140	19T-228-83	3.0	92.0	108.0	57.4	68.1	21.3	10356.8
101	19T-218-84	3.0	90.0	104.0	63.7	69.7	22.0	10317.3
221	19T-176-CONV-31	5.0	87.0	105.0	64.5	69.3	10.3	10304.3
199	19T-238-43	3.0	91.0	103.0	63.7	69.9	18.5	10284.7
109	19T-218-56	5.0	86.0	116.0	60.3	69.2	24.6	10274.1
264	18T196-34	5.0	87.0	97.0	63.9	68.6	16.8	10264.6
249	18T196-37	5.0	90.0	106.0	62.5	67.6	15.3	10263.5
209	19T-176-CONV-37	5.0	86.0	107.0	64.6	68.4	9.0	10255.3
226	19T-176-CONV-19	5.0	86.0	103.0	64.5	69.2	13.2	10229.8
66	19T-218-43	5.0	90.0	104.0	61.8	69.7	20.8	10215.6
80	19T-218-76	5.0	90.0	111.0	61.5	69.2	17.6	10192.7
224	19T-176-CONV-6	5.0	91.0	105.0	65.4	68.4	9.2	10190.7
123	19T-220-81	5.0	89.0	107.0	63.9	70.3	16.9	10155.4
90	19T-218-21	5.0	90.0	103.0	60.9	69.7	17.9	10128.0
76	19T-218-65	3.0	86.0	105.0	62.1	70.6	24.6	10110.9
10	19T-198-31	5.0	90.0	104.0	51.9	65.6	23.5	10073.0
198	19T-238-40	5.0	89.0	105.0	62.5	69.1	20.1	10069.6
188	19T-238-74	3.0	90.0	107.0	56.0	68.1	17.7	10055.8
11	19T-198-35	3.0	90.0	97.0	64.9	70.2	18.4	10047.5
104	19T-218-13	5.0	89.0	101.0	63.3	70.5	26.3	10039.0
97	19T-218-55	5.0	90.0	103.0	58.3	69.2	16.1	10036.7
136	19T-228-55	5.0	88.0	116.0	58.1	68.0	27.3	10034.9
196	19T-238-14	5.0	92.0	108.0	61.9	70.1	11.8	10027.6
125	19T-220-94	3.0	89.0	93.0	60.3	68.6	23.6	10015.6
37	19T-213-4	3.0	91.0	99.0	57.5	67.9	21.1	10002.5
324	Avant	3.0	84.0	101.0	61.7	69.7	18.9	9973.1
124	19T-220-92	5.0	91.0	107.0	61.6	69.8	17.0	9971.3
181	19T-238-45	3.0	90.0	96.0	54.5	67.4	18.3	9968.2
46	19T-217-74	5.0	87.0	103.0	65.0	70.4	17.5	9963.1
191	19T-238-82	5.0	87.0	107.0	61.9	69.8	26.6	9946.9
102	19T-218-5	5.0	91.0	107.0	62.4	70.2	20.3	9928.7

Continued.

Table 5. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
208	19T-176-CONV-34	5.0	90.0	109.0	64.1	67.7	7.5	9913.7
26	19T-208-15	5.0	86.0	99.0	59.9	68.0	23.1	9897.8
194	19T-238-1	3.0	88.0	114.0	61.0	68.8	17.0	9894.4
263	18T196-33	5.0	84.0	103.0	57.2	64.1	24.3	9881.8
203	19T-238-89	5.0	87.0	104.0	59.3	68.2	17.5	9881.3
204	19T-176-CONV-1	3.0	89.0	106.0	61.1	66.5	5.6	9850.0
21	19T-207-48	5.0	89.0	110.0	57.2	66.2	20.7	9846.5
246	Addi Jo	3.0	92.0	98.0	53.1	65.9	17.3	9846.3
175	19T-238-30	3.0	92.0	106.0	65.8	70.8	12.2	9836.6
40	19T-213-67	5.0	93.0	124.0	61.0	68.5	16.3	9831.6
98	19T-218-59	3.0	86.0	102.0	58.4	67.1	24.5	9827.4
261	18T196-26	3.0	86.0	96.0	63.8	68.3	10.3	9824.9
308	19T-247-9	5.0	87.0	101.0	63.3	69.0	13.4	9798.7
31	19T-208-69	5.0	88.0	107.0	59.3	67.8	22.8	9793.8
193	19T-238-92	3.0	91.0	103.0	61.6	69.0	18.0	9792.0
20	19T-207-44	5.0	88.0	105.0	58.0	67.7	17.2	9791.3
205	19T-176-CONV-7	3.0	90.0	100.0	61.2	66.5	10.1	9787.2
59	19T-218-24	5.0	88.0	108.0	61.6	69.5	19.3	9772.1
71	19T-218-49	5.0	89.0	105.0	60.1	70.5	9.0	9765.4
69	19T-218-47	3.0	87.0	105.0	64.6	71.7	19.4	9757.5
108	19T-218-50	5.0	88.0	105.0	56.8	67.8	21.4	9741.5
267	Mermentau	5.0	89.0	97.0	65.5	70.7	25.8	9737.9
197	19T-238-20	5.0	91.0	103.0	60.0	68.8	19.6	9682.4
219	19T-176-CONV-25	3.0	89.0	108.0	63.0	67.2	8.9	9657.4
119	19T-220-31	3.0	90.0	102.0	62.2	69.8	18.7	9651.9
186	19T-238-69	5.0	93.0	109.0	61.6	68.4	13.7	9651.9
70	19T-218-48	5.0	88.0	107.0	61.5	70.5	14.4	9637.9
218	19T-176-CONV-24	3.0	92.0	101.0	64.4	68.6	9.9	9626.0
266	18T196-39	3.0	84.0	110.0	64.2	67.6	13.7	9612.3
83	19T-218-89	5.0	90.0	107.0	64.5	71.1	17.2	9610.8
22	19T-207-85	5.0	89.0	107.0	58.7	68.7	14.8	9597.3
15	19T-207-3	5.0	87.0	105.0	58.7	67.6	24.9	9564.3
305	19T-247-1	3.0	89.0	99.0	59.8	66.5	16.1	9548.3
131	19T-228-7	3.0	93.0	105.0	53.1	66.9	20.3	9547.0
227	19T-176-CONV-22	5.0	86.0	97.0	62.0	68.8	13.5	9543.5
259	18T196-19	3.0	86.0	96.0	62.4	66.7	17.6	9542.0
229	19T-176-CONV-30	3.0	86.0	94.0	61.1	67.9	15.0	9540.1
50	19T-217-56	5.0	88.0	99.0	63.4	70.6	20.6	9535.2
169	19T-238-10	5.0	89.0	97.0	62.1	69.9	13.5	9529.2
29	19T-208-38	5.0	88.0	110.0	58.6	67.9	22.0	9524.6
74	19T-218-62	3.0	87.0	110.0	56.3	68.6	20.7	9520.4
329	DG263L	3.0	89.0	95.0	56.0	65.4	17.0	9520.4
144	19T-228-33	5.0	87.0	108.0	58.0	67.9	20.8	9513.9
172	19T-238-21	5.0	90.0	108.0	61.6	69.8	15.8	9506.0

Continued.

Table 5. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
77	19T-218-67	5.0	91.0	103.0	58.5	69.5	16.0	9505.9
220	19T-176-CONV-28	5.0	85.0	100.0	65.4	69.2	12.6	9495.2
118	19T-220-7	3.0	91.0	107.0	62.3	69.4	18.6	9451.0
87	19T-218-94	5.0	91.0	109.0	62.9	70.9	17.9	9445.5
256	18T196-12	3.0	86.0	95.0	62.8	66.5	17.4	9420.9
239	18T196-24	5.0	91.0	97.0	64.2	67.6	8.4	9393.5
110	19T-218-69	3.0	86.0	108.0	55.6	68.2	19.8	9384.9
73	19T-218-57	5.0	89.0	111.0	55.5	67.8	14.3	9381.0
145	19T-228-35	5.0	88.0	108.0	56.4	67.1	26.6	9378.3
57	19T-218-18	5.0	88.0	108.0	57.4	68.2	17.1	9366.5
253	18T196-6	5.0	86.0	89.0	60.0	67.1	11.4	9365.3
62	19T-218-27	5.0	91.0	100.0	56.9	69.4	14.2	9359.3
156	19T-237-51	5.0	92.0	108.0	58.5	66.1	15.0	9343.5
63	19T-218-28	5.0	89.0	105.0	57.7	68.4	15.1	9339.1
49	19T-217-13	3.0	84.0	101.0	58.6	68.2	19.7	9336.9
179	19T-238-39	3.0	91.0	107.0	60.2	69.2	14.8	9333.5
38	19T-213-20	5.0	90.0	109.0	61.6	70.5	23.1	9308.4
65	19T-218-34	5.0	88.0	114.0	60.3	70.6	25.3	9303.9
24	19T-208-11	5.0	87.0	113.0	59.6	68.3	22.9	9301.5
127	19T-228-43	3.0	89.0	112.0	60.6	69.1	19.3	9291.3
235	19T-176-CONV-46	3.0	91.0	107.0	64.8	68.4	5.1	9274.0
217	19T-176-CONV-18	3.0	84.0	97.0	61.8	66.3	12.9	9265.8
303	19T-247-88	3.0	90.0	93.0	60.4	67.4	12.8	9261.4
171	19T-238-12	3.0	86.0	112.0	56.9	67.9	17.6	9258.7
271	19T-247-13	5.0	92.0	93.0	61.0	66.6	10.6	9257.1
157	19T-237-55	5.0	91.0	102.0	55.8	66.5	21.2	9252.0
189	19T-238-75	5.0	90.0	113.0	64.4	69.9	14.2	9252.0
276	19T-247-29	3.0	89.0	99.0	56.6	65.9	10.1	9241.7
27	19T-208-25	5.0	88.0	99.0	59.7	68.0	21.3	9240.2
100	19T-218-79	5.0	89.0	95.0	50.9	67.4	17.5	9233.2
274	19T-247-26	5.0	90.0	102.0	57.7	68.4	12.2	9230.4
325	Cheniere	3.6	91.0	100.1	65.9	72.3	12.2	9228.8
158	19T-237-69	3.0	87.0	95.0	63.0	69.0	13.0	9213.4
216	19T-176-CONV-17	3.0	84.0	101.0	60.8	66.1	12.4	9211.0
16	19T-207-12	5.0	87.0	104.0	55.7	67.6	22.4	9205.6
265	18T196-36	5.0	90.0	89.0	62.3	67.4	20.7	9192.2
94	19T-218-39	5.0	89.0	105.0	61.7	70.7	17.1	9191.2
149	19T-237-12	5.0	90.0	115.0	63.3	69.1	15.1	9155.6
93	19T-218-38	5.0	90.0	109.0	57.7	70.5	16.4	9153.4
301	19T-247-72	3.0	92.0	98.0	62.8	67.4	16.2	9152.5
173	19T-238-22	5.0	91.0	114.0	64.0	70.5	15.0	9140.9
43	19T-217-65	5.0	89.0	109.0	61.1	69.5	22.8	9125.1
91	19T-218-22	5.0	89.0	106.0	59.7	70.0	17.8	9104.2
215	19T-176-CONV-16	5.0	86.0	96.0	63.8	67.6	11.1	9099.4

Continued.

Table 5. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
23	19T-207-93	3.0	88.0	104.0	59.6	68.0	20.9	9087.4
192	19T-238-85	5.0	90.0	99.0	63.8	71.2	23.0	9087.4
243	18T196-3	5.0	91.0	99.0	65.5	69.0	17.1	9078.3
84	19T-218-90	5.0	85.0	108.0	53.5	68.4	19.9	9071.2
183	19T-238-49	5.0	92.0	116.0	59.9	69.1	11.0	9060.2
121	19T-220-67	5.0	88.0	96.0	62.1	69.4	15.1	9048.0
139	19T-228-79	5.0	93.0	119.0	59.2	66.6	17.3	9041.2
166	19T-238-4	5.0	90.0	99.0	61.2	68.3	18.6	9035.6
133	19T-228-31	5.0	84.0	103.0	56.0	66.4	23.4	9000.4
17	19T-207-20	5.0	87.0	106.0	59.1	67.5	26.6	8987.2
106	19T-218-36	5.0	87.0	103.0	55.1	69.7	18.7	8957.8
182	19T-238-47	3.0	89.0	98.0	61.7	69.4	16.2	8937.0
53	19T-218-1	5.0	91.0	106.0	61.2	69.5	15.9	8936.5
184	19T-238-55	5.0	88.0	105.0	60.6	68.1	14.6	8934.6
7	19T-198-81	5.0	89.0	125.0	59.6	68.3	17.0	8931.0
200	19T-238-44	5.0	90.0	101.0	63.0	70.6	11.3	8929.9
190	19T-238-76	5.0	91.0	101.0	64.8	71.2	17.0	8909.8
18	19T-207-23	5.0	88.0	103.0	60.4	69.2	22.4	8880.0
117	19T-220-3	5.0	89.0	100.0	62.1	70.3	21.0	8878.2
155	19T-237-42	5.0	91.0	110.0	62.0	68.4	17.6	8873.4
128	19T-228-77	5.0	90.0	115.0	61.3	68.6	14.0	8867.6
34	19T-208-84	5.0	90.0	99.0	61.7	68.6	17.9	8855.3
170	19T-238-11	5.0	90.0	104.0	64.5	70.7	17.4	8853.5
160	19T-237-76	5.0	90.0	103.0	58.9	69.4	15.5	8851.2
162	19T-237-17	3.0	91.0	111.0	60.6	67.3	11.6	8843.3
105	19T-218-32	3.0	87.0	105.0	57.7	68.2	21.8	8833.2
75	19T-218-64	5.0	86.0	105.0	56.9	69.1	20.8	8832.1
39	19T-213-44	5.0	92.0	103.0	56.2	67.4	24.0	8794.1
3	19T-198-15	3.0	83.0	116.0	57.3	68.9	20.5	8774.1
146	19T-228-63	3.0	83.0	111.0	54.6	67.7	34.8	8762.3
302	19T-247-80	5.0	91.0	100.0	61.8	67.2	17.5	8758.7
111	19T-218-71	5.0	88.0	99.0	57.6	69.8	21.8	8740.1
232	19T-176-CONV-41	3.0	86.0	88.0	61.3	66.9	8.4	8734.3
2	19T-198-14	3.0	91.0	100.0	60.2	68.5	21.2	8731.2
35	19T-208-91	5.0	88.0	102.0	60.1	68.5	22.3	8730.4
258	18T196-18	5.0	84.0	89.0	59.8	65.5	14.7	8727.5
282	19T-247-43	3.0	91.0	92.0	59.9	66.8	14.3	8719.4
116	19T-220-36	5.0	93.0	112.0	65.4	70.1	14.5	8702.2
126	19T-228-40	5.0	84.0	97.0	51.7	66.3	22.5	8700.3
298	19T-247-45	5.0	92.0	97.0	63.6	68.2	19.9	8689.2
150	19T-237-20	5.0	89.0	111.0	59.0	66.3	13.3	8687.3
268	19T-247-2	5.0	92.0	99.0	63.2	67.1	11.9	8663.1
164	19T-237-74	5.0	90.0	85.0	59.2	67.3	15.0	8662.5
4	19T-198-57	3.0	94.0	111.0	61.2	68.4	8.5	8660.2

Continued.

Table 5. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
36	19T-213-3	3.0	95.0	100.0	60.0	69.4	16.5	8646.4
54	19T-218-4	5.0	94.0	121.0	61.9	68.5	16.6	8619.5
120	19T-220-61	3.0	86.0	97.0	61.1	70.1	20.9	8598.7
180	19T-238-41	5.0	86.0	99.0	60.5	69.2	24.5	8590.1
251	18T196-42	5.0	92.0	90.0	62.8	65.9	17.2	8583.3
262	18T196-28	3.0	93.0	88.0	55.9	63.4	23.7	8579.0
25	19T-208-12	5.0	89.0	99.0	60.5	68.7	22.8	8573.8
255	18T196-9	3.0	83.0	103.0	61.0	66.4	13.6	8560.3
233	19T-176-CONV-42	3.0	86.0	95.0	60.9	66.2	8.2	8556.7
299	19T-247-54	5.0	92.0	89.0	60.6	67.0	14.9	8541.9
14	19T-198-69	5.0	89.0	106.0	60.7	68.9	13.2	8540.2
61	19T-218-26	5.0	86.0	110.0	57.7	68.8	17.0	8491.7
5	19T-198-61	5.0	90.0	112.0	50.2	66.7	23.0	8467.4
138	19T-228-72	5.0	92.0	103.0	55.6	66.6	16.0	8453.7
161	19T-237-86	5.0	84.0	88.0	57.3	68.3	24.7	8451.1
142	19T-228-4	3.0	93.0	112.0	58.0	67.6	21.6	8428.7
48	19T-217-94	5.0	84.0	95.0	63.6	71.0	25.9	8389.4
135	19T-228-44	5.0	90.0	106.0	59.2	68.4	19.1	8388.9
270	19T-247-7	5.0	90.0	100.0	61.1	67.4	13.6	8386.5
13	19T-198-67	5.0	91.0	104.0	57.1	67.3	21.5	8330.6
12	19T-198-63	5.0	91.0	112.0	56.5	68.7	20.5	8278.3
272	19T-247-21	5.0	91.0	91.0	62.9	68.0	14.5	8252.9
304	19T-247-90	3.0	91.0	96.0	61.5	66.6	17.5	8239.0
78	19T-218-70	5.0	90.0	90.0	61.9	69.8	18.4	8229.0
238	18T196-20	3.0	87.0	98.0	60.3	67.2	13.5	8216.2
51	19T-217-76	5.0	83.0	105.0	60.7	70.6	28.4	8192.9
316	19T-247-63	3.0	92.0	97.0	59.6	65.4	16.3	8184.8
115	19T-220-9	5.0	92.0	99.0	62.3	68.9	11.2	8176.1
314	19T-247-46	5.0	87.0	99.0	57.4	65.7	15.8	8175.5
260	18T196-22	5.0	91.0	84.0	60.9	66.4	11.8	8159.1
60	19T-218-25	5.0	86.0	100.0	55.9	67.5	16.9	8146.0
151	19T-237-59	3.0	87.0	105.0	60.3	67.4	15.3	8145.4
313	19T-247-40	5.0	90.0	97.0	63.6	67.7	15.4	8143.4
242	18T196-48	5.0	83.0	94.0	56.6	66.7	21.7	8137.2
19	19T-207-34	5.0	89.0	105.0	57.0	67.5	13.0	8136.9
307	19T-247-8	5.0	89.0	93.0	58.3	66.4	19.0	8135.6
207	19T-176-CONV-27	5.0	84.0	100.0	57.3	66.3	7.7	8074.7
67	19T-218-44	3.0	92.0	97.0	61.2	69.5	19.8	8047.9
132	19T-228-17	3.0	86.0	105.0	56.8	67.8	26.4	8010.7
297	19T-247-44	3.0	92.0	95.0	63.5	67.8	12.4	8003.3
159	19T-237-70	5.0	88.0	106.0	63.2	68.9	13.8	8001.4
103	19T-218-7	5.0	87.0	101.0	51.9	68.3	15.4	7991.0
311	19T-247-24	3.0	87.0	91.0	61.6	67.6	15.4	7985.6
137	19T-228-57	5.0	89.0	109.0	59.3	68.1	17.5	7978.0

Continued.

Table 5. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
318	19T-247-69	5.0	91.0	96.0	53.4	65.7	12.8	7961.4
294	19T-247-12	5.0	90.0	101.0	60.5	66.7	15.8	7891.6
152	19T-237-13	5.0	91.0	103.0	60.7	68.1	10.7	7891.4
148	19T-228-74	5.0	82.0	108.0	47.2	65.6	28.8	7844.6
214	19T-176-CONV-12	3.0	87.0	101.0	51.9	67.3	10.7	7837.9
283	19T-247-47	5.0	90.0	91.0	59.2	66.5	15.1	7831.9
1	19T-198-4	5.0	89.0	113.0	51.3	65.8	7.7	7804.5
252	18T196-4	5.0	88.0	93.0	60.7	67.8	12.3	7794.8
322	19T-247-86	3.0	89.0	96.0	60.1	66.8	11.1	7777.8
6	19T-198-80	5.0	88.0	116.0	55.3	66.2	18.0	7776.1
32	19T-208-71	5.0	86.0	89.0	61.5	69.5	25.7	7764.3
310	19T-247-18	5.0	91.0	104.0	61.5	67.9	12.9	7742.0
330	Jupiter	5.0	95.0	87.0	60.0	65.8	27.8	7736.3
154	19T-237-33	5.0	87.0	95.0	57.7	67.0	12.3	7727.7
317	19T-247-68	5.0	88.0	95.0	58.3	66.0	11.4	7727.6
163	19T-237-57	3.0	90.0	99.0	57.2	66.6	12.2	7696.8
290	19T-247-85	5.0	91.0	88.0	55.1	65.4	13.3	7696.4
300	19T-247-71	3.0	90.0	98.0	61.0	66.9	16.6	7625.8
147	19T-228-73	3.0	81.0	103.0	46.7	64.6	29.2	7612.1
153	19T-237-32	5.0	89.0	104.0	59.1	67.0	9.8	7604.3
8	19T-198-83	5.0	93.0	97.0	60.3	68.7	20.0	7602.7
321	19T-247-83	5.0	91.0	92.0	59.9	67.6	19.6	7594.7
287	19T-247-60	5.0	92.0	90.0	62.1	66.9	11.0	7589.4
286	19T-247-59	5.0	92.0	86.0	60.5	66.7	10.6	7576.1
228	19T-176-CONV-29	5.0	86.0	96.0	54.0	66.4	11.0	7572.0
319	19T-247-70	3.0	90.0	96.0	63.0	67.3	11.4	7563.5
240	18T196-25	5.0	86.0	98.0	61.5	67.9	12.3	7559.0
28	19T-208-31	5.0	88.0	91.0	57.9	68.3	23.8	7517.8
167	19T-238-5	5.0	87.0	111.0	56.9	66.7	12.7	7508.2
9	19T-198-23	5.0	93.0	115.0	54.3	67.5	11.5	7479.3
289	19T-247-67	3.0	92.0	96.0	61.4	67.0	13.4	7459.4
99	19T-218-66	5.0	88.0	98.0	58.9	68.4	17.2	7442.4
280	19T-247-39	3.0	91.0	92.0	63.5	68.2	11.6	7412.1
284	19T-247-52	3.0	89.0	91.0	58.0	65.4	13.0	7342.6
306	19T-247-3	3.0	92.0	103.0	59.7	65.6	15.8	7330.4
279	19T-247-38	5.0	91.0	93.0	60.4	67.0	12.0	7329.1
178	19T-238-35	3.0	91.0	109.0	58.7	68.1	15.1	7294.4
273	19T-247-25	3.0	93.0	84.0	59.3	65.8	16.0	7275.7
212	19T-176-CONV-4	3.0	86.0	99.0	56.2	66.4	8.7	7146.2
277	19T-247-30	5.0	91.0	95.0	61.2	66.4	13.6	7034.2
296	19T-247-35	5.0	91.0	92.0	59.2	65.6	16.3	7019.0
293	19T-247-6	5.0	92.0	90.0	55.5	65.5	15.9	6982.7
206	19T-176-CONV-8	3.0	86.0	105.0	59.8	67.1	9.3	6966.2
292	19T-247-89	3.0	91.0	80.0	56.2	65.2	17.7	6849.6

Continued.

Table 5. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
285	19T-247-53	5.0	89.0	94.0	55.5	66.5	12.6	6804.7
42	LSU_Basmati	5.0	90.0	99.0	59.1	68.5	10.1	6802.5
309	19T-247-15	5.0	92.0	96.0	60.0	65.5	19.2	6769.9
275	19T-247-27	5.0	90.0	87.0	59.6	66.1	11.3	6758.7
241	18T196-46	5.0	87.0	95.0	57.8	63.2	15.1	6737.7
312	19T-247-36	5.0	91.0	96.0	57.7	66.5	17.8	6732.3
130	19T-228-89	5.0	92.0	109.0	57.1	66.8	11.9	6693.0
288	19T-247-65	3.0	89.0	93.0	58.2	66.2	15.7	6671.8
225	19T-176-CONV-9	3.0	86.0	87.0	60.6	67.1	13.6	6531.0
230	Titan	5.0	86.0	82.0	59.5	65.7	20.1	6507.6
320	19T-247-82	5.0	86.0	100.0	53.7	66.9	16.0	6502.0
269	19T-247-4	5.0	90.0	96.0	56.9	65.9	8.0	6487.3
315	19T-247-55	3.0	92.0	97.0	60.6	67.0	16.8	6390.6
281	19T-247-41	5.0	89.0	90.0	49.4	63.6	14.9	6357.3
248	18T196-32	5.0	86.0	87.0	54.9	64.5	19.7	6302.8
254	18T196-8	3.0	86.0	90.0	43.1	62.6	19.6	6008.0
323	19T-247-93	5.0	93.0	90.0	56.5	65.7	15.8	5893.8
237	18T196-14	5.0	84.0	84.0	55.5	65.2	19.4	5839.1
245	18T196-13	3.0	87.0	84.0	56.2	65.5	15.8	5685.1
278	19T-247-31	5.0	92.0	90.0	58.3	66.7	14.2	5456.1
250	18T196-41	5.0	91.0	95.0	56.7	64.9	15.6	5157.5
244	18T196-7	5.0	84.0	79.0	43.7	62.8	19.2	4414.3

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 6. Grain and milling yields and agronomic performance of entries in the 2022 Whole Genome Prediction trial – Conventional – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
195	19T-238-13	5.0	74.0	100.0	60.6	69.2	31.3	10879.7
125	19T-220-94	5.0	73.0	103.0	59.5	69.4	26.9	10877.2
269	19T-247-4	5.0	73.0	100.0	56.7	66.8	9.5	10505.1
271	19T-247-13	5.0	79.0	98.0	48.9	64.3	11.4	10476.6
165	19T-238-3	5.0	74.0	108.0	56.0	68.4	29.6	10409.3
298	19T-247-45	7.0	79.0	105.0	58.5	66.8	10.6	10211.4
280	19T-247-39	5.0	75.0	106.0	60.3	68.2	7.7	10169.3
176	19T-238-33	5.0	72.0	102.0	56.3	68.3	29.6	10114.9
246	Addi Jo	5.0	80.0	101.0	61.8	68.7	21.7	10097.0
66	19T-218-43	5.0	74.0	98.0	60.4	69.3	22.7	10067.7
292	19T-247-89	5.0	73.0	99.0	49.9	66.9	12.8	10037.0
287	19T-247-60	5.0	75.0	102.0	57.9	66.4	7.0	9996.0
302	19T-247-80	5.0	79.0	105.0	58.4	67.3	13.7	9987.3
301	19T-247-72	7.0	78.0	102.0	55.4	65.8	12.5	9974.9
323	19T-247-93	5.0	80.0	95.0	60.2	70.0	18.7	9969.7
58	19T-218-19	3.0	73.0	107.0	59.1	68.2	14.2	9967.7
282	19T-247-43	5.0	75.0	98.0	50.3	65.0	11.6	9963.6
268	19T-247-2	5.0	79.0	103.0	59.7	68.7	23.0	9913.8
202	19T-238-72	7.0	73.0	107.0	61.9	70.4	21.1	9909.9
291	19T-247-87	5.0	75.0	101.0	46.0	65.7	6.0	9908.2
310	19T-247-18	5.0	74.0	104.0	58.9	67.2	10.6	9904.1
187	19T-238-73	5.0	77.0	108.0	59.8	67.3	17.5	9896.1
275	19T-247-27	5.0	75.0	107.0	55.5	66.7	13.9	9879.9
278	19T-247-31	5.0	79.0	103.0	58.3	68.5	19.0	9803.2
185	19T-238-62	5.0	73.0	110.0	56.8	67.2	35.8	9750.1
277	19T-247-30	7.0	75.0	94.0	52.4	66.2	17.1	9713.9
45	19T-217-71	5.0	71.0	99.0	61.4	69.2	14.9	9703.4
281	19T-247-41	5.0	73.0	98.0	33.9	62.6	16.4	9675.7
194	19T-238-1	5.0	73.0	104.0	61.9	69.7	14.9	9656.9
223	19T-176-CONV-3	5.0	75.0	97.0	62.3	67.7	7.7	9650.3
285	19T-247-53	5.0	74.0	100.0	55.0	66.7	18.1	9647.1
79	19T-218-75	5.0	73.0	105.0	58.4	68.5	18.1	9635.1
177	19T-238-34	3.0	73.0	100.0	61.1	69.6	23.1	9611.7
107	19T-218-42	3.0	72.0	104.0	59.2	69.0	20.1	9606.2
174	19T-238-27	5.0	74.0	109.0	61.8	70.2	25.1	9603.8
316	19T-247-63	5.0	79.0	106.0	59.2	66.7	13.8	9586.0
330	Jupiter	5.0	80.0	98.0	61.2	65.7	21.4	9576.1
104	19T-218-13	5.0	73.0	104.0	60.4	69.5	23.2	9575.0
64	19T-218-30	5.0	73.0	99.0	59.0	68.5	19.4	9569.3
196	19T-238-14	5.0	75.0	98.0	60.8	69.3	14.1	9548.3
293	19T-247-6	7.0	79.0	100.0	59.7	67.2	18.8	9527.0
109	19T-218-56	5.0	71.0	106.0	58.0	68.4	23.7	9524.2
306	19T-247-3	7.0	80.0	99.0	63.2	69.0	17.6	9521.6

Continued.

Table 6. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
222	19T-176-CONV-36	5.0	74.0	111.0	56.2	66.3	13.9	9481.0
294	19T-247-12	5.0	77.0	103.0	61.2	69.7	19.5	9463.5
297	19T-247-44	5.0	79.0	102.0	55.5	65.7	13.5	9461.0
312	19T-247-36	7.0	79.0	92.0	52.5	66.3	14.7	9434.4
164	19T-237-74	7.0	75.0	95.0	60.4	67.5	24.9	9423.6
82	19T-218-87	5.0	73.0	105.0	60.4	69.1	12.1	9415.4
286	19T-247-59	5.0	79.0	97.0	45.1	64.3	16.7	9411.3
119	19T-220-31	5.0	74.0	104.0	51.8	67.2	21.3	9405.6
182	19T-238-47	5.0	73.0	100.0	60.3	69.8	26.3	9393.5
55	19T-218-10	5.0	72.0	105.0	64.1	71.4	30.3	9391.4
47	19T-217-88	5.0	68.0	101.0	59.0	67.5	13.5	9385.7
308	19T-247-9	5.0	73.0	103.0	51.0	66.4	9.0	9376.1
224	19T-176-CONV-6	5.0	75.0	103.0	53.0	65.4	14.0	9351.6
272	19T-247-21	5.0	79.0	101.0	47.0	66.3	12.8	9350.3
263	18T196-33	7.0	71.0	99.0	58.4	64.6	24.6	9340.9
299	19T-247-54	7.0	81.0	88.0	59.4	66.6	15.1	9335.0
173	19T-238-22	7.0	73.0	111.0	58.0	68.2	16.7	9321.7
136	19T-228-55	5.0	73.0	104.0	54.5	66.8	37.1	9321.2
279	19T-247-38	5.0	75.0	101.0	47.5	66.2	13.5	9310.4
274	19T-247-26	5.0	73.0	108.0	36.0	65.0	11.5	9306.9
108	19T-218-50	5.0	74.0	105.0	57.7	68.7	27.6	9304.8
10	19T-198-31	5.0	74.0	115.0	45.8	63.3	26.9	9304.0
41	19T-217-39	5.0	71.0	105.0	58.6	67.7	20.9	9294.5
295	19T-247-23	5.0	75.0	107.0	58.8	68.3	17.6	9275.2
197	19T-238-20	5.0	79.0	104.0	61.1	70.3	29.6	9265.2
133	19T-228-31	5.0	71.0	102.0	59.8	68.9	32.7	9258.6
201	19T-238-48	7.0	80.0	117.0	58.8	66.9	19.5	9255.5
296	19T-247-35	5.0	75.0	103.0	60.8	66.7	10.1	9255.5
319	19T-247-70		75.0	109.0	60.7	69.2	15.6	9245.4
300	19T-247-71	7.0	75.0	100.0	54.8	65.1	8.0	9229.4
3	19T-198-15	3.0	70.0	116.0	56.3	68.2	20.6	9224.3
226	19T-176-CONV-19	5.0	75.0	105.0	56.1	67.8	13.4	9223.8
111	19T-218-71	5.0	72.0	101.0	59.2	69.5	19.3	9223.8
218	19T-176-CONV-24	5.0	74.0	108.0	56.6	66.9	5.7	9218.6
89	19T-218-17	5.0	72.0	94.0	60.7	70.4	22.5	9208.4
117	19T-220-3	5.0	74.0	99.0	56.6	69.0	18.7	9197.3
52	19T-217-84	5.0	72.0	106.0	61.2	70.6	17.0	9191.3
56	19T-218-14	5.0	74.0	106.0	57.1	68.4	21.7	9184.7
181	19T-238-45	5.0	73.0	104.0	61.7	71.3	25.0	9165.8
27	19T-208-25	5.0	72.0	109.0	60.3	68.6	21.1	9146.4
168	19T-238-7	5.0	74.0	100.0	52.0	67.5	21.3	9134.4
326	CL153	5.0	74.0	106.0	63.3	69.3	12.2	9125.3
220	19T-176-CONV-28	5.0	73.0	109.0	50.8	64.5	16.0	9124.1
276	19T-247-29	5.0	74.0	100.0	50.8	66.6	21.5	9116.4

Continued.

Table 6. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
318	19T-247-69	5.0	78.0	102.0	57.3	67.6	17.0	9110.7
209	19T-176-CONV-37	5.0	75.0	106.0	55.9	66.4	16.8	9109.6
87	19T-218-94	5.0	72.0	98.0	57.7	68.2	16.0	9103.0
118	19T-220-7	5.0	75.0	103.0	59.8	68.7	20.7	9100.2
34	19T-208-84	7.0	74.0	103.0	61.2	68.3	23.6	9097.9
126	19T-228-40	5.0	72.0	104.0	49.1	64.5	22.8	9095.6
175	19T-238-30	5.0	79.0	106.0	65.6	70.8	17.7	9093.6
85	19T-218-91	5.0	74.0	101.0	63.7	71.8	20.0	9086.9
270	19T-247-7	7.0	79.0	105.0	62.9	69.2	19.3	9080.4
303	19T-247-88	5.0	79.0	97.0	56.0	69.1	19.1	9072.0
36	19T-213-3	5.0	81.0	111.0	56.3	67.3	16.8	9071.2
188	19T-238-74	5.0	73.0	93.0	53.7	67.0	25.2	9065.5
39	19T-213-44	5.0	79.0	96.0	58.5	69.5	32.3	9050.2
62	19T-218-27	5.0	77.0	105.0	64.2	71.3	17.8	9046.7
309	19T-247-15	7.0	80.0	98.0	62.8	68.7	19.0	9035.4
171	19T-238-12	5.0	74.0	106.0	63.6	71.1	29.2	9033.0
313	19T-247-40	5.0	73.0	114.0	59.0	66.5	10.7	9029.7
14	19T-198-69	5.0	73.0	107.0	55.2	67.8	17.6	9018.9
210	19T-176-CONV-40		79.0	111.0	64.0	70.6	13.2	9010.1
283	19T-247-47	7.0	79.0	101.0	55.4	68.5	16.8	9010.1
305	19T-247-1	5.0	79.0	98.0	57.5	67.2	22.0	9007.9
320	19T-247-82	5.0	73.0	103.0	52.1	68.2	14.4	8991.9
178	19T-238-35	7.0	78.0	105.0	58.1	68.0	22.0	8981.5
113	19T-218-81	5.0	73.0	100.0	59.2	69.0	14.7	8974.0
213	19T-176-CONV-10	5.0	78.0	102.0	53.0	67.6	17.1	8960.9
96	19T-218-45	5.0	73.0	94.0	57.3	68.0	23.1	8950.7
120	19T-220-61	5.0	73.0	101.0	53.4	67.9	21.1	8932.7
307	19T-247-8	7.0	74.0	100.0	56.9	68.9	13.9	8920.6
77	19T-218-67	5.0	75.0	103.0	60.3	68.4	17.2	8897.6
186	19T-238-69	5.0	75.0	100.0	57.4	67.8	14.2	8891.1
219	19T-176-CONV-25	5.0	72.0	103.0	50.0	65.0	12.3	8887.6
38	19T-213-20	3.0	74.0	105.0	53.6	68.1	25.5	8886.4
86	19T-218-93	5.0	72.0	102.0	59.7	68.5	17.8	8883.9
70	19T-218-48	5.0	73.0	92.0	60.6	69.8	13.6	8880.4
161	19T-237-86	5.0	71.0	98.0	51.3	66.7	27.6	8875.2
140	19T-228-83	5.0	80.0	112.0	59.3	68.5	22.3	8870.0
72	19T-218-54	5.0	73.0	107.0	59.7	69.0	17.4	8861.0
37	19T-213-4	5.0	75.0	92.0	52.8	66.6	26.6	8852.5
57	19T-218-18	5.0	72.0	110.0	58.4	68.2	21.9	8849.5
15	19T-207-3	5.0	72.0	96.0	56.7	67.7	19.0	8846.8
315	19T-247-55	7.0	78.0	111.0	49.6	64.1	20.6	8844.2
233	19T-176-CONV-42	5.0	73.0	98.0	63.7	69.1	18.1	8843.3
144	19T-228-33	5.0	72.0	102.0	58.3	69.1	28.7	8843.3
134	19T-228-34	7.0	81.0	106.0	56.1	67.0	26.9	8841.7

Continued.

Table 6. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
32	19T-208-71	5.0	73.0	101.0	63.1	71.8	28.0	8836.7
48	19T-217-94	5.0	71.0	103.0	65.8	72.1	23.6	8828.5
189	19T-238-75	5.0	74.0	110.0	63.9	69.4	16.2	8815.9
149	19T-237-12	5.0	73.0	111.0	61.8	69.7	19.7	8813.6
75	19T-218-64	3.0	72.0	99.0	58.4	68.7	25.0	8800.2
46	19T-217-74	5.0	72.0	101.0	55.0	67.1	16.6	8799.8
172	19T-238-21	3.0	74.0	103.0	61.1	70.3	25.8	8789.8
88	19T-218-12	5.0	74.0	101.0	64.0	70.8	14.6	8787.1
183	19T-238-49	5.0	78.0	104.0	62.7	70.6	19.6	8777.6
203	19T-238-89	5.0	73.0	108.0	55.6	67.7	21.3	8751.5
192	19T-238-85	5.0	73.0	101.0	61.9	70.8	24.9	8746.7
288	19T-247-65	5.0	74.0	99.0	56.8	67.1	20.6	8743.6
211	19T-176-CONV-2	5.0	74.0	104.0	56.3	66.1	13.0	8730.9
123	19T-220-81	5.0	73.0	111.0	62.2	71.5	22.1	8730.0
110	19T-218-69	5.0	73.0	110.0	54.9	66.7	19.1	8727.7
221	19T-176-CONV-31	5.0	72.0	104.0	62.7	70.4	14.7	8721.0
81	19T-218-86	5.0	74.0	103.0	63.2	69.3	15.9	8706.3
94	19T-218-39	3.0	73.0	103.0	64.5	71.4	21.3	8691.0
95	19T-218-40	5.0	73.0	94.0	54.9	67.4	15.7	8687.9
229	19T-176-CONV-30	5.0	72.0	99.0	49.6	63.8	15.9	8687.3
33	19T-208-75	5.0	74.0	102.0	59.9	68.7	27.4	8674.0
69	19T-218-47	5.0	71.0	95.0	58.2	68.1	14.0	8654.6
114	19T-218-85	5.0	74.0	102.0	63.6	69.8	13.1	8648.2
98	19T-218-59	3.0	71.0	99.0	56.7	67.8	29.0	8640.9
179	19T-238-39	5.0	75.0	106.0	60.3	69.8	18.8	8635.7
166	19T-238-4	5.0	73.0	110.0	54.1	66.1	21.8	8624.7
261	18T196-26	7.0	72.0	95.0	53.0	66.0	6.0	8621.7
321	19T-247-83	5.0	75.0	100.0	52.1	66.5	18.6	8619.9
322	19T-247-86	5.0	73.0	107.0	57.4	67.3	17.5	8615.1
206	19T-176-CONV-8	5.0	73.0	109.0	53.2	65.4	19.7	8604.0
35	19T-208-91	5.0	73.0	101.0	61.3	69.9	21.3	8601.6
289	19T-247-67	5.0	79.0	105.0	54.8	67.4	12.7	8591.8
240	18T196-25	7.0	71.0	108.0	48.4	63.3	10.3	8588.7
329	DG263L	5.0	71.0	99.0	57.0	65.5	18.7	8585.3
131	19T-228-7	5.0	80.0	108.0	53.9	66.0	20.5	8562.3
216	19T-176-CONV-17	5.0	73.0	106.0	53.1	63.4	16.7	8559.1
314	19T-247-46	5.0	75.0	104.0	53.1	64.8	22.0	8554.1
84	19T-218-90	3.0	71.0	108.0	57.4	69.4	23.9	8552.5
159	19T-237-70	5.0	72.0	107.0	62.7	69.3	21.3	8542.8
31	19T-208-69	5.0	73.0	103.0	58.2	67.7	27.8	8539.5
317	19T-247-68	5.0	75.0	100.0	48.5	62.9	14.6	8533.6
267	Mermentau	3.0	73.0	97.0	60.3	67.4	26.2	8532.9
157	19T-237-55	5.0	72.0	96.0	57.0	66.7	33.4	8532.6
71	19T-218-49	5.0	72.0	102.0	63.9	71.8	20.0	8518.9

Continued.

Table 6. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
207	19T-176-CONV-27	5.0	71.0	110.0	51.9	64.7	8.4	8517.9
135	19T-228-44	7.0	73.0	107.0	63.5	70.0	23.3	8516.1
16	19T-207-12	5.0	75.0	102.0	58.5	67.9	18.1	8506.7
24	19T-208-11	5.0	73.0	105.0	58.8	68.1	18.2	8506.5
328	CLM04	5.0	81.0	109.0	60.7	65.8	21.0	8499.5
13	19T-198-67	5.0	78.0	106.0	58.4	68.8	29.7	8498.4
25	19T-208-12	5.0	73.0	100.0	64.6	71.7	26.7	8476.4
112	19T-218-80	5.0	73.0	106.0	63.6	71.3	15.4	8465.2
284	19T-247-52	5.0	75.0	97.0	56.2	66.5	20.1	8463.0
101	19T-218-84	5.0	74.0	101.0	67.6	72.5	17.0	8431.2
83	19T-218-89	5.0	75.0	101.0	65.7	72.2	19.2	8428.9
273	19T-247-25	5.0	81.0	90.0	49.5	64.3	19.3	8428.1
121	19T-220-67	5.0	72.0	105.0	59.4	68.7	14.0	8428.0
170	19T-238-11	5.0	74.0	96.0	64.3	70.5	16.6	8427.8
304	19T-247-90	7.0	79.0	101.0	52.0	61.8	21.9	8426.2
76	19T-218-65	5.0	71.0	107.0	57.0	68.1	21.1	8396.5
167	19T-238-5	5.0	73.0	105.0	58.0	67.3	16.6	8384.3
290	19T-247-85	7.0	78.0	97.0	37.8	64.0	15.9	8381.5
122	19T-220-69	5.0	74.0	101.0	59.8	69.5	14.1	8375.6
257	18T196-15	5.0	73.0	95.0	44.7	62.2	18.7	8370.9
29	19T-208-38	5.0	72.0	103.0	59.4	68.4	28.4	8352.5
129	19T-228-86	5.0	75.0	95.0	59.6	68.1	19.9	8346.9
100	19T-218-79	3.0	74.0	104.0	53.2	66.1	23.4	8345.7
44	19T-217-69	5.0	70.0	95.0	53.5	67.2	23.2	8333.3
1	19T-198-4	5.0	73.0	111.0	56.3	67.1	12.4	8327.9
228	19T-176-CONV-29	5.0	72.0	101.0	52.1	66.4	12.4	8318.1
199	19T-238-43	5.0	74.0	100.0	62.1	69.5	15.7	8307.6
169	19T-238-10	5.0	74.0	98.0	63.5	70.6	20.7	8300.5
74	19T-218-62	5.0	72.0	104.0	57.9	68.8	20.1	8293.2
162	19T-237-17	7.0	72.0	105.0	57.8	67.2	22.5	8289.3
227	19T-176-CONV-22	5.0	73.0	105.0	47.3	64.6	11.2	8288.6
205	19T-176-CONV-7	5.0	74.0	110.0	50.3	65.8	15.8	8285.8
225	19T-176-CONV-9	5.0	73.0	96.0	52.6	65.4	19.6	8284.8
152	19T-237-13	5.0	74.0	102.0	56.8	66.9	22.9	8284.8
2	19T-198-14	5.0	72.0	95.0	57.5	66.6	18.5	8283.6
19	19T-207-34	5.0	74.0	104.0	55.5	66.5	13.1	8280.8
155	19T-237-42	5.0	73.0	105.0	59.0	67.3	25.2	8280.8
141	19T-228-3	5.0	78.0	106.0	62.0	68.6	14.1	8279.7
191	19T-238-82	5.0	73.0	107.0	55.7	67.2	28.3	8276.9
54	19T-218-4	5.0	81.0	106.0	60.5	68.1	16.9	8265.1
232	19T-176-CONV-41	3.0	73.0	90.0	61.0	68.0	13.2	8251.5
4	19T-198-57	5.0	78.0	116.0	60.7	68.3	9.1	8251.1
324	Avant	5.0	69.0	88.0	61.3	70.1	23.0	8248.9
156	19T-237-51	5.0	75.0	104.0	55.7	66.3	24.4	8244.3

Continued.

Table 6. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
163	19T-237-57	5.0	73.0	105.0	53.9	66.0	14.9	8229.9
190	19T-238-76	5.0	74.0	96.0	64.7	70.9	19.6	8220.5
93	19T-218-38	5.0	74.0	104.0	53.6	67.7	15.3	8219.9
53	19T-218-1	5.0	74.0	102.0	60.3	68.1	12.0	8202.8
204	19T-176-CONV-1	7.0	73.0	106.0	46.8	63.6	11.8	8186.2
73	19T-218-57	3.0	74.0	111.0	57.0	67.6	11.2	8181.1
266	18T196-39	5.0	73.0	103.0	60.1	67.7	18.3	8172.5
9	19T-198-23	3.0	80.0	117.0	51.0	66.2	11.8	8152.8
200	19T-238-44	5.0	73.0	99.0	56.8	68.6	11.4	8152.7
43	19T-217-65	5.0	72.0	107.0	55.1	67.6	27.6	8143.4
217	19T-176-CONV-18	5.0	72.0	109.0	58.0	66.3	12.8	8141.0
23	19T-207-93	5.0	73.0	107.0	61.8	69.3	19.0	8140.6
68	19T-218-46	5.0	74.0	106.0	64.4	70.2	13.3	8134.0
235	19T-176-CONV-46	5.0	73.0	106.0	49.7	64.3	14.3	8133.4
50	19T-217-56	5.0	74.0	100.0	59.1	69.4	19.3	8123.4
260	18T196-22	5.0	72.0	94.0	55.4	66.0	13.6	8092.5
105	19T-218-32	5.0	73.0	102.0	57.0	67.4	19.4	8080.3
12	19T-198-63	5.0	75.0	118.0	55.3	67.3	20.3	8069.1
142	19T-228-4	5.0	79.0	108.0	61.1	68.3	15.1	8061.5
11	19T-198-35	5.0	73.0	109.0	60.0	68.0	21.1	8028.3
264	18T196-34	5.0	73.0	103.0	47.3	63.2	14.1	8015.1
150	19T-237-20	5.0	71.0	105.0	55.2	66.7	19.7	8009.9
139	19T-228-79	5.0	80.0	110.0	60.9	67.6	16.5	8008.8
145	19T-228-35	5.0	73.0	100.0	53.4	67.4	33.7	8008.0
251	18T196-42	7.0	78.0	98.0	58.5	65.6	18.0	7994.3
143	19T-228-6	5.0	80.0	109.0	62.5	69.2	17.0	7973.5
208	19T-176-CONV-34	5.0	73.0	111.0	53.4	64.9	11.1	7969.3
311	19T-247-24	5.0	73.0	110.0	46.5	62.1	14.7	7956.8
146	19T-228-63	5.0	71.0	107.0	55.2	69.0	37.5	7956.2
40	19T-213-67	5.0	81.0	122.0	60.0	67.4	20.6	7948.3
230	Titan	5.0	71.0	90.0	50.0	64.3	15.7	7907.0
30	19T-208-48	5.0	72.0	108.0	58.3	67.5	19.2	7896.7
214	19T-176-CONV-12	3.0	73.0	103.0	51.9	68.3	12.4	7873.4
254	18T196-8	7.0	74.0	89.0	55.2	66.6	27.2	7859.6
116	19T-220-36	5.0	80.0	102.0	62.3	70.3	16.7	7859.6
5	19T-198-61	5.0	73.0	112.0	49.4	64.1	31.8	7847.3
253	18T196-6	5.0	72.0	89.0	55.7	65.0	7.5	7826.0
151	19T-237-59	5.0	71.0	102.0	58.9	66.8	27.2	7825.2
259	18T196-19	7.0	74.0	106.0	61.3	68.5	22.5	7794.0
51	19T-217-76	5.0	68.0	101.0	55.2	68.4	19.8	7787.5
42	LSU_Basmati	5.0	72.0	100.0	57.9	69.1	16.8	7751.7
102	19T-218-5	5.0	77.0	102.0	61.5	69.2	12.5	7734.2
236	18T196-10	5.0	79.0	99.0	59.7	67.6	24.2	7722.6
21	19T-207-48	5.0	73.0	104.0	60.1	68.4	20.1	7718.3

Continued.

Table 6. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
18	19T-207-23	5.0	73.0	94.0	55.5	66.5	20.4	7716.5
8	19T-198-83	7.0	79.0	100.0	57.5	66.6	21.7	7700.6
90	19T-218-21		74.0	102.0	57.6	66.5	12.0	7671.1
239	18T196-24	5.0	75.0	101.0	58.8	66.4	9.6	7670.4
215	19T-176-CONV-16	5.0	72.0	92.0	57.3	66.3	19.6	7668.2
234	19T-176-CONV-45	5.0	72.0	108.0	42.2	60.3	18.7	7663.9
256	18T196-12	5.0	73.0	90.0	54.8	66.1	6.3	7646.1
193	19T-238-92	5.0	74.0	100.0	59.8	69.0	18.5	7641.1
158	19T-237-69	5.0	72.0	107.0	62.6	71.1	17.7	7639.9
6	19T-198-80	5.0	73.0	121.0	60.5	68.4	18.6	7627.6
327	CLL17	5.0	73.0	104.0	54.6	67.2	18.4	7622.0
237	18T196-14	5.0	72.0	97.0	57.9	68.2	22.4	7616.1
137	19T-228-57	5.0	73.0	111.0	60.8	68.3	13.6	7600.2
49	19T-217-13	5.0	70.0	104.0	56.6	67.9	18.1	7596.8
247	18T196-31	5.0	75.0	104.0	37.3	63.7	13.7	7555.0
28	19T-208-31	5.0	73.0	102.0	58.0	67.9	23.9	7547.4
65	19T-218-34	3.0	73.0	105.0	60.5	70.4	24.5	7508.4
17	19T-207-20	5.0	73.0	98.0	59.1	66.9	26.5	7498.6
7	19T-198-81	5.0	74.0	119.0	61.5	69.1	17.2	7492.2
63	19T-218-28	5.0	73.0	99.0	60.8	69.4	11.5	7477.7
153	19T-237-32	5.0	72.0	101.0	56.8	66.8	13.1	7475.9
212	19T-176-CONV-4	5.0	73.0	92.0	56.6	67.7	12.3	7420.2
106	19T-218-36	5.0	73.0	105.0	51.3	66.8	19.1	7391.9
92	19T-218-29	3.0	74.0	102.0	64.5	71.5	20.2	7370.2
80	19T-218-76	5.0	72.0	102.0	57.2	67.8	18.0	7352.4
59	19T-218-24	5.0	72.0	106.0	60.8	69.4	17.2	7284.1
78	19T-218-70	5.0	73.0	98.0	59.1	69.1	16.9	7259.3
138	19T-228-72	5.0	78.0	99.0	57.0	68.0	23.6	7203.0
127	19T-228-43	5.0	73.0	101.0	56.3	67.6	18.7	7182.7
258	18T196-18	5.0	73.0	98.0	57.6	65.9	19.5	7179.5
249	18T196-37	5.0	75.0	104.0	46.9	65.1	12.6	7154.1
91	19T-218-22		72.0	103.0	61.5	72.0	20.9	7151.9
325	Cheniere	3.0	75.0	98.0	61.5	70.1	10.8	7121.5
242	18T196-48	5.0	71.0	100.0	38.8	59.6	22.5	7121.0
244	18T196-7		71.0	91.0	36.8	57.3	25.0	7054.5
243	18T196-3	7.0	72.0	104.0	45.9	64.9	12.1	7037.6
241	18T196-46	5.0	75.0	100.0	51.0	63.0	20.1	7016.7
130	19T-228-89	5.0	79.0	105.0	62.6	69.0	16.9	6962.2
147	19T-228-73	5.0	69.0	107.0	44.1	63.2	33.9	6950.0
128	19T-228-77	5.0	74.0	112.0	62.0	69.0	20.9	6942.7
160	19T-237-76	5.0	73.0	106.0	52.1	67.9	11.2	6920.7
103	19T-218-7	5.0	73.0	103.0	53.1	67.3	16.4	6904.2
20	19T-207-44	5.0	74.0	102.0	60.0	68.1	10.1	6870.5
26	19T-208-15	5.0	72.0	108.0	53.5	65.9	17.7	6822.9

Continued.

Table 6. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
22	19T-207-85	5.0	74.0	107.0	59.7	68.1	9.7	6802.8
124	19T-220-92	5.0	75.0	102.0	61.1	68.3	9.2	6797.1
148	19T-228-74	5.0	71.0	108.0	49.1	66.7	39.4	6795.2
262	18T196-28	7.0	81.0	93.0	40.9	62.0	32.1	6747.4
67	19T-218-44	5.0	73.0	101.0	56.9	67.8	16.0	6698.8
132	19T-228-17	5.0	71.0	110.0	49.9	65.4	43.0	6689.3
245	18T196-13	7.0	73.0	100.0	34.1	57.7	18.5	6673.3
255	18T196-9	5.0	68.0	104.0	44.8	60.2	21.2	6633.8
97	19T-218-55	5.0	73.0	100.0	52.5	66.5	15.6	6583.8
60	19T-218-25	5.0	73.0	100.0	51.0	65.1	15.6	6476.6
238	18T196-20	5.0	73.0	103.0	38.8	59.0	22.7	6448.3
61	19T-218-26	3.0	72.0	104.0	52.2	66.9	19.8	6403.5
250	18T196-41	5.0	74.0	115.0	45.7	61.0	34.1	6088.7
265	18T196-36	5.0	73.0	87.0	52.2	63.3	26.8	6082.3
248	18T196-32	7.0	74.0	105.0	46.8	63.7	25.8	6055.3
252	18T196-4	5.0	72.0	84.0	48.1	63.6	16.7	5787.4
180	19T-238-41	5.0	74.0	94.0	48.5	64.5	30.8	5757.4
115	19T-220-9	5.0	78.0	103.0	63.5	72.6	20.0	5693.0
99	19T-218-66	5.0	73.0	102.0	49.4	66.3	22.5	5514.7
154	19T-237-33	5.0	72.0	96.0	44.0	61.5	15.3	5331.3
198	19T-238-40	5.0	73.0	107.0	40.7	60.1	35.4	5319.5
184	19T-238-55	5.0	72.0	99.0	43.0	62.1	21.9	4534.8

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 7. Grain and milling yields and agronomic performance of entries in the 2022 Whole Genome Prediction trial – Provisia. H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
71	19T-262-239	5.0	74.0	106.5	63.6	68.2	14.9	10025.2
10	19T-262-40	5.0	75.5	111.5	63.1	69.1	16.1	9920.9
72	19T-262-244	5.0	74.0	111.0	63.0	68.8	16.2	9866.7
54	19T-262-191	6.0	74.0	105.5	63.3	69.5	17.8	9850.6
30	19T-262-104	5.0	76.0	107.0	62.5	69.9	17.8	9796.0
20	19T-262-76	5.0	74.5	107.5	62.5	69.8	18.7	9764.1
18	19T-262-67	5.0	74.0	110.0	62.0	69.2	18.9	9759.8
57	19T-262-207	5.0	73.5	105.5	61.9	69.5	19.2	9744.4
52	19T-262-187	6.0	74.0	107.0	63.7	69.8	15.5	9740.5
16	19T-262-62	4.0	74.5	106.0	63.6	69.1	18.8	9663.4
51	19T-262-184	5.0	76.5	102.5	62.7	69.1	16.1	9657.1
23	19T-262-85	5.0	76.0	107.5	61.2	69.1	21.5	9650.4
36	19T-262-128	5.0	73.0	101.0	61.0	68.1	19.1	9643.1
24	19T-262-91	5.0	75.5	112.0	61.8	68.8	18.5	9608.9
37	19T-262-131	5.0	74.5	107.0	62.8	69.2	18.9	9577.1
14	19T-262-60	5.0	75.0	110.5	63.7	69.9	17.3	9559.7
63	19T-262-221	5.0	75.0	101.5	61.8	69.4	18.1	9546.6
12	19T-262-54	5.0	74.0	103.0	59.6	68.1	19.5	9501.3
58	19T-262-210	5.0	76.5	105.0	62.0	68.5	17.4	9466.1
3	19T-262-8	5.0	76.0	106.5	61.5	68.8	16.9	9462.0
44	19T-262-151	5.0	74.5	110.5	63.2	69.2	18.0	9426.3
80	19T-262-278	5.0	76.5	104.5	62.1	69.2	17.6	9399.7
21	19T-262-83	5.0	75.0	104.0	61.6	68.4	14.0	9374.7
74	19T-262-250	4.0	75.5	109.5	61.5	69.0	17.5	9358.2
75	19T-262-256	5.0	73.0	99.5	62.5	68.9	13.9	9341.3
48	19T-262-169	6.0	74.5	106.0	61.1	68.9	16.6	9334.8
38	19T-262-135	5.0	75.0	113.0	60.1	68.1	15.6	9266.2
34	19T-262-126	5.0	77.0	107.5	61.0	68.7	17.6	9264.2
8	19T-262-21	5.0	75.0	106.0	63.9	70.2	15.4	9251.8
27	19T-262-100	5.0	76.0	100.5	62.8	68.8	17.7	9247.2
32	19T-262-114	5.0	76.0	103.5	63.5	69.5	15.6	9242.9
2	19T-262-5	5.0	73.5	105.5	63.4	69.3	17.7	9239.8
7	19T-262-19	5.0	76.0	108.0	60.2	67.2	18.3	9218.1
9	19T-262-25	5.0	72.0	102.5	60.6	68.1	15.9	9195.3
60	19T-262-214	4.0	75.5	108.5	62.5	69.3	16.1	9172.6
47	19T-262-166	5.0	76.0	105.5	59.5	67.6	15.3	9169.0
19	19T-262-75	5.0	75.0	104.5	63.4	69.4	16.4	9148.8
49	19T-262-174	5.0	74.5	112.0	62.7	69.0	16.4	9099.5
78	19T-262-260	5.0	73.5	106.5	63.9	69.8	15.6	9078.1
13	19T-262-56	4.0	73.0	109.0	62.1	68.6	18.9	9070.8
56	19T-262-203	6.0	77.5	110.5	62.5	69.1	16.9	9047.8
77	19T-262-259	5.0	72.5	109.0	62.0	69.5	16.3	9032.9
65	19T-262-225	5.0	74.5	111.0	63.4	69.6	16.5	9017.1

Continued.

Table 7. Continued.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
25	19T-262-93	5.0	73.0	108.0	60.2	68.8	16.5	9013.0
70	19T-262-238	5.0	75.5	104.5	61.8	68.6	18.4	9012.3
1	19T-262-1	5.0	74.5	107.5	64.0	69.6	14.9	8958.3
46	19T-262-160	6.0	74.5	105.0	62.1	69.0	17.0	8927.1
40	19T-262-137	6.0	74.0	92.0	61.9	68.7	19.2	8898.0
6	19T-262-15	5.0	74.0	109.5	62.9	69.6	17.2	8871.6
15	19T-262-61	5.0	75.5	107.5	63.3	69.5	17.1	8868.6
59	19T-262-211	5.0	74.5	111.5	63.7	69.6	16.4	8847.9
76	19T-262-258	5.0	75.0	102.5	63.0	69.3	16.3	8844.1
33	19T-262-118	4.0	73.0	103.0	60.4	69.4	17.8	8833.8
73	19T-262-247	4.0	75.0	109.0	64.8	70.6	16.7	8827.2
5	19T-262-13	5.0	74.5	109.0	61.7	68.7	18.5	8822.9
4	19T-262-12	6.0	76.0	102.0	61.7	68.4	17.2	8819.5
81	19T-262-282	5.0	77.0	102.0	61.0	68.3	17.2	8803.3
69	19T-262-234	5.0	76.0	107.5	62.4	68.9	14.9	8802.4
67	19T-262-229	5.0	75.0	106.5	61.7	69.0	19.4	8718.8
68	19T-262-230	6.0	76.0	106.5	62.5	69.0	14.3	8682.6
41	19T-262-141	5.0	76.0	103.0	61.0	68.6	15.9	8665.0
84	PVL03	3.0	77.0	109.0	59.7	67.8	16.0	8648.4
29	19T-262-103	5.0	75.0	108.5	63.3	68.8	16.7	8620.5
35	19T-262-127	5.0	75.5	106.5	62.3	69.1	16.9	8590.4
79	19T-262-276	5.0	74.0	109.5	60.8	68.9	17.0	8517.7
66	19T-262-228	5.0	76.0	106.5	62.8	68.9	13.9	8514.2
45	19T-262-154	5.0	76.0	106.0	60.8	68.2	18.6	8504.6
22	19T-262-84	5.0	74.5	105.0	62.4	69.3	15.8	8458.0
53	19T-262-188	5.0	74.0	102.5	62.5	69.1	17.5	8455.0
17	19T-262-65	5.0	75.5	104.5	59.1	67.7	17.4	8401.6
62	19T-262-217	5.0	77.0	107.0	61.2	67.8	15.4	8385.3
64	19T-262-223	5.0	74.0	105.0	60.6	69.1	18.0	8361.5
55	19T-262-198	5.0	77.0	111.5	61.5	69.1	14.4	8346.0
31	19T-262-111	5.0	77.0	111.0	61.4	68.5	15.8	8318.5
28	19T-262-102	5.0	73.0	109.5	61.7	68.8	15.7	8247.0
61	19T-262-215	5.0	75.5	104.5	60.5	68.4	19.5	8187.4
11	19T-262-51	6.0	76.0	104.5	63.1	69.2	17.0	8077.9
42	19T-262-145	4.0	74.0	104.0	59.6	68.7	19.8	8052.8
39	19T-262-136	6.0	76.5	105.0	61.3	68.4	15.7	8003.0
43	19T-262-147	5.0	72.5	106.5	59.8	68.8	18.3	7747.7
50	19T-262-175	5.0	76.5	104.5	64.3	69.8	15.4	7642.3
82	PVL01	5.0	82.0	104.0	49.4	63.7	13.8	6871.9
26	19T-262-95	5.0	77.0	99.5	63.9	69.6	15.5	6718.3
83	PVL02	4.0	74.5	119.5	64.2	70.0	13.8	3136.8

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

DATE OF PLANTING TRIALS

The purpose of the Date of Planting (DOP) trials is to determine the grain yield, milling quality, and other agronomic characteristics of major rice varieties, experimental lines, and hybrids planted at various times at the H. Rouse Caffey Rice Research Station (HRCRRS), Rayne, LA. The choice of planting date can significantly impact growth, development, and yield. The information generated from these trials is important for understanding the impact on the key economic and production characteristics associated with rice production.

The trials were conducted using standard agronomic practices (except that no fungicides were applied) at the H. Rouse Caffey Rice Research Station (HRCRRS). A randomized complete block design was applied to arrange test entries. The plot size was 4.66 x 16 ft. Seeding rate was 90 lb/A. Planting and harvesting dates are found in Table 1. Table 2 lists the entries, grain type, and herbicide type. Results can be found in Tables 3-9, which are arranged across planting dates.

Table 1. Planting and harvesting dates for the 2022 Date of Planting Trials.

Location	Trial	Planting	Harvesting
HRCRRS	DOP 1	2/15	7/21 and 28
	DOP 2	3/4	7/22
	DOP 3	3/21	7/28
	DOP 4	4/4	8/15
	DOP 5	4/19	8/15
	DOP 6	5/3	8/30
	DOP 7	5/16	9/12
	DOP 8	5/31	9/19

Table 2. Entry number, grain type, and source information for entries in the Date of Planting trials, 2022.

Herbicide Type*	Entry	Line	Grain Type†	Source‡
PV	1	203L1104	LG	LAES
CN	2	Addi Jo	LG	LAES
CN	3	Avant	LG	LAES
CL	4	CLL17	LG	LAES
CN	5	DG263L	LG	Nutrien
CN	6	DGL2065	LG	Nutrien
PV	7	PVL03	LG	LAES
MA	8	RT7331MA (Hybrid)	LG	RiceTec
MA	9	RTv7231MA	LG	RiceTec
CL	10	RU1902026	LG	LAES
CN	11	RU2002182	LG	LAES
PV	12	RU2102186	LG	LAES

* Clearfield = CL, Conventional = CN, MaxxAce = MA, Provisia = PV.

† LG = Long grain, MG = Medium grain, AI = Long-grain aromatic-Della type, AL = Long-grain aromatic-Jazzman type, and HI = Long-grain high amylose-Dixie Belle type.

‡ LAES – H. Rouse Caffey Rice Research Station, Louisiana Agricultural Experiment Station, LSU AgCenter, Rayne; AAES – Arkansas Agricultural Experiment Station, Stuttgart, AR; MAES – Delta Research and Extension Center, Stoneville, MS; TAES, USDA – Texas A&M Research and Education Center, Texas Agricultural Experiment Station, U.S. Department of Agriculture, Beaumont, TX; RiceTec, Alvin, TX; and Nutrien Ag Solutions.

Table 3. Grain yields[†] of 12 rice varieties and experimental lines planted over eight planting dates, 2022. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 21	April 4	April 19	May 3	May 16	May 31	
203L1104	8322.1	13209.0	11187.8	10504.5	8509.9	6022.2	5941.5	5049.9	8593.4
Addi Jo	9148.2	10107.0	10210.8	9362.4	6547.7	5194.6	5884.2	5014.2	7683.6
Avant	9389.5	10579.9	10799.6	9620.5	8565.6	5744.4	5211.2	4782.7	8086.7
CLL17	10549.8	10963.9	11484.6	7319.8	9381.4	7477.3	5619.1	6172.1	8621.0
DG263L	9659.9	12865.8	10341.8	9872.1	8741.0	6534.6	3650.4	3493.2	8144.8
DGL2065	9538.2	10452.2	11863.5	10170.3	8450.3	5394.4	5899.0	5616.0	8423.0
PVL03	9656.4	10752.4	10751.2	10028.6	7603.7	5392.2	4196.5	4423.3	7850.5
RT7331MA	10867.1	10993.4	12558.6	13426.5	10823.6	8609.6	6349.0	7398.3	10128.3
RTv7231MA	11432.3	11011.2	12126.8	9214.8	9190.0	7135.3	4001.9	5033.1	8643.2
RU1902026	11882.8	11745.0	12287.2	10814.9	8893.9	7879.6	5438.9	6080.4	9377.8
RU2002182	9419.8	12127.8	10310.1	9395.7	6892.4	5096.1	5151.4	4956.5	7918.7
RU2102186	8984.1	11729.5	11066.0	9668.8	7469.4	5396.4	3920.3	5009.4	7905.5
Mean	9904.2	11378.1	11249.0	9949.9	8422.4	6323.1	5105.3	5252.4	

[†] Yield is in pounds of rough rice per acre at 12% moisture.

Table 4. Seedling vigor[†] of 12 rice varieties and experimental lines planted over eight planting dates, 2022. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 21	April 4	April 19	May 3	May 16	May 31	
203L1104	5.0	3.7	4.3	4.3	4.3	3.0	3.0		4.0
Addi Jo	3.0	3.7	3.7	3.7	3.7	2.3	3.0		3.3
Avant	3.7	3.0	3.0	3.0	3.7	2.3	2.3		3.0
CLL17	3.0	3.0	3.0	3.0	3.0	1.0	1.7		2.5
DG263L	5.0	3.0	5.0	4.3	2.3	1.0	1.7		3.2
DGL2065	5.0	4.3	3.7	3.7	3.7	3.0	3.0		3.8
PVL03	1.0	3.0	3.0	3.0	1.7	1.0	1.0		2.0
RT7331MA	7.0	7.0	7.0	5.7	3.7	2.3	7.0		5.7
RTv7231MA	2.3	3.7	3.0	3.0	1.0	1.7	2.3		2.4
RU1902026	3.7	3.7	5.0	3.7	3.7	1.7	3.0		3.5
RU2002182	3.0	3.0	3.0	3.0	3.7	3.0	3.0		3.1
RU2102186	3.7	2.3	3.0	3.0	3.0	1.0	1.7		2.5
Mean	3.8	3.6	3.9	3.6	3.1	1.9	2.7	na	

[†] Subjective rating of 1 to 9, where 1 is the highest seedling vigor and 9 is the lowest seedling vigor.

Table 5. Days to 50% heading of 12 rice varieties and experimental lines planted over eight planting dates, 2022.
H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 21	April 4	April 19	May 3	May 16	May 31	
203L1104	98.0	92.0	82.0	84.0	74.3	73.7	72.7	73.0	81.2
Addi Jo	96.0	90.0	79.0	81.3	76.0	79.3	76.3	71.7	81.2
Avant	86.0	80.7	72.7	71.0	68.3	66.0	65.0	64.3	71.8
CLL17	95.3	86.7	77.0	75.7	68.7	67.3	67.0	67.7	75.7
DG263L	92.3	87.7	77.3	75.0	66.7	66.7	65.0	65.7	74.5
DGL2065	91.3	85.7	75.3	77.0	70.3	68.7	68.0	69.7	75.8
PVL03	92.0	84.7	73.7	77.7	71.7	69.3	70.0	68.3	75.9
RT7331MA	88.0	84.0	75.3	75.0	69.7	65.7	67.7	65.3	73.8
RTv7231MA	86.0	81.3	72.7	72.0	64.7	64.3	60.7	61.7	70.4
RU1902026	88.7	83.3	76.0	74.3	71.0	67.7	66.7	65.7	74.2
RU2002182	91.0	84.0	73.7	73.0	72.0	68.0	70.0	68.7	75.0
RU2102186	90.7	85.7	75.0	75.7	72.7	69.7	67.3	70.3	75.9
Mean	91.3	85.5	75.8	76.0	70.5	68.9	68.0	67.7	

Table 6. Plant height[†] of 12 rice varieties and experimental lines planted over eight planting dates, 2022. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 21	April 4	April 19	May 3	May 16	May 31	
203L1104	91.7	98.7	94.7	99.0	95.3	95.0	98.7	89.3	95.3
Addi Jo	96.7	99.0	97.0	105.0	105.0	96.7	94.0	93.7	98.4
Avant	92.3	94.3	91.0	96.3	92.0	88.3	96.0	93.3	93.0
CLL17	100.3	100.0	96.0	98.0	97.0	95.3	102.3	97.7	98.3
DG263L	102.3	101.3	94.0	97.0	95.3	94.3	99.7	92.7	97.1
DGL2065	98.0	97.7	93.0	101.0	97.0	93.7	99.7	93.0	96.6
PVL03	102.3	99.7	98.0	105.7	103.3	96.3	108.0	100.3	101.7
RT7331MA	105.0	106.0	101.7	115.3	107.7	109.7	107.7	102.7	107.0
RTv7231MA	94.0	97.7	95.0	101.0	100.3	96.3	96.0	95.3	97.0
RU1902026	91.7	96.7	93.3	97.7	96.3	92.3	102.0	93.3	95.4
RU2002182	97.0	101.0	96.3	99.0	97.0	97.0	100.7	95.0	97.9
RU2102186	101.7	103.7	95.3	100.7	102.0	102.0	107.7	99.0	101.5
Mean	97.8	99.6	95.4	101.3	99.0	96.4	101.0	95.4	

[†] Plant height in centimeters from the soil surface to the tip of the main panicle.

Table 7. Whole milling percentage[†] of 12 rice varieties and experimental lines planted over eight planting dates, 2022.
H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 21	April 4	April 19	May 3	May 16	May 31	
203L1104	64.2	61.5	62.9	60.0		55.2	55.3	60.2	59.9
Addi Jo	59.0	59.1	57.2	57.0		56.0	56.8	54.0	57.0
Avant	63.0	62.1	62.2	61.4		56.8	56.7	57.7	60.0
CLL17	62.5	62.3	63.2	57.8		55.7	56.0	61.2	59.8
DG263L	55.9	55.5	55.1	58.1		53.1	52.8	52.9	54.8
DGL2065	65.4	63.8	65.2	59.1		59.2	60.1	63.1	62.3
PVL03	61.3	62.0	61.0	58.8		54.4	48.8	53.1	57.1
RT7331MA	61.3	62.7	62.9	60.0		57.9	58.3	61.1	60.6
RTv7231MA	58.1	62.3	58.7	50.4		48.5	41.4	46.3	52.2
RU1902026	62.6	61.7	61.3	60.8		58.0	56.4	61.2	60.3
RU2002182	61.2	60.3	60.6	59.3		55.7	57.1	60.4	59.2
RU2102186	61.1	59.1	57.6	55.3		49.2	48.8	55.9	55.3
Mean	61.3	61.0	60.6	58.2		55.0	54.0	57.3	

[†] The percentage of unbroken grains after the removal of the hulls and broken grains.

Table 8. Total milling percentage[†] of 12 rice varieties and experimental lines planted over eight planting dates, 2022.
H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 21	April 4	April 19	May 3	May 16	May 31	
203L1104	70.1	69.1	68.9	67.6		63.8	66.1	68.7	67.8
Addi Jo	68.2	67.6	67.4	66.1		64.4	66.9	65.5	66.6
Avant	69.5	68.9	69.2	68.7		65.5	66.4	67.9	68.0
CLL17	68.2	68.2	68.2	66.1		64.1	65.0	68.1	66.8
DG263L	66.1	65.7	65.7	66.0		62.6	63.8	63.2	64.7
DGL2065	70.5	69.3	70.3	68.2		67.1	68.2	70.2	69.1
PVL03	70.4	70.0	69.6	67.9		63.8	62.5	65.3	67.1
RT7331MA	69.2	70.2	71.2	68.3		66.9	68.7	70.7	69.3
RTv7231MA	69.2	69.9	69.1	65.2		61.1	61.0	66.0	65.9
RU1902026	69.2	68.6	68.0	68.1		65.5	65.3	68.6	67.6
RU2002182	68.7	68.1	68.1	67.5		64.9	66.7	68.9	67.6
RU2102186	71.0	68.7	69.4	66.8		63.0	63.7	67.0	67.1
Mean	69.2	68.7	68.8	67.2		64.4	65.4	67.5	

[†] The cumulative percentage of broken and unbroken grains after the removal of the hulls.

Table 9. Chalk impact[†] of 12 rice varieties and experimental lines planted over eight planting dates, 2022. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 21	April 4	April 19	May 3	May 16	May 31	
203L1104	16.6	16.5	22.3	12.9		11.9	17.6	15.3	16.1
Addi Jo	21.0	18.4	21.8	16.2		8.1	11.8	5.6	14.7
Avant	22.9	25.1	24.2	18.2		14.6	9.7	12.1	18.1
CLL17	21.3	20.5	21.6	16.6		18.0	11.6	13.1	17.5
DG263L	23.0	23.9	22.9	15.9		15.0	12.6	14.3	18.2
DGL2065	19.4	19.4	19.6	12.1		9.6	11.3	11.5	14.7
PVL03	19.9	16.7	21.1	13.7		12.0	18.6	16.3	16.9
RT7331MA	29.4	24.5	28.7	17.4		15.9	14.3	16.0	20.9
RTv7231MA	12.9	12.7	16.0	9.1		10.0	12.1	8.7	11.6
RU1902026	27.4	27.4	29.3	17.8		17.8	17.3	17.9	22.1
RU2002182	28.7	27.8	29.0	17.6		12.9	14.8	16.3	21.0
RU2102186	18.5	17.4	21.2	15.3		13.5	16.7	12.2	16.4
Mean	21.8	20.9	23.1	15.2		13.3	14.0	13.3	

[†] The percentage of the total area of a seed that contains chalk across grain samples using SC5000 instrument.

COOPERATIVE UNIFORM REGIONAL RICE NURSERY

The Uniform Regional Rice Nursery (URRN) is a multi-state yield nursery conducted by public rice breeders at research locations in Arkansas, Louisiana, Mississippi, Texas, California, and Missouri to evaluate experimental lines and commercial varieties. Entries are exposed to different environments over a wide, diverse growing region. This allows researchers to evaluate entries adaptation in a single row.

The 2022 URRN test included 50 experimental lines and varieties planted in six states. The randomized complete block design was applied, with three replications for tests 1 and 2. Test 1 is purely for long grains and early maturing varieties. Test 2 consists of medium grains, later maturing varieties, and hybrids. Seeding rates were 90 lb for varieties.

The 2022 URRN results from the HRCRRS will be reported. All plots were drill seeded on March 4. The test was harvested on July 26. Tests were conducted using standard agronomic practices (except that no fungicides were applied). Table 1 shows the herbicide type, entry number, line, pedigree, grain type, and source, while Tables 2 and 3 show grain and milling yield and agronomic performance (seedling vigor, days to 50% heading, plant height, whole and total milling, chalk, and yield) of entries in the 2022 URRN at the HRCRRS.

Table 1. Entry number, pedigree, grain type, and source information for entries in the Uniform Regional Rice Nursery, 2022.

Herbicide Type	Entry	Line	Pedigree	Grain Type [†]	Source [‡]
CN	1	RU1703172	AC110DH2/AC108DH2//CHEN	LG	TAES
CN	2	RU2003220	043752/0047277//CHEN	LG	TAES
CN	3	RU1803230	FRAN/WELLS//BANKS	LG	TAES
CN	4	RU2103100	043752/0047277//CHEN	LG	TAES
CN	5	RU2103124	Jangseongbyeon/IR 1321-12	LG	TAES
CN	6	RU2203006	CPRS/3/CPRS/NWBT/KATY/4/SPRING	LG	TAES
CN	7	Addi Jo	Thad/Catahoula	LG	LAES
CL	8	RU1902026	Wells/CL161//Drew/CL161/3/Cheniere//Cocodrie/Jefferson	LG	LAES
CL	9	RU2102217	CL161//Cocodrie/9770532DH2/3/Cypress/Kaybonnet// RU9502008A/4/Catahoula/5/CL172/6/CL172	LG	LAES
CL	10	RU2102222	CL172/Lakast	LG	LAES
CN	11	DG3H20007	DGLG106A/DG263L	LG	LAES
CN	12	DG3H20405	DGLG104A/21DGL032	LG	LAES
CL	13	RU2004071	BOWMAN/RU1004083(CL161/PSCL)	LG	MAES
CL	14	RU2004191	Tacauri/RU1004083(CL161/PSCL)	LG	MAES
CL	15	RU2004195	REX/RU1104073	LG	MAES
CL	16	RU2104087	CFX-18(CL161)/RSMT/3/MARS/NWRX//TBNT	LG	MAES
CN	17	RU2104099	RU1301102/Tacuari	LG	MAES
CL	18	CLHA02	RSMT/3/MARS/NWRX//TBNT/4/CL151	LG	MAES
CL	19	RU2201019	DMND/RU1701096	LG	AAES
CN	20	RU2201020	RU1201111/DMND	LG	AAES
PV	21	RU2201021	(RU1102131/RU0903141)*3/HPHI2	LG	AAES
CL	22	RU2201022	CL172/3/19991516/19951094//RNS3/RU9101001	LG	AAES
CN	23	RU2201023	ROYJ (RU0801076)//KBNT/Q36194/7/LBNT/9902/3/ DAWN/9695//STBN/4/LGRU/5/LGRU/MILL/6/ RU9201127/4/KATY/NWBT//L201/7402003/3/WLLS	LG	AAES
CL	24	RU2201024	TMPL/CL172	LG	AAES
CN	25	Rex		LG	MAES-CK
PV	26	PVL03	PVL01/Catahoula	LG	LAES-CK

Continued.

Table 1. Continued.

Herbicide				Grain	
Type	Entry	Line	Pedigree	Type [†]	Source [‡]
CN	27	Diamond	Francis/6/Lagrué//Katy/Starbonnet/5/Newbonnet/Katy// RA73/Lemont/4/Lebonnet/71CR5038/3/Dawn/STG653888// Starbonnet	LG	AAES-CK
CN	28	Cheniere	Newbonnet/Katy/3/L202/Lemont//L202	LG	LAES-CK
CN	29	Presidio	Jefferson//Maybelle/Rosemont	LG	TAES-CK
CN	30	DG263L		LG	LAES-CK
CN (H)	31	RU2103210	TH833	LG	TAES
CN (H)	32	RU2103188	TH873	LG	TAES
CN (H)	33	RU2103172	TH853	LG	TAES
CN (H)	34	RU2203034	TH172	LG	TAES
CN (H)	35	LAH200	LAH200	MG	LAES
CN	36	RU2102066	Titan/Jupiter	MG	LAES
CL	37	RU2202037	Jupiter/CL272	MG	LAES
CN	38	RU2102070	Titan/Jupiter	MG	LAES
CN	39	RU1904139	Lemont/Jasmine85-220//Francis	MG	MAES
CN	40	RU1904163	Bowman//Bowman/Te Quing	MG	MAES
CN	41	RU2004091	REX/CHENIERE	MG	MAES
CN	42	Leland	Cheniere/Banks	MG	MAES
CN	43	RU2101113	RICO/BNGL//RU0502137	MG	AAES
CL	44	RU2201044	JPTR/TITN/3/12PY833/JPTR//CL261	MG	AAES
CN	45	RU2201045	19991516/19951094//RNS3/RU9101001 [91642//KATY/NWBT/5/RU9201176/4/KATY/NWBT/3/ LBNT/STBN//NWBT/6/VSNTLM//L201/9NRZ/3/KATY/4/ VSNTLM//L201/9NRZ/3/TBNT/LBLE//L201/9NRZ/5/ DREW/7/Raminad Strain 3/6/ Bonnet73/CI9837//PI265116 /5/Vegold/CI9556//Dawn/3/Starbonnet/Taducan/4/L-201]	LG	AAES
CN	46	RU2201046	JZMN/RU0701124//JZMN2/3/Diamond	Aro	AAES
CN	47	DG263L		LG	LAES-CK
CL	48	CLL16	248WE16I5/Taggart/7/248DREW16C13/6/LaGrue//KATY/ Starbonnet/5/Newbonnet/KATY//RA73/Lemont/4/Lebonnet/ 71CR5038/3/Dawn/STG653888//Starbonnet	LG	AAES-CK
CN	49	Jupiter	Bengal/Rico1/3/Bengal//Mercury/Rico1	MG	LAES-CK
CL	50	CLM04	RU1202168/Jupiter	MG	AAES-CK

[†] LG = Long grain, MG = Medium grain, AI = Long-grain aromatic-Della type, AL = Long-grain aromatic-Jazzman type, and HI = Long-grain high amylose-Dixiebelles type

[‡] LAES – H. Rouse Caffey Rice Research Station, Louisiana Agricultural Experiment Station, LSU AgCenter, Rayne; AAES – Arkansas Agricultural Experiment Station, Stuttgart, AR; MAES – Delta Research and Extension Center, Stoneville, MS; TAES, USDA – Texas A&M Research and Education Center, Texas Agricultural Experiment Station, U.S. Department of Agriculture, Beaumont, TX; RiceTec, Alvin, TX; and Nutrien Ag Solutions.

Table 2. Grain and milling yields and agronomic performance of entries in the 2022 Uniform Regional Rice Nursery – Test 1, H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
12	DG3H20405	4.3	85.3	101.3	50.9	67.1	23.2	11118.8
11	DG3H20007	3.7	90.3	106.3	57.8	67.5	26.3	10410.2
19	RU2201019	3.0	85.0	103.7	63.8	70.0	24.2	10188.9
9	RU2102217	3.7	84.0	94.7	59.1	69.0	24.8	10133.4
8	RU1902026	4.3	83.3	91.7	61.5	69.2	26.5	10090.0
23	RU2201023	3.0	84.0	103.3	58.0	69.4	27.3	9762.2
15	RU2004195	5.7	85.7	109.3	61.4	69.0	24.3	9487.3
22	RU2201022	3.0	82.0	110.0	56.4	68.2	18.6	9133.6
16	RU2104087	3.0	87.7	103.3	56.7	67.0	28.3	8965.2
28	Cheniere	3.0	86.3	96.3	66.7	73.0	12.2	8872.9
26	PVL03	3.0	83.3	100.3	60.4	70.3	18.6	8858.2
30	DG263L	4.0	87.5	99.0	57.2	67.1	22.6	8726.6
7	AddiJo	3.0	87.0	97.3	60.6	69.8	22.8	8629.9
10	RU2102222	5.0	85.7	91.0	64.8	71.1	18.7	8364.7
24	RU2201024	3.7	86.7	107.7	59.3	67.4	24.7	8192.3
13	RU2004071	3.0	93.3	106.0	58.8	67.3	20.7	8089.5
27	Diamond	3.0	86.3	103.3	56.5	68.0	25.5	8032.7
14	RU2004191	7.0	85.3	101.0	59.9	68.0	23.9	7926.6
17	RU2104099	4.3	89.7	99.0	63.1	69.9	16.9	7826.3
25	Rex	3.0	85.3	104.7	59.7	67.8	27.5	7821.6
21	RU2201021	5.0	88.3	102.7	59.6	68.7	18.2	7792.9
4	RU2103100	4.3	89.7	102.7	62.8	69.8	18.2	7776.5
5	RU2103124	4.3	92.7	107.7	63.1	67.9	12.9	7732.9
1	RU1703172	5.7	89.3	103.0	63.4	70.2	19.3	7549.4
2	RU2003220	5.0	89.3	101.0	63.5	69.5	19.0	7488.4
20	RU2201020	4.3	86.7	102.3	60.0	68.2	32.7	7285.9
29	Presidio	3.0	83.7	98.3	63.9	70.6	12.2	7020.8
18	CLHA02	4.3	91.7	107.0	58.0	67.9	24.6	6760.3
6	RU2203006	7.0	87.0	94.3	56.4	70.1	15.7	6481.9
3	RU1803230	5.0	93.0	104.7	57.5	67.0	19.8	6097.1

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

Table 3. Grain and milling yields and agronomic performance of entries in the 2022 Uniform Regional Rice Nursery – Test 2, H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
35	LAH200	5.0	91.7	123.7	62.3	67.3	18.6	10736.3
48	CLL16	3.0	90.7	109.7	51.9	63.7	22.7	10052.7
37	RU2202037	4.3	86.7	101.3	61.8	66.0	16.3	9732.5
50	CLM04	4.3	89.7	102.3	62.6	66.4	16.0	9307.4
44	RU2201044	3.7	86.0	93.3	61.5	67.4	21.1	9204.9
41	RU2004091	5.0	89.3	105.7	52.3	67.2	26.1	9014.3
38	RU2102070	4.3	85.3	93.3	64.7	67.3	19.7	8919.2
40	RU1904163	4.3	86.7	100.7	54.1	67.7	29.9	8818.2
33	RU2103172	5.0	94.0	111.3	58.0	67.6	10.4	8804.0
47	DG263L	4.0	87.5	99.0	57.2	67.1	22.6	8726.6
45	RU2201045	3.0	89.7	110.0	56.5	66.9	31.0	8646.6
34	RU2203034	5.7	91.7	112.0	58.2	66.9	12.7	8360.7
39	RU1904139	3.7	91.7	109.0	60.2	68.2	23.6	8108.5
32	RU2103188	5.0	93.7	110.3	54.9	65.5	17.6	8022.9
42	Leland	5.0	90.0	107.0	60.3	68.4	19.0	7932.7
43	RU2101113	3.0	92.3	93.0	64.0	66.3	21.1	7601.5
49	Jupiter	3.7	90.7	93.3	60.1	64.1	31.6	7581.0
36	RU2102066	4.3	86.0	91.0	61.2	65.7	23.4	7431.0
31	RU2103210	5.0	88.7	112.0	59.1	67.8	11.1	7271.4
46	RU2201046	3.7	91.7	111.0	48.9	64.3	25.2	7228.2

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

DEVELOPMENT OF HYBRID RICE FOR LOUISIANA

The hybrid breeding project has, as its objective, the development of competitive hybrids that offer yield and quality advantages over commercial varieties. Our focus is the improvement of Clearfield and conventional long-grain hybrids through four main research activities: 1. Hybrid test crosses production and evaluation, 2. Female development (A-line conversions), 3. Restorer line identification (molecular markers for restoration) and development (Restorer inbred breeding), and 4. Female and hybrid seed production.

Hybrid seed production complexities require more significant evaluation steps than traditional inbred varieties. To conduct these additional activities more efficiently, we have partnered with Nutrien Ag. to increase our investment in hybrid and other breeding activities. The collaboration with Nutrien has facilitated the sharing of germplasm and testing resources. The recent hybrids we have access to through this collaboration are highly competitive for yield compared to current commercial hybrids and have excellent agronomic characteristics.

1. Hybrid test crosses production and evaluation.

Depending on the seed availability and years of evaluation per hybrid combination, hybrids undergo three performance evaluation testing stages: Testcross trial, Hybrid Preliminary Yield trial, and Advanced Hybrid Yield trial.

Beginning with testing new hybrid combinations at the testcross trial stage, we characterize hybrids for highly heritable traits such as plant height and days to heading. This test also provided information about how females combine with different males. In the 2022 field season, we evaluated 589 new testcross hybrid combinations and selected 12 candidate hybrids. Their average height was 45 inches, compared to 50 inches for RT7321FP, 48 inches for XP753, and 40 inches for CLL17. Regarding maturity, the average heading date for the candidate hybrids was 87 days vs. 89 days for RT7321FP, 83 days for XP753, and 85 days for CLL17. The selected candidate hybrids will be planted for second-year testing in 2024 in the Hybrid Preliminary Yield trial.

In the 2022 Hybrid Preliminary Yield trial, we evaluated 81 hybrid combinations (Forty-five 2-line and thirty-six 3-Line) in their second to third year of testing. We selected four conventional hybrids from this test, with 8,800 to 10,300 lb/A yields. The mean yield of these top four candidate hybrids was 2,000 lb/A, which was greater than CLL17. Days to heading for these hybrids ranged from 85 to 88 days, comparable to heading dates of 85 days for CLL17. The plant height of the top hybrids varied from 45 to 48 inches. In this Preliminary Yield Trial, the parents used to produce the top-performing hybrids were two Nutrien females and three LSU males (Re18, Re200, and T109).

In the 2022 Advanced Hybrid Yield trial (Table 1), we evaluated 19 advanced long-grain smooth leaf hybrids (Four 2-line and fifteen 3-line) and the medium-grain hybrid LAH200. We selected four 3-line hybrids. These hybrids produced an average of 10,100 lb/A across three sites, comparable to RiceTec's RT7321FP, RT7401, RT7521, and XP753 hybrids, a 25% yield advantage over CLL17. The average height of these advanced hybrids was on average 40 inches, comparable to 43 inches of RT7321FP. Two Nutrien females were responsible for producing top-performing hybrids in this third-year yield trial.

2. Female development (A-line conversions).

Production of hybrid seed is a significant challenge in developing commercial hybrid products because it is related to their final cost. A pollen-sterile female line is required for commercial hybrid production, and its seed producibility (female and hybrid seed) will affect how expensive a hybrid is to generate.

A challenge for U.S. breeding programs is that sources of sterility are usually found in exotic and unadapted germplasm. This exotic germplasm often brings undesirable grain quality, maturity, and pubescence traits. However, these introduced lines offer beneficial traits related to increased seed producibility, increased hybrid vigor, and in some cases, novel disease resistance.

The LSU rice hybrid breeding project has developed and evaluated multiple Cytoplasmic Male Sterile lines (CMS) over the years. For example, CMS lines developed in the background of the Louisiana varieties CL161 and Cypress. These lines offered smooth leaves, excellent grain quality, and good agronomics. However, they had

limitations with seed producibility, which would result in a high seed cost and prevent cost-effective hybrid seed production. Another developed CMS line is 08A (derived from an indica line from China), one of the most effective lines regarding seed production and yield potential. However, 08A has limitations, such as pubescence, medium grain length, low amylose, and the production of tall hybrids.

To develop new CMS lines that combine the desired characteristics of CL161 and 08A, we developed new CMS lines by crossing CL161 and 08B (maintainer) and using marker-assisted selection on eight loci in 6,000 individual F₂s. F₃ plants resulted from this cross in 2018-19. Using molecular markers for the following desired traits - glabrous, semidwarf, long grain, intermediate amylose, Pib, and intermediate gelatinization temperature, we selected 100 conventional and 100 Clearfield plants and planted them as panicle rows in the field. After two years of field evaluation, we selected sixty F₅ B-lines and converted them to the CMS cytoplasm. We have converted BC3F₁ A-lines, which are being test crossed to well-known restorer lines. In 2023, we will select a smaller group of A-lines based on their combining ability and seed productivity by planting hybrids from test crosses generated in 2022.

3. Restorer line identification and development.

Another essential component of developing commercial hybrid products is using a pollen-fertile male. The male's capacity to restore the fertility of a hybrid is a vital characteristic of a competitive male parent due to its relationship with the hybrid's performance. A male's restoration capacity is largely governed by two nuclear genes, Rf3 and Rf4, widely found in Indica germplasm.

We identify lines with Rf3 and Rf4 genes using a set of four new KASP markers developed by our team. In 2022, we selected 287 lines from populations developed from crosses between Indica material from South America and our U.S. germplasm as a source of new male parents. One hundred and fifty lines with the restoration genes will be crossed with a group of our advanced females in the summer of 2023, and the first hybrid performance evaluation will be done in 2024. Regarding restorer line development, we developed 11 new populations by crossing 14 restorer lines with good seed producibility (restorer line and hybrid seed). Using single-seed descent, we will advance these populations in 2023 until they reach homozygosity, followed by field evaluation and selection in 2024.

4. Female and hybrid seed production.

A-line seed availability affects the hybrid seed increase process in the field. With higher amounts of A-line seed, the bigger the hybrid seed production plots are. Depending on the seed availability, we can increase the repetitions and locations a hybrid will be planted. In the summer of 2022, we increased the seed of 15 A-lines (Nine Nutrien and six LSU). We produced enough seed for 500 Hege rows to be used in 2023 for hybrid field seed production and in 2024 for hybrid evaluation.

During 2022, we produced seeds of 87 test crosses in the field and 500 in the greenhouse by combining 12 A-lines (eight Nutrien and four LSU) and 41 restorer lines (five Nutrien and 36 LSU). These 587 new hybrid combinations will be evaluated for the first time in the 2023 testcross trial. The seed for second- and third-year testing was produced on medium-scale seed increase plots in the field. As a result, 28 hybrids will be tested in the 2023 Hybrid Preliminary Yield trial.

ADVANCED HYBRID YIELD TRIAL

The Advanced Hybrid Yield Trial is a three-replication test conducted by the hybrid breeding project at the H. Rouse Caffey Rice Research Station. This trial aims to evaluate the grain and milling yields and agronomic performance of experimental hybrids in their third year of testing while comparing them with commercial hybrids and varieties. We evaluated 28 entries in a randomized block design in this trial with three replications. Seeding rates for varieties and hybrids were at 80 and 30 lb/A, respectively.

Table 1. Grain and milling yields and agronomic performance of entries in the 2022 Advanced Hybrid Yield Trial.
H. Rouse Caffey Rice Research Station, Rayne, LA.

ENT	NAME	VIG ¹	HDT	HTE (cm)	WHOLE (%)	TOTAL (%)	CHALK (%)	YIELD (lb/A)
9	RT7521 FP		87.3	107.3	58.1	68.0	22.9	11062.5
11	RT7421 FP		84.0	111.7	53.6	68.3	17.0	10596.7
25	DG3H2004		89.3	100.7	55.2	66.6	23.5	10255.6
19	DG3H20296		85.7	101.0	52.4	67.8	18.1	10143.6
8	RT7321 FP		81.0	117.0	53.1	69.0	19.4	10121.2
20	DG3H20408		92.7	101.3	51.5	66.9	17.6	10060.3
18	DG3H2007		90.3	102.0	50.1	65.1	26.0	9808.6
13	XP780		90.3	106.7	52.9	67.4	14.8	9764.4
10	RT7401		88.7	96.7	54.5	68.5	14.9	9659.2
12	XP778		84.0	104.0	52.4	68.5	22.0	9623.0
16	XP753		86.3	97.23	55.2	69.2	24.4	9596.3
26	DG3H20370		89.7	98.3	51.5	65.1	21.5	9369.2
22	DG3G20405		86.0	99.7	40.0	64.9	17.7	9233.8
17	CLL16		86.0	96.3	53.1	66.1	24.0	9071.9
28	DG3H20397		87.0	100.7	57.1	68.7	15.7	8960.2
21	DG3H20401		85.0	101.0	55.7	68.7	15.8	8837.3
7	CLL17		84.0	94.0	63.0	69.3	13.4	8779.4
27	DG3H21037		88.3	91.7	51.4	66.0	20.3	8478.6
15	DG263L		86.0	92.7	57.4	66.7	15.6	8321.3
1	21PXE-49		84.3	101.0	58.2	68.2	22.6	8217.1
2	21PXE-53		83.0	96.7	60.3	68.7	21.9	8083.0
3	21PXE-83		84.0	103.7	63.4	69.2	13.4	7937.6
6	CLL19		84.7	100.7	56.5	68.9	17.7	7894.0
14	LAH200		85.3	110.0	57.7	69.0	16.0	7766.0
24	DG3H21026		85.3	99.7	58.0	68.1	16.8	7545.6
23	DG3H21099		86.7	98.0	57.5	68.8	13.8	7447.1
4	21PXE-84		82.0	107.3	59.1	68.3	14.2	7402.7
5	Jupiter		87.3	95.0	61.6	66.5	23.1	6227.7

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor.

DEVELOPMENT AND BREEDING FOR LOW GLYCEMIC CULTIVARS FOR SOUTHERN AND OTHER U.S. RICE GROWING REGIONS

H.S. Utomo, I. Wenefrida, and B. Beard

Diabetes is a prevalent problem in the U.S. A total of 37.3 million people have diabetes (11.3% of the U.S. population). From 2020 to 2021, diabetes prevalence significantly increased among U.S. adults 18 or older. Rice is an important part of everyday life in many regions of the U.S. Because of diabetes, people who love to eat rice can no longer enjoy their delicious foods. With the Low Glycemic Index (GI) High Protein rice, they can eat rice again and enjoy their favorite dishes. The low GI rice can play an important role in managing diabetes, especially in the regions where rice is part of the diet, such as Louisiana, Mississippi, Texas, Arkansas, and California, as well as major cities with rice eating immigrants. With more than 500,000 people that are diagnosed with diabetes and diabetes mortality ranked the fifth highest in the nation, Louisiana, for example, can benefit from incorporating the low GI rice in their diets. Since rice has been part of the important ingredients in Louisiana's famous cuisine, incorporating the low GI rice into their diets will not be a problem. By doing so, the low GI rice can bring significant benefits in managing diabetes that is currently costing \$4.2 billion annually with an additional \$1.5 billion indirect cost from lost productivity.

About 260 million people in the rice eating countries currently have diabetes, and this number is expected to increase by 45% by the year 2045. The great majority of rice in the markets has an average GI value of 73. Using meta-analysis that pooled results from four studies in China, Japan, U.S., and Australia, it was revealed that each extra serving of white rice increased the risk for diabetes by 11%. In a recent study of 132,373 participants in 21 countries, higher consumption of white rice was associated with an increased risk of diabetes incidence, with the strongest association being observed in South Asia, while a modest, nonsignificant association was seen in other regions. Public awareness regarding the importance of rice and rice related products with low GI has significantly increased in recent years. Carbohydrate-conscious consumers and health care providers can use the GI values to assist in food selections. Providing low glycemic rice that can reach a great portion of these people from diverse cultures with different rice eating preferences is truly a monumental challenge. To serve more diverse market needs, breeding for low GI high protein cultivars is extended to include other types of rice. Two advanced lines are in the pipeline for release, one long grain and one medium grain for southern U.S. rice growing regions. Another medium-grain rice for California is also in the development.

1. Low Glycemic Advanced Lines and Their Nutritional and Grain Quality Profile

Four advanced lines of low Glycemic Index (GI) entries previously developed were evaluated in the Preliminary Yield (PY) trials for their nutritional and grain quality components. Reported here are some crude bran fat content, crude fiber, carbohydrates, protein content, and cereal chemistry. Yield potential and other agronomic traits were based on field evaluations conducted in the 2022 PY trials in replicated plots at the H. Rouse Caffey Rice Research Station (HRCRRS), Crowley, Louisiana. Table 1 and 2 are analytical data of nutritional and grain quality profiles and yield potential respectively for the four advanced GI lines and five new additional lines.

Table 1. Yield and analytical data of grain quality and nutritional profiles of four GI lines 20GIR-91, 20GIR-103, 20GIR-171, and 20GIR-172 from 2022 Preliminary Yield (PY) trials. Cultivar Frontiere (FNTR) was included as a check.

TRAIT	FNTR	20GIR-91	20GIR-103	20GIR-171	20GIR-172
Yield (lbs/A) [†]	5.603	6,903	7,744	7,061	6,939
Crude Fat (g/100 g)	0.7	0.7	1.1	1.3	1.9
Crude Fiber (g/100 g)	0.9	0.9	1.8	1.9	1.1
Carbs (g/100 g)	77	76	75	75	76
Calories (kcal/100 g)	362	-	-	-	-
Protein (w/w) %	10.42	11.7	11.5	11.9	11.9
Amylose (w/w) %	21.5	20.8	21.6	21.3	20.9
Alkali Spreading	5	5	5	5	5
Gel Temp	Int.	Int.	Int.	Int.	Int.
Pasting Temp (°C)	81.74	80.6	81.3	81.7	82.1
Chalk (%)	9	9.4	10.1	7.2	8.1
Milling Quality (% hulls)	71.2	72.4	69.0	70.3	71.7
Milling yield (% whole kernel)	62.1	62.1	58.2	61.2	62.5
Glycemic Index^{††}	41	42	41	43	42

[†]Averaged of three replications, 2022 PY tests.

^{††}Predicted value.

Table 2. Yield and analytical data of grain quality and nutritional profiles of five new GI lines 21GIR-63, 21GIR-27, 21GIR-83, 21GIR-95, and 21GIR-99 from 2022 Preliminary Yield (PY) trials.

TRAIT	21GIR-63	21GIR-27	21GIR-83	21GIR-95	21GIR-99
Yield (lbs/A) [†]	7,071	7,842	6,902	7,802	7,731
Crude Fat (g/100g)	1.1	1.7	0.8	1.1	1.9
Crude Fiber (g/100g)	0.8	2.5	1.3	2.2	2.4
Carbs (g/100g)	78	76	77	76	75
Calories (kcal/100g)	354	355	349	344	345
Protein (w/w) %	12.1	12.6	12.1	11.9	11.9
Amylose (w/w) %	21.2	20.0	20.3	20.1	20.0
Alkali Spreading	4	5	4	5	5
Gel Temp	Int.	Int.	Int.	Int.	Int.
Pasting Temp (°C)	80.73	81.3	77.2	78.3	96.2
Chalk (%)	8.9	9.0	7.8	8.9	6.2
Milling Quality (%)	71.3	70.5	71.3	70.9	73.2
Milling yield (% whole kernel)	63.5	60.9	62.7	62.9	60.9
Glycemic Index^{††}	43	42	41	41	40

[†]Averaged of three replications, 2022 PY tests.

^{††}Predicted value.

2. Other Low Glycemic Advanced Lines in the Preliminary Yield Trials

The following data was collected from the Preliminary Yield trials in replicated plots at the H. Rouse Caffey Rice Research Station (HRCRRS), Crowley, LA. The main evaluation criteria were yield potential, vigor, plant height, heading date, and other agronomic traits.

Table 3. Performance of advanced marker-assisted breeding lines in the 2022 Preliminary Yield trials at the H. Rouse Caffey Rice Research Station, Crowley, LA.

Entry	Line ID	VIG*	HDT†	HTE†	Yield†	DNA Maker Analysis for Amylose Cont.	DNA Maker Analysis for Amylose ALK
21HUP 001	18MB001	4.0	90.0	97.1	7,990.1	High Amylose	High/Intermediate GT
21HUP 002	18MB005	4.6	88.5	95.3	7,033.2	High Amylose	High/Intermediate GT
21HUP 003	18MB017	4.1	86.5	91.3	8,190.0	High Amylose	High/Intermediate GT
21HUP 004	18MB018	4.9	87.1	92.1	8,295.2	High Amylose	High/Intermediate GT
21HUP 005	18MB029	4.2	84.7	93.2	8,550.1	High Amylose	High/Intermediate GT
21HUP 006	18MB047	4.0	83.5	87.7	9,342.4	High Amylose	High/Intermediate GT
21HUP 007	18MB073	4.0	78.0	86.5	7,079.9	High Amylose	High/Intermediate GT
21HUP 008	18MB084	5.0	90.2	98.1	8,545.0	High Amylose	High/Intermediate GT
21HUP 009	18MB087	4.3	78.5	88.9	8,007.9	High Amylose	High/Intermediate GT
21HUP 010	18MB091	4.0	83.1	97.2	7,673.7	High Amylose	High/Intermediate GT
21HUP 011	18MB093	4.2	91.5	94.3	9,058.2	High Amylose	High/Intermediate GT
21HUP 012	18MB097	4.1	90.5	89.1	8,847.9	High Amylose	High/Intermediate GT
21HUP 013	18MB103	4.2	85.1	85.9	7,710.5	High Amylose	High/Intermediate GT
21HUP 014	18MB142	4.0	86.2	89.8	7,659.7	High Amylose	High/Intermediate GT
21HUP 015	18MB308	4.0	91.8	95.1	7,182.1	High Amylose	High/Intermediate GT
21HUP 016	18MB397	3.9	82.1	90.3	7,082.3	High Amylose	High/Intermediate GT
21HUP 017	18MB399	5.0	81.3	98.8	7,738.7	High Amylose	High/Intermediate GT
21HUP 018	18MB407	5.0	84.5	98.2	7,826.2	High Amylose	High/Intermediate GT
21HUP 019	18MB504	4.3	87.2	100.4	7,943.3	High Amylose	High/Intermediate GT
21HUP 020	18MB791	4.6	91.0	89.1	7,979.6	High Amylose	High/Intermediate GT
Check	Cypress	4.4	90.2	99.2	7,871.4	High Amylose	High/Intermediate GT

* Subjective rating for seedling vigor was 1 to 5, where 1 = poor and 5 = excellent.

† HDT (Heading date, 50% heading); HTE (Height, cm); Yield (lb/A).

3. Performance of Low GI Breeding Lines for Traits Indicators

A total of 3,400 breeding lines of GI rice were evaluated in the growing season of 2022. A portion of these breeding lines was evaluated for their resistant starch, bran oil content, and protein content. In addition, standard amylose content and gel temp were also evaluated. Table 4 is the data summary that can be generated from the portion of the breeding lines.

Table 4. Performance of key trait indicators among breeding lines grown in the 2022 headrows at the HRCRRS.

Entry	Line ID	BOC [†]	RS ^{††}	Pro ^{††}	Row Yield [†]	DNA Maker Analysis for Amylose Cont.	Cooking Quality
21GIR 001	18CG-1-011	1.2	1.9	12.5	852	High Amylose	Intermediate
21GIR 002	18CG-1-013	0.7	0.9	12.1	753	High Amylose	Intermediate
21GIR 003	18CG-1-016	0.7	1.4	12.3	674	High Amylose	Intermediate
21GIR 004	18CG-1-023	0.8	1.4	12.4	745	High Amylose	Intermediate
21GIR 005	18CG-1-025	1.1	2.4	11.9	955	High Amylose	Intermediate
21GIR 006	18CG-1-021	1.5	1.3	11.5	616	High Amylose	Intermediate
21GIR 007	18CG-1-027	0.8	1.5	10.3	955	High Amylose	Intermediate
21GIR 008	18CG-1-034	0.9	2.2	11.9	867	High Amylose	Intermediate
21GIR 009	18CG-1-035	0.9	1.6	12.3	867	High Amylose	Intermediate
21GIR 010	18CG-1-065	0.6	1.4	12.1	878	High Amylose	Intermediate
21GIR 011	18CG-1-067	0.7	2.3	11.4	607	High Amylose	Intermediate
21GIR 012	18CG-2-068	1.2	1.3	11.9	625	High Amylose	Intermediate
21GIR 013	18CG-2-087	0.9	1.5	11.3	877	High Amylose	Intermediate
21GIR 014	18CG-2-089	1.3	2.1	11.1	767	High Amylose	Intermediate
21GIR 015	18CG-2-097	1.2	1.3	12.1	656	High Amylose	Intermediate
21GIR 016	18CG-2-099	1.4	1.5	10.9	912	High Amylose	Intermediate
21GIR 017	18CG-2-123	0.9	2.7	11.2	887	High Amylose	Intermediate
21GIR 018	18CG-2-134	1.0	1.4	11.2	778	High Amylose	Intermediate
21GIR 019	18CG-3-135	0.8	1.7	10.9	876	High Amylose	Intermediate
21GIR 020	18CG-3-165	0.7	2.4	11.3	877	High Amylose	Intermediate
21GIR 021	18CG-3-169	1.3	1.5	12.2	923	High Amylose	Intermediate
21GIR 022	18CG-3-181	0.4	2.3	10.9	981	High Amylose	Intermediate
21GIR 023	18CG-3-189	0.6	1.5	11.3	897	High Amylose	Intermediate
21GIR 024	18CG-3-198	1.9	1.2	12.3	789	High Amylose	Intermediate
21GIR 025	18CG-3-202	0.9	2.4	13.4	857	High Amylose	Intermediate
21GIR 026	18CG-3-203	0.8	1.3	11.6	890	High Amylose	Intermediate
21GIR 027	18CG-3-211	1.3	1.7	11.9	911	High Amylose	Intermediate
21GIR 028	18CG-3-213	0.9	2.5	12.3	678	High Amylose	Intermediate
21GIR 029	18CG-3-221	1.1	1.4	11.1	758	High Amylose	Intermediate
21GIR 030	18CG-3-222	0.9	1.2	10.6	909	High Amylose	Intermediate
21GIR 031	18CG-3-225	0.9	2.3	11.3	877	High Amylose	Intermediate
21GIR 032	18CG-3-226	0.5	2.1	10.7	889	High Amylose	Intermediate
21GIR 033	18CG-3-227	0.8	1.8	10.4	798	High Amylose	Intermediate
21GIR 034	18CG-3-229	0.8	2.3	12.7	745	High Amylose	Intermediate
21GIR 035	18CG-4-231	1.5	2.2	10.4	778	High Amylose	Intermediate
21GIR 036	18CG-4-232	0.8	1.1	13.1	869	High Amylose	Intermediate
21GIR 037	18CG-4-233	1.7	1.4	12.8	877	High Amylose	Intermediate
21GIR 038	18CG-4-237	1.6	2.5	12.3	789	High Amylose	Intermediate
21GIR 039	18CG-4-238	1.4	1.5	12.1	887	High Amylose	Intermediate
21GIR 040	18CG-4-241	1.4	1.3	12.1	789	High Amylose	Intermediate
21GIR 041	18CG-4-242	1.6	2.0	11.8	903	High Amylose	Intermediate
21GIR 042	18CG-4-243	0.8	1.4	12.2	945	High Amylose	Intermediate
21GIR 043	18CG-4-244	1.9	-	12.1	877	High Amylose	Intermediate
21GIR 044	18CG-4-251	0.5	-	12.9	887	High Amylose	Intermediate
21GIR 045	18CG-4-252	0.6	-	10.4	698	High Amylose	Intermediate
21GIR 046	18CG-4-254	0.8	-	11.4	788	High Amylose	Intermediate
21GIR 047	18CG-4-255	0.9	-	12.1	879	High Amylose	Intermediate
21GIR 048	18CG-4-257	0.8	-	13.0	768	High Amylose	Intermediate
21GIR 049	18CG-4-260	0.7	-	10.9	867	High Amylose	Intermediate

Continued.

Table 4. Continued.

21GIR 050	18CG-4-261	1.5	-	10.3	898	High Amylose	Intermediate
21GIR 051	18CG-5-265	0.9	-	12.1	670	High Amylose	Intermediate
21GIR 052	18CG-5-266	0.4	-	11.9	878	High Amylose	Intermediate
21GIR 053	18CG-5-267	1.2	-	12.2	879	High Amylose	Intermediate
21GIR 054	18CG-5-269	1.4	-	12.1	980	High Amylose	Intermediate
21GIR 055	18CG-5-270	0.9	-	13.5	768	High Amylose	Intermediate
21GIR 056	18CG-5-332	0.4	-	12.2	677	High Amylose	Intermediate
21GIR 057	18CG-5-354	0.7	-	13.1	865	High Amylose	Intermediate
21GIR 058	18CG-5-367	0.7	-	12.7	889	High Amylose	Intermediate
21GIR 059	18CG-5-388	0.9	-	11.3	672	High Amylose	Intermediate
21GIR 060	18CG-5-404	1.3	-	11.5	877	High Amylose	Intermediate
21GIR 061	18CG-5-409	1.5	-	10.3	786	High Amylose	Intermediate
21GIR 062	18CG-6-519	0.8	-	13.1	877	High Amylose	Intermediate
21GIR 063	18CG-6-523	0.8	-	10.9	558	High Amylose	Intermediate
21GIR 064	18CG-6-525	0.8	-	13.1	756	High Amylose	Intermediate
21GIR 065	18CG-6-532	1.2	-	11.6	678	High Amylose	Intermediate
21GIR 066	18CG-6-541	1.4	-	11.5	864	High Amylose	Intermediate
21GIR 067	18CG-6-542	0.8	-	10.3	634	High Amylose	Intermediate
21GIR 068	18CG-6-555	1.4	-	12.2	792	High Amylose	Intermediate
21GIR 069	18CG-6-561	1.8	-	12.1	712	High Amylose	Intermediate
21GIR 070	18CG-6-572	0.9	-	12.8	756	High Amylose	Intermediate
21GIR 071	18CG-6-573	0.9	-	13.1	803	High Amylose	Intermediate
21GIR 072	18CG-6-575	1.8	-	10.9	911	High Amylose	Intermediate
21GIR 073	18CG-6-576	0.9	-	11.9	792	High Amylose	Intermediate
21GIR 074	18CG-6-578	0.8	-	12.1	856	High Amylose	Intermediate
21GIR 075	18CG-7-602	0.7	-	10.4	768	High Amylose	Intermediate
21GIR 076	18CG-7-604	1.4	-	12.2	995	High Amylose	Intermediate
21GIR 077	18CG-7-605	1.4	-	11.4	844	High Amylose	Intermediate
21GIR 078	18CG-7-607	0.9	-	12.3	742	High Amylose	Intermediate
21GIR 089	18CG-7-608	1.1	-	13.5	846	High Amylose	Intermediate
21GIR 080	18CG-7-610	0.9	-	11.3	831	High Amylose	Intermediate
21GIR 081	18CG-7-611	1.5	-	10.9	837	High Amylose	Intermediate
21GIR 082	18CG-7-612	0.8	-	10.9	763	High Amylose	Intermediate
21GIR 083	18CG-7-615	0.9	-	12.1	948	High Amylose	Intermediate
21GIR 084	18CG-7-616	1.1	-	13.2	818	High Amylose	Intermediate
21GIR 085	18CG-7-717	0.8	-	10.7	884	High Amylose	Intermediate
21GIR 086	18CG-7-718	0.8	-	10.1	780	High Amylose	Intermediate
21GIR 087	18CG-7-719	1.6	-	14.3	670	High Amylose	Intermediate
21GIR 088	18CG-7-720	1.2	-	12.8	756	High Amylose	Intermediate
21GIR 089	18CG-7-721	1.4	-	11.2	789	High Amylose	Intermediate
21GIR 090	18CG-7-722	0.9	-	11.3	887	High Amylose	Intermediate
21GIR 091	18CG-7-725	0.6	-	10.1	888	High Amylose	Intermediate
21GIR 092	18CG-7-726	1.1	-	10.9	923	High Amylose	Intermediate
21GIR 093	18CG-7-727	1.5	-	13.2	849	High Amylose	Intermediate
21GIR 094	18CG-7-828	0.9	-	12.1	726	High Amylose	Intermediate
21GIR 095	18CG-7-829	0.9	-	13.6	876	High Amylose	Intermediate
21GIR 096	18CG-7-831	1.2	-	11.2	728	High Amylose	Intermediate
21GIR 097	18CG-7-832	0.9	-	11.4	959	High Amylose	Intermediate
21GIR 098	18CG-7-833	1.4	-	13.7	823	High Amylose	Intermediate
21GIR 099	18CG-7-834	1.3	-	12.6	773	High Amylose	Intermediate
2GIR 100	18CG-8-918	0.9	-	12.1	728	High Amylose	Intermediate
CCDR	Check	-	-	7.2	823	High Amylose	High/Intermediate

Continued.

Table 4. Continued.

CPRS	Check	-	-	7.0	782	High Amylose	High/Intermediate
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* Protein Content determined using N-Combustion analyzer (% w/w). † BOC = Bran Oil Content (g/100 g).
††RS = Resistant starch (% w/w). ††† Yield (lbs/A).

4. Marker Data for Some Select Low-GI Rice Lines

Table 5. Marker data of GI lines.

No.	Plant ID	Blast Genes	Type	ALK	WaxyExon1	WaxyE xon2	Waxy Hap)	Amylose Content	Gel Temp
1	18CG-1-012	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
2	18CG-1-013	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
3	18CG-1-015	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
4	18CG-1-016	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
5	18CG-1-021	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
6	18CG-1-026	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
7	18CG-1-036	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
8	18CG-1-045	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
9	18CG-1-047	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
10	18CG-1-048	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
11	18CG-1-059	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
12	18CG-1-064	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
13	18CG-1-075	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
14	18CG-1-077	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
15	18CG-1-082	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
16	18CG-2-084	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
17	18CG-2-092	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
18	18CG-2-093	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
19	18CG-2-098	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
20	18CG-2-099	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
21	18CG-2-101	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
22	18CG-2-103	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
23	18CG-2-108	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
24	18CG-3-109	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
25	18CG-3-112	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
26	18CG-3-119	Pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
27	18CG-4-121	Pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
28	18CG-4-123	Pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
29	18CG-4-132	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
30	18CG-4-134	Pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
31	18CG-4-136	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
32	18CG-4-145	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
33	18CG-4-147	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
34	18CG-4-148	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
35	18CG-4-149	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
36	18CG-4-153	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
37	18CG-4-154	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
38	18CG-5-155	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
39	18CG-5-157	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
40	18CG-5-158	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
41	18CG-5-159	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
42	18CG-5-165	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
43	18CG-5-167	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
44	18CG-6-168	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
	18CG-6-171	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel

Continued.

Table 5. Continued.

46	18CG-6-174	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
47	18CG-6-177	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
48	18CG-6-182	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
49	18CG-6-187	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
50	18CG-6-197	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel

* L = Long grain.

5. Chalk Percentage and Grain Homogeneity among Selected Low GI Rice Lines

Grain homogeneity in grain size and % chalk are important breeding criteria in the Marker-Assisted Breeding conducted at the HRCRRS to develop improved lines. Selected lines were evaluated, and the improved lines will be advanced in the next growing season.

Table 6. Grain appearance expressed as % grain homogeneity and % chalk among GI rice lines evaluated.

Entry	Line ID	Grain Type	GH [†]	% Chalk
21GIR 001	18CG-1-004	L	90.1	7.4
21GIR 002	18CG-1-008	L	92.2	11.5
21GIR 003	18CG-1-009	L	91.2	8.0
21GIR 004	18CG-1-011	L	91.4	8.3
21GIR 005	18CG-1-013	L	92.3	7.4
21GIR 006	18CG-2-014	L	91.1	6.2
21GIR 007	18CG-2-023	L	92.4	4.6
21GIR 008	18CG-2-026	L	93.4	8.3
21GIR 009	18CG-2-039	L	92.7	5.8
21GIR 010	18CG-2-042	L	90.8	5.0
21GIR 011	18CG-2-043	L	91.2	8.0
21GIR 012	18CG-2-045	L	86.3	9.8
21GIR 013	18CG-2-099	L	87.1	8.0
21GIR 014	18CG-2-103	L	90.4	4.3
21GIR 015	18CG-2-105	L	85.5	5.7
21GIR 016	18CG-2-111	L	96.1	7.5
21GIR 017	18CG-2-113	L	91.4	9.8
21GIR 018	18CG-2-116	L	87.3	3.0
21GIR 019	18CG-2-124	L	82.1	11.0
21GIR 020	18CG-2-125	L	90.3	9.0
21GIR 021	18CG-2-132	L	88.2	12.0
21GIR 022	18CG-2-134	L	91.3	8.0
21GIR 023	18CG-2-145	L	90.2	2.7
21GIR 024	18CG-2-155	L	84.1	7.6
21GIR 025	18CG-2-156	L	84.2	14.1
21GIR 026	18CG-2-177	L	84.1	8.5
21GIR 027	18CG-2-187	L	91.2	9.8
21GIR 028	18CG-3-188	L	89.2	4.5
21GIR 029	18CG-3-189	L	88.2	3.5
21GIR 030	18CG-3-192	L	91.3	7.4
21GIR 031	18CG-3-194	L	92.5	5.1
21GIR 032	18CG-3-199	L	93.0	4.2
21GIR 033	18CG-3-201	L	90.6	8.7
21GIR 034	18CG-3-204	L	88.1	7.2
21GIR 035	18CG-3-206	L	92.3	6.4
21GIR 036	18CG-4-208	L	88.5	4.4
	18CG-4-212	L	97.7	2.3

Continued.

Table 6. Continued.

21GIR 038	18CG-4-214	L	91.3	5.6
21GIR 039	18CG-4-215	L	92.1	7.2
21GIR 040	18CG-4-217	L	87.1	8.1
21GIR 041	18CG-5-218	L	91.4	2.2
21GIR 042	18CG-5-219	L	91.5	11.2
21GIR 043	18CG-5-228	L	93.2	5.6
21GIR 044	18CG-5-234	L	83.3	7.3
21GIR 045	18CG-6-236	L	94.1	9.0
21GIR 046	18CG-6-239	L	86.4	10.3
21GIR 047	18CG-6-244	L	89.1	8.2
21GIR 048	18CG-6-245	L	85.4	7.5
21GIR 049	18CG-6-247	L	86.1	6.4
21GIR 050	18CG-6-249	L	86.4	8.4
21GIR 051	18CG-6-251	L	91.2	4.6
21GIR 052	18CG-6-252	L	90.4	5.7
21GIR 053	18CG-6-254	L	89.4	5.4
21GIR 054	18CG-6-255	L	91.2	7.3
21GIR 055	18CG-6-257	L	90.4	8.6
21GIR 056	18CG-6-259	L	92.4	8.7
21GIR 057	18CG-6-261	L	88.5	9.8
21GIR 058	18CG-6-266	L	91.4	5.2
21GIR 059	18CG-6-267	L	91.5	11.3
21GIR 060	18CG-6-269	L	90.3	4.3
21GIR 061	18CG-6-272	L	90.4	1.7
21GIR 062	18CG-6-277	L	88.4	2.5
21GIR 063	18CG-6-278	L	94.1	1.3
21GIR 064	18CG-6-279	L	90.8	6.6
21GIR 065	18CG-6-282	L	90.4	9.5
21GIR 066	18CG-6-287	L	96.2	7.8
21GIR 067	18CG-6-288	L	91.8	7.5
21GIR 068	18CG-6-289	L	92.3	11.2
21GIR 069	18CG-7-291	L	94.6	8.4
21GIR 070	18CG-7-467	L	88.7	6.7
21GIR 071	18CG-7-589	L	88.3	11.1
21GIR 072	18CG-7-591	L	89.2	6.2
21GIR 073	18CG-7-602	L	91.8	5.1
21GIR 074	18CG-7-605	L	90.6	5.1
21GIR 075	18CG-7-634	L	90.2	8.4
21GIR 076	18CG-7-645	L	91.3	5.7
21GIR 077	18CG-7-657	L	82.6	3.7
21GIR 078	18CG-7-767	L	81.5	9.2
21GIR 089	18CG-7-783	L	89.3	1.4
21GIR 080	18CG-7-788	L	92.5	1.5
21GIR 081	18CG-7-811	L	92.2	1.7
21GIR 082	18CG-7-817	L	88.7	1.1
21GIR 083	18CG-7-821	L	89.8	8.7
21GIR 084	18CG-7-826	L	98.1	3.7
21GIR 085	18CG-7-837	L	93.4	4.4
21GIR 086	18CG-8-838	L	91.5	7.9
21GIR 087	18CG-8-839	L	93.9	9.5
21GIR 088	18CG-8-841	L	87.3	8.5
21GIR 089	18CG-8-856	L	88.1	4.8

Continued.

Table 6. Continued.

21GIR 090	18CG-8-857	L	89.4	6.1
21GIR 091	18CG-8-858	L	89.9	8.1
21GIR 092	18CG-8-861	L	92.1	4.6
21GIR 093	18CG-8-865	L	96.4	5.8
21GIR 094	18CG-8-866	L	88.9	5.9
21GIR 095	18CG-8-867	L	91.3	7.3
CCDR	Check	L	88.2	9.3
CPRS	Check	L	94.1	8.5

[†] GH=% Grain Homogeneity

RICE NUTRITION ENHANCEMENT PROJECT: HIGH PROTEIN LINE DEVELOPMENT AND GRAIN NUTRITIONAL QUALITY

I. Wenefrida and H.S. Utomo

A breeding goal to improve grain protein content as an important rice nutrition quality has been reported decades ago. However, a classic work by Henry Beachell and his collaborators illustrates huge challenges that are faced in developing high protein rice. The IRRI world collection showed a range of 5-17% (w/w). However, the six best lines that were used as an attempt to develop high protein cultivars only yielded modest improvement. One of the major constraints in breeding efforts to improve protein content is due to a low heritability. Several quantitative trait loci (QTLs) associated with high protein traits have been identified but their practical use in the cultivar development remains problematic. Our lab continues to work on improving protein content after successfully developing the first high protein cultivar. While getting adequate protein may not be a problem among people in the U.S. and other developed countries, rice protein provides more lean protein per serving. Plant protein sources differ from animal sources in terms of digestibility and amino acid composition. An increased consumption of plant food sources such as rice, cereals, fruits, and vegetables has been recommended as part of the healthy diet, an important factor to help establish a healthier lifestyle. The advantageous rice protein can further be tailored into a unique natural property of rice as a gluten-free food source. People with celiac disease can take advantage of it. Since rice is considered hypoallergenic, the high protein rice can be used in developing more nutritious baby food.

Globally, over 750 million people are malnourished due to protein deficiency. More than half of them are in the rice eating countries where they eat rice three times a day. Rice with higher protein content provides additional protein to help reduce protein deficiency. Several thousand plant species have been identified as a plant-based protein source. A total of 150 species have been commercially cultivated. Currently, the world's population depends on only about 20 different plant crops to provide approximately 65% of the world supply of edible protein. They are divided into cereals, legumes and other vegetables, fruits and nuts, and cereal grains. These plant-based proteins provide almost half (47%) of the world's total protein needed. In the developed countries, the plant-based protein constitutes only about a third of the total protein intake: i.e., 31% of intake in the U.S. diet and 36% in the UK. In the developing countries, however, about 80% of protein is obtained from plants, wheat (43%), rice (39%), and maize (12%). Rice is therefore one of the major supplies of protein in many developing countries.

Last year the Rice Nutrition Enhancement Project conducted 1) grain quality and protein content analyses among the advanced lines that were planted in the Preliminary Yield trials, as well as the newly developed high protein rice lines evaluated in headrow tests; and 2) laboratory evaluation of glyphosate herbicide resistant rice lines, and 3) Petri dish tests for Dual Magnum (S-metolachlor) herbicide-resistant rice lines.

1. Grain Quality Analyses of High Protein Lines

Using the same technology that was used to develop high protein cultivar 'Frontière', new high protein lines continue to be developed. Both new and advanced lines were subjected to grain quality analyses for gel temp, amylose content, and cooking characteristics. In addition, the analyses for whole milling, total milling, grain shape homogeneity, and % chalkiness were also conducted. All samples were collected from the 2022 field grown headrows or PY trial plots. Below are the grain quality data generated from last year research activities.

Table 1. Grain quality analyses of advanced high protein rice lines planted in 2022.

Entry	Pedigree	Whole	Total	Grain Shape Homogeneity	% Chalk	Gel Temp	Amylose Content
21IDV 0001	17P100004	60.1	70.2	92.0	10	Intermediate-high	20.32
21IDV 0002	17P100012	65.5	72.1	90.5	15	Intermediate	21.30
21IDV 0003	17P100022	59.5	70.2	90.0	6	Intermediate-high	22.21
21IDV 0004	17P100024	64.4	73.4	95.0	7	Intermediate-high	22.20
21IDV 0005	17P100025	60.4	69.4	93.5	4	Intermediate-high	21.34
21IDV 0006	17P100031	63.0	74.3	96.4	3	Intermediate-high	23.44
21IDV 0007	17P100040	62.3	74.0	94.3	15	Intermediate-high	22.33

Continued.

Table 1. Continued.

21IDV 0008	17P100042	62.4	68.3	90.4	6	Intermediate-high	21.70
21IDV 0009	17P100043	60.4	70.4	93.5	4	Intermediate-high	23.72
21IDV 0010	17P100051	55.4	69.7	93.3	5	Intermediate	22.40
21IDV 0011	17P100052	61.0	73.0	90.5	7	Intermediate-high	22.62
21IDV 0012	17P100055	63.6	73.6	93.4	10	Intermediate-high	23.33
21IDV 0013	17P100065	65.5	72.5	92.7	9	Intermediate-high	23.23
21IDV 0014	17P100057	60.6	70.3	89.9	10	Intermediate	22.50
21IDV 0015	17P100069	62.3	72.4	90.6	7	Intermediate	21.14
21IDV 0016	17P100071	59.1	69.4	93.0	11	Intermediate-high	21.42
21IDV 0017	17P100077	60.9	71.3	95.4	1	Intermediate-high	23.31
21IDV 0018	17P100079	65.2	69.5	94.0	7	Intermediate-high	22.32
21IDV 0019	17P100099	66.3	71.3	93.2	6	Intermediate	22.20
21IDV 0020	17P100145	63.0	74.2	92.3	9	Intermediate	23.90
21IDV 0021	17P100373	61.8	71.3	93.0	6	Intermediate-high	22.35
21IDV 0022	17P100385	62.5	71.4	91.4	15	Intermediate-high	21.51
21IDV 0023	17P100391	61.7	74.3	91.3	6	Intermediate	20.23
21IDV 0024	17P100394	63.6	69.4	92.4	10	Intermediate-high	22.32
21IDV 0025	17P100395	64.0	70.4	94.5	7	Intermediate-high	22.77
21IDV 0026	17P100396	64.2	71.8	92.5	8	Intermediate-high	23.24
21IDV 0027	17P100406	63.3	74.5	93.2	5	Intermediate-high	22.19
21IDV 0028	17P100402	62.2	72.8	90.4	7	Intermediate-high	22.50
21IDV 0029	17P100407	61.4	69.5	90.6	11	Intermediate-high	22.43
21IDV 0030	17P100411	60.4	72.7	92.6	7	Intermediate-high	22.49
21IDV 0031	17P100423	64.0	69.4	92.0	12	Intermediate	23.52
21IDV 0032	176P10425	58.5	74.3	92.6	14	Intermediate-high	22.70
21IDV 0033	17P100427	62.1	75.2	91.6	13	Intermediate-high	23.64
21IDV 0034	17P100431	57.9	74.5	98.0	12	Intermediate	21.50
21IDV 0035	17P100433	58.5	72.4	93.2	5	Intermediate-high	22.32
21IDV 0036	17P100436	63.5	70.2	90.3	4	Intermediate-high	22.90
21IDV 0037	17P100445	64.3	68.3	92.4	8	Intermediate-high	21.22
21IDV 0038	17P100454	63.2	71.4	90.3	14	Intermediate-high	21.12
21IDV 0039	17P100456	58.1	70.3	90.5	7	Intermediate-high	23.32
21IDV 0040	17P100476	62.5	68.7	91.7	5	Intermediate-high	22.67
21IDV 0041	17P100487	61.4	70.1	90.4	16	Intermediate-high	22.43
21IDV 0042	17P100497	63.4	75.0	95.8	14	Intermediate	21.32
21IDV 0043	17P100505	62.6	69.6	95.5	13	Intermediate-high	23.33
21IDV 0044	17P100511	60.3	69.3	90.3	5	Intermediate-high	24.01
21IDV 0045	176P10514	63.0	69.2	93.2	11	Intermediate-high	21.55
21IDV 0046	17P100517	63.1	70.8	98.5	7	Intermediate-high	22.34
21IDV 0047	17P100519	57.0	75.5	92.3	6	Intermediate	21.32
21IDV 0048	17P100521	60.2	68.7	91.3	7	Intermediate-high	23.21
21IDV 0049	17P100522	65.0	72.5	91.5	10	Intermediate-high	22.99
21IDV 0050	17P100531	64.0	75.1	92.3	8	Intermediate	21.55
21IDV 0051	17P100545	63.5	72.5	90.5	7	Intermediate-high	23.76
21IDV 0052	17P100546	64.0	73.3	94.3	13	Intermediate-high	22.32
21IDV 0053	17P100647	63.2	69.6	92.5	14	Intermediate-high	21.44
21IDV 0054	17P100648	57.0	76.1	90.4	13	Intermediate-high	22.34
21IDV 0055	17P100665	61.5	70.7	92.4	13	Intermediate-high	21.56
21IDV 0056	17P100684	60.2	72.1	93.0	14	Intermediate-high	20.41
21IDV 0057	17P100687	62.2	68.3	93.5	9	Intermediate-high	23.04
21IDV 0058	17P100688	62.5	73.5	94.4	12	Intermediate	22.11
21IDV 0059	18P100696	54.6	69.1	92.4	5	Intermediate-high	22.43
21IDV 0060	18P100698	58.7	70.6	89.8	7	Intermediate-high	23.54

Continued.

Table 1. Continued.

21IDV 0061	18P100699	60.5	75.0	88.4	11	Intermediate-high	22.40
21IDV 0062	18P100704	58.8	68.6	92.4	12	Intermediate-high	21.33
21IDV 0063	18P100711	61.4	69.0	90.6	5	Intermediate-high	21.45
21IDV 0064	18P100775	60.3	70.4	95.0	5	Intermediate-high	23.45
21IDV 0065	18P100697	61.0	72.5	89.6	7	Intermediate-high	20.45
21IDV 0066	18P100789	65.3	68.9	91.2	10	Intermediate-high	23.00
21IDV 0067	18P100899	64.3	74.2	92.1	10	Intermediate-high	22.50
21IDV 0068	18P100905	60.4	70.3	90.4	9	Intermediate-high	23.03
21IDV 0069	18P100923	59.3	69.4	91.3	8	Intermediate-high	22.87
21IDV 0070	18P100926	63.4	75.1	93.2	12	Intermediate-high	22.45
20IDV 0000	CPRS	64.4	71.3	90.5	11	Intermediate-high	23.25
20IDV 0000	CCDR	60.5	70.1	90.3	10	Intermediate-high	22.54

2. Analyses of Gel Temperature as an indicator of cooking quality among select high protein rice lines grown in 2022 planting.

Table 2. Characteristics of gelling temperature among high protein rice lines grown in 2022 in the field compared with the experimental checks, medium-grain Bengal (BNGL) and long grains Chenier (CHNR), Hidalgo (HDLG), Cypress (CPRS) and Dixiebelle (DXBL).

Cell	Sample #	Seed # (Alkali Ratings)*						Average	Gel Temp [†]
		1	2	3	4	5	6		
C1	22-ID-01	4	3	4	3	2	3	3.2	Intermediate-high
C2	22-ID-02	5	6	6	7	4	6	5.7	Low
C3	22-ID-03	7	6	6	6	6	5	6.0	Low
C4	17-IL-HP-01	7	7	5	5	6	7	6.2	Low
B5	17-IL-HP-02	6	4	5	6	6	6	5.5	Low
C6	17-IL-HP-05	2	3	3	3	4	4	3.2	Low
C7	17-IL-HP-11	3	4	4	7	5	6	4.8	Low
C8	22-ID-04	4	2	3	3	4	4	3.3	Intermediate-high
C9	22-ID-07	2	3	3	3	4	3	3.0	Intermediate-high
C10	22-ID-09	4	2	4	2	4	3	3.2	Intermediate-high
C11	22-ID-12	4	3	4	2	3	3	3.2	Intermediate-high
C12	22-ID-14	2	3	4	3	3	3	3.0	Intermediate-high
C13	22-ID-16	3	4	3	4	3	4	3.5	Intermediate-high
C14	22-ID-18	3	4	2	3	3	4	3.2	Intermediate-high
C15	22-ID-21	4	3	4	3	2	2	3.0	Intermediate-high
C16	22-ID-23	5	4	3	2	3	3	3.3	Intermediate-high
C17	22-ID-27	3	4	4	3	2	3	3.2	Intermediate-high
C18	22-ID-29	4	4	2	2	3	4	3.2	Intermediate-high
C19	22-ID-32	4	4	3	3	3	3	3.3	Intermediate-high
C20	22-ID-34	4	4	2	2	3	3	3.0	Intermediate-high
C21	22-ID-43	5	3	3	3	5	2	3.5	Intermediate-high
C22	22-ID-45	3	5	3	2	3	2	3.0	Intermediate-high
C23	22-ID-51	3	4	3	2	3	4	3.2	Intermediate-high
C24	22-ID-54	3	5	3	2	2	3	3.0	Intermediate-high
C25	22-ID-55	5	3	3	4	3	2	3.3	Intermediate-high
C26	22-ID-57	4	3	2	3	3	3	3.0	Intermediate-high
C27	22-ID-58	2	4	2	4	3	3	3.0	Intermediate-high
C28	22-ID-61	4	3	2	2	3	3	2.8	Intermediate-high
C29	22-ID-64	4	5	3	3	2	3	3.3	Intermediate-high
C30	22-ID-65	5	4	3	2	2	4	3.3	Intermediate-high
C31	22-ID-70	2	4	2	4	3	3	3.0	Intermediate-high
C32	22-ID-72	5	3	3	3	3	2	3.2	Intermediate-high
C33	22-ID-74	4	4	2	2	3	3	3.0	Intermediate-high

Continued.

Table 2. Continued.

C34	22-ID-75	3	4	3	2	3	4	3.2	Intermediate-high
C35	22-ID-77	3	3	3	3	3	5	3.3	Intermediate-high
C36	22-ID-79	4	4	2	3	3	3	3.2	Intermediate-high
C37	22-ID-80	3	4	3	3	3	5	3.5	Intermediate-high
C38	22-ID-87	3	4	3	2	3	3	3.0	Intermediate-high
C39	22-ID-88	4	3	3	2	4	4	3.3	Intermediate-high
C40	22-ID-91	5	3	3	3	2	3	3.2	Intermediate-high
C41	22-ID-92	3	4	3	2	2	3	2.8	Intermediate-high
C42	22-ID-101	2	2	3	4	4	4	3.2	Intermediate-high
C43	22-ID-103	3	3	3	4	4	3	3.3	Intermediate-high
C44	22-ID-105	4	3	3	2	4	4	3.3	Intermediate-high
C45	22-ID-106	4	3	2	2	3	4	3.0	Intermediate-high
C46	22-ID-108	4	3	2	3	3	4	3.2	Intermediate-high
C47	22-ID-109	3	5	3	2	2	3	3.0	Intermediate-high
C48	22-ID-120	3	3	3	5	4	3	3.5	Intermediate-high
C49	22-ID-123	4	4	3	2	3	3	3.2	Intermediate-high
C50	22-ID-125	4	2	5	3	2	3	3.2	Intermediate-high
C51	22-ID-126	4	4	2	3	2	3	3.0	Intermediate-high
C52	22-ID-127	4	4	3	2	2	3	3.0	Intermediate-high
C53	22-ID-130	3	3	5	2	3	3	3.2	Intermediate-high
C54	22-ID-145	3	3	5	2	3	2	3.0	Intermediate-high
C55	22-ID-156	2	4	2	4	3	3	3.0	Intermediate-high
C56	22-ID-157	4	2	4	3	3	4	3.3	Intermediate-high
C57	22-ID-176	3	3	3	2	4	3	3.0	Intermediate-high
C58	22-ID-178	4	2	3	3	3	2	2.8	Intermediate-high
C59	22-ID-180	4	2	2	3	3	5	3.2	Intermediate-high
C60	22-ID-189	5	2	3	3	3	4	3.3	Intermediate-high
C61	22-ID-193	3	3	3	2	3	3	2.8	Intermediate-high
C62	22-ID-198	4	4	3	3	2	3	3.2	Intermediate-high
C63	22-ID-189	3	5	3	3	3	3	3.3	Intermediate-high
C64	22-ID-190	4	3	3	3	3	3	3.2	Intermediate-high
C65	22-ID-267	3	4	4	2	3	3	3.2	Intermediate-high
C66	22-ID-345	3	5	3	2	3	4	3.3	Intermediate-high
C67	22-ID-347	2	4	3	4	4	2	3.2	Intermediate-high
C68	22-ID-367	4	3	2	3	2	4	3.0	Intermediate-high
C69	22-ID-378	4	3	3	3	4	3	3.3	Intermediate-high
C70	22-ID-489	3	4	2	2	3	4	3.0	Intermediate-high
C71	22-ID-390	3	3	4	2	3	3	3.0	Intermediate-high
C72	22-ID-392	5	3	3	2	3	2	3.0	Intermediate-high
C73	22-ID-399	4	2	3	3	4	3	3.2	Intermediate-high
C74	22-ID-402	3	4	4	2	2	4	3.2	Intermediate-high
C75	22-ID-448	3	5	3	2	3	3	3.2	Intermediate-high
C76	22-ID-491	4	3	2	3	2	3	2.8	Intermediate-high
C77	22-ID-493	3	4	4	2	3	3	3.2	Intermediate-high
C78	22-ID-498	3	4	3	2	3	3	3.0	Intermediate-high
C79	22-ID-499	3	4	3	2	2	4	3.0	Intermediate-high
C80	22-ID-501	3	3	3	3	3	4	3.2	Intermediate-high
C81	22-ID-513	3	4	3	3	3	2	3.0	Intermediate-high
C82	22-ID-515	4	3	2	3	4	3	3.2	Intermediate-high
C83	22-ID-518	3	5	2	3	3	3	3.2	Intermediate-high
C84	22-ID-521	4	4	2	4	3	3	3.3	Intermediate-high
C85	22-ID-541	3	5	3	2	3	3	3.2	Intermediate-high
C86	22-ID-602	5	3	3	3	3	3	3.3	Intermediate-high

Continued.

Table 2. Continued.

C87	22-ID-604	4	3	3	2	4	4	3.3	Intermediate-high
C88	22-ID-605	3	3	2	3	4	4	3.2	Intermediate-high
C89	22-ID-607	3	3	3	3	4	3	3.2	Intermediate-high
C80	22-ID-608	4	3	2	2	4	3	3.0	Intermediate-high
C91	22-ID-621	3	5	3	3	3	3	3.3	Intermediate-high
C92	22-ID-632	4	3	3	2	3	4	3.2	Intermediate-high
C93	22-ID-635	4	3	2	3	4	3	3.2	Intermediate-high
C94	22-ID-737	3	4	3	2	3	4	3.2	Intermediate-high
C95	22-ID-738	4	4	3	2	3	4	3.3	Intermediate-high
C96	22-ID-842	2	5	2	3	3	3	3.0	Intermediate-high
C97	22-ID-843	3	4	2	2	3	4	3.0	Intermediate-high
C98	22-ID-851	4	4	2	2	3	3	3.0	Intermediate-high
C99	22-ID-869	2	4	3	4	2	4	3.2	Intermediate-high
C100	22-ID-873	4	4	3	2	3	3	3.2	Intermediate-high
C101	22-ID-879	4	4	2	3	3	2	3.0	Intermediate-high
C102	22-ID-902	4	3	2	3	3	3	3.0	Intermediate-high
C103	22-ID-912	3	4	4	3	4	2	3.3	Intermediate-high
C104	22-ID-922	3	4	3	3	4	3	3.3	Intermediate-high
C105	22-ID-932	3	4	3	2	4	3	3.2	Intermediate-high
C106	22-ID-941	5	3	3	2	2	4	3.2	Intermediate-high
C107	22-ID-943	4	3	3	3	3	4	3.3	Intermediate-high
C108	22-ID-947	3	2	3	2	5	4	3.2	Intermediate-high
C109	22-ID-953	5	3	3	3	3	2	3.2	Intermediate-high
C100	22-ID-954	3	4	2	3	4	3	3.2	Intermediate-high
C101	22-ID-965	5	3	4	2	2	2	3.0	Intermediate-high
C102	22-ID-976	4	3	4	2	2	5	3.3	Intermediate-high
C103	22-ID-979	3	4	2	2	3	4	3.0	Intermediate-high
C104	22-ID-982	3	5	3	2	3	3	3.2	Intermediate-high
C105	22-ID-984	4	4	3	2	3	2	3.0	Intermediate-high
C106	22-ID-987	2	3	3	4	3	3	3.0	Intermediate-high
C107	22-ID-988	2	4	3	3	3	4	3.2	Intermediate-high
C108	22-ID-994	4	3	2	3	3	3	3.0	Intermediate-high
C109	22-ID-995	2	4	3	4	3	3	3.2	Intermediate-high
C110	22-ID-997	3	4	4	2	3	3	3.2	Intermediate-high
C111	22-ID-998	3	4	3	4	3	3	3.3	Intermediate-high
C112	22-ID-994	3	2	3	2	4	5	3.2	Intermediate-high
C113	22-ID-999	3	3	4	3	3	3	3.2	Intermediate-high
C114	22-ID-1003	3	4	4	2	3	3	3.2	Intermediate-high
C115	22-ID-1008	3	5	2	2	4	4	3.3	Intermediate-high
C116	22-ID-1011	2	3	4	4	3	2	3.0	Intermediate-high
C117	22-ID-1023	4	3	2	3	3	3	3.0	Intermediate-high
C118	22-ID-1025	4	3	2	3	3	2	2.8	Intermediate-high
C119	22-ID-1029	4	4	2	3	2	3	3.0	Intermediate-high
C120	22-ID-1033	4	3	3	2	3	4	3.2	Intermediate-high
A1	BNGL	5	5	6	6	6	7	5.8	Low
A2	CHNR	3	4	4	2	4	3	3.3	Intermediate-high
A3	HDLG	2	2	2	2	2	2	2.0	High
A4	DXBL	3	3	3	2	3	4	3.0	Intermediate-high
A5	CPRS	4	4	3	4	3	4	3.7	Intermediate-high

* The degree of spreading was determined by incubating six grains of milled rice in 10 ml of 1.7% KOH for 24 hours at 30 °C using a seven-point score (7=completely spread, and 1=no reaction).

† The gelatinization temperature of starch was estimated based on spreading value and determined as Low (6-7); Intermediate (4-5); Intermediate-high (3); and High (1-2).

3. Analyses of Crude Protein Content of High Protein Rice Lines from the 2022 Replicated Head-row Trials evaluated at the H. Caffey Rice Research Station, Crowley, LA.

Crude protein content among promising high protein lines was analyzed using the N Combustion Analyzer through high temperature digestion of samples at 850 to 1,200 °C. The values presented are based on averaged crude N content from the 2022 replicated head-row trials. Data collected from these tests will be used to select lines to be advanced to PY trials. The PY tests will employ a bigger plot size to allow for grain yield evaluations.

Table 3. Averaged crude protein content of 100 high protein lines in the 2022 replicated trials at the H. Rouse Caffey Rice Research Station, near Crowley, LA.

No.	Genotype	Mass	N-Cont.	Crude Protein Content	No.	Genotype	Mass	N-Cont.	Crude Protein Content
1	18R-8001pan3	0.11	1.86	11.63	51	18R -8144pan1	0.13	1.98	12.38
2	18R-8002pan2	0.10	1.86	11.63	52	18R -8146pan8	0.12	1.98	12.38
3	18R-8005pan2	0.15	1.96	12.25	53	18R -8148pan3	0.10	1.98	12.38
4	18R-8021pan7	0.11	1.71	10.69	54	18R -8149pan5	0.12	1.87	11.69
5	18R-8022pan3	0.12	1.62	10.13	55	18R -8153pan3	0.11	1.92	12.00
6	18R-8023pan1	0.13	2.21	13.81	56	18R -8156pan7	0.13	1.89	11.81
7	18R-8034pan1	0.14	1.98	12.38	57	18R -8195pan2	0.13	1.78	11.13
8	18R-8042pan3	0.10	1.96	12.25	58	18R -8198pan2	0.12	2.09	13.06
9	18R-8043pan2	0.11	1.76	11.00	59	18R -8201pan1	0.09	2.24	14.00
10	18R-8043pan3	0.14	1.88	11.75	60	18R -8203pan2	0.10	2.05	12.81
11	18R-8045pan4	0.12	1.96	12.25	61	18R -8205pan2	0.11	2.34	14.63
12	17R -8047pan3	0.13	1.78	11.13	62	18R -8206pan2	0.13	2.22	13.88
13	18R -8048pan5	0.12	1.85	11.56	63	18R -8207pan5	0.12	1.94	12.13
14	18R -8053pan2	0.11	2.46	15.38	64	18R -8208pan1	0.10	1.79	11.19
15	18R -8057pan8	0.10	2.27	14.19	65	18R -8211pan5	0.11	2.04	12.75
16	18R -8062pan3	0.10	1.92	12.00	66	18R -8215pan3	0.10	1.89	11.81
17	18R -8063pan1	0.13	2.45	15.31	67	18R -8218pan8	0.14	1.65	10.31
18	18R -8065pan3	0.14	2.21	13.81	68	18R -8221pan3	0.11	2.09	13.06
19	18R -8067pan2	0.11	2.32	14.50	69	18R -8223pan4	0.15	2.25	14.06
20	18R -8069pan5	0.12	2.04	12.75	70	18R -8235pan3	0.10	2.06	12.88
21	18R -8070pan4	0.14	2.11	13.19	71	18R -8237pan6	0.11	2.4	15.00
22	18R -8072pan1	0.14	2.29	14.31	72	18R -8238pan1	0.15	1.92	12.00
23	18R -8075pan5	0.12	2.32	14.50	73	18R -8245pan3	0.12	2.41	15.06
24	18R -8077pan3	0.12	1.71	10.69	74	18R -8265pan2	0.11	2.23	13.94
25	18R -8081pan5	0.12	2	12.50	75	18R -8269pan6	0.13	2.32	14.50
26	18R -8086pan1	0.12	2.39	14.94	76	18R -8276pan4	0.11	2.03	12.69
27	18R -8090pan4	0.14	1.89	11.81	77	18R -8278pan6	0.11	2.12	13.25
28	18R -8092pan9	0.12	1.93	12.06	78	18R -8287pan8	0.11	1.89	11.81
29	18R -8094pan3	0.12	2.08	13.00	79	18R -8289pan3	0.14	1.93	12.06
30	18R -8096pan6	0.14	2.09	13.06	80	18R -8292pan7	0.10	2.25	14.06
31	18R -8097pan3	0.13	1.96	12.25	81	18R -8294pan1	0.13	2.17	13.56
32	18R -8099pan2	0.11	2.19	13.69	82	18R -8298pan1	0.13	2.32	14.50
33	18R -8102pan9	0.11	2.33	14.56	83	18R -8299pan4	0.10	1.96	12.25

Continued.

Table 3 Continued.

34	18R -8104pan4	0.14	2.43	15.19	84	18R -8341pan5	0.13	2.17	13.56
35	18R -8105pan3	0.12	2.2	13.75	85	18R -8354pan8	0.10	2.32	14.50
36	18R -8108pan3	0.11	2.15	13.44	86	18R -8358pan2	0.09	2.42	15.13
37	18R -8109pan6	0.12	2.04	12.75	87	18R -8376pan2	0.09	2.21	13.81
38	18R -8111pan1	0.14	2.37	14.81	88	18R -8467pan6	0.15	2.15	13.44
39	18R -8114pan7	0.13	2.2	13.75	89	18R -8488pan2	0.12	2.06	12.88
40	18R -8118pan1	0.12	2.19	13.69	90	18R -8498pan1	0.13	2.15	13.44
41	18R -8112pan4	0.12	2.32	14.50	91	18R -8533pan6	0.11	1.89	11.81
42	18R -8123pan2	0.12	2.42	15.13	92	18R -8537pan4	0.14	1.93	12.06
43	18R -8131pan1	0.15	2.21	13.81	93	18R -8540pan6	0.12	2.16	13.50
44	18R -8132pan1	0.14	1.87	11.69	94	18R -8581pan8	0.13	1.96	12.25
45	18R -8133pan4	0.11	1.91	11.94	95	18R -8582pan1	0.11	1.63	10.19
46	18R -8138pan4	0.12	1.71	10.69	96	18R -8590pan1	0.11	1.91	11.94
47	18R -8139pan6	0.12	1.92	12.00	97	18R -8593pan6	0.14	1.96	12.25
48	18R -8141pan3	0.15	1.96	12.25	98	18R -8592pan5	0.13	2.01	12.56
49	18R -8142pan2	0.14	1.72	10.75	99	18R -8599pan3	0.12	2.11	13.19
50	18R -8143pan8	0.12	2.21	13.81	100	18R -8607pan7	0.12	1.95	12.19

4. Crude Protein Content of New Developed Lines

Every year, newer versions of high protein rice lines are developed through a series of mutational experiments. In the 2022 planting season, field tests were carried out for the 120 promising lines previously selected from 1,400 newly developed high protein lines (Table 4). In addition to high protein content, selections were emphasized also on grain quality aspects. The ten most promising lines that have stable protein content will be advanced to the replicated head-row and PY trials in the next growing season.

Table 4. Grain crude protein content (GCPC) of newly developed rice lines. The GCPC was determined using the N Combustion Analyzer through high temperature digestion of samples at 850 to 1,200 °C.

No.	Genotype	Mass	N-Cont.	Crude Protein Content	No.	Genotype	Mass	N-Cont.	Crude Protein Content
1	19R -9001 pan1	0.12	1.99	12.44	61	19R -9211 pan7	0.13	1.98	12.38
2	19R -9007 pan5	0.15	1.72	10.75	62	19R -9214 pan1	0.12	1.99	12.44
3	19R -9009 pan4	0.11	2.32	14.50	63	19R -9218 pan1	0.11	1.92	12.00
4	19R -9010 pan2	0.10	1.99	12.44	64	19R -9278 pan4	0.11	1.89	11.81
5	19R -9013 pan3	0.11	2.3	14.38	65	19R -9285 pan2	0.15	1.78	11.13
6	19R -9017 pan7	0.13	1.6	10.00	66	19R -9288 pan8	0.13	2.09	13.06
7	19R -9018 pan6	0.14	1.79	11.19	67	19R -9305 pan5	0.13	2.24	14.00
8	19R -9023 pan6	0.11	1.86	11.63	68	19R -9306 pan9	0.11	2.05	12.81
9	19R -9027 pan8	0.13	1.99	12.44	69	19R -9307 pan4	0.09	2.34	14.63
10	19R -9028 pan1	0.14	1.66	10.38	70	19R -9308 pan6	0.10	2.22	13.88
11	19R -9029 pan2	0.12	1.86	11.63	71	19R -9310 pan3	0.11	1.94	12.13
12	19R -9031 pan3	0.12	1.62	10.13	72	19R -9312 pan6	0.12	1.69	10.56
13	19R -9035 pan6	0.12	2.21	13.81	73	19R -9313 pan4	0.12	2.3	14.38
14	19R -9036 pan2	0.15	1.98	12.38	74	19R -9319 pan7	0.09	1.66	10.38
15	19R -9037 pan1	0.10	1.96	12.25	75	19R -9325 pan1	0.11	1.79	11.19
16	19R -9039 pan6	0.11	1.75	10.94	76	19R -9331 pan1	0.10	1.86	11.63
17	19R -9040 pan4	0.10	1.84	11.50	77	19R -9334 pan2	0.11	1.99	12.44

Continued.

Table 4. Continued.

18	19R -9065 pan8	0.09	2.46	15.38	78	19R -9337 pan8	0.10	1.66	10.38
19	19R -9069 pan2	0.11	2.27	14.19	79	19R -9338 pan2	0.09	1.86	11.63
20	19R -9089 pan5	0.10	1.92	12.00	80	19R -9345 pan8	0.14	2.23	13.94
21	19R -9098 pan7	0.14	1.92	12.00	81	19R -9346 pan8	0.13	2.08	13.00
22	19R -9103 pan1	0.13	1.66	10.38	82	19R -9349 pan6	0.13	2.39	14.94
23	19R -9106 pan7	0.14	1.84	11.50	83	19R -9350 pan5	0.12	1.89	11.81
24	19R -9145 pan5	0.12	2.23	13.94	84	19R -9351 pan1	0.10	1.93	12.06
25	19R -9151 pan7	0.10	1.79	11.19	85	19R -9355 pan8	0.12	2.08	13.00
26	19R -9152 pan1	0.13	2.09	13.06	86	19R -9357 pan2	0.12	2.41	15.06
27	19R -9155 pan1	0.12	1.89	11.81	87	19R -9359 pan5	0.12	2.25	14.06
27	19R -9160 pan2	0.11	2.09	13.06	88	19R -9360 pan1	0.11	2.32	14.50
29	19R -9161 pan1	0.15	1.96	12.25	89	19R -9361 pan7	0.14	2.03	12.69
30	19R -9158 pan2	0.13	2.17	13.56	90	19R -9363 pan6	0.12	2.14	13.38
31	19R -9159 pan1	0.12	2.35	14.69	91	19R -9366 pan6	0.12	1.79	11.19
32	19R -9160 pan7	0.11	2.43	15.19	92	19R -9374 pan5	0.09	2.24	14.00
33	19R -9161 pan3	0.14	2.21	13.81	93	19R -9377 pan3	0.13	2.05	12.81
34	19R -9163 pan2	0.11	2.15	13.44	94	19R -9379 pan2	0.11	2.34	14.63
35	19R -9166 pan3	0.12	2.04	12.75	95	19R -9382 pan3	0.12	2.22	13.88
36	19R -9165 pan7	0.12	2.42	15.13	96	19R -9385 pan9	0.10	1.94	12.13
37	19R -9167 pan1	0.13	2.22	13.88	97	19R -9387 pan6	0.10	1.79	11.19
38	19R -9171 pan2	0.12	2.15	13.44	98	19R -9388 pan6	0.10	2.04	12.75
39	19R -9172 pan6	0.11	2.04	12.75	99	19R -9395 pan2	0.11	1.96	12.25
40	19R -9175 pan3	0.13	2.37	14.81	100	19R -9396 pan4	0.11	1.61	10.06
41	19R -9177 pan3	0.13	2.22	13.88	101	19R -9398 pan3	0.11	1.62	10.13
42	19R -9178 pan5	0.11	1.98	12.38	102	19R -9404 pan8	0.15	2.21	13.81
43	19R -9180 pan8	0.13	1.81	11.31	103	19R -9409 pan1	0.14	1.98	12.38
44	19R -9186 pan2	0.14	2.08	13.00	104	19R -9423 pan1	0.13	1.96	12.25
45	19R -9185 pan5	0.12	1.95	12.19	105	19R -9456 pan1	0.11	1.79	11.19
46	19R -9186 pan2	0.12	2.12	13.25	106	19R -9459 pan7	0.13	1.84	11.50
47	19R -9188 pan1	0.11	1.67	10.44	107	19R -9460 pan1	0.12	2.46	15.38
48	19R -9189 pan7	0.10	2.02	12.63	108	19R -9467 pan7	0.12	2.27	14.19
49	19R -9190 pan1	0.10	2.07	12.94	109	19R -9468 pan4	0.12	1.92	12.00
50	19R -9191 pan1	0.10	1.87	11.69	110	19R -9476 pan5	0.13	2.41	15.06
51	19R -9193 pan5	0.12	1.79	11.19	111	19R -9377 pan2	0.10	1.92	12.00
52	19R -9196 pan1	0.12	2.08	13.00	112	19R -9478 pan7	0.12	1.89	11.81
53	19R -9197 pan2	0.14	2.42	15.13	113	19R -9479 pan8	0.11	1.78	11.13
54	19R -9199 pan7	0.12	2.21	13.81	114	19R -9484 pan4	0.12	2.09	13.06
55	19R -9102 pan4	0.13	1.86	11.63	115	19R -9487 pan2	0.12	2.24	14.00
56	19R -9105 pan2	0.1	1.91	11.94	116	19R -9489 pan1	0.15	2.05	12.81
57	19R -9109 pan6	0.11	1.71	10.69	117	19R -9494 pan2	0.11	2.34	14.63
58	19R -9201 pan1	0.15	1.94	12.13	118	19R -9495 pan4	0.11	2.21	13.81
59	19R -9205 pan5	0.14	1.96	12.25	119	19R -9497 pan3	0.12	2.23	13.94
60	19R -9209 pan1	0.13	1.72	10.75	120	19R -9498 pan7	0.14	2.35	14.69

5. Herbicide Resistant Rice

This section gives a brief update on the research efforts on developing herbicide resistant rice that involve two separate studies, i.e., associated with 1) broad-spectrum, Glyphosate [N-(phosphonomethyl) glycine], and 2) narrow spectrum, (S-metolachlor), herbicides.

5.a. Laboratory evaluation of glyphosate resistant rice lines

Last year's research activities continued to focus on conducting an elevated screening level starting with 1X rate of Round Up that was applied to rice seedlings of 3-5 leaf stage. Standardized screening methodologies that provide consistent screening have been established. Genetic stability of the seven tolerant rice lines that were previously identified showed three of the lines capable of tolerating glyphosate above 0.75 X levels consistently. The active ingredient of glyphosate is an organophosphorus compound capable of eradicating many weeds, including annual broadleaf weeds and grasses that compete with crops.

5.b. Laboratory and incubator evaluation for Dual Magnum (S-metolachlor)-resistant rice lines

The segregation studies conducted last year indicated that two of nine plants expressed their herbicide tolerance and the results of their progeny analyses revealed that their resistance is governed by a single co-dominant gene. Both lines were the progenies of the 1X-surviving lines that were originally identified from field spray studies. The field screening used an M₃ rice mutant population that was sprayed using a recommended 1X spray rate. S-metolachlor is an organic compound of aniline derivative. It is a member of the chloroacetanilide herbicide family. Herbicide S-metolachlor is in a different class compared with glyphosate, the Imidazolinones (ALS inhibitor), Acetyl-CoA carboxylase inhibitor (Provisia), or glyphosate (Round Up). It controls most annual grasses and small-seeded broadleaf weeds. It has flexible application timing with early preplant, pre-emergence and post applied options.

RICE AGRONOMY

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INTRODUCTION

The following report documents research conducted in rice plant nutrition, cultural management, and rice rotational crops. Rice plant nutrition studies were conducted at the LSU AgCenter H. Rouse Caffey Rice Research Station (HRCRRS) and at multiple off-station locations to generate agronomic production information representative of all Louisiana rice production areas. Rice nutrition studies were conducted in Acadia at the HRCRRS, St. Landry, Tensas at Northeast Research Station, and Richland parishes. Cultural management studies were conducted at the HRCRRS north and south units.

The latter part of the 2022 growing season was challenging due to excessive and continuous rainfall which delayed the main crop harvest, rutted the fields, and negatively impacted the yield of ratoon crop.

We would like to express our sincere appreciation to the following off-station cooperators for their assistance in conducting this research. Our efforts would not be successful without their support:

Charlie Fontenot – St. Landry Parish
Northeast Research Station – Tensas Parish
Woodsland Plantation and Ashley Dixon – Richland Parish

Throughout this section, multiple abbreviations are used to represent common units of measure and agricultural chemicals; these abbreviations are explained below in Tables 1 and 2, respectively.

Table 1. Common abbreviations used in agronomic research at the H. Rouse Caffey Rice Research Station (HRCRRS).

Abbreviation	Explanation
A	Acre
ANOVA	Analysis of variance
bu/A	Bushels per acre
Ca	Calcium
COC	Crop oil concentrate
DAT	Days after treatment
DPF	Days pre flood
DPP	Days prior to planting
Fe	Iron
ft	Feet
ft ²	Square feet
gal/A	Gallons product per acre
Head Rice	Percent unbroken kernels left after milling
in	Inches
lb	Pounds
lb/A	Pounds product per acre
lb ai/A	Pounds active ingredient per acre
Ldg-Rate	Lodging rate in percent
Ldg-Type	Lodging type on a scale from 0 to 5; where 0 = no lodging, 1 = slightly lodged (approximately 1 - 23° angle) and 5 = lodged to ground (90° angle)
K	Potassium
Main	First rice crop; crop growth stage prior to first harvest
Mg	Magnesium
Mn	Manganese
Mo	Molybdenum
N	Nitrogen
Na	Sodium
NA	Information not available/applicable
NUE	Nitrogen use efficiency
oz/A	Ounces product per acre
P	Phosphorus
PD	Panicle differentiation
PI	Panicle initiation
pl/m ²	Plant densities measured 14 days after seeding emergence by counting the main-stem numbers in a randomly selected area of 1 m ² in each plot
Postharvest	Application applied immediately following main crop harvest
ppm	Parts per million
PRE	Application prior to crop emergence
Preflood	Preflood application applied 1 to 2 days prior to permanent flood establishment
Preplant	Preplanting application prior to flooding and seeding
pt/A	Pints product per acre
Ratoon	Second rice crop; crop growth after harvest of first (main) crop
HRCRRS	H. Rouse Caffey Rice Research Station, Crowley, LA
RGY	Relative grain yield
S	Sulfur
SB Severity	Sheath blight infestation on a scale from 1 to 9; where 1 = no sheath blight and 9 = severe sheath blight infestation
Total Mill	Percent of rice kernels left after milling
Zn	Zinc
10% Heading (HD)	Crop growth stage where 10% of plants within a plot have visible panicles
50% Heading (HD)	Number of days from effective seeding date to 50% panicle exertion

Table 2. Common crop protection chemicals and formulations used in agronomic research at the H. Rouse Caffey Rice Research Station (HRCRRS).

Trade Name	Common Name	Formulation	Company
<u>Herbicides</u>			
Aim	carfentrazone	EC2	FMC Corp.
Arrosolo	propanil + molinate	3 lb + 3 lb	RiceCo, LLC
Basagran	bentazon	4 lb	BASF
Clincher	cyhalofop	2.38 lb	Dow AgroSciences, LLC
Command	clomazone	3ME	FMC Corp.
Duet	propanil + bensulfuron	4 lb + 0.48 oz	RiceCo LLC
Grandstand R	triclopyr	3 lb	Dow AgroSciences, LLC
Grasp	Penoxsulam	SC2	Dow AgroSciences, LLC
Gambit	Halosulfuron-methyl + prosulfuron	50% + 29%	Gowan
Honcho Plus	glyphosate	4 lb	Monsanto
Liberty	glufosinate ammonium	18.19%	Bayer CropSciences
Londax	bensulfuron	60% DF	DuPont
Newpath	imazethapyr	2 lb	BASF
Permit	halosulfuron	75% WSG	Monsanto
Prowl	pendimethalin	EL 3.3	BASF
Regiment	bispyribac-sodium	80% DF	Valent USA
RiceBeaux	propanil + thiobencarb	3 lb + 3 lb	RiceCo, LLC
Ricestar HT	fenoxaprop-P-ethyl	0.58 lb	Bayer Crop Sciences
Roundup Weatherman	glyphosate	4 lb	Monsanto
Sharpen	saflufenacil	2.85 lb	BASF
Stam M4	propanil	4 lb	Dow AgroSciences, LLC
Weedar 64	2,4-D	3.8 lb	Aventis
<u>Insecticides</u>			
Dermacor X-100	rynaxypyr		DuPont
Karate Z	cyhalothrin	2.08 lb	Syngenta
Mustang Maxx	zeta-cypermethrin	0.8 lb	FMC Corp.
Methyl Parathion	methyl Parathion	4 lb	Cheminova
<u>Fungicides</u>			
Amistartop	Azoxystrobin + difenoconazole	1.67 lb + 1.05 lb	Dow AgroSciences, LLC
Diathane DF	mancozeb	75% DF	Dow AgroSciences, LLC
Stratego	propiconazole + trifloxystrobin	1.04 lb + 1.04 lb	Bayer Crop Science, LLC
Quadris	azoxystrobin	2.08 lb	Syngenta
Quilt	azoxystrobin + propiconazole	1.04 lb + 0.62 lb	Syngenta

RICE FERTILITY AND CULTURAL PRACTICE RESEARCH

I.L.B. Pabuayon, M. Kongchum, J.P. Leonards, J.S. Fluitt, J.R. Hartman, and M.J. Breaux

INTRODUCTION

The following research focuses on rice production. Research topics include variety by nitrogen response, hybrid by nitrogen response, fertilizer application timing, fertilizer application rate, fertilizer source, fertilizer management in furrow irrigation rice (row rice) system, and ratoon rice research.

Data Analysis and Reporting

All data presented in Tables 3-72 were analyzed using the Generalized Linear Mixed Model Procedure in SAS 9.4 (SAS Institute, 2013). Fertility, seeding rate, and cultural management treatments were treated as fixed effects and replication was treated as random effect (Littell et al., 2006). Treatment means with significant differences were identified using Fisher's protected test at $\alpha = .05$.

**Agronomic Response of PVL03 to Nitrogen
Fertilizer Rate and Time of Application – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-01
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.25
pH	7.02
Extractable nutrients (ppm)	Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0
Crop/Variety	
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	33 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Jul. 29
Ratoon Harvest date	Nov. 3
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 14
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 3. Agronomic response of PVL03 to nitrogen fertilizer rate and time of application. H. Rouse Caffey Rice Research Station.

Crop		Rice									
Description		Plant-hd		Emer-hd		Tip of Panicle		7/29/2022		11/3/2022	
Rating Date		50% HD		50% HD		Height		Yield		Yield	
Rating Type		days		days		in		lb/A		lb/A	
Rating Unit		Main		Main		Main		Main		Ratoon	
Cropping Cycle		50% HD		50% HD		Height		Yield		Yield	
Trt	Treatment	Rate		Growth		Stage		50% HD		50% HD	
No.	Name	(lb N/A)		Stage		Stage		days		days	
1	UREA	0		4-5 leaf		4-5 leaf		93.3		79.3	
2	UREA	45		4-5 leaf		4-5 leaf		94.5		80.5	
3	UREA	90		4-5 leaf		4-5 leaf		96.3		82.3	
4	UREA	120		4-5 leaf		4-5 leaf		96.3		82.3	
5	UREA	150		4-5 leaf		4-5 leaf		97.0		83.0	
6	UREA	180		4-5 leaf		4-5 leaf		97.5		83.5	
7	UREA	75		4-5 leaf		4-5 leaf		96.5		82.5	
		45		PD		PD					
8	UREA	105		4-5 leaf		4-5 leaf		96.8		82.8	
	UREA	45		PD		PD					
9	UREA	135		4-5 leaf		4-5 leaf		97.5		83.5	
		45		PD		PD					

**Agronomic Response of DG-263L to Nitrogen
Fertilizer Rate and Time of Application – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-02
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.25
pH	7.02
Extractable nutrients (ppm)	Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0
Crop/Variety	
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	33 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 3
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 14
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 4. Agronomic response of DG-263L to nitrogen fertilizer rate and time of application. H. Rouse Caffey Rice Research Station.

Crop Description		Rice		Rice		Rice		Rice		Rice		Rice	
Rating Date		Plant-hd		Emer-hd		Tip of Panicle		8/1/2022		11/3/2022		Total Yield	
Rating Type		50% HD		50% HD		Height		Yield		Yield		lb/A	
Rating Unit		days		days		in		lb/A		lb/A		lb/A	
Cropping Cycle		Main		Main		Main		Main		Ratoon		Main+Ratoon	
Trt	Treatment	Rate	Growth										
No.	Name	(lb N/A)	Stage										
1	UREA	0	4-5 leaf	95.0	c [†]	81.0	c	31.3	c	5208	c	0 [‡]	5208 c
2	UREA	45	4-5 leaf	96.5	b	82.5	b	34.5	b	8305	b	0	8305 b
3	UREA	90	4-5 leaf	98.5	a	84.5	a	38.0	a	9648	a	0	9648 a
4	UREA	120	4-5 leaf	98.8	a	84.8	a	38.3	a	10171	a	0	10171 a
5	UREA	150	4-5 leaf	98.8	a	84.8	a	38.3	a	9786	a	0	9786 a
6	UREA	180	4-5 leaf	99.0	a	85.0	a	39.8	a	9729	a	0	9729 a
7	UREA	75	4-5 leaf	98.5	a	84.5	a	37.3	a	9643	a	0	9643 a
		45	PD										
8	UREA	105	4-5 leaf	99.0	a	85.0	a	39.3	a	9835	a	0	9835 a
	UREA	45	PD										
9	UREA	135	4-5 leaf	99.0	a	85.0	a	37.8	a	9857	a	0	9857 a
		45	PD										

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

[‡] Ratoon yields for all plots and treatments were substantially low due to wet season after the first harvest.

**Agronomic Response of DGL2065 to Nitrogen
Fertilizer Rate and Time of Application – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-03
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.25
pH	7.02
Extractable nutrients (ppm)	Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0
Crop/Variety	
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	33 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 3
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 14
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 5. Agronomic response of DGL2065 to nitrogen fertilizer rate and time of application. H. Rouse Caffey Rice Research Station.

Crop	Rice				Rice				Rice				Rice			
Description	Plant-hd		Emer-hd		Tip of Panicle		8/1/2022		11/3/2022		Rice		Rice			
Rating Date	50% HD		50% HD		Height		Yield		Yield		Yield		Total Yield			
Rating Type	days		days		in		lb/A		lb/A		lb/A		lb/A			
Rating Unit	Main		Main		Main		Main		Main		Ratoon		Main+Ratoon			
Cropping Cycle	Main		Main		Main		Main		Main		Ratoon		Main+Ratoon			
Trt	Treatment	Rate	Growth													
No.	Name	(lb N/A)	Stage													
1	UREA	0	4-5 leaf	95.0	e [†]	81.0	e	31.0	d	3119	f	1887	4534	d		
2	UREA	45	4-5 leaf	96.5	d	82.5	d	33.3	c	6501	e	1801	6995	c		
3	UREA	90	4-5 leaf	97.5	c	83.5	c	37.0	b	9247	cd	1377	9635	ab		
4	UREA	120	4-5 leaf	98.5	ab	84.5	ab	38.3	ab	9652	bc	0 [‡]	9652	ab		
5	UREA	150	4-5 leaf	98.8	a	84.8	a	38.0	ab	10061	ab	0	10061	a		
6	UREA	180	4-5 leaf	99.0	a	85.0	a	39.3	a	10784	a	0	10784	a		
7	UREA	75	4-5 leaf	97.3	cd	83.3	cd	37.5	b	8838	d	0	8838	b		
		45	PD													
8	UREA	105	4-5 leaf	97.8	bc	83.8	bc	39.5	a	10238	ab	0	10238	a		
	UREA	45	PD													
9	UREA	135	4-5 leaf	99.0	a	85.0	a	38.5	ab	10213	ab	0	10213	a		
		45	PD													

**Agronomic Response of DGM004 to Nitrogen
Fertilizer Rate and Time of Application – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-04
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.25
pH	7.02
Extractable nutrients (ppm)	Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0
Crop/Variety	
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	33 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 3
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 14
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 6. Agronomic response of DGM004 to nitrogen fertilizer rate and time of application. H. Rouse Caffey Rice Research Station.

Crop		Rice	Rice	Rice	Rice	Rice	Rice	Rice	
Description		Plant-hd	Emer-hd	Tip of Panicle		8/1/2022		11/3/2022	
Rating Date		50% HD	50% HD	Height		Yield		Yield	
Rating Type		days	days	in		lb/A		lb/A	
Rating Unit		Main	Main	Main		Main		Ratoon	
Cropping Cycle		Main	Main	Main		Main		Main+Ratoon	
Trt	Treatment	Rate		Growth					
No.	Name	(lb N/A)		Stage					
1	UREA	0	4-5 leaf	98.0	84.0	29.3	d [†]	2351	e
2	UREA	45	4-5 leaf	98.0	84.0	30.8	d	4847	d
3	UREA	90	4-5 leaf	98.5	84.5	33.8	abc	6879	bc
4	UREA	120	4-5 leaf	98.5	84.5	33.3	bc	7121	b
5	UREA	150	4-5 leaf	98.5	84.5	33.5	bc	7047	bc
6	UREA	180	4-5 leaf	98.8	84.8	35.3	a	8101	a
7	UREA	75	4-5 leaf	98.0	84.0	32.5	c	6307	c
		45	PD						
8	UREA	105	4-5 leaf	98.5	84.5	34.3	ab	6912	bc
	UREA	45	PD						
9	UREA	135	4-5 leaf	98.5	84.5	34.0	abc	7225	b
		45	PD						

**Agronomic Response of CLL16 to Nitrogen
Fertilizer Rate and Time of Application – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-05
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.25
pH	7.02
Extractable nutrients (ppm)	Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0
Crop/Variety	
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	33 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 3
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 14
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
	Underground irrigation
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 00.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 7. Agronomic response of CLL16 to nitrogen fertilizer rate and time of application. H. Rouse Caffey Rice Research Station.

<i>Crop</i>		Rice		Rice		Rice		Rice		Rice	
<i>Description</i>		Plant-hd		Emer-hd		Tip of Panicle		8/1/2022		11/3/2022	
<i>Rating Date</i>		50% HD		50% HD		Height		Yield		Yield	
<i>Rating Type</i>		days		days		in		lb/A		lb/A	
<i>Rating Unit</i>		Main		Main		Main		Main		Ratoon	
<i>Cropping Cycle</i>		Main		Main		Main		Main		Ratoon	
Trt	Treatment	Rate		Growth		Stage		Main		Ratoon	
No.	Name	(lb N/A)		Stage		Main		Main		Ratoon	
1	UREA	0	100.5	4-5 leaf	e [†]	86.5	e	32.5	e	0 [‡]	3816 f
2	UREA	45	101.5	4-5 leaf	de	87.5	de	37.5	d	0	7028 e
3	UREA	90	102.3	4-5 leaf	cd	88.3	cd	39.8	cd	0	9160 cd
4	UREA	120	103.8	4-5 leaf	ab	89.8	ab	42.3	b	0	9727 abc
5	UREA	150	103.3	4-5 leaf	bc	89.3	bc	42.8	b	0	10238 a
6	UREA	180	104.3	4-5 leaf	ab	90.3	ab	45.8	a	0	9927 ab
7	UREA	75	102.5	4-5 leaf	cd	88.5	cd	41.8	bc	0	8785 d
		45		PD							
8	UREA	105	104.5	4-5 leaf	a	90.5	a	44.0	ab	0	9247 bcd
	UREA	45		PD							
9	UREA	135	104.5	4-5 leaf	a	90.5	a	42.3	b	0	10001 a
		45		PD							

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

[‡] Ratoon yields for all plots and treatments were substantially low due to wet season after the first harvest.

**Agronomic Response of AddiJo to Nitrogen
Fertilizer Rate and Time of Application – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-06
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.25
pH	7.02
Extractable nutrients (ppm)	Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0
Crop/Variety	
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	33 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 3
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 14
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 00.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 8. Agronomic response of AddiJo to nitrogen fertilizer rate and time of application. H. Rouse Caffey Rice Research Station.

Crop	Rice										
Description	Plant-hd	Rice Emer-hd	Tip of Panicle		Rice	Rice	Rice	Rice	Rice	Rice	Rice
Rating Date	50% HD	50% HD	Height	Yield	Yield	Yield	Yield	Yield	Yield	Yield	Yield
Rating Type	days	days	in	lb/A	lb/A	lb/A	lb/A	lb/A	lb/A	lb/A	lb/A
Rating Unit	Main	Main	Main	Main	Main	Main	Main	Main	Main	Main	Main
Cropping Cycle	Main	Main	Main	Main	Main	Main	Main	Main	Main	Main	Main
Trt	Treatment	Rate	Growth								
No.	Name	(lb N/A)	Stage								
1	UREA	0	4-5 leaf	99.0	c [†]	85.0	c	32.5	e	3944	e
2	UREA	45	4-5 leaf	99.0	c	85.0	c	35.5	d	6929	d
3	UREA	90	4-5 leaf	100.0	b	86.0	b	37.5	bcd	9167	b
4	UREA	120	4-5 leaf	101.0	a	87.0	a	38.8	abc	9468	ab
5	UREA	150	4-5 leaf	101.0	a	87.0	a	39.0	abc	9474	ab
6	UREA	180	4-5 leaf	101.0	a	87.0	a	39.0	abc	9607	ab
7	UREA	75	4-5 leaf	100.0	b	86.0	b	37.3	cd	8522	c
		45	PD								
8	UREA	105	4-5 leaf	100.8	a	86.8	a	39.8	ab	9388	ab
	UREA	45	PD							0	c
9	UREA	135	4-5 leaf	100.8	a	86.8	a	40.0	a	9936	a
		45	PD							1792	ab
										2032	a
										564	b
										0	c
										9474	ab
										9607	ab
										8522	c
										9388	ab
										0	c
										9388	ab
										1792	ab
										10298	a
										8943	ab
										9945	a
										9474	ab
										1326	ab
										1540	ab
										2054	a
										2113	a
										6056	c
										8442	b
										9749	ab
										9826	ab
										9945	a
										8943	ab
										9474	ab
										9607	ab
										8522	c
										9388	ab
										0	c
										9388	ab
										1792	ab
										10298	a
										8943	ab
										9945	a
										9474	ab
										1326	ab
										1540	ab
										2054	a
										2113	a
										6056	c
										8442	b
										9749	ab
										9826	ab
										9945	a
										8943	ab
										9474	ab
										9607	ab
										8522	c
										9388	ab
										0	c
										9388	ab
										1792	ab
										10298	a
										8943	ab
										9945	a
										9474	ab
										1326	ab
										1540	ab
										2054	a
										2113	a
										6056	c
										8442	b
										9749	ab
										9826	ab
										9945	a
										8943	ab
										9474	ab
										9607	ab
										8522	c
										9388	ab
										0	c
										9388	ab
										1792	ab
										10298	a
										8943	ab
										9945	a
										9474	ab
										1326	ab
										1540	ab
										2054	a
										2113	a
										6056	c
										8442	b
										9749	ab
										9826	ab
										9945	a
										8943	ab
										9474	ab
										9607	ab
										8522	c
										9388	ab
										0	c
										9388	ab
										1792	ab
										10298	a
										8943	ab
										9945	a
										9474	ab
										1326	ab
										1540	ab
										2054	a
										2113	a
										6056	c
										8442	b
										9749	ab
										9826	ab
										9945	a
										8943	ab
										9474	ab
										9607	ab
										8522	c
										9388	ab
										0	c
										9388	ab
										1792	ab
										10298	a
										8943	ab
										9945	a
										9474	ab
										1326	ab
										1540	ab
										2054	a
										2113	a
										6056	c
										8442	b
										9749	ab
										9826	ab
										9945	a
										8943	ab
										9474	ab
										9607	ab
										8522	c
										9388	ab
										0	c
										9388	ab
										1792	ab
										10298	a
										8943	ab
										9945	a
										9474	ab
										1326	ab
										1540	ab
										2054	a
										2113	a
										6056	c
										8442	b
										9749	ab
										9826	ab
										9945	a
										8943	ab
										9474	ab
										9607	ab
										8522	c
										9388	ab
										0	c
										9388	ab
										1792	ab
										10298	a
										8943	ab
										9945	a
										9474	ab
										1326	ab
										1540	ab
										2054	a
										2113	a
										6056	c
										8442	b
										9749	ab
										9826	ab
										9945	a

**Agronomic Response of CLL19 to Nitrogen
Fertilizer Rate and Time of Application – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-07
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.25
pH	7.02
Extractable nutrients (ppm)	Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0
Crop/Variety	
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	33 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Jul. 29
Ratoon Harvest date	Nov. 3
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 14
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 00.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 9. Agronomic response of CLL19 to nitrogen fertilizer rate and time of application. H. Rouse Caffey Rice Research Station.

Crop	Rice												
Description	Plant-hd	Emer-hd	Tip of Panicle		Rice	Rice	Rice	Rice	Rice	Rice			
Rating Date	50% HD	50% HD	Height	Yield	7/29/2022	7/29/2022	7/29/2022	7/29/2022	11/3/2022	11/3/2022			
Rating Type	days	days	in	lb/A	lb/A	lb/A	lb/A	lb/A	lb/A	lb/A			
Rating Unit	Main	Main	Main	Main	Main	Main	Main	Main	Ratoon	Main+Ratoon			
Cropping Cycle	Main	Main	Main	Main	Main	Main	Main	Main	Ratoon	Main+Ratoon			
Trt	Treatment	Rate	Growth										
No.	Name	(lb N/A)	Stage										
1	UREA	0	4-5 leaf	91.0	d†	77.0	d	4311	f	2161	a	6472	d
2	UREA	45	4-5 leaf	93.3	c	79.3	c	7768	e	2358	a	10126	c
3	UREA	90	4-5 leaf	94.5	b	80.5	b	10296	d	2169	a	11922	a
4	UREA	120	4-5 leaf	95.8	a	81.8	a	11364	c	0	c	11364	ab
5	UREA	150	4-5 leaf	96.0	a	82.0	a	11803	ab	1367	b	12174	a
6	UREA	180	4-5 leaf	96.3	a	82.3	a	12088	a	0	c	12088	a
7	UREA	75	4-5 leaf	94.8	b	80.8	b	10043	d	1517	b	10881	bc
		45	PD										
8	UREA	105	4-5 leaf	95.8	a	81.8	a	11445	bc	0	c	11445	ab
	UREA	45	PD										
9	UREA	135	4-5 leaf	96.0	a	82.0	a	11950	a	0	c	11950	a
		45	PD										

**Agronomic Response of Drill-Seeded Avant to Nitrogen
Fertilizer Rate and Time of Application – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-08
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	Crowley silt loam
% Organic matter	1.25
pH	7.02
Extractable nutrients (ppm)	Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0
Crop/Variety	Rice / Avant
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	33 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Jul. 29
Ratoon Harvest date	Nov. 3
Seed treatment/cwt	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	250 lb/A 0-24-24-2.8, Mar. 14
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	Underground irrigation
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 00.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 10. Agronomic response of Avant to nitrogen fertilizer rate and time of application. H. Rouse Caffey Rice Research Station.

Crop	Rice		Rice		Rice		Rice		Rice		Rice	
Description	Plant-hd		Emer-hd		Tip of Panicle		7/29/2022		11/3/2022			
Rating Date	50% HD		50% HD		Height		Yield		Yield		Total Yield	
Rating Type	days		days		in		lb/A		lb/A		lb/A	
Rating Unit	Main		Main		Main		Main		Main		Main+Ratoon	
Cropping Cycle	Main		Main		Main		Main		Main		Main	
Trt	Treatment	Rate	Growth		Stage		Rate		Yield		Rice	
No.	Name	(lb N/A)	Stage		Stage		Rate		Yield		Rice	
1	UREA	0	4-5 leaf		4-5 leaf		89.0 f†		28.3 d		2689 ab	
2	UREA	45	4-5 leaf		4-5 leaf		91.0 e		32.5 c		2871 a	
3	UREA	90	4-5 leaf		4-5 leaf		93.0 cd		34.8 b		2679 ab	
4	UREA	120	4-5 leaf		4-5 leaf		93.3 bc		35.8 ab		2431 abc	
5	UREA	150	4-5 leaf		4-5 leaf		94.0 ab		36.3 ab		2304 bc	
6	UREA	180	4-5 leaf		4-5 leaf		94.3 a		36.5 a		2258 bc	
7	UREA	75	4-5 leaf		4-5 leaf		92.3 d		35.0 ab		2415 bc	
		45	PD		PD		93.3 bc		36.5 a		2211 c	
8	UREA	105	4-5 leaf		4-5 leaf		93.3 bc		36.5 a		2211 c	
	UREA	45	PD		PD		94.0 ab		36.3 ab		2253 bc	
9	UREA	135	4-5 leaf		4-5 leaf		94.0 ab		36.3 ab		2253 bc	
		45	PD		PD		94.0 ab		36.3 ab		2253 bc	
											12575 a	

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of RTv7231 MA to Nitrogen
Fertilizer Rate and Time of Application – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-09
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	Crowley silt loam
% Organic matter	1.25
pH	7.02
Extractable nutrients (ppm)	Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0
Crop/Variety	Rice / RTv7231 Max Ace
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	33 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 3
Seed treatment/cwt	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	250 lb/A 0-24-24-2.8, Mar. 14
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	Underground irrigation
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 11. Agronomic response of RTv7231 MA to nitrogen fertilizer rate and time of application. H. Rouse Caffey Rice Research Station.

<i>Crop</i>											Rice
<i>Description</i>											Rice
<i>Rating Date</i>											11/3/2022
<i>Rating Type</i>											Yield
<i>Rating Unit</i>											lb/A
<i>Cropping Cycle</i>											Main+Ratoon
Trt	Treatment	Rate	Growth	Rice		Rice		Rice		Rice	
No.	Name	(lb N/A)	Stage	Plant-hd	Emer-hd	Tip of Panicle	Yield	Yield	Yield	Ratoon	
1	UREA	0	4-5 leaf	93.0 d†	79.0 d	32.0 c	5596 d	1851 e	6984 d		
2	UREA	45	4-5 leaf	93.0 d	79.0 d	36.3 b	8743 c	1893 d	9197 c		
3	UREA	90	4-5 leaf	94.0 bc	80.0 bc	39.3 ab	10949 b	1759 g	11370 b		
4	UREA	120	4-5 leaf	94.0 bc	80.0 bc	38.8 ab	11413 b	1925 c	11875 ab		
5	UREA	150	4-5 leaf	94.3 ab	80.3 ab	37.0 ab	12661 a	2048 b	13154 a		
6	UREA	180	4-5 leaf	94.3 ab	80.3 ab	40.3 a	11768 ab	2165 a	12290 ab		
7	UREA	75	4-5 leaf	93.8 c	79.8 c	38.5 ab	11344 b	0 i	11344 b		
		45	PD								
8	UREA	105	4-5 leaf	94.0 bc	80.0 bc	39.8 ab	11165 b	1639 h	11556 b		
	UREA	45	PD								
9	UREA	135	4-5 leaf	94.5 a	80.5 a	39.5 ab	11934 ab	1789 f	12360 ab		
		45	PD								

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of CLL18 to Nitrogen
Fertilizer Rate and Time of Application – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-10
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.25
pH	7.02
Extractable nutrients (ppm)	Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0
Crop/Variety	
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	33 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 3
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 14
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 12. Agronomic response of CLL18 to nitrogen fertilizer rate and time of application. H. Rouse Caffey Rice Research Station.

<i>Crop</i>	<i>Rice</i>		<i>Rice</i>	<i>Rice</i>	<i>Rice</i>	<i>Rice</i>	<i>Rice</i>
<i>Description</i>	<i>Plant-hd</i>		<i>Emer-hd</i>	<i>Tip of Panicle</i>		<i>11/3/2022</i>	
<i>Rating Date</i>				7/27/2022		8/1/2022	
<i>Rating Type</i>	50% HD		50% HD	Height		Yield	
<i>Rating Unit</i>	days		days	in		lb/A	
<i>Cropping Cycle</i>	Main		Main	Main		Main	
Trt	Treatment	Rate	Growth				
No.	Name	(lb N/A)	Stage				
1	UREA	0	4-5 leaf	30.3	d	4014	e
2	UREA	45	4-5 leaf	36.0	c	8619	d
3	UREA	90	4-5 leaf	42.0	ab	11041	abcd
4	UREA	120	4-5 leaf	42.3	a	14629	a
5	UREA	150	4-5 leaf	42.3	a	12064	abcd
6	UREA	180	4-5 leaf	43.8	a	13502	ab
7	UREA	75	4-5 leaf	39.5	b	10219	bcd
		45	PD				
8	UREA	105	4-5 leaf	43.3	a	9222	cd
	UREA	45	PD				
9	UREA	135	4-5 leaf	42.0	ab	12813	abc
		45	PD				

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

‡ Ratoon yields for all plots and treatments were substantially low due to wet season after the first harvest.

**Agronomic Response of Drill-Seeded RT7331 MA to Nitrogen
Fertilizer Rate and Time of Application – H. Rouse Caffey Rice Research Station**

Experiment number : 22-CM-41

Site and design :

Location/Cooperator : H. Rouse Caffey Rice Research Station (Crowley Main)

Tillage type..... : Fall Stale

Experimental design..... : Randomized Complete Block Design

Number of reps : 4

Plot size..... : 4.67 x 16 ft

Row width/rows per plot..... : 8 in / 7

Soil type : Crowley silt loam

% Organic matter..... : 1.25

pH..... : 7.02

Extractable nutrients (ppm)..... : Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0

Crop/Variety : Rice / RT7331 Max Ace

Planting method/date : Drill seeded / Mar. 14

Seeding rate/depth..... : 10 seeds ft⁻² / 1.0 inch

Emergence date..... : Mar. 28

Harvest date : Jul. 31

Ratoon Harvest date..... : Nov. 3

Seed treatment/cwt : **Hybrids:**

 Apron (fungicide)

 Dynasty (fungicide)

 Fludioxonil (fungicide)(Maxim)

 Gibberellic Acid

 Sedaxane (fungicide)

 Thiamethoxam (insecticide)

 Zinc

 AV-1011 (bird repellent) – 18.3 oz

 Dermacor – 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, Mar. 14

 90 lb N/A 46-0-0, Aug. 11 (ratoon)

Water management : Underground irrigation

Flush : NA

Flood : May 3

Drain : Jul. 18

Ratoon flood : Aug. 12

Ratoon drain : Oct. 17

Pest management :

Herbicides..... : 1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021

 1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25%
 Surfactant, Mar. 7

 2 pt/A Prowl H₂O + 0.66 oz/A Permit + 1% COC, Apr. 14

 1.5 oz/A Gambit + 1% COC, Apr. 28

 20 oz/A Rebel EX + 1 qt/A COC, May 17

Insecticides : 2.5 oz/A Warrior II, Jun. 18

Fungicides..... : 15 oz/A Amistar Top, Jun. 18

Table 13. Agronomic response of RT7331 MA to nitrogen fertilizer rate and time of application. H. Rouse Caffey Rice Research Station.

Crop	Rice			Rice		Rice		Rice		Rice		Rice	
Description	Plant-hd		Emer-hd	Tip of Panicle		Rice		Rice		Rice		Rice	
Rating Date	50% HD		50% HD	Height		Yield		Yield		Yield		Yield	
Rating Type	days		days	in		lb/A		lb/A		lb/A		lb/A	
Rating Unit	Main		Main	Main		Main		Main		Main		Main	
Cropping Cycle	Main		Main	Main		Main		Main		Main		Main	
Trt	Treatment	Rate	Growth	Rice		Rice		Rice		Rice		Rice	
No.	Name	(lb N/A)	Stage	Tip of Panicle		Yield		Yield		Yield		Yield	
1	UREA	0	4-5 leaf	35.8 c		4597 f		2625 a		6595 d		11803 c	
2	UREA	45	4-5 leaf	42.5 ab		9998 e		2433 ab		11522 c		13704 bc	
3	UREA	90	4-5 leaf	43.3 ab		11522 cde		0 c		15251 ab		13668 bc	
4	UREA	120	4-5 leaf	41.5 ab		12590 bcd		2355 ab		12937 bc		16637 a	
5	UREA	150	4-5 leaf	40.8 b		14252 ab		2028 ab		14288 ab		14288 ab	
6	UREA	180	4-5 leaf	45.3 a		12940 bcd		1472 b		13668 bc		14288 ab	
7	UREA	75	4-5 leaf	42.0 ab		11093 de		2516 a		12937 bc		14288 ab	
8	UREA	45	PD	44.8 ab		15595 a		2057 ab		16637 a		14288 ab	
9	UREA	105	4-5 leaf	44.8 ab		15595 a		2057 ab		16637 a		14288 ab	
	UREA	45	PD	44.8 ab		15595 a		2057 ab		16637 a		14288 ab	
	UREA	135	4-5 leaf	44.8 ab		15595 a		2057 ab		16637 a		14288 ab	
	UREA	45	PD	44.8 ab		15595 a		2057 ab		16637 a		14288 ab	

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of RT7321FP to Nitrogen
Fertilizer Rate and Time of Application – H. Rouse Caffey Rice Research Station**

Experiment number : 22-CM-42

Site and design :

Location/Cooperator : H. Rouse Caffey Rice Research Station (Crowley Main)

Tillage type..... : Fall Stale

Experimental design..... : Randomized Complete Block Design

Number of reps : 4

Plot size..... : 4.67 x 16 ft

Row width/rows per plot..... : 8 in / 7

Soil type : Crowley silt loam

% Organic matter..... : 1.25

pH..... : 7.02

Extractable nutrients (ppm)..... : Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0

Crop/Variety : Rice / RT7321 FullPage

Planting method/date : Drill seeded / Mar. 14

Seeding rate/depth..... : 10 seeds ft⁻² / 1.0 inch

Emergence date..... : Mar. 28

Harvest date : Jul. 31

Ratoon Harvest date..... : Nov. 3

Seed treatment/cwt : **Hybrids:**

 Apron (fungicide)

 Dynasty (fungicide)

 Fludioxonil (fungicide)(Maxim)

 Gibberellic Acid

 Sedaxane (fungicide)

 Thiamethoxam (insecticide)

 Zinc

 AV-1011 (bird repellent) – 18.3 oz

 Dermacor – 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, Mar. 14

 90 lb N/A 46-0-0, Aug. 11 (ratoon)

Water management : Underground irrigation

Flush : NA

Flood : May 3

Drain : Jul. 18

Ratoon flood : Aug. 12

Ratoon drain : Oct. 17

Pest management :

Herbicides..... : 1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021

 1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25%
 Surfactant, Mar. 7

 2 pt/A Prowl H₂O + 0.66 oz/A Permit + 1% COC, Apr. 14

 1.5 oz/A Gambit + 1% COC, Apr. 28

 20 oz/A Rebel EX + 1 qt/A COC, May 17

Insecticides : 2.5 oz/A Warrior II, Jun. 18

Fungicides..... : 15 oz/A Amistar Top, Jun. 18

**Agronomic Response of RT7401 to Nitrogen
Fertilizer Rate and Time of Application – H. Rouse Caffey Rice Research Station**

Experiment number : 22-CM-43

Site and design :

Location/Cooperator : H. Rouse Caffey Rice Research Station (Crowley Main)

Tillage type..... : Fall Stale

Experimental design..... : Randomized Complete Block Design

Number of reps : 4

Plot size..... : 4.67 x 16 ft

Row width/rows per plot..... : 8 in / 7

Soil type : Crowley silt loam

% Organic matter..... : 1.25

pH..... : 7.02

Extractable nutrients (ppm)..... : Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0

Crop/Variety : Rice / RT7401

Planting method/date : Drill seeded / Mar. 14

Seeding rate/depth..... : 10 seeds ft⁻² / 1.0 inch

Emergence date..... : Mar. 28

Harvest date : Jul. 31

Ratoon Harvest date..... : Nov. 3

Seed treatment/cwt : **Hybrids:**

 Apron (fungicide)

 Dynasty (fungicide)

 Fludioxonil (fungicide)(Maxim)

 Gibberellic Acid

 Sedaxane (fungicide)

 Thiamethoxam (insecticide)

 Zinc

 AV-1011 (bird repellent) – 18.3 oz

 Dermacor – 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, Mar. 14

 90 lb N/A 46-0-0, Aug. 11 (ratoon)

Water management : Underground irrigation

Flush : NA

Flood : May 3

Drain : Jul. 18

Ratoon flood : Aug. 12

Ratoon drain : Oct. 17

Pest management :

Herbicides..... : 1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021

 1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7

 2 pt/A Prowl H₂O + 0.66 oz/A Permit + 1% COC, Apr. 14

 1.5 oz/A Gambit + 1% COC, Apr. 28

 20 oz/A Rebel EX + 1 qt/A COC, May 17

Insecticides : 2.5 oz/A Warrior II, Jun. 18

Fungicides..... : 15 oz/A Amistar Top, Jun. 18

Table 15. Agronomic response of RT7401 to nitrogen fertilizer rate and time of application. H. Rouse Caffey Rice Research Station.

<i>Crop</i>											Rice	Rice	Rice
<i>Description</i>													
<i>Rating Date</i>											11/3/2022		
<i>Rating Type</i>											Yield		
<i>Rating Unit</i>											lb/A		
<i>Cropping Cycle</i>											Main+Ratoon		
Trt	Treatment	Rate	Growth	Rice			Rice			Rice			
No.	Name	(lb N/A)	Stage	Tip of Panicle			Emer-hd			Plant-hd			
1	UREA	0	4-5 leaf	7/29/2022			50% HD			50% HD			
2	UREA	45	4-5 leaf	Height			days			days			
3	UREA	90	4-5 leaf	in			Main			Main			
4	UREA	120	4-5 leaf	Main			Main			Main			
5	UREA	150	4-5 leaf	Main			Main			Main			
6	UREA	180	4-5 leaf	Main			Main			Main			
7	UREA	75	4-5 leaf	Main			Main			Main			
8	UREA	45	PD	Main			Main			Main			
9	UREA	105	4-5 leaf	Main			Main			Main			
	UREA	45	PD	Main			Main			Main			
	UREA	135	4-5 leaf	Main			Main			Main			
		45	PD	Main			Main			Main			

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

[‡] Ratoon yields for all plots and treatments were substantially low due to wet season after the first harvest.

**Agronomic Response of LAH200 to Nitrogen
Fertilizer Rate and Time of Application – H. Rouse Caffey Rice Research Station**

Experiment number : 22-CM-44

Site and design :

Location/Cooperator : H. Rouse Caffey Rice Research Station (Crowley Main)

Tillage type..... : Fall Stale

Experimental design..... : Randomized Complete Block Design

Number of reps : 4

Plot size..... : 4.67 x 16 ft

Row width/rows per plot..... : 8 in / 7

Soil type : Crowley silt loam

% Organic matter..... : 1.25

pH..... : 7.02

Extractable nutrients (ppm)..... : Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0

Crop/Variety : Rice / LAH200

Planting method/date : Drill seeded / Mar. 14

Seeding rate/depth..... : 10 seeds ft⁻² / 1.0 inch

Emergence date..... : Mar. 28

Harvest date : Jul. 31

Ratoon Harvest date..... : Nov. 3

Seed treatment/cwt : **Hybrids:**

 Apron (fungicide)

 Dynasty (fungicide)

 Fludioxonil (fungicide)(Maxim)

 Gibberellic Acid

 Sedaxane (fungicide)

 Thiamethoxam (insecticide)

 Zinc

 AV-1011 (bird repellent) – 18.3 oz

 Dermacor – 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, Mar. 14

 90 lb N/A 46-0-0, Aug. 11 (ratoon)

Water management : Underground irrigation

Flush : NA

Flood : May 3

Drain : Jul. 18

Ratoon flood : Aug. 12

Ratoon drain : Oct. 17

Pest management :

Herbicides..... : 1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021

 1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25%
 Surfactant, Mar. 7

 2 pt/A Prowl H₂O + 0.66 oz/A Permit + 1% COC, Apr. 14

 1.5 oz/A Gambit + 1% COC, Apr. 28

 20 oz/A Rebel EX + 1 qt/A COC, May 17

Insecticides : 2.5 oz/A Warrior II, Jun. 18

Fungicides..... : 15 oz/A Amistar Top, Jun. 18

Table 16. Agronomic response of LAH200 to nitrogen fertilizer rate and time of application. H. Rouse Caffey Rice Research Station.

<i>Crop</i>											Rice	Rice
<i>Description</i>												
<i>Rating Date</i>											11/3/2022	
<i>Rating Type</i>											Yield	Total Yield
<i>Rating Unit</i>											lb/A	lb/A
<i>Cropping Cycle</i>											Ratoon	Main+Ratoon
Trt	Treatment	Rate	Growth	Rice	Emer-hd	Tip of Panicle	Rice	Rice	Rice	Rice		
No.	Name	(lb N/A)	Stage	Plant-hd	50% HD	7/29/2022	7/31/2022	7/31/2022	7/31/2022	7/31/2022		
				days	days	Height	Yield	Yield	Yield	Yield		
				Main	Main	in	lb/A	lb/A	lb/A	lb/A		
						Main						
1	UREA	0	4-5 leaf	100.0	86.0	33.8	4217	4217	2622	6839		
2	UREA	45	4-5 leaf	101.0	87.0	42.8	8414	8414	3047	11462		
3	UREA	90	4-5 leaf	102.5	88.5	46.5	10033	10033	2583	12616		
4	UREA	120	4-5 leaf	101.5	87.5	46.0	11031	11031	2819	13850		
5	UREA	150	4-5 leaf	102.0	88.0	46.0	10564	10564	3136	13700		
6	UREA	180	4-5 leaf	102.3	88.3	48.3	12687	12687	3181	15868		
7	UREA	75	4-5 leaf	101.0	87.0	43.5	10093	10093	3366	13459		
		45	PD									
8	UREA	105	4-5 leaf	102.3	88.3	46.5	11326	11326	3134	14461		
	UREA	45	PD									
9	UREA	135	4-5 leaf	102.0	88.0	47.0	10398	10398	3261	13659		
		45	PD									

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of Drill Seeded PVL03 to Nitrogen
Fertilizer Rate and Time of Application – Tensas Parish**

Experiment number	22-SJ-01
Site and design	
Location/Cooperator	Tensas Parish / Northeast Research Station
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.71
pH	7.12
Extractable nutrients (ppm)	Ca-4,875; Cu-7.0; Mg-1023; P-65; K-421; Na-63; S-10; Zn-4
Crop/Variety	
Planting method/date	Drill seeded / May 11
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	May 18
Harvest date	Sept. 21
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
	Underground irrigation
Flush	May 12
Flood	Jun. 16
Drain	Aug. 31
Pest management	
Herbicides	1.5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11
	32 oz/A Facet L + .66 oz/A Permit, Jun. 1
	2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit + 2 pt/A Prowl H2O, Jun. 15
Insecticides	None
Fungicides	None

Table 17. Agronomic response of PVL03 to nitrogen fertilizer rate and time of application. Tensas Parish.

<i>Crop</i>				Rice	Rice	Rice	Rice
<i>Description</i>				Plant-hd	Emer-hd	Tip of Panicle	
<i>Rating Date</i>						9/21/2022	9/21/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage				
1	UREA	0	4-5 leaf	87.0	80.0	34.3 c [†]	4204 c
2	UREA	45	4-5 leaf	87.0	80.0	37.3 b	5833 b
3	UREA	90	4-5 leaf	87.0	80.0	40.3 a	6747 a
4	UREA	120	4-5 leaf	87.0	80.0	40.0 a	6756 a
5	UREA	150	4-5 leaf	87.0	80.0	39.0 ab	6760 a
6	UREA	180	4-5 leaf	87.0	80.0	40.3 a	6761 a
7	UREA	75	4-5 leaf	87.0	80.0	39.3 ab	6789 a
		45	PD				
8	UREA	105	4-5 leaf	87.0	80.0	39.5 a	7141 a
	UREA	45	PD				
9	UREA	135	4-5 leaf	87.0	80.0	39.3 ab	6838 a
		45	PD				

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of AddiJo to Nitrogen
Fertilizer Rate and Time of Application – Tensas Parish**

Experiment number	22-SJ-06
Site and design	
Location/Cooperator	Tensas Parish / Northeast Research Station
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.71
pH	7.12
Extractable nutrients (ppm)	Ca-4,875; Cu-7.0; Mg-1023; P-65; K-421; Na-63; S-10; Zn-4
Crop/Variety	
Planting method/date	Drill seeded / May 11
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	May 18
Harvest date	Sept. 21
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
	Underground irrigation
Flush	May 12
Flood	Jun. 16
Drain	Aug. 31
Pest management	
Herbicides	1.5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11
	32 oz/A Facet L + .66 oz/A Permit, Jun. 1
	2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit + 2 pt/A Prowl H2O, Jun. 15
Insecticides	None
Fungicides	None

Table 18. Agronomic response of AddiJo to nitrogen fertilizer rate and time of application. Tensas Parish.

<i>Crop</i>				Rice		Rice		Rice		Rice	
<i>Description</i>				Plant-hd		Emer-hd		Tip of Panicle			
<i>Rating Date</i>								9/21/2022		9/21/2022	
<i>Rating Type</i>				50% HD		50% HD		Height		Yield	
<i>Rating Unit</i>				days		days		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt	Treatment	Rate	Growth								
No.	Name	(lb N/A)	Stage								
1	UREA	0	4-5 leaf	97.5	e [†]	90.5	e	33.8	d	4319	a
2	UREA	45	4-5 leaf	99.0	d	92.0	d	37.0	c	3492	cd
3	UREA	90	4-5 leaf	99.3	d	92.3	d	37.8	bc	3916	abc
4	UREA	120	4-5 leaf	101.3	c	94.3	c	39.3	ab	4014	ab
5	UREA	150	4-5 leaf	102.8	ab	95.8	ab	38.8	abc	3353	d
6	UREA	180	4-5 leaf	101.8	bc	94.8	bc	37.3	c	3456	cd
7	UREA	75	4-5 leaf	99.3	d	92.3	d	38.8	abc	4048	ab
		45	PD								
8	UREA	105	4-5 leaf	103.5	a	96.5	a	40.0	a	3662	bcd
	UREA	45	PD								
9	UREA	135	4-5 leaf	103.8	a	96.8	a	37.8	bc	3403	d
		45	PD								

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of Avant to Nitrogen
Fertilizer Rate and Time of Application – Tensas Parish**

Experiment number	22-SJ-08
Site and design	
Location/Cooperator	Tensas Parish / Northeast Research Station
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.71
pH	7.12
Extractable nutrients (ppm)	Ca-4,875; Cu-7.0; Mg-1023; P-65; K-421; Na-63; S-10; Zn-4
Crop/Variety	
Planting method/date	Drill seeded / May 11
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	May 18
Harvest date	Sept. 21
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
	Underground irrigation
Flush	May 12
Flood	Jun. 16
Drain	Aug. 31
Pest management	
Herbicides	1.5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11
	32 oz/A Facet L + .66 oz/A Permit, Jun. 1
	2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit + 2 pt/A Prowl H2O, Jun. 15
Insecticides	None
Fungicides	None

Table 19. Agronomic response of Avant to nitrogen fertilizer rate and time of application. Tensas Parish.

<i>Crop Description</i>				Rice Plant-hd	Rice Emer-hd	Rice Tip of Panicle		Rice
<i>Rating Date</i>						9/21/2022		9/21/2022
<i>Rating Type</i>				50% HD	50% HD	Height		Yield
<i>Rating Unit</i>				days	days	in		lb/A
<i>Cropping Cycle</i>				Main	Main	Main		Main
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage					
1	UREA	0	4-5 leaf	89.0	82.0	27.5	d [†]	4354 e
2	UREA	45	4-5 leaf	89.0	82.0	32.0	c	5947 d
3	UREA	90	4-5 leaf	89.0	82.0	35.5	b	7737 c
4	UREA	120	4-5 leaf	89.0	82.0	35.0	b	8160 abc
5	UREA	150	4-5 leaf	89.0	82.0	36.3	ab	8452 abc
6	UREA	180	4-5 leaf	89.0	82.0	37.5	a	8927 a
7	UREA	75	4-5 leaf	89.0	82.0	34.5	b	7987 bc
		45	PD					
8	UREA	105	4-5 leaf	89.0	82.0	34.5	b	8716 ab
	UREA	45	PD					
9	UREA	135	4-5 leaf	89.0	82.0	35.8	ab	8444 abc
		45	PD					

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of Rtv7231 MA to Nitrogen
Fertilizer Rate and Time of Application – Tensas Parish**

Experiment number	22-SJ-09
Site and design	
Location/Cooperator	Tensas Parish / Northeast Research Station
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.71
pH	7.12
Extractable nutrients (ppm)	Ca-4,875; Cu-7.0; Mg-1023; P-65; K-421; Na-63; S-10; Zn-4
Crop/Variety	
Planting method/date	Drill seeded / May 11
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	May 18
Harvest date	Sept. 21
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
	Underground irrigation
Flush	May 12
Flood	Jun. 16
Drain	Aug. 31
Pest management	
Herbicides	1.5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11
	32 oz/A Facet L + .66 oz/A Permit, Jun. 1
	2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit + 2 pt/A Prowl H2O, Jun. 15
Insecticides	None
Fungicides	None

Table 20. Agronomic response of Rtv7231 MA to nitrogen fertilizer rate and time of application. Tensas Parish.

<i>Crop</i>				Rice	Rice	Rice		Rice
<i>Description</i>				Plant-hd	Emer-hd	Tip of Panicle		
<i>Rating Date</i>						9/21/2022		9/21/2022
<i>Rating Type</i>				50% HD	50% HD	Height		Yield
<i>Rating Unit</i>				days	days	in		lb/A
<i>Cropping Cycle</i>				Main	Main	Main		Main
Trt	Treatment	Rate	Growth					
No.	Name	(lb N/A)	Stage					
1	UREA	0	4-5 leaf	90.0	83.0	36.3	ab [†]	6950 b
2	UREA	45	4-5 leaf	90.0	83.0	35.3	ab	7133 ab
3	UREA	90	4-5 leaf	90.0	83.0	36.3	ab	7041 b
4	UREA	120	4-5 leaf	90.0	83.0	35.3	ab	7924 ab
5	UREA	150	4-5 leaf	90.0	83.0	37.8	a	8757 a
6	UREA	180	4-5 leaf	90.0	83.0	33.0	b	8383 ab
7	UREA	75	4-5 leaf	90.0	83.0	37.5	a	7285 ab
		45	PD					
8	UREA	105	4-5 leaf	90.0	83.0	37.8	a	7458 ab
	UREA	45	PD					
9	UREA	135	4-5 leaf	90.0	83.0	37.3	a	8504 ab
		45	PD					

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of CLL18 to Nitrogen
Fertilizer Rate and Time of Application – Tensas Parish**

Experiment number	22-SJ-10
Site and design	
Location/Cooperator	Tensas Parish / Northeast Research Station
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.71
pH	7.12
Extractable nutrients (ppm)	Ca-4,875; Cu-7.0; Mg-1023; P-65; K-421; Na-63; S-10; Zn-4
Crop/Variety	
Planting method/date	Drill seeded / May 11
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	May 18
Harvest date	Sept. 21
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
	Underground irrigation
Flush	May 12
Flood	Jun. 16
Drain	Aug. 31
Pest management	
Herbicides	1.5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11
	32 oz/A Facet L + .66 oz/A Permit, Jun. 1
	2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit + 2 pt/A Prowl H2O, Jun. 15
Insecticides	None
Fungicides	None

Table 21. Agronomic response of CLL18 to nitrogen fertilizer rate and time of application. Tensas Parish.

<i>Crop Description</i>				Rice Plant-hd	Rice Emer-hd	Rice Tip of Panicle		Rice
<i>Rating Date</i>						9/21/2022		9/21/2022
<i>Rating Type</i>				50% HD	50% HD	Height		Yield
<i>Rating Unit</i>				days	days	in		lb/A
<i>Cropping Cycle</i>				Main	Main	Main		Main
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage					
1	UREA	0	4-5 leaf	81.5	74.5	31.5	c [†]	4659 c
2	UREA	45	4-5 leaf	81.5	74.5	36.3	b	7053 b
3	UREA	90	4-5 leaf	81.5	74.5	38.3	ab	8065 ab
4	UREA	120	4-5 leaf	81.5	74.5	40.3	a	8992 a
5	UREA	150	4-5 leaf	84.0	77.0	40.3	a	7845 ab
6	UREA	180	4-5 leaf	82.8	75.8	40.8	a	8361 ab
7	UREA	75	4-5 leaf	84.3	77.3	40.0	a	7881 ab
		45	PD					
8	UREA	105	4-5 leaf	63.5	56.5	39.0	ab	8419 ab
	UREA	45	PD					
9	UREA	135	4-5 leaf	85.5	78.5	38.8	ab	8718 a
		45	PD					

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of PVL03 to Nitrogen
Fertilizer Rate and Time of Application – Richland Parish**

Experiment number: 22-RP-01

Site and design:

Location/Cooperator: Richland Parish / Ashley Dixon

Tillage type.....: Spring Stale

Experimental design.....: Randomized Complete Block Design

Number of reps: 4

Plot size.....: 4.67 x 16 ft

Row width/rows per plot.....: 8 in / 7

Soil type: Hebert silty clay

% Organic matter.....: 2.26

pH.....: 6.45

Extractable nutrients (ppm).....: Ca-2,797; Cu-3.0; Mg-678; P-18; K-222; Na-124; S-25; Zn-2.0

Crop/Variety: Rice / PVL03

Planting method/date: Drill seeded / May 10

Seeding rate/depth.....: 33 seeds ft⁻² / 0.5 inches

Emergence date.....: May 20

Harvest date: Sept. 20

Seed treatment/cwt: **Conventional Varieties:**

 Apron (fungicide) – 8.88 ml

 Maxim (fungicide) – 0.88 ml

 Release (gibberellic acid) – 10 g

 Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml

 AV-1011 (bird repellent) – 18.3 oz

 Dermacor- 0.137 lb ai/cwt

Fertilization: No blanket applications

Water management: Underground irrigation

Flush: May 17

Flood: Jun. 17

Drain.....: Sep. 5

Pest management.....:

Herbicides.....: 2 qt/A Glyphosate + 2 oz/A Sharpen + 12 oz/A Command, May 10

 4 qt/A Stam + 2 pt/A Prowl H₂O, Jun. 1

 2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit, Jun. 15

 20 oz/A Clincher + 1 qt/A Crop oil, Jun. 30

Insecticides: None

Fungicides.....: None

**Table 22. Agronomic response of PVL03 to nitrogen fertilizer rate and time of application.
Richland Parish.**

Richard L. Arsh.											
Crop				Rice		Rice		Rice		Rice	
Description				Plant-hd		Emer-hd		Tip of Panicle			
Rating Date								9/20/2022		9/20/2022	
Rating Type				50% HD		50% HD		Height		Yield	
Rating Unit				days		days		in		lb/A	
Cropping Cycle				Main		Main		Main		Main	
Trt	Treatment	Rate	Growth								
No.	Name	(lb N/A)	Stage								
1	UREA	0	4-5 leaf	100.0	c [†]	90.0	c	36.0	e	3635	d
2	UREA	45	4-5 leaf	99.3	d	89.3	d	38.8	d	4443	c
3	UREA	90	4-5 leaf	100.0	c	90.0	c	41.8	bc	5373	b
4	UREA	120	4-5 leaf	101.3	b	91.3	b	42.3	b	5695	ab
5	UREA	150	4-5 leaf	100.0	c	90.0	c	43.0	ab	5961	a
6	UREA	180	4-5 leaf	101.0	b	91.0	b	43.8	a	5805	ab
7	UREA	75	4-5 leaf	99.3	d	89.3	d	40.8	c	5426	ab
		45	PD								
8	UREA	105	4-5 leaf	99.5	cd	89.5	cd	42.3	b	5770	ab
	UREA	45	PD								
9	UREA	135	4-5 leaf	102.0	a	92.0	a	42.8	ab	5709	ab
		45	PD								

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of DG-263L to Nitrogen
Fertilizer Rate and Time of Application – Richland Parish**

Experiment number	22-RP-02
Site and design	
Location/Cooperator	Richland Parish / Ashley Dixon
Tillage type	Spring Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	2.26
pH	6.45
Extractable nutrients (ppm)	Ca-2,797; Cu-3.0; Mg-678; P-18; K-222; Na-124; S-25; Zn-2.0
Crop/Variety	
Planting method/date	Drill seeded / May 10
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	May 20
Harvest date	Sept. 20
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
	Underground irrigation
Flush	May 17
Flood	Jun. 17
Drain	Sep. 5
Pest management	
Herbicides	2 qt/A Glyphosate + 2 oz/A Sharpen + 12 oz/A Command, May 10
	4 qt/A Stam + 2 pt/A Prowl H ₂ O, Jun. 1
	2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit, Jun. 15
	20 oz/A Clincher + 1 qt/A Crop oil, Jun. 30
Insecticides	None
Fungicides	None

Table 23. Agronomic response of DG-263L to nitrogen fertilizer rate and time of application.
Richland Parish.

Richard T. Arsh.											
Crop				Rice		Rice		Rice		Rice	
Description				Plant-hd		Emer-hd		Tip of Panicle			
Rating Date								9/20/2022		9/20/2022	
Rating Type				50% HD		50% HD		Height		Yield	
Rating Unit				days		days		in		lb/A	
Cropping Cycle				Main		Main		Main		Main	
Trt	Treatment	Rate	Growth								
No.	Name	(lb N/A)	Stage								
1	UREA	0	4-5 leaf	92.0	g [†]	82.0	g	34.3	e	5385	c
2	UREA	45	4-5 leaf	93.3	f	83.3	f	35.5	de	6298	b
3	UREA	90	4-5 leaf	94.3	ef	84.3	ef	38.0	bc	6986	a
4	UREA	120	4-5 leaf	95.0	de	85.0	de	39.5	ab	7079	a
5	UREA	150	4-5 leaf	95.8	d	85.8	d	40.3	a	6854	a
6	UREA	180	4-5 leaf	98.0	ab	88.0	ab	40.3	a	6808	a
7	UREA	75	4-5 leaf	96.0	cd	86.0	cd	37.3	cd	7150	a
		45	PD								
8	UREA	105	4-5 leaf	98.3	a	88.3	a	40.0	a	7081	a
	UREA	45	PD								
9	UREA	135	4-5 leaf	97.0	bc	87.0	bc	39.8	ab	6798	a
		45	PD								

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of DGL2065 to Nitrogen
Fertilizer Rate and Time of Application – Richland Parish**

Experiment number	22-RP-03
Site and design	
Location/Cooperator	Richland Parish / Ashley Dixon
Tillage type	Spring Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	2.26
pH	6.45
Extractable nutrients (ppm)	Ca-2,797; Cu-3.0; Mg-678; P-18; K-222; Na-124; S-25; Zn-2.0
Crop/Variety	
Planting method/date	Drill seeded / May 10
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	May 20
Harvest date	Sept. 20
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
	Underground irrigation
Flush	May 17
Flood	Jun. 17
Drain	Sep. 5
Pest management	
Herbicides	2 qt/A Glyphosate + 2 oz/A Sharpen + 12 oz/A Command, May 10
	4 qt/A Stam + 2 pt/A Prowl H ₂ O, Jun. 1
	2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit, Jun. 15
	20 oz/A Clincher + 1 qt/A Crop oil, Jun. 30
Insecticides	None
Fungicides	None

**Table 24. Agronomic response of DGL2065 to nitrogen fertilizer rate and time of application.
Richland Parish.**

Richard L. Arsh.											
Crop				Rice		Rice		Rice		Rice	
Description				Plant-hd		Emer-hd		Tip of Panicle			
Rating Date								9/20/2022		9/20/2022	
Rating Type				50% HD		50% HD		Height		Yield	
Rating Unit				days		days		in		lb/A	
Cropping Cycle				Main		Main		Main		Main	
Trt	Treatment	Rate	Growth								
No.	Name	(lb N/A)	Stage								
1	UREA	0	4-5 leaf	97.3	e [†]	87.3	e	32.0	d	3743	c
2	UREA	45	4-5 leaf	98.5	d	88.5	d	33.5	cd	5447	b
3	UREA	90	4-5 leaf	96.5	e	86.5	e	35.0	bc	6014	a
4	UREA	120	4-5 leaf	101.0	c	91.0	c	35.5	b	6205	a
5	UREA	150	4-5 leaf	101.5	c	91.5	c	36.3	b	6347	a
6	UREA	180	4-5 leaf	98.5	d	88.5	d	38.5	a	6178	a
7	UREA	75	4-5 leaf	101.8	bc	91.8	bc	34.8	bc	5875	ab
		45	PD								
8	UREA	105	4-5 leaf	102.8	ab	92.8	ab	36.0	b	6105	a
	UREA	45	PD								
9	UREA	135	4-5 leaf	103.8	a	93.8	a	35.5	b	6343	a
		45	PD								

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of CLL16 to Nitrogen
Fertilizer Rate and Time of Application – Richland Parish**

Experiment number	22-RP-05
Site and design	
Location/Cooperator	Richland Parish / Ashley Dixon
Tillage type	Spring Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	2.26
pH	6.45
Extractable nutrients (ppm)	Ca-2,797; Cu-3.0; Mg-678; P-18; K-222; Na-124; S-25; Zn-2.0
Crop/Variety	
Planting method/date	Drill seeded / May 10
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	May 20
Harvest date	Sept. 20
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
	Underground irrigation
Flush	May 17
Flood	Jun. 17
Drain	Sep. 5
Pest management	
Herbicides	2 qt/A Glyphosate + 2 oz/A Sharpen + 12 oz/A Command, May 10
	4 qt/A Stam + 2 pt/A Prowl H ₂ O, Jun. 1
	2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit, Jun. 15
	20 oz/A Clincher + 1 qt/A Crop oil, Jun. 30
Insecticides	None
Fungicides	None

**Table 25. Agronomic response of CLL16 to nitrogen fertilizer rate and time of application.
Richland Parish.**

<i>Crop</i>				Rice	Rice	Rice	Rice
<i>Description</i>				Plant-hd	Emer-hd	Tip of Panicle	
<i>Rating Date</i>						9/20/2022	9/20/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt	Treatment	Rate	Growth				
No.	Name	(lb N/A)	Stage				
1	UREA	0	4-5 leaf	104.0	de [†]	94.0	de
2	UREA	45	4-5 leaf	103.5	e	93.5	e
3	UREA	90	4-5 leaf	104.3	de	94.3	de
4	UREA	120	4-5 leaf	104.5	d	94.5	d
5	UREA	150	4-5 leaf	104.5	d	94.5	d
6	UREA	180	4-5 leaf	105.5	c	95.5	c
7	UREA	75	4-5 leaf	106.8	ab	96.8	ab
		45	PD				
8	UREA	105	4-5 leaf	106.3	bc	96.3	bc
	UREA	45	PD				
9	UREA	135	4-5 leaf	107.3	a	97.3	a
		45	PD				

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of AddiJo to Nitrogen
Fertilizer Rate and Time of Application – Richland Parish**

Experiment number	22-RP-06
Site and design	
Location/Cooperator	Richland Parish / Ashley Dixon
Tillage type	Spring Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	2.26
pH	6.45
Extractable nutrients (ppm)	Ca-2,797; Cu-3.0; Mg-678; P-18; K-222; Na-124; S-25; Zn-2.0
Crop/Variety	
Planting method/date	Drill seeded / May 10
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	May 20
Harvest date	Sept. 20
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
	Underground irrigation
Flush	May 17
Flood	Jun. 17
Drain	Sep. 5
Pest management	
Herbicides	2 qt/A Glyphosate + 2 oz/A Sharpen + 12 oz/A Command, May 10
	4 qt/A Stam + 2 pt/A Prowl H ₂ O, Jun. 1
	2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit, Jun. 15
	20 oz/A Clincher + 1 qt/A Crop oil, Jun. 30
Insecticides	None
Fungicides	None

**Table 26. Agronomic response of AddiJo to nitrogen fertilizer rate and time of application.
Richland Parish.**

<i>Crop</i>				Rice	Rice	Rice	Rice
<i>Description</i>				Plant-hd	Emer-hd	Tip of Panicle	
<i>Rating Date</i>						9/20/2022	9/20/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt	Treatment	Rate	Growth				
No.	Name	(lb N/A)	Stage				
1	UREA	0	4-5 leaf	97.5 e [†]	90.5 e	35.0 cd	3245 b
2	UREA	45	4-5 leaf	99.0 d	92.0 d	34.8 d	3224 b
3	UREA	90	4-5 leaf	99.3 d	92.3 d	36.5 bc	4651 a
4	UREA	120	4-5 leaf	101.3 c	94.3 c	37.3 b	4416 a
5	UREA	150	4-5 leaf	102.8 ab	95.8 ab	35.8 bcd	4568 a
6	UREA	180	4-5 leaf	101.8 bc	94.8 bc	39.0 a	4342 a
7	UREA	75	4-5 leaf	99.3 d	92.3 d	36.0 bcd	4388 a
		45	PD				
8	UREA	105	4-5 leaf	103.5 a	96.5 a	37.3 b	4553 a
	UREA	45	PD				
9	UREA	135	4-5 leaf	103.8 a	96.8 a	36.3 bcd	4236 a
		45	PD				

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of CLL19 to Nitrogen
Fertilizer Rate and Time of Application – Richland Parish**

Experiment number: 22-RP-07

Site and design:

Location/Cooperator: Richland Parish / Ashley Dixon

Tillage type.....: Spring Stale

Experimental design.....: Randomized Complete Block Design

Number of reps: 4

Plot size.....: 4.67 x 16 ft

Row width/rows per plot.....: 8 in / 7

Soil type: Hebert silty clay

% Organic matter.....: 2.26

pH.....: 6.45

Extractable nutrients (ppm).....: Ca-2,797; Cu-3.0; Mg-678; P-18; K-222; Na-124; S-25; Zn-2.0

Crop/Variety: Rice / CLL19

Planting method/date: Drill seeded / May 10

Seeding rate/depth: 33 seeds ft⁻² / 0.5 inches

Emergence date.....: May 20

Harvest date: Sept. 20

Seed treatment/cwt: **Conventional Varieties:**

 Apron (fungicide) – 8.88 ml

 Maxim (fungicide) – 0.88 ml

 Release (gibberellic acid) – 10 g

 Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml

 AV-1011 (bird repellent) – 18.3 oz

 Dermacor- 0.137 lb ai/cwt

Fertilization: No blanket applications

Water management: Underground irrigation

Flush: May 17

Flood: Jun. 17

Drain.....: Sep. 5

Pest management.....:

Herbicides.....: 2 qt/A Glyphosate + 2 oz/A Sharpen + 12 oz/A Command, May 10

 4 qt/A Stam + 2 pt/A Prowl H₂O, Jun. 1

 2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit, Jun. 15

 20 oz/A Clincher + 1 qt/A Crop oil, Jun. 30

Insecticides: None

Fungicides.....: None

**Table 27. Agronomic response of CLL19 to nitrogen fertilizer rate and time of application.
Richland Parish.**

<i>Crop</i>				Rice	Rice	Rice	Rice
<i>Description</i>				Plant-hd	Emer-hd	Tip of Panicle	
<i>Rating Date</i>						9/20/2022	9/20/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt	Treatment	Rate	Growth				
No.	Name	(lb N/A)	Stage				
1	UREA	0	4-5 leaf	89.8 e [†]	79.8 e	30.0 d	4116 f
2	UREA	45	4-5 leaf	91.5 d	81.5 d	32.8 c	5110 e
3	UREA	90	4-5 leaf	92.3 d	82.3 d	35.3 ab	6626 abc
4	UREA	120	4-5 leaf	96.0 ab	86.0 ab	35.3 ab	6286 cd
5	UREA	150	4-5 leaf	95.5 b	85.5 b	36.3 ab	6621 abc
6	UREA	180	4-5 leaf	96.5 a	86.5 a	37.0 a	7164 a
7	UREA	75	4-5 leaf	94.0 c	84.0 c	34.8 bc	5764 d
		45	PD				
8	UREA	105	4-5 leaf	96.0 ab	86.0 ab	37.0 a	6419 bc
	UREA	45	PD				
9	UREA	135	4-5 leaf	96.5 a	86.5 a	37.3 a	6910 ab
		45	PD				

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of CLL18 to Nitrogen
Fertilizer Rate and Time of Application – Richland Parish**

Experiment number	22-RP-10
Site and design	
Location/Cooperator	Richland Parish / Ashley Dixon
Tillage type	Spring Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	2.26
pH	6.45
Extractable nutrients (ppm)	Ca-2,797; Cu-3.0; Mg-678; P-18; K-222; Na-124; S-25; Zn-2.0
Crop/Variety	
Planting method/date	Drill seeded / May 10
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	May 20
Harvest date	Sept. 20
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
	Underground irrigation
Flush	May 17
Flood	Jun. 17
Drain	Sep. 5
Pest management	
Herbicides	2 qt/A Glyphosate + 2 oz/A Sharpen + 12 oz/A Command, May 10
	4 qt/A Stam + 2 pt/A Prowl H ₂ O, Jun. 1
	2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit, Jun. 15
	20 oz/A Clincher + 1 qt/A Crop oil, Jun. 30
Insecticides	None
Fungicides	None

**Table 28. Agronomic response of CLL18 to nitrogen fertilizer rate and time of application.
Richland Parish.**

<i>Crop</i>				Rice	Rice	Rice	Rice
<i>Description</i>				Plant-hd	Emer-hd	Tip of Panicle	
<i>Rating Date</i>						9/20/2022	9/20/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt	Treatment	Rate	Growth				
No.	Name	(lb N/A)	Stage				
1	UREA	0	4-5 leaf	90.3 e†	80.3 e	31.0 f	4877 e
2	UREA	45	4-5 leaf	92.0 d	82.0 d	35.3 e	5997 d
3	UREA	90	4-5 leaf	94.5 bc	84.5 bc	39.5 cd	7194 bc
4	UREA	120	4-5 leaf	95.0 abc	85.0 abc	41.0 bc	7738 ab
5	UREA	150	4-5 leaf	96.3 a	86.3 a	42.5 ab	8099 a
6	UREA	180	4-5 leaf	95.8 ab	85.8 ab	44.5 a	8026 a
7	UREA	75	4-5 leaf	95.0 abc	85.0 abc	38.0 d	6770 c
		45	PD				
8	UREA	105	4-5 leaf	94.0 c	84.0 c	40.5 bcd	7034 c
	UREA	45	PD				
9	UREA	135	4-5 leaf	95.5 abc	85.5 abc	42.0 abc	7865 ab
		45	PD				

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of RT 7331 MA to Nitrogen
Fertilizer Rate and Time of Application – Richland Parish**

Experiment number	22-RP-41
Site and design	
Location/Cooperator	Richland Parish / Ashley Dixon
Tillage type	Spring Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	2.26
pH	6.45
Extractable nutrients (ppm)	Ca-2,797; Cu-3.0; Mg-678; P-18; K-222; Na-124; S-25; Zn-2.0
Crop/Variety	
Planting method/date	Drill seeded / May 10
Seeding rate/depth	10 seeds ft ⁻² / 0.5 inches
Emergence date	May 20
Harvest date	Sept. 20
Seed treatment/cwt	
	Hybrids:
	Apron (fungicide)
	Dynasty (fungicide)
	Fludioxonil (fungicide)
	Maxim (fungicide)
	Gibberellic acid
	Sedaxane (fungicide)
	Thiamethoxam (insecticide)
	Zinc
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	May 17
Flood	Jun. 17
Drain	Sep. 5
Pest management	
Herbicides	2 qt/A Glyphosate + 2 oz/A Sharpen + 12 oz/A Command, May 10
	4 qt/A Stam + 2 pt/A Prowl H ₂ O, Jun. 1
	2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit, Jun. 15
	20 oz/A Clincher + 1 qt/A Crop oil, Jun. 30
Insecticides	None
Fungicides	None

**Table 29. Agronomic response of RT 7331 MA to nitrogen fertilizer rate and time of application.
Richland Parish.**

<i>Crop Description</i>				Rice Plant-hd	Rice Emer-hd	Rice Tip of Panicle	Rice
<i>Rating Date</i>						9/20/2022	9/20/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage				
1	UREA	0	4-5 leaf	92.3 e [†]	82.3 e	37.5 b	4690 d
2	UREA	45	4-5 leaf	92.3 e	82.3 e	43.0 a	6487 c
3	UREA	90	4-5 leaf	93.3 de	83.3 de	43.8 a	7893 b
4	UREA	120	4-5 leaf	94.5 c	84.5 c	44.3 a	8165 ab
5	UREA	150	4-5 leaf	95.8 ab	85.8 ab	44.3 a	8066 b
6	UREA	180	4-5 leaf	96.5 a	86.5 a	45.8 a	8942 a
7	UREA	75	4-5 leaf	93.8 cd	83.8 cd	42.5 a	7344 bc
		45	PD				
8	UREA	105	4-5 leaf	96.3 a	86.3 a	44.3 a	7837 b
	UREA	45	PD				
9	UREA	135	4-5 leaf	94.8 bc	84.8 bc	45.0 a	8072 b
		45	PD				

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of RT 7321 FP to Nitrogen
Fertilizer Rate and Time of Application – Richland Parish**

Experiment number	22-RP-42
Site and design	
Location/Cooperator	Richland Parish / Ashley Dixon
Tillage type	Spring Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	2.26
pH	6.45
Extractable nutrients (ppm)	Ca-2,797; Cu-3.0; Mg-678; P-18; K-222; Na-124; S-25; Zn-2.0
Crop/Variety	
Planting method/date	Drill seeded / May 10
Seeding rate/depth	10 seeds ft ⁻² / 0.5 inches
Emergence date	May 20
Harvest date	Sept. 20
Seed treatment/cwt	
	Hybrids:
	Apron (fungicide)
	Dynasty (fungicide)
	Fludioxonil (fungicide)
	Maxim (fungicide)
	Gibberellic acid
	Sedaxane (fungicide)
	Thiamethoxam (insecticide)
	Zinc
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	May 17
Flood	Jun. 17
Drain	Sep. 5
Pest management	
Herbicides	2 qt/A Glyphosate + 2 oz/A Sharpen + 12 oz/A Command, May 10
	4 qt/A Stam + 2 pt/A Prowl H ₂ O, Jun. 1
	2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit, Jun. 15
	20 oz/A Clincher + 1 qt/A Crop oil, Jun. 30
Insecticides	None
Fungicides	None

**Table 30. Agronomic response of RT 7321 FP to nitrogen fertilizer rate and time of application.
Richland Parish.**

<i>Crop Description</i>				Rice Plant-hd		Rice Emer-hd		Rice Tip of Panicle		Rice	
<i>Rating Date</i>								9/20/2022		9/20/2022	
<i>Rating Type</i>				50% HD		50% HD		Height		Yield	
<i>Rating Unit</i>				days		days		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage								
1	UREA	0	4-5 leaf	90.3	b†	80.3	b	41.3	c	4778	e
2	UREA	45	4-5 leaf	90.8	b	80.8	b	43.5	b	5937	d
3	UREA	90	4-5 leaf	92.3	ab	82.3	ab	47.0	a	6744	cd
4	UREA	120	4-5 leaf	91.3	b	81.3	b	48.5	a	8280	a
5	UREA	150	4-5 leaf	92.3	ab	82.3	ab	48.8	a	8081	a
6	UREA	180	4-5 leaf	92.5	ab	82.5	ab	48.3	a	8372	a
7	UREA	75	4-5 leaf	91.0	b	81.0	b	47.8	a	7123	bc
		45	PD								
8	UREA	105	4-5 leaf	91.5	ab	81.5	ab	47.3	a	7957	ab
	UREA	45	PD								
9	UREA	135	4-5 leaf	94.0	a	84.0	a	49.0	a	7943	ab
		45	PD								

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of RT 7401 to Nitrogen
Fertilizer Rate and Time of Application – Richland Parish**

Experiment number	22-RP-43
Site and design	
Location/Cooperator	Richland Parish / Ashley Dixon
Tillage type	Spring Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	2.26
pH	6.45
Extractable nutrients (ppm)	Ca-2,797; Cu-3.0; Mg-678; P-18; K-222; Na-124; S-25; Zn-2.0
Crop/Variety	
Planting method/date	Rice / RT 7321 FullPage Drill seeded / May 10
Seeding rate/depth	10 seeds ft ⁻² / 0.5 inches
Emergence date	May 20
Harvest date	Sept. 20
Seed treatment/cwt	
	Hybrids:
	Apron (fungicide)
	Dynasty (fungicide)
	Fludioxonil (fungicide)
	Maxim (fungicide)
	Gibberellic acid
	Sedaxane (fungicide)
	Thiamethoxam (insecticide)
	Zinc
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	Underground irrigation
Flood	May 17
Drain	Jun. 17
Drain	Sep. 5
Pest management	
Herbicides	2 qt/A Glyphosate + 2 oz/A Sharpen + 12 oz/A Command, May 10
	4 qt/A Stam + 2 pt/A Prowl H ₂ O, Jun. 1
	2 qt/A Stam + 2 qt/A Rice Beaux + 1.5 oz/A Gambit, Jun. 15
	20 oz/A Clincher + 1 qt/A Crop oil, Jun. 30
Insecticides	None
Fungicides	None

**Table 31. Agronomic response of RT 7401 to nitrogen fertilizer rate and time of application.
Richland Parish.**

<i>Crop Description</i>				Rice Plant-hd	Rice Emer-hd	Rice Tip of Panicle	Rice
<i>Rating Date</i>						9/20/2022	9/20/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage				
1	UREA	0	4-5 leaf	94.8 e [†]	84.8 e	36.5 d	3982 e
2	UREA	45	4-5 leaf	96.5 d	86.5 d	41.8 bc	5533 d
3	UREA	90	4-5 leaf	93.5 e	83.5 e	41.0 c	6379 abc
4	UREA	120	4-5 leaf	97.0 d	87.0 d	43.5 ab	6434 abc
5	UREA	150	4-5 leaf	100.0 b	90.0 b	42.0 bc	6270 bcd
6	UREA	180	4-5 leaf	100.0 b	90.0 b	44.0 a	6813 ab
7	UREA	75	4-5 leaf	98.5 c	88.5 c	41.3 c	5888 cd
		45	PD				
8	UREA	105	4-5 leaf	97.8 cd	87.8 cd	42.0 bc	6655 abc
	UREA	45	PD				
9	UREA	135	4-5 leaf	102.0 a	92.0 a	43.3 ab	7155 a
		45	PD				

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of PVL03 to Nitrogen
Fertilizer Rate and Time of Application – St. Landry Parish**

Experiment number	22-SLP-01
Site and design	
Location/Cooperator	St. Landry Parish / Charlie Fontenot
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.21
pH	7.20
Extractable nutrients (ppm)	Ca-4,279; Cu-3.66; Mg-783; P-101; K-300; Na-55; S-10; Zn-2.6
Crop/Variety	
Planting method/date	Drill seeded / Mar. 29
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	Apr. 11
Harvest date	Aug. 16
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	N/A
Flood	May 12
Drain	Jul. 26
Pest management	
Herbicides	1 qt/A Glyphosate + 3 oz/A Sharpen + 10 oz/A Command, Mar. 26 32 oz/A Facet + 0.4 oz/A Regiment + 0.5 oz/A Permit, May 10
Insecticides	None
Fungicides	None

Table 32. Agronomic response of PVL03 to nitrogen fertilizer rate and time of application. St. Landry Parish.

<i>Crop</i>				Rice		Rice		Rice		Rice	
<i>Description</i>				Plant-hd		Emer-hd		Tip of Panicle			
<i>Rating Date</i>								8/16/2022		8/16/2022	
<i>Rating Type</i>				50% HD		50% HD		Height		Yield	
<i>Rating Unit</i>				days		days		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt	Treatment	Rate	Growth								
No.	Name	(lb N/A)	Stage								
1	UREA	0	4-5 leaf	87.0	f†	74.0	f	31.0	f	3100	e
2	UREA	45	4-5 leaf	88.8	e	75.8	e	34.5	e	5650	d
3	UREA	90	4-5 leaf	90.5	cd	77.5	cd	37.8	d	7473	c
4	UREA	120	4-5 leaf	91.0	bc	78.0	bc	38.8	bcd	8057	bc
5	UREA	150	4-5 leaf	92.0	a	79.0	a	41.3	a	8706	a
6	UREA	180	4-5 leaf	92.0	a	79.0	a	42.3	a	8893	a
7	UREA	75	4-5 leaf	89.8	d	76.8	d	38.0	cd	7784	c
		45	PD								
8	UREA	105	4-5 leaf	90.8	bc	77.8	bc	40.0	abcd	8448	ab
	UREA	45	PD								
9	UREA	135	4-5 leaf	91.5	ab	78.5	ab	41.0	abc	8880	a
		45	PD								

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of DG263L to Nitrogen
Fertilizer Rate and Time of Application – St. Landry Parish**

Experiment number	22-SLP-02
Site and design	
Location/Cooperator	St. Landry Parish / Charlie Fontenot
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.21
pH	7.20
Extractable nutrients (ppm)	Ca-4,279; Cu-3.66; Mg-783; P-101; K-300; Na-55; S-10; Zn-2.6
Crop/Variety	
Planting method/date	Drill seeded / Mar. 29
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	Apr. 11
Harvest date	Aug. 16
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	N/A
Flood	May 12
Drain	Jul. 26
Pest management	
Herbicides	1 qt/A Glyphosate + 3 oz/A Sharpen + 10 oz/A Command, Mar. 26
	32 oz/A Facet + 0.4 oz/A Regiment + 0.5 oz/A Permit, May 10
Insecticides	None
Fungicides	None

Table 33. Agronomic response of DG263L to nitrogen fertilizer rate and time of application. St. Landry Parish.

<i>Crop Description</i>				Rice Plant-hd		Rice Emer-hd		Rice Tip of Panicle		Rice	
<i>Rating Date</i>								8/16/2022		8/16/2022	
<i>Rating Type</i>				50% HD		50% HD		Height		Yield	
<i>Rating Unit</i>				days		days		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage								
1	UREA	0	4-5 leaf	85.5	c [†]	72.5	c	31.5	d	5953	d
2	UREA	45	4-5 leaf	86.8	bc	73.8	bc	36.8	bc	8187	c
3	UREA	90	4-5 leaf	88.8	bc	75.8	bc	39.5	ab	9501	ab
4	UREA	120	4-5 leaf	90.0	b	77.0	b	39.8	ab	9704	a
5	UREA	150	4-5 leaf	90.3	b	77.3	b	39.5	ab	9940	a
6	UREA	180	4-5 leaf	95.8	a	82.8	a	38.5	bc	9888	a
7	UREA	75	4-5 leaf	88.0	bc	75.0	bc	38.0	bc	9149	b
		45	PD								
8	UREA	105	4-5 leaf	89.5	bc	76.5	bc	41.3	a	9772	a
	UREA	45	PD								
9	UREA	135	4-5 leaf	89.5	bc	76.5	bc	38.8	abc	9970	a
		45	PD								

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of DGL2065 to Nitrogen
Fertilizer Rate and Time of Application – St. Landry Parish**

Experiment number	22-SLP-03
Site and design	
Location/Cooperator	St. Landry Parish / Charlie Fontenot
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.21
pH	7.20
Extractable nutrients (ppm)	Ca-4,279; Cu-3.66; Mg-783; P-101; K-300; Na-55; S-10; Zn-2.6
Crop/Variety	
Planting method/date	Drill seeded / Mar. 29
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	Apr. 11
Harvest date	Aug. 16
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	N/A
Flood	May 12
Drain	Jul. 26
Pest management	
Herbicides	1 qt/A Glyphosate + 3 oz/A Sharpen + 10 oz/A Command, Mar. 26 32 oz/A Facet + 0.4 oz/A Regiment + 0.5 oz/A Permit, May 10
Insecticides	None
Fungicides	None

Table 34. Agronomic response of DGL2065 to nitrogen fertilizer rate and time of application. St. Landry Parish.

<i>Crop Description</i>				Rice Plant-hd		Rice Emer-hd		Rice Tip of Panicle		Rice	
<i>Rating Date</i>								8/16/2022		8/16/2022	
<i>Rating Type</i>				50% HD		50% HD		Height		Yield	
<i>Rating Unit</i>				days		days		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage								
1	UREA	0	4-5 leaf	88.0	f†	75.0	f	31.0	e	4623	g
2	UREA	45	4-5 leaf	88.8	e	75.8	e	33.0	e	6747	f
3	UREA	90	4-5 leaf	89.8	cd	76.8	cd	36.0	d	7911	e
4	UREA	120	4-5 leaf	90.5	b	77.5	b	37.0	bcd	8502	cd
5	UREA	150	4-5 leaf	90.5	b	77.5	b	38.5	abc	8881	bc
6	UREA	180	4-5 leaf	91.3	a	78.3	a	40.8	a	9240	ab
7	UREA	75	4-5 leaf	89.3	de	76.3	de	36.3	cd	8223	de
		45	PD								
8	UREA	105	4-5 leaf	90.0	bc	77.0	bc	39.3	ab	9088	ab
	UREA	45	PD								
9	UREA	135	4-5 leaf	90.3	bc	77.3	bc	39.5	ab	9449	a
		45	PD								

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of DGM004 to Nitrogen
Fertilizer Rate and Time of Application – St. Landry Parish**

Experiment number	22-SLP-04
Site and design	
Location/Cooperator	St. Landry Parish / Charlie Fontenot
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	Tensas-Sharkey Complex
% Organic matter	1.21
pH	7.20
Extractable nutrients (ppm)	Ca-4,279; Cu-3.66; Mg-783; P-101; K-300; Na-55; S-10; Zn-2.6
Crop/Variety	Rice / DGM004
Planting method/date	Drill seeded / Mar. 29
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	Apr. 11
Harvest date	Aug. 16
Seed treatment/cwt	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	No blanket applications
Water management	Underground irrigation
Flush	N/A
Flood	May 12
Drain	Jul. 26
Pest management	
Herbicides	1 qt/A Glyphosate + 3 oz/A Sharpen + 10 oz/A Command, Mar. 26
	32 oz/A Facet + 0.4 oz/A Regiment + 0.5 oz/A Permit, May 10
Insecticides	None
Fungicides	None

Table 35. Agronomic response of DGM004 to nitrogen fertilizer rate and time of application. St. Landry Parish.

<i>Crop</i>				Rice		Rice		Rice		Rice	
<i>Description</i>				Plant-hd		Emer-hd		Tip of Panicle			
<i>Rating Date</i>								8/16/2022		8/16/2022	
<i>Rating Type</i>				50% HD		50% HD		Height		Yield	
<i>Rating Unit</i>				days		days		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt	Treatment	Rate	Growth								
No.	Name	(lb N/A)	Stage								
1	UREA	0	4-5 leaf	92.0	c [†]	79.0	c	32.3	e	4348	f
2	UREA	45	4-5 leaf	92.3	c	79.3	c	35.3	d	5807	e
3	UREA	90	4-5 leaf	93.5	b	80.5	b	36.8	bcd	7470	d
4	UREA	120	4-5 leaf	93.5	b	80.5	b	37.5	bc	7311	d
5	UREA	150	4-5 leaf	94.3	ab	81.3	ab	37.5	bc	8209	ab
6	UREA	180	4-5 leaf	94.5	a	81.5	a	39.5	a	8562	a
7	UREA	75	4-5 leaf	93.5	b	80.5	b	37.8	abc	7724	bcd
		45	PD								
8	UREA	105	4-5 leaf	93.5	b	80.5	b	37.8	abc	7568	cd
	UREA	45	PD								
9	UREA	135	4-5 leaf	94.0	ab	81.0	ab	38.8	ab	8065	abc
		45	PD								

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of CLL16 to Nitrogen
Fertilizer Rate and Time of Application – St. Landry Parish**

Experiment number	22-SLP-05
Site and design	
Location/Cooperator	St. Landry Parish / Charlie Fontenot
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.21
pH	7.20
Extractable nutrients (ppm)	Ca-4,279; Cu-3.66; Mg-783; P-101; K-300; Na-55; S-10; Zn-2.6
Crop/Variety	
Planting method/date	Drill seeded / Mar. 29
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	Apr. 11
Harvest date	Aug. 16
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	N/A
Flood	May 12
Drain	Jul. 26
Pest management	
Herbicides	1 qt/A Glyphosate + 3 oz/A Sharpen + 10 oz/A Command, Mar. 26
	32 oz/A Facet + 0.4 oz/A Regiment + 0.5 oz/A Permit, May 10
Insecticides	None
Fungicides	None

Table 36. Agronomic response of CLL16 to nitrogen fertilizer rate and time of application. St. Landry Parish.

<i>Crop Description</i>				Rice Plant-hd	Rice Emer-hd	Rice Tip of Panicle	Rice
<i>Rating Date</i>						8/16/2022	8/16/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage				
1	UREA	0	4-5 leaf	89.3 d [†]	76.3 d	32.5 d	5710 e
2	UREA	45	4-5 leaf	91.5 c	78.5 c	38.0 c	7711 d
3	UREA	90	4-5 leaf	93.5 b	80.5 b	42.3 b	8998 c
4	UREA	120	4-5 leaf	95.8 a	82.8 a	43.8 a	8776 c
5	UREA	150	4-5 leaf	96.3 a	83.3 a	42.0 b	9310 abc
6	UREA	180	4-5 leaf	96.0 a	83.0 a	46.0 a	9247 bc
7	UREA	75	4-5 leaf	93.0 b	80.0 b	42.3 b	8893 c
		45	PD				
8	UREA	105	4-5 leaf	95.5 a	82.5 a	43.5 a	9682 ab
	UREA	45	PD				
9	UREA	135	4-5 leaf	95.3 a	82.3 a	44.0 a	9846 a
		45	PD				

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of AddiJo to Nitrogen
Fertilizer Rate and Time of Application – St. Landry Parish**

Experiment number	22-SLP-06
Site and design	
Location/Cooperator	St. Landry Parish / Charlie Fontenot
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.21
pH	7.20
Extractable nutrients (ppm)	Ca-4,279; Cu-3.66; Mg-783; P-101; K-300; Na-55; S-10; Zn-2.6
Crop/Variety	
Planting method/date	Drill seeded / Mar. 29
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	Apr. 11
Harvest date	Aug. 16
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	N/A
Flood	May 12
Drain	Jul. 26
Pest management	
Herbicides	1 qt/A Glyphosate + 3 oz/A Sharpen + 10 oz/A Command, Mar. 26 32 oz/A Facet + 0.4 oz/A Regiment + 0.5 oz/A Permit, May 10
Insecticides	None
Fungicides	None

Table 37. Agronomic response of AddiJo to nitrogen fertilizer rate and time of application. St. Landry Parish.

<i>Crop Description</i>				Rice Plant-hd		Rice Emer-hd		Rice Tip of Panicle		Rice	
<i>Rating Date</i>								8/16/2022		8/16/2022	
<i>Rating Type</i>				50% HD		50% HD		Height		Yield	
<i>Rating Unit</i>				days		days		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage								
1	UREA	0	4-5 leaf	92.3	c [†]	79.3	c	33.0	d	3851	e
2	UREA	45	4-5 leaf	92.3	c	79.3	c	35.8	cd	5390	d
3	UREA	90	4-5 leaf	95.3	abc	82.3	abc	36.5	bcd	6800	c
4	UREA	120	4-5 leaf	96.3	abc	83.3	abc	38.0	abc	7527	b
5	UREA	150	4-5 leaf	99.5	a	86.5	a	41.5	a	7505	b
6	UREA	180	4-5 leaf	98.3	ab	85.3	ab	38.8	abc	7995	a
7	UREA	75	4-5 leaf	94.0	bc	81.0	bc	37.8	abc	7056	c
		45	PD								
8	UREA	105	4-5 leaf	94.0	bc	81.0	bc	37.3	bc	7824	ab
	UREA	45	PD								
9	UREA	135	4-5 leaf	96.8	ab	83.8	ab	39.8	ab	8009	a
		45	PD								

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of CLL19 to Nitrogen
Fertilizer Rate and Time of Application – St. Landry Parish**

Experiment number	22-SLP-07
Site and design	
Location/Cooperator	St. Landry Parish / Charlie Fontenot
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.21
pH	7.20
Extractable nutrients (ppm)	Ca-4,279; Cu-3.66; Mg-783; P-101; K-300; Na-55; S-10; Zn-2.6
Crop/Variety	
Planting method/date	Drill seeded / Mar. 29
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	Apr. 11
Harvest date	Aug. 16
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	N/A
Flood	May 12
Drain	Jul. 26
Pest management	
Herbicides	1 qt/A Glyphosate + 3 oz/A Sharpen + 10 oz/A Command, Mar. 26
	32 oz/A Facet + 0.4 oz/A Regiment + 0.5 oz/A Permit, May 10
Insecticides	None
Fungicides	None

Table 38. Agronomic response of CLL19 to nitrogen fertilizer rate and time of application. St. Landry Parish.

<i>Crop Description</i>				Rice Plant-hd	Rice Emer-hd	Rice Tip of Panicle	Rice
<i>Rating Date</i>						8/16/2022	8/16/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage				
1	UREA	0	4-5 leaf	86.3 d [†]	73.3 d	29.5 e	5325 e
2	UREA	45	4-5 leaf	87.5 c	74.5 c	33.3 d	6942 d
3	UREA	90	4-5 leaf	90.0 ab	77.0 ab	36.0 bcd	8480 bc
4	UREA	120	4-5 leaf	90.0 ab	77.0 ab	36.5 bc	8518 bc
5	UREA	150	4-5 leaf	90.3 a	77.3 a	37.5 bc	8784 ab
6	UREA	180	4-5 leaf	90.5 a	77.5 a	41.0 a	9347 a
7	UREA	75	4-5 leaf	89.0 b	76.0 b	36.0 bcd	8100 c
		45	PD				
8	UREA	105	4-5 leaf	90.0 ab	77.0 ab	37.0 bc	8797 ab
	UREA	45	PD				
9	UREA	135	4-5 leaf	90.0 ab	77.0 ab	39.3 a	9269 a
		45	PD				

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of Avant to Nitrogen
Fertilizer Rate and Time of Application – St. Landry Parish**

Experiment number	22-SLP-08
Site and design	
Location/Cooperator	St. Landry Parish / Charlie Fontenot
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.21
pH	7.20
Extractable nutrients (ppm)	Ca-4,279; Cu-3.66; Mg-783; P-101; K-300; Na-55; S-10; Zn-2.6
Crop/Variety	
Planting method/date	Drill seeded / Mar. 29
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	Apr. 11
Harvest date	Aug. 16
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	N/A
Flood	May 12
Drain	Jul. 26
Pest management	
Herbicides	1 qt/A Glyphosate + 3 oz/A Sharpen + 10 oz/A Command, Mar. 26
	32 oz/A Facet + 0.4 oz/A Regiment + 0.5 oz/A Permit, May 10
Insecticides	None
Fungicides	None

Table 39. Agronomic response of Avant to nitrogen fertilizer rate and time of application. St. Landry Parish.

<i>Crop Description</i>				Rice Plant-hd		Rice Emer-hd		Rice Tip of Panicle		Rice	
<i>Rating Date</i>								8/16/2022		8/16/2022	
<i>Rating Type</i>				50% HD		50% HD		Height		Yield	
<i>Rating Unit</i>				days		days		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage								
1	UREA	0	4-5 leaf	84.0	c [†]	71.0	c	29.8	c	3958	f
2	UREA	45	4-5 leaf	84.8	c	71.8	c	31.5	c	6189	e
3	UREA	90	4-5 leaf	87.5	ab	74.5	ab	35.0	ab	7817	d
4	UREA	120	4-5 leaf	86.8	ab	73.8	ab	34.8	ab	8222	bcd
5	UREA	150	4-5 leaf	87.5	ab	74.5	ab	35.3	ab	8432	bc
6	UREA	180	4-5 leaf	88.0	a	75.0	a	35.3	ab	9082	a
7	UREA	75	4-5 leaf	86.5	b	73.5	b	35.0	ab	7645	d
		45	PD								
8	UREA	105	4-5 leaf	87.0	ab	74.0	ab	34.8	ab	7925	cd
	UREA	45	PD								
9	UREA	135	4-5 leaf	87.0	ab	74.0	ab	35.8	a	8632	ab
		45	PD								

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of Rtv7231 MA to Nitrogen
Fertilizer Rate and Time of Application – St. Landry Parish**

Experiment number	22-SLP-09
Site and design	
Location/Cooperator	St. Landry Parish / Charlie Fontenot
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.21
pH	7.20
Extractable nutrients (ppm)	Ca-4,279; Cu-3.66; Mg-783; P-101; K-300; Na-55; S-10; Zn-2.6
Crop/Variety	
Planting method/date	Drill seeded / Mar. 29
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	Apr. 11
Harvest date	Aug. 16
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	N/A
Flood	May 12
Drain	Jul. 26
Pest management	
Herbicides	1 qt/A Glyphosate + 3 oz/A Sharpen + 10 oz/A Command, Mar. 26
	32 oz/A Facet + 0.4 oz/A Regiment + 0.5 oz/A Permit, May 10
Insecticides	None
Fungicides	None

**Table 40. Agronomic response of Rtv7231 MA to nitrogen fertilizer rate and time of application.
St. Landry Parish.**

<i>Crop</i>				Rice		Rice		Rice		Rice	
<i>Description</i>				Plant-hd		Emer-hd		Tip of Panicle			
<i>Rating Date</i>								8/16/2022		8/16/2022	
<i>Rating Type</i>				50% HD		50% HD		Height		Yield	
<i>Rating Unit</i>				days		days		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt	Treatment	Rate	Growth								
No.	Name	(lb N/A)	Stage								
1	UREA	0	4-5 leaf	82.8	e†	69.8	e	34.3	c	7697	f
2	UREA	45	4-5 leaf	84.3	d	71.3	d	37.8	d	9609	e
3	UREA	90	4-5 leaf	85.3	cd	72.3	cd	39.3	a	11118	d
4	UREA	120	4-5 leaf	86.3	abc	73.3	abc	40.0	ab	11686	cd
5	UREA	150	4-5 leaf	86.5	ab	73.5	ab	40.3	ab	12426	a
6	UREA	180	4-5 leaf	86.8	a	73.8	a	40.8	ab	12347	ab
7	UREA	75	4-5 leaf	85.5	bc	72.5	bc	40.3	ab	11595	cd
		45	PD								
8	UREA	105	4-5 leaf	85.5	bc	72.5	bc	40.3	ab	11796	bc
	UREA	45	PD								
9	UREA	135	4-5 leaf	86.0	abc	73.0	abc	40.8	a	12544	a
		45	PD								

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of CLL18 to Nitrogen
Fertilizer Rate and Time of Application – St. Landry Parish**

Experiment number	22-SLP-10
Site and design	
Location/Cooperator	St. Landry Parish / Charlie Fontenot
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.21
pH	7.20
Extractable nutrients (ppm)	Ca-4,279; Cu-3.66; Mg-783; P-101; K-300; Na-55; S-10; Zn-2.6
Crop/Variety	
Planting method/date	Drill seeded / Mar. 29
Seeding rate/depth	33 seeds ft ⁻² / 0.5 inches
Emergence date	Apr. 11
Harvest date	Aug. 16
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	N/A
Flood	May 12
Drain	Jul. 26
Pest management	
Herbicides	1 qt/A Glyphosate + 3 oz/A Sharpen + 10 oz/A Command, Mar. 26
	32 oz/A Facet + 0.4 oz/A Regiment + 0.5 oz/A Permit, May 10
Insecticides	None
Fungicides	None

Table 41. Agronomic response of CLL18 to nitrogen fertilizer rate and time of application. St. Landry Parish.

<i>Crop Description</i>				Rice Plant-hd	Rice Emer-hd	Rice Tip of Panicle	Rice
<i>Rating Date</i>						8/16/2022	8/16/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage				
1	UREA	0	4-5 leaf	87.0 e [†]	74.0 e	31.5 e	6121 f
2	UREA	45	4-5 leaf	88.8 d	75.8 d	37.5 d	8100 e
3	UREA	90	4-5 leaf	91.3 b	78.3 b	39.0 cd	9274 d
4	UREA	120	4-5 leaf	91.3 b	78.3 b	43.5 ab	9568 cd
5	UREA	150	4-5 leaf	92.3 a	79.3 a	45.0 a	9881 bc
6	UREA	180	4-5 leaf	92.3 a	79.3 a	46.8 a	10182 ab
7	UREA	75	4-5 leaf	90.3 c	77.3 c	41.5 cd	9631 cd
		45	PD				
8	UREA	105	4-5 leaf	90.3 c	77.3 c	42.5 bc	9965 abc
	UREA	45	PD				
9	UREA	135	4-5 leaf	92.0 ab	79.0 ab	44.8 ab	10451 a
		45	PD				

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of RT 7331 MA to Nitrogen
Fertilizer Rate and Time of Application – St. Landry Parish**

Experiment number	22-SLP-41
Site and design	
Location/Cooperator	St. Landry Parish / Charlie Fontenot
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.21
pH	7.20
Extractable nutrients (ppm)	Ca-4,279; Cu-3.66; Mg-783; P-101; K-300; Na-55; S-10; Zn-2.6
Crop/Variety	
Planting method/date	Drill seeded / Mar. 29
Seeding rate/depth	10 seeds ft ⁻² / 0.5 inches
Emergence date	Apr. 11
Harvest date	Aug. 16
Seed treatment/cwt	
	Hybrids:
	Apron (fungicide)
	Dynasty (fungicide)
	Fludioxonil (fungicide)(Maxim)
	Gibberellic Acid
	Vibrance (fungicide)
	Cruiser (insecticide)
	Zinc
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor – 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	N/A
Flood	May 12
Drain	Jul. 26
Pest management	
Herbicides	1 qt/A Glyphosate + 3 oz/A Sharpen + 10 oz/A Command, Mar. 26 32 oz/A Facet + 0.4 oz/A Regiment + 0.5 oz/A Permit, May 10
Insecticides	None
Fungicides	None

**Table 42. Agronomic response of RT 7331 MA to nitrogen fertilizer rate and time of application.
St. Landry Parish.**

<i>Crop</i>				Rice		Rice		Rice		Rice	
<i>Description</i>				Plant-hd		Emer-hd		Tip of Panicle			
<i>Rating Date</i>								8/16/2022		8/16/2022	
<i>Rating Type</i>				50% HD		50% HD		Height		Yield	
<i>Rating Unit</i>				days		days		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt	Treatment	Rate	Growth								
No.	Name	(lb N/A)	Stage								
1	UREA	0	4-5 leaf	84.0	c [†]	71.0	c	36.0	e	5547	g
2	UREA	45	4-5 leaf	87.0	b	74.0	b	40.5	bd	9475	f
3	UREA	90	4-5 leaf	89.5	a	76.5	a	43.0	cd	10903	de
4	UREA	120	4-5 leaf	89.3	a	76.3	a	44.5	a	12055	bc
5	UREA	150	4-5 leaf	89.5	a	76.5	a	43.0	cd	12742	ab
6	UREA	180	4-5 leaf	89.8	a	76.8	a	46.8	a	13372	a
7	UREA	75	4-5 leaf	86.8	b	73.8	b	40.8	bcd	10302	e
		45	PD								
8	UREA	105	4-5 leaf	89.0	a	76.0	a	42.0	cd	11585	cd
	UREA	45	PD								
9	UREA	135	4-5 leaf	89.8	a	76.8	a	43.3	c	12602	b
		45	PD								

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of RT 7321 FP to Nitrogen
Fertilizer Rate and Time of Application – St. Landry Parish**

Experiment number	22-SLP-42
Site and design	
Location/Cooperator	St. Landry Parish / Charlie Fontenot
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.21
pH	7.20
Extractable nutrients (ppm)	Ca-4,279; Cu-3.66; Mg-783; P-101; K-300; Na-55; S-10; Zn-2.6
Crop/Variety	
Planting method/date	Drill seeded / Mar. 29
Seeding rate/depth	10 seeds ft ⁻² / 0.5 inches
Emergence date	Apr. 11
Harvest date	Aug. 16
Seed treatment/cwt	
	Hybrids:
	Apron (fungicide)
	Dynasty (fungicide)
	Fludioxonil (fungicide)(Maxim)
	Gibberellic Acid
	Vibrance (fungicide)
	Cruiser (insecticide)
	Zinc
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor – 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	N/A
Flood	May 12
Drain	Jul. 26
Pest management	
Herbicides	1 qt/A Glyphosate + 3 oz/A Sharpen + 10 oz/A Command, Mar. 26 32 oz/A Facet + 0.4 oz/A Regiment + 0.5 oz/A Permit, May 10
Insecticides	None
Fungicides	None

Table 43. Agronomic response of RT 7321 FP to nitrogen fertilizer rate and time of application. St. Landry Parish.

<i>Crop Description</i>				Rice Plant-hd		Rice Emer-hd		Rice Tip of Panicle		Rice	
<i>Rating Date</i>								8/16/2022		8/16/2022	
<i>Rating Type</i>				50% HD		50% HD		Height		Yield	
<i>Rating Unit</i>				days		days		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage								
1	UREA	0	4-5 leaf	83.3	b†	70.3	b	39.0	b	6483	d
2	UREA	45	4-5 leaf	87.8	a	74.8	a	45.0	a	9561	c
3	UREA	90	4-5 leaf	89.3	a	76.3	a	46.5	a	10530	bc
4	UREA	120	4-5 leaf	89.8	a	76.8	a	46.0	a	11328	ab
5	UREA	150	4-5 leaf	89.0	a	76.0	a	45.3	a	11830	a
6	UREA	180	4-5 leaf	89.8	a	76.8	a	48.5	a	12512	a
7	UREA	75	4-5 leaf	88.8	a	75.8	a	44.8	a	10566	bc
		45	PD								
8	UREA	105	4-5 leaf	90.0	a	77.0	a	47.0	a	11337	ab
	UREA	45	PD								
9	UREA	135	4-5 leaf	89.0	a	76.0	a	47.5	a	12058	a
		45	PD								

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for PVL03 – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-11
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.20
pH	6.99
Extractable nutrients (ppm)	Ca-1176; Cu-1.85; Mg-239; P-13; K-68; Na-85; S-7.0; Zn-9.7
Crop/Variety	
Planting method/date	Drill seeded / Mar. 17
Seeding rate/depth	See Trt. Name / 1.0 inch
Emergence date	Mar. 31
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 2
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 17
	150 lb N/A 46-0-0, May 3
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 4
Drain	Jul. 19
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 44. Evaluation of seeding rate and plant population in a stale seedbed for PVL03. H. Rouse Caffey Rice Research Station.

Crop	Rice				Rice				Rice				Rice																											
Description	Rice Density				Plant-hd				Emer-hd				Tip of panicle																											
Rating Date	4/18/2022				50% HD				50% HD				7/29/2022																											
Rating Type	Stand Count				days				days				Height																											
Rating Unit	#/ft²				days				days				in																											
Cropping cycle	Main				Main				Main				Main																											
Trt	Treatment												Ratoon				Main+Ratoon																							
No.	Name																																							
1	5 seed/ft² (11.6 lb/A)												3.9 c [†]				96.0 a				82.0 a				39.5				7755 c				1871				8238 b			
2	10 seed/ft² (22.3 lb/A)												6.3 c				95.3 ab				81.3 ab				39.8				9034 bc				1772				9927 ab			
3	15 seed/ft² (34.9 lb/A)												11.8 b				95.0 bc				81.0 bc				39.5				9945 ab				1632				10778 a			
4	20 seed/ft² (46.6 lb/A)												14.9 b				93.8 d				79.8 d				39.3				10840 a				1592				11654 a			
5	30 seed/ft² (69.9 lb/A)												19.2 a				94.3 cd				80.3 cd				38.8				10150 ab				1721				11450 a			
6	40 seed/ft² (93.1 lb/A)												22.9 a				94.0 d				80.0 d				39.5				10942 a				1720				11820 a			

*Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for DG-263L – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-12
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.20
pH	6.99
Extractable nutrients (ppm)	Ca-1176; Cu-1.85; Mg-239; P-13; K-68; Na-85; S-7.0; Zn-9.7
Crop/Variety	
Planting method/date	Drill seeded / Mar. 17
Seeding rate/depth	See Trt. Name / 1.0 inch
Emergence date	Mar. 31
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 2
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 17
	150 lb N/A 46-0-0, May 3
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 4
Drain	Jul. 19
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 45. Evaluation of seeding rate and plant population in a stale seedbed for DG-263L, H. Rouse Caffey Rice Research Station.

Crop	Rice		Rice		Rice		Rice		Rice		Rice	
Description	Rice Density		Rice-hd		Emer-hd		Tip of panicle		Rice		Rice	
Rating Date	4/18/2022						7/29/2022		8/1/2022		11/2/2022	
Rating Type	Stand Count		50% HD		50% HD		Height		Yield		Yield	
Rating Unit	#/ft²		days		days		in		lb/A		lb/A	
Cropping cycle	Main		Main		Main		Main		Main		Ratoon	
Main+Ratoon												
Trt	Treatment											
No.	Name											
1	5 seed/ft² (11.6 lb/A)	3.4	e†	101.0	a	87.0	a	38.3	8274	c	0*	8274 c
2	10 seed/ft² (22.3 lb/A)	7.6	d	100.3	ab	86.3	ab	38.3	9309	b	0	9309 b
3	15 seed/ft² (34.9 lb/A)	10.4	cd	99.0	bc	85.0	bc	39.3	9906	a	0	9906 a
4	20 seed/ft² (46.6 lb/A)	12.6	c	98.3	cd	84.3	cd	37.3	9958	a	0	9958 a
5	30 seed/ft² (69.9 lb/A)	20.1	b	97.5	d	83.5	d	37.0	10029	a	0	10029 a
6	40 seed/ft² (93.1 lb/A)	26.5	a	97.0	d	83.0	d	38.3	10104	a	0	10104 a

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

[‡] Ratoon yields for all plots and treatments were substantially low due to wet season after the first harvest.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for DGL2065 – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-13
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.20
pH	6.99
Extractable nutrients (ppm)	Ca-1176; Cu-1.85; Mg-239; P-13; K-68; Na-85; S-7.0; Zn-9.7
Crop/Variety	
Planting method/date	Drill seeded / Mar. 17
Seeding rate/depth	See Trt. Name / 1.0 inch
Emergence date	Mar. 31
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 2
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 17
	150 lb N/A 46-0-0, May 3
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 4
Drain	Jul. 19
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 46. Evaluation of seeding rate and plant population in a stale seedbed for DGL2065, H. Rouse Caffey Rice Research Station.

Crop		Rice		Rice		Rice		Rice		Rice		Rice	
Description	Rice Density	Plant-hd	Emer-hd	Tip of panicle		Rice		Rice		Rice		Rice	
Rating Date	4/18/2022			7/29/2022		8/1/2022		11/2/2022					
Rating Type	Stand Count	50% HD	50% HD	Height	Yield	Yield	Yield	Yield	Yield	Yield	Yield	Yield	Total Yield
Rating Unit	#/ft²	days	days	in	lb/A	lb/A	lb/A	lb/A	lb/A	lb/A	lb/A	lb/A	lb/A
Cropping cycle	Main	Main	Main	Main	Main	Main	Main	Main	Main	Main	Main	Main	Main+Ratoon
Trit		Treatment											
No.	Name												
1	5 seed/ft² (11.6 lb/A)	2.7	e†	100.0	a	86.0	a	39.3	6781	c	0‡	6781	c
2	10 seed/ft² (22.3 lb/A)	5.1	e	98.8	ab	84.8	ab	39.8	9081	b	0	9081	b
3	15 seed/ft² (34.9 lb/A)	8.6	d	97.3	bc	83.3	bc	38.8	10319	ab	0	10712	ab
4	20 seed/ft² (46.6 lb/A)	11.7	c	96.5	cd	82.5	cd	38.0	10897	a	0	11367	a
5	30 seed/ft² (69.9 lb/A)	16.6	b	96.3	cd	82.3	cd	37.0	10966	a	0	11366	a
6	40 seed/ft² (93.1 lb/A)	22.2	a	95.5	d	81.5	d	38.3	11783	a	0	12226	a

*Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

†† Ratoon yields for all plots and treatments were substantially low due to wet season after the first harvest.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for DGM004 – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-14
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.20
pH	6.99
Extractable nutrients (ppm)	Ca-1176; Cu-1.85; Mg-239; P-13; K-68; Na-85; S-7.0; Zn-9.7
Crop/Variety	
Planting method/date	Drill seeded / Mar. 17
Seeding rate/depth	See Trt. Name / 1.0 inch
Emergence date	Mar. 31
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 2
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 17
	150 lb N/A 46-0-0, May 3
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 4
Drain	Jul. 19
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 47. Evaluation of seeding rate and plant population in a stale seedbed for DGM004. H. Rouse Caffey Rice Research Station.

Rice									
Crop									
Description		Rice	Plant-hd	Emer-hd	Rice	Tip of panicle		Rice	Rice
Rating Date		Rice Density				7/29/2022		8/1/2022	11/2/2022
Rating Type		Stand Count	50% HD	50% HD		Height	Yield	Yield	Total Yield
Rating Unit		#/ft²	days	days		in	lb/A	lb/A	lb/A
Cropping cycle		Main	Main	Main	Main	Main	Main	Main	Main+Ratoon
Trt	Treatment								
No.	Name								
1	5 seed/ft² (11.6 lb/A)	3.9 e†	102.5 a	88.5 a	33.5		4391 c	0‡	4391 c
2	10 seed/ft² (22.3 lb/A)	7.3 de	99.8 b	85.8 b	32.5		6486 b	0	6486 b
3	15 seed/ft² (34.9 lb/A)	10.0 cd	98.8 bc	84.8 bc	33.8		7179 ab	0	7179 ab
4	20 seed/ft² (46.6 lb/A)	13.0 c	98.8 bc	84.8 bc	33.5		7708 ab	0	7708 ab
5	30 seed/ft² (69.9 lb/A)	20.0 b	97.8 bc	83.8 bc	33.0		8069 a	0	8069 a
6	40 seed/ft² (93.1 lb/A)	29.0 a	97.3 c	83.3 c	32.3		8033 ab	0	8033 ab

*Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

†† Ratoon yields for all plots and treatments were substantially low due to wet season after the first harvest.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for CLL16 – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-15
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	Crowley silt loam
% Organic matter	1.20
pH	6.99
Extractable nutrients (ppm)	Ca-1176; Cu-1.85; Mg-239; P-13; K-68; Na-85; S-7.0; Zn-9.7
Crop/Variety	Rice / CLL16
Planting method/date	Drill seeded / Mar. 17
Seeding rate/depth	See Trt. Name / 1.0 inch
Emergence date	Mar. 31
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 2
Seed treatment/cwt	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	250 lb/A 0-24-24-2.8, Mar. 17
	150 lb N/A 46-0-0, May 3
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	Underground irrigation
Flush	NA
Flood	May 4
Drain	Jul. 19
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 48. Evaluation of seeding rate and plant population in a stale seedbed for CLL16. H. Rouse Caffey Rice Research Station.

Crop		Rice		Rice		Rice		Rice		Rice		Rice	
Description	Rice Density	Plant-hd	Emer-hd	Tip of panicle									
Rating Date	4/18/2022			7/29/2022									
Rating Type	Stand Count	50% HD	50% HD	Height	Yield	8/1/2022	11/2/2022						
Rating Unit	#/ft²	days	days	in	lb/A								
Cropping cycle	Main	Main	Main	Main	Main	Main	Ratoon	Main+Ratoon					
Treatment													
Trt	Name												
No.													
1	5 seed/ft² (11.6 lb/A)	2.3	d†	104.5	a	90.5	a	42.5	d	7362	d	0‡	7362
2	10 seed/ft² (22.3 lb/A)	6.5	c	104.3	a	90.3	a	41.5	c	8484	c	0	8484
3	15 seed/ft² (34.9 lb/A)	7.7	c	103.3	ab	89.3	ab	43.0	b	9439	b	0	9439
4	20 seed/ft² (46.6 lb/A)	11.5	b	101.8	b	87.8	b	41.3	a	10224	a	0	10224
5	30 seed/ft² (69.9 lb/A)	16.3	a	102.3	b	88.3	b	42.8	a	10171	a	0	10171
6	40 seed/ft² (93.1 lb/A)	18.7	a	102.0	b	88.0	b	41.0	a	10351	a	0	10351

*Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

†† Ratoon yields for all plots and treatments were substantially low due to wet season after the first harvest.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for CLL17 – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-16
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.20
pH	6.99
Extractable nutrients (ppm)	Ca-1176; Cu-1.85; Mg-239; P-13; K-68; Na-85; S-7.0; Zn-9.7
Crop/Variety	
Planting method/date	Drill seeded / Mar. 17
Seeding rate/depth	See Trt. Name / 1.0 inch
Emergence date	Mar. 31
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 2
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 17
	150 lb N/A 46-0-0, May 3
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 4
Drain	Jul. 19
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 49. Evaluation of seeding rate and plant population in a stale seedbed for CLL17. H. Rouse Caffey Rice Research Station.

Crop		Rice	Rice	Rice	Rice	Rice	Rice	Rice	Rice
Description		Rice Density	Plant-hd	Emer-hd	Tip of panicle				
Rating Date		4/18/2022			7/29/2022	8/1/2022	11/2/2022		
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield	
Rating Unit		#/ft²	days	days	in	lb/A	lb/A	lb/A	
Cropping cycle		Main	Main	Main	Main	Main	Ratoon	Main+Ratoon	
Trt	Treatment								
No.	Name								
1	5 seed/ft² (11.6 lb/A)	3.7 e†	101.0 a	87.0 a	40.0	9350 b	1520 b	10110 b	b
2	10 seed/ft² (22.3 lb/A)	8.2 d	98.8 b	84.8 b	39.3	10466 a	1500 c	11216 a	a
3	15 seed/ft² (34.9 lb/A)	12.8 c	98.0 bc	84.0 bc	41.5	10714 a	1594 a	11128 a	a
4	20 seed/ft² (46.6 lb/A)	13.2 c	97.8 bc	83.8 bc	39.0	10542 a	0 e	10542 ab	ab
5	30 seed/ft² (69.9 lb/A)	21.0 b	97.0 bc	83.0 bc	39.0	11064 a	0 e	11064 a	a
6	40 seed/ft² (93.1 lb/A)	28.3 a	96.5 c	82.5 c	39.5	10847 a	1416 d	11216 a	a

^{††}Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for AddiJo – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-17
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.20
pH	6.99
Extractable nutrients (ppm)	Ca-1176; Cu-1.85; Mg-239; P-13; K-68; Na-85; S-7.0; Zn-9.7
Crop/Variety	
Planting method/date	Drill seeded / Mar. 17
Seeding rate/depth	See Trt. Name / 1.0 inch
Emergence date	Mar. 31
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 2
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 17
	150 lb N/A 46-0-0, May 3
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 4
Drain	Jul. 19
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 50. Evaluation of seeding rate and plant population in a stale seedbed for AddJo. H. Rouse Caffey Rice Research Station.

Crop		Rice		Rice		Rice		Rice		Rice		Rice	
Description		Rice Density		Plant-hd		Emer-hd		Tip of panicle		Rice		Rice	
Rating Date		4/18/2022						7/29/2022		8/1/2022		11/2/2022	
Rating Type		Stand Count		50% HD		50% HD		Height		Yield		Yield	
Rating Unit		#/ft²		days		days		in		lb/A		lb/A	
Cropping cycle		Main		Main		Main		Main		Main		Ratoon	
Trt		Treatment											
No.		Name											
1	5 seed/ft² (11.6 lb/A)	4.1	d†	102.5	a	88.5	a	39.5	c	7160	c	1897	b
2	10 seed/ft² (22.3 lb/A)	6.1	d	100.8	bc	86.8	bc	38.8	ab	9037	ab	2078	a
3	15 seed/ft² (34.9 lb/A)	11.1	c	101.0	b	87.0	b	39.3	b	8808	b	1656	ab
4	20 seed/ft² (46.6 lb/A)	15.8	b	100.0	bc	86.0	bc	38.3	ab	9725	ab	1838	a
5	30 seed/ft² (69.9 lb/A)	24.1	a	99.8	c	85.8	c	39.0	ab	9612	ab	1798	a
6	40 seed/ft² (93.1 lb/A)	25.5	a	99.8	c	85.8	c	37.8	a	9953	a	1642	a

*Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for CLL19 – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-18
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.20
pH	6.99
Extractable nutrients (ppm)	Ca-1176; Cu-1.85; Mg-239; P-13; K-68; Na-85; S-7.0; Zn-9.7
Crop/Variety	
Planting method/date	Drill seeded / Mar. 17
Seeding rate/depth	See Trt. Name / 1.0 inch
Emergence date	Mar. 31
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 2
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 17
	150 lb N/A 46-0-0, May 3
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 4
Drain	Jul. 19
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 51. Evaluation of seeding rate and plant population in a stale seedbed for CLL19. H. Rouse Caffey Rice Research Station.

<i>Crop</i>	Rice	Rice	Rice	Rice	Rice	Rice	Rice	Rice	Rice					
<i>Description</i>	Rice Density	Plant-hd	Emer-hd	Tip of panicle	Yield	Yield	Yield	Yield	Yield					
<i>Rating Date</i>	4/18/2022			7/29/2022	8/1/2022	8/1/2022	8/1/2022	8/1/2022	11/2/2022					
<i>Rating Type</i>	Stand Count	50% HD	50% HD	Height	Yield	Yield	Yield	Yield	Total Yield					
<i>Rating Unit</i>	#/ft²	days	days	in	lb/A	lb/A	lb/A	lb/A	lb/A					
<i>Cropping cycle</i>	Main	Main	Main	Main	Main	Main	Main	Ratoon	Main+Ratoon					
Trt	Treatment													
No.	Name													
1	5 seed/ft² (11.6 lb/A)	4.3	c [†]	94.0	a	80.0	a	38.0	ab	11095	b	1887	12062	c
2	10 seed/ft² (22.3 lb/A)	7.4	bc	93.3	b	79.3	b	36.3	c	12299	a	1872	13257	ab
3	15 seed/ft² (34.9 lb/A)	10.8	bc	93.0	b	79.0	b	38.3	a	12272	a	1580	12699	bc
4	20 seed/ft² (46.6 lb/A)	13.6	b	93.0	b	79.0	b	36.8	bc	12582	a	1690	13036	abc
5	30 seed/ft² (69.9 lb/A)	26.5	a	93.0	b	79.0	b	36.8	bc	12664	a	1690	13931	a
6	40 seed/ft² (93.1 lb/A)	24.4	a	93.0	b	79.0	b	36.3	c	12701	a	1661	13554	ab

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for Avant – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-19
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.20
pH	6.99
Extractable nutrients (ppm)	Ca-1176; Cu-1.85; Mg-239; P-13; K-68; Na-85; S-7.0; Zn-9.7
Crop/Variety	
Planting method/date	Drill seeded / Mar. 17
Seeding rate/depth	See Trt. Name / 1.0 inch
Emergence date	Mar. 31
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 2
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 17
	150 lb N/A 46-0-0, May 3
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 4
Drain	Jul. 19
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 52. Evaluation of seeding rate and plant population in a stale seedbed for Avant. H. Rouse Caffey Rice Research Station.

<i>Crop</i>		Rice	Rice	Rice	Rice	Rice	Rice	Rice	Rice
<i>Description</i>		Rice Density	Plant-hd	Emer-hd	Tip of panicle	Yield	Yield	Yield	Yield
<i>Rating Date</i>		4/18/2022			7/29/2022	8/1/2022	11/2/2022		
<i>Rating Type</i>		Stand Count	50% HD	50% HD	Height	Yield	Yield	Yield	Total Yield
<i>Rating Unit</i>		#/ft ²	days	days	in	lb/A	lb/A	lb/A	lb/A
<i>Cropping cycle</i>		Main	Main	Main	Main	Main	Ratoon	Main+Ratoon	
Trt	Treatment								
No.	Name								
1	5 seed/ft ² (11.6 lb/A)	2.8 f [†]	93.5 a	79.5 a	35.3	8145 c	2117	9789 c	
2	10 seed/ft ² (22.3 lb/A)	5.1 e	92.8 a	78.8 a	36.5	9755 b	2015	11770 b	
3	15 seed/ft ² (34.9 lb/A)	9.1 d	93.0 a	79.0 a	37.0	10265 ab	2107	12372 ab	
4	20 seed/ft ² (46.6 lb/A)	11.9 c	93.0 a	79.0 a	36.5	10533 ab	1990	12524 ab	
5	30 seed/ft ² (69.9 lb/A)	20.2 b	91.5 b	77.5 b	35.3	10470 ab	2259	12728 ab	
6	40 seed/ft ² (93.1 lb/A)	23.8 a	90.8 b	76.8 b	36.3	10842 a	2475	13317 a	

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for CLL18 – H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-20
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.20
pH	6.99
Extractable nutrients (ppm)	Ca-1176; Cu-1.85; Mg-239; P-13; K-68; Na-85; S-7.0; Zn-9.7
Crop/Variety	
Planting method/date	Drill seeded / Mar. 17
Seeding rate/depth	See Trt. Name / 1.0 inch
Emergence date	Mar. 31
Harvest date	Aug. 1
Ratoon Harvest date	Nov. 2
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 17
	150 lb N/A 46-0-0, May 3
	90 lb N/A 46-0-0, Aug. 11 (ratoon)
Water management	
Flush	NA
Flood	May 4
Drain	Jul. 19
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 53. Evaluation of seeding rate and plant population in a stale seedbed for CLL18. H. Rouse Caffey Rice Research Station.

<i>Crop</i>	Rice	Rice	Rice	Rice	Rice	Rice	Rice	Rice
<i>Description</i>	Rice Density	Plant-hd	Emer-hd	Tip of panicle				
<i>Rating Date</i>	4/18/2022			7/29/2022	8/1/2022	11/2/2022		
<i>Rating Type</i>	Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield	
<i>Rating Unit</i>	#/ft ²	days	days	in	lb/A	lb/A	lb/A	
<i>Cropping cycle</i>	Main	Main	Main	Main	Main	Ratoon	Main+Ratoon	
Trt	Treatment							
No.	Name							
1	5 seed/ft ² (11.6 lb/A)	3.2 f [†]	103.8 a	89.8 a	43.5	8126 d	0 [‡]	8126 d
2	10 seed/ft ² (22.3 lb/A)	6.0 e	102.8 ab	88.8 ab	41.8	9873 c	0	9873 c
3	15 seed/ft ² (34.9 lb/A)	8.2 d	101.5 bc	87.5 bc	43.3	10644 b	0	10644 b
4	20 seed/ft ² (46.6 lb/A)	11.4 c	101.0 c	87.0 c	41.8	10994 b	0	10994 b
5	30 seed/ft ² (69.9 lb/A)	17.0 b	100.3 c	86.3 c	42.0	11165 ab	0	11165 ab
6	40 seed/ft ² (93.1 lb/A)	22.5 a	100.0 c	86.0 c	42.5	11796 a	0	11796 a

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

[‡] Ratoon yields for all plots and treatments were substantially low due to wet season after the first harvest.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for PVL03 – Tensas Parish**

Experiment number	22-SJ-11
Site and design	
Location/Cooperator	Tensas Parish / Northeast Research Station
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.71
pH	7.12
Extractable nutrients (ppm)	Ca-4,875; Cu-7.0; Mg-1023; P-65; K-421; Na-63; S-10; Zn-4
Crop/Variety	
Planting method/date	Drill seeded / May 11
Seeding rate/depth	See Trt. Name / 0.5 inches
Emergence date	May 18
Harvest date	Sep. 21
Seed treatment/cwt	
Conventional Varieties:	
Apron (fungicide) – 8.88 ml	
Maxim (fungicide) – 0.88 ml	
Release (gibberellic acid) – 10 g	
Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml	
AV-1011 (bird repellent) – 18.3 oz	
Dermacor- 0.137 lb ai/cwt	
Fertilization	
250 lb/A 0-24-24-2.8, Jun. 15	
Water management	
Underground irrigation	
Flush	May 12
Flood	Jun. 6
Drain	Aug. 31
Pest management	
Herbicides5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11
32 oz/A Facet L + 0.66 oz/A Permit, Jun. 1	
2 qt/A Stam + 2 qt/A Ricebeaux + 1.5 oz/A Gambit + 2 pt/A Prowl H ₂ O,	
Jun. 15	
Insecticides	None
Fungicides	None

Table 54. Evaluation of seeding rate and plant population in a stale seedbed for PVL03. Tensas Parish.

<i>Crop</i>		Rice	Rice	Rice	Rice	Rice
<i>Description</i>		Rice Density	Plant-hd	Emer-hd	Tip of panicle	
<i>Rating Date</i>		6/9/2022			9/21/2022	9/21/2022
<i>Rating Type</i>		Stand Count	50% HD	50% HD	Height	Yield
<i>Rating Unit</i>		#/ft ²	days	days	in	lb/A
<i>Cropping cycle</i>		Main	Main	Main	Main	Main
Trt	Treatment					
No.	Name					
1	5 seed/ft ² (11.6 lb/A)	4.8 d [†]	90.3 a	83.3 a	45.0	6811 c
2	10 seed/ft ² (22.3 lb/A)	12.9 bc	90.3 a	83.3 a	43.5	8078 b
3	15 seed/ft ² (34.9 lb/A)	11.5 cd	86.8 b	79.8 b	44.3	8070 b
4	20 seed/ft ² (46.6 lb/A)	19.9 a	86.8 b	79.8 b	43.0	8658 ab
5	30 seed/ft ² (69.9 lb/A)	20.6 a	87.5 b	80.5 b	43.8	8541 ab
6	40 seed/ft ² (93.1 lb/A)	19.7 ab	87.5 b	80.5 b	43.5	8782 a

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for CLL16 – Tensas Parish**

Experiment number	22-SJ-15
Site and design	
Location/Cooperator	Tensas Parish / Northeast Research Station
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.71
pH	7.12
Extractable nutrients (ppm)	Ca-4,875; Cu-7.0; Mg-1023; P-65; K-421; Na-63; S-10; Zn-4
Crop/Variety	
Planting method/date	Drill seeded / May 11
Seeding rate/depth	See Trt. Name / 0.5 inches
Emergence date	May 18
Harvest date	Sep. 21
Seed treatment/cwt	
Conventional Varieties:	
Apron (fungicide) – 8.88 ml	
Maxim (fungicide) – 0.88 ml	
Release (gibberellic acid) – 10 g	
Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml	
AV-1011 (bird repellent) – 18.3 oz	
Dermacor- 0.137 lb ai/cwt	
Fertilization	
250 lb/A 0-24-24-2.8, Jun. 15	
Water management	
Underground irrigation	
Flush	May 12
Flood	Jun. 6
Drain	Aug. 31
Pest management	
Herbicides5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11
32 oz/A Facet L + 0.66 oz/A Permit, Jun. 1	
2 qt/A Stam + 2 qt/A Ricebeaux + 1.5 oz/A Gambit + 2 pt/A Prowl H ₂ O,	
Jun. 15	
Insecticides	None
Fungicides	None

Table 55. Evaluation of seeding rate and plant population in a stale seedbed for CLL16. Tensas Parish.

<i>Crop</i>		Rice	Rice	Rice	Rice	Rice
<i>Description</i>		Rice Density	Plant-hd	Emer-hd	Tip of panicle	
<i>Rating Date</i>		6/9/2022			9/21/2022	9/21/2022
<i>Rating Type</i>		Stand Count	50% HD	50% HD	Height	Yield
<i>Rating Unit</i>		#/ft ²	days	days	in	lb/A
<i>Cropping cycle</i>		Main	Main	Main	Main	Main
Trt	Treatment					
No.	Name					
1	5 seed/ft ² (11.6 lb/a)	2.8 e [†]	91	84	41.8	6625 c
2	10 seed/ft ² (22.3 lb/a)	5.4 de	91	84	43.8	7804 bc
3	15 seed/ft ² (34.9 lb/a)	7.3 cd	91	84	43.5	7634 bc
4	20 seed/ft ² (46.6 lb/a)	9.1 bc	91	84	43.3	8560 ab
5	30 seed/ft ² (69.9 lb/a)	12.7 b	91	84	41.0	8943 ab
6	40 seed/ft ² (93.1 lb/a)	20.2 a	91	84	40.5	9505 a

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for CLL17 – Tensas Parish**

Experiment number: 22-SJ-16

Site and design

Location/Cooperator: Tensas Parish / Northeast Research Station

Tillage type.....: Conventional

Experimental design.....: Randomized Complete Block Design

Number of reps: 4

Plot size.....: 4.67 x 16 ft

Row width/rows per plot.....: 8 in / 7

Soil type: Sharkey clay

% Organic matter.....: 1.71

pH.....: 7.12

Extractable nutrients (ppm).....: Ca-4,875; Cu-7.0; Mg-1023; P-65; K-421; Na-63; S-10; Zn-4

Crop/Variety: Rice / CLL17

Planting method/date: Drill seeded / May 11

Seeding rate/depth.....: See Trt. Name / 0.5 inches

Emergence date.....: May 18

Harvest date: Sep. 21

Seed treatment/cwt: **Conventional Varieties:**

Apron (fungicide) – 8.88 ml

Maxim (fungicide) – 0.88 ml

Release (gibberellic acid) – 10 g

Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml

AV-1011 (bird repellent) – 18.3 oz

Dermacor- 0.137 lb ai/cwt

Fertilization: 250 lb/A 0-24-24-2.8, Jun. 15

Water management: Underground irrigation

Flush: May 12

Flood: Jun. 6

Drain: Aug. 31

Pest management

Herbicides.....: .5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11

32 oz/A Facet L + 0.66 oz/A Permit, Jun. 1

2 qt/A Stam + 2 qt/A Ricebeaux + 1.5 oz/A Gambit + 2 pt/A Prowl H₂O,
Jun. 15

Insecticides: None

Fungicides.....: None

Table 56. Evaluation of seeding rate and plant population in a stale seedbed for CLL17. Tensas Parish.

<i>Crop</i>		Rice	Rice	Rice	Rice	Rice
<i>Description</i>		Rice Density	Plant-hd	Emer-hd	Tip of panicle	
<i>Rating Date</i>		6/9/2022			9/21/2022	9/21/2022
<i>Rating Type</i>		Stand Count	50% HD	50% HD	Height	Yield
<i>Rating Unit</i>		#/ft ²	days	days	in	lb/A
<i>Cropping cycle</i>		Main	Main	Main	Main	Main
Trt	Treatment					
No.	Name					
1	5 seed/ft ² (11.6 lb/a)	6.6 e [†]	84	77	41.0 a	7380 b
2	10 seed/ft ² (22.3 lb/a)	8.8 de	84	77	40.0 ab	8174 ab
3	15 seed/ft ² (34.9 lb/a)	14.0 cd	84	77	39.3 bc	8551 a
4	20 seed/ft ² (46.6 lb/a)	19.4 bc	84	77	39.3 bc	8413 ab
5	30 seed/ft ² (69.9 lb/a)	19.6 b	84	77	38.0 c	7615 ab
6	40 seed/ft ² (93.1 lb/a)	26.5 a	84	77	38.3 c	8550 a

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for AddiJo – Tensas Parish**

Experiment number: 22-SJ-17

Site and design

Location/Cooperator: Tensas Parish / Northeast Research Station

Tillage type.....: Conventional

Experimental design.....: Randomized Complete Block Design

Number of reps: 4

Plot size.....: 4.67 x 16 ft

Row width/rows per plot.....: 8 in / 7

Soil type: Sharkey clay

% Organic matter.....: 1.71

pH.....: 7.12

Extractable nutrients (ppm).....: Ca-4,875; Cu-7.0; Mg-1023; P-65; K-421; Na-63; S-10; Zn-4

Crop/Variety: Rice / AddiJo

Planting method/date: Drill seeded / May 11

Seeding rate/depth.....: See Trt. Name / 0.5 inches

Emergence date.....: May 18

Harvest date: Sep. 21

Seed treatment/cwt: **Conventional Varieties:**

Apron (fungicide) – 8.88 ml

Maxim (fungicide) – 0.88 ml

Release (gibberellic acid) – 10 g

Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml

AV-1011 (bird repellent) – 18.3 oz

Dermacor- 0.137 lb ai/cwt

Fertilization: 250 lb/A 0-24-24-2.8, Jun. 15

Water management: Underground irrigation

Flush: May 12

Flood: Jun. 6

Drain: Aug. 31

Pest management

Herbicides.....: .5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11

32 oz/A Facet L + 0.66 oz/A Permit, Jun. 1

2 qt/A Stam + 2 qt/A Ricebeaux + 1.5 oz/A Gambit + 2 pt/A Prowl H₂O,

Jun. 15

Insecticides: None

Fungicides.....: None

Table 57. Evaluation of seeding rate and plant population in a stale seedbed for AddiJo. Tensas Parish.

<i>Crop</i>		Rice	Rice	Rice	Rice	Rice
<i>Description</i>		Rice Density	Plant-hd	Emer-hd	Tip of panicle	
<i>Rating Date</i>		6/9/2022			9/21/2022	9/21/2022
<i>Rating Type</i>		Stand Count	50% HD	50% HD	Height	Yield
<i>Rating Unit</i>		#/ft ²	days	days	in	lb/A
<i>Cropping cycle</i>		Main	Main	Main	Main	Main
Trt	Treatment					
No.	Name					
1	5 seed/ft ² (11.6 lb/a)	5.3 d [†]	99	92	40.8	3754 d
2	10 seed/ft ² (22.3 lb/a)	11.6 c	99	92	41.5	4753 c
3	15 seed/ft ² (34.9 lb/a)	13.2 bc	99	92	40.3	5398 bc
4	20 seed/ft ² (46.6 lb/a)	17.1 b	99	92	40.3	5822 ab
5	30 seed/ft ² (69.9 lb/a)	25.0 a	99	92	40.3	6136 ab
6	40 seed/ft ² (93.1 lb/a)	29.2 a	99	92	38.5	6373 a

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for CLL19 – Tensas Parish**

Experiment number: 22-SJ-18

Site and design

Location/Cooperator: Tensas Parish / Northeast Research Station

Tillage type.....: Conventional

Experimental design.....: Randomized Complete Block Design

Number of reps: 4

Plot size.....: 4.67 x 16 ft

Row width/rows per plot.....: 8 in / 7

Soil type: Sharkey clay

% Organic matter.....: 1.71

pH.....: 7.12

Extractable nutrients (ppm).....: Ca-4,875; Cu-7.0; Mg-1023; P-65; K-421; Na-63; S-10; Zn-4

Crop/Variety: Rice / CLL19

Planting method/date: Drill seeded / May 11

Seeding rate/depth.....: See Trt. Name / 0.5 inches

Emergence date.....: May 18

Harvest date: Sep. 21

Seed treatment/cwt: **Conventional Varieties:**

Apron (fungicide) – 8.88 ml

Maxim (fungicide) – 0.88 ml

Release (gibberellic acid) – 10 g

Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml

AV-1011 (bird repellent) – 18.3 oz

Dermacor- 0.137 lb ai/cwt

Fertilization: 250 lb/A 0-24-24-2.8, Jun. 15

Water management: Underground irrigation

Flush: May 12

Flood: Jun. 6

Drain: Aug. 31

Pest management

Herbicides.....: .5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11

32 oz/A Facet L + 0.66 oz/A Permit, Jun. 1

2 qt/A Stam + 2 qt/A Ricebeaux + 1.5 oz/A Gambit + 2 pt/A Prowl H2O,
Jun. 15

Insecticides: None

Fungicides.....: None

Table 58. Evaluation of seeding rate and plant population in a stale seedbed for CLL19, Tensas Parish.

<i>Crop</i>		Rice	Rice	Rice	Rice	Rice
<i>Description</i>		Rice Density	Plant-hd	Emer-hd	Tip of panicle	
<i>Rating Date</i>		6/9/2022			9/21/2022	9/21/2022
<i>Rating Type</i>		Stand Count	50% HD	50% HD	Height	Yield
<i>Rating Unit</i>		#/ft ²	days	days	in	lb/A
<i>Cropping cycle</i>		Main	Main	Main	Main	Main
Trt	Treatment					
No.	Name					
1	5 seed/ft ² (11.6 lb/a)	5.1 e†	99	92	38.5	7215
2	10 seed/ft ² (22.3 lb/a)	10.0 d	99	92	39.5	7994
3	15 seed/ft ² (34.9 lb/a)	13.0 cd	99	92	37.5	7944
4	20 seed/ft ² (46.6 lb/a)	15.0 c	99	92	39.0	8056
5	30 seed/ft ² (69.9 lb/a)	20.4 b	99	92	38.5	8576
6	40 seed/ft ² (93.1 lb/a)	26.4 a	99	92	37.8	8885

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for Avant – Tensas Parish**

Experiment number: 22-SJ-19

Site and design

Location/Cooperator: Tensas Parish / Northeast Research Station

Tillage type.....: Conventional

Experimental design.....: Randomized Complete Block Design

Number of reps: 4

Plot size.....: 4.67 x 16 ft

Row width/rows per plot.....: 8 in / 7

Soil type: Sharkey clay

% Organic matter.....: 1.71

pH.....: 7.12

Extractable nutrients (ppm).....: Ca-4,875; Cu-7.0; Mg-1023; P-65; K-421; Na-63; S-10; Zn-4

Crop/Variety: Rice / Avant

Planting method/date: Drill seeded / May 11

Seeding rate/depth.....: See Trt. Name / 0.5 inches

Emergence date.....: May 18

Harvest date: Sep. 21

Seed treatment/cwt: **Conventional Varieties:**

Apron (fungicide) – 8.88 ml

Maxim (fungicide) – 0.88 ml

Release (gibberellic acid) – 10 g

Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml

AV-1011 (bird repellent) – 18.3 oz

Dermacor- 0.137 lb ai/cwt

Fertilization: 250 lb/A 0-24-24-2.8, Jun. 15

Water management: Underground irrigation

Flush: May 12

Flood: Jun. 6

Drain: Aug. 31

Pest management

Herbicides.....: .5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11

32 oz/A Facet L + 0.66 oz/A Permit, Jun. 1

2 qt/A Stam + 2 qt/A Ricebeaux + 1.5 oz/A Gambit + 2 pt/A Prowl H₂O,
Jun. 15

Insecticides: None

Fungicides.....: None

Table 59. Evaluation of seeding rate and plant population in a stale seedbed for Avant. Tensas Parish.

<i>Crop</i>		Rice	Rice	Rice	Rice	Rice
<i>Description</i>		Rice Density	Plant-hd	Emer-hd	Tip of panicle	
<i>Rating Date</i>		6/9/2022			9/21/2022	9/21/2022
<i>Rating Type</i>		Stand Count	50% HD	50% HD	Height	Yield
<i>Rating Unit</i>		#/ft ²	days	days	in	lb/A
<i>Cropping cycle</i>		Main	Main	Main	Main	Main
Trt	Treatment					
No.	Name					
1	5 seed/ft ² (11.6 lb/a)	5.4 c [†]	88	81	37.5	6104 c
2	10 seed/ft ² (22.3 lb/a)	9.2 c	88	81	37.0	7134 b
3	15 seed/ft ² (34.9 lb/a)	16.3 b	88	81	37.3	7455 b
4	20 seed/ft ² (46.6 lb/a)	16.7 b	88	81	36.5	7373 b
5	30 seed/ft ² (69.9 lb/a)	19.2 b	88	81	35.0	7909 ab
6	40 seed/ft ² (93.1 lb/a)	28.0 a	88	81	36.8	8442 a

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Evaluation of Seeding Rate and Plant Population in a Stale
Seedbed for CLL18 – Tensas Parish**

Experiment number	22-SJ-20
Site and design	
Location/Cooperator	Tensas Parish / Northeast Research Station
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.71
pH	7.12
Extractable nutrients (ppm)	Ca-4,875; Cu-7.0; Mg-1023; P-65; K-421; Na-63; S-10; Zn-4
Crop/Variety	
Planting method/date	Drill seeded / May 11
Seeding rate/depth	See Trt. Name / 0.5 inches
Emergence date	May 18
Harvest date	Sep. 21
Seed treatment/cwt	
Conventional Varieties:	
Apron (fungicide) – 8.88 ml	
Maxim (fungicide) – 0.88 ml	
Release (gibberellic acid) – 10 g	
Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml	
AV-1011 (bird repellent) – 18.3 oz	
Dermacor- 0.137 lb ai/cwt	
Fertilization	
250 lb/A 0-24-24-2.8, Jun. 15	
Water management	
Underground irrigation	
Flush	May 12
Flood	Jun. 6
Drain	Aug. 31
Pest management	
Herbicides5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11
32 oz/A Facet L + 0.66 oz/A Permit, Jun. 1	
2 qt/A Stam + 2 qt/A Ricebeaux + 1.5 oz/A Gambit + 2 pt/A Prowl H ₂ O,	
Jun. 15	
Insecticides	None
Fungicides	None

Table 60. Evaluation of seeding rate and plant population in a stale seedbed for CLL18. Tensas Parish.

<i>Crop</i>		Rice		Rice		Rice		Rice		Rice
<i>Description</i>		Rice Density		Plant-hd		Emer-hd		Tip of panicle		
<i>Rating Date</i>		6/9/2022						9/21/2022		9/21/2022
<i>Rating Type</i>		Stand Count		50% HD		50% HD		Height		Yield
<i>Rating Unit</i>		#/ft ²		days		days		in		lb/A
<i>Cropping cycle</i>		Main		Main		Main		Main		Main
Trt	Treatment									
No.	Name									
1	5 seed/ft ² (11.6 lb/a)	4.8	d [†]	94.3	a	87.3	a	43.3		7376 b
2	10 seed/ft ² (22.3 lb/a)	9.3	cd	91.8	bc	84.8	bc	42.8		8884 a
3	15 seed/ft ² (34.9 lb/a)	12.0	c	93.8	a	86.8	a	43.0		9616 a
4	20 seed/ft ² (46.6 lb/a)	15.0	bc	94.8	a	87.8	a	41.3		9710 a
5	30 seed/ft ² (69.9 lb/a)	20.1	b	91.3	c	84.3	c	42.0		9570 a
6	40 seed/ft ² (93.1 lb/a)	28.0	a	93.5	ab	86.5	ab	43.3		9804 a

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of RT7521 FP to Nitrogen Fertilizer Rate in Delayed Flood Irrigation - H. Rouse Caffey
Rice Research Station**

Experiment number	22-CM-33A
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.25
pH	7.02
Extractable nutrients (ppm)	Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0
Crop/Variety	
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	10 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Jul. 29
Ratoon Harvest date	NA
Seed treatment/cwt	
	Hybrids:
	Apron (fungicide)
	Dynasty (fungicide)
	Fludioxonil (fungicide)(Maxim)
	Gibberellic Acid
	Sedaxane (fungicide)
	Thiamethoxam (insecticide)
	Zinc
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor – 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 14
Water management	
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	
	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 00.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

**Table 61. Agronomic response of RT7521 FP to nitrogen fertilizer rate in delayed flood irrigation.
H. Rouse Caffey Rice Research Station.**

<i>Crop Description</i>				Rice Plant-hd	Rice Emer-hd	Rice Tip of Panicle	Rice
<i>Rating Date</i>						7/29/2022	7/29/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage				
1	UREA	0	4-5 leaf	93.0 c [†]	79.0 c	35.3 c	8006 c
2	UREA	90	4-5 leaf	96.3 b	82.3 b	46.3 b	14344 b
3	UREA	120	4-5 leaf	97.0 b	83.0 b	47.5 ab	14609 ab
4	UREA	150	4-5 leaf	97.5 ab	83.5 ab	48.3 ab	14970 a
5	UREA	180	4-5 leaf	98.5 a	84.5 a	49.5 a	14491 ab
6	UREA	210	4-5 leaf	97.5 ab	83.5 ab	47.5 ab	14496 ab

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of RT7521 FP to Nitrogen Fertilizer Application Timing
In Delayed Flood System - H. Rouse Caffey Rice Research Station**

Experiment number: 22-CM-33B

Site and design:

Location/Cooperator: H. Rouse Caffey Rice Research Station (Crowley Main)

Tillage type.....: Fall Stale

Experimental design.....: Randomized Complete Block Design

Number of reps: 4

Plot size.....: 4.67 x 16 ft

Row width/rows per plot.....: 8 in / 7

Soil type: Crowley silt loam

% Organic matter.....: 1.25

pH.....: 7.02

Extractable nutrients (ppm).....: Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0

Crop/Variety: Rice / RT7521 FullPage

Planting method/date: Drill seeded / Mar. 14

Seeding rate/depth.....: 10 seeds ft⁻² / 1.0 inch

Emergence date.....: Mar. 28

Harvest date: Jul. 29

Ratoon Harvest date.....: NA

Seed treatment/cwt: **Hybrids:**

Apron (fungicide)

Dynasty (fungicide)

Fludioxonil (fungicide)(Maxim)

Gibberellic Acid

Sedaxane (fungicide)

Thiamethoxam (insecticide)

Zinc

AV-1011 (bird repellent) – 18.3 oz

Dermacor – 0.137 lb ai/cwt

Fertilization: 250 lb/A 0-24-24-2.8, Mar. 14

Water management: Underground irrigation

Flush: NA

Flood: May 3

Drain.....: Jul. 18

Ratoon flood: NA

Ratoon drain: NA

Pest management.....:

Herbicides.....: 1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021

1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 00.25% Surfactant, Mar. 7

2 pt/A Prowl H₂O + 0.66 oz/A Permit + 1% COC, Apr. 4

1.5 oz/A Gambit + 1% COC, Apr. 28

20 oz/A Rebel EX + 1 qt/A COC, May 17

Insecticides: 2.5 oz/A Warrior II, Jun. 18

Fungicides.....: 15 oz/A Amistar Top, Jun. 18

**Table 62. Agronomic response of RT7521 FP to nitrogen fertilizer application timing in delayed flood system.
H. Rouse Caffey Rice Research Station.**

<i>Crop</i>				Rice	Rice	Rice	Rice
<i>Description</i>				Plant-hd	Emer-hd	Tip of panicle	
<i>Rating Date</i>						7/29/2022	7/29/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt	Treatment	Rate	Growth				
No.	Name	(lb N/A)	Stage				
1	0 lb N/A			93.0	e [†]	79.0	e
2	120 lb N/A			97.8	a	83.8	a
	Single Pre-flood (4 Leaf)	120	4-LEAF			46.8	ab
3	120 lb N/A	60	4-LEAF	95.8	cd	81.8	cd
	2-way split	60	4-LEAF+7D			42.8	cd
4	120 lb N/A	60	4-LEAF	96.0	bc	82.0	bc
	2-way split	60	4-LEAF+14D			44.0	cd
5	120 lb N/A	40	4-LEAF	95.0	d	81.0	d
	3-way split	40	4-LEAF+7D			41.8	d
		40	4-LEAF+14D				
6	165 lb N/A			98.3	a	84.3	a
	Single Pre-flood (4 Leaf)	165	4-LEAF			47.5	a
7	165 lb N/A	82.5	4-LEAF	96.0	bc	82.0	bc
	2-way split	82.5	4-LEAF+7D			44.5	bc
8	165 lb N/A	82.5	4-LEAF	96.8	b	82.8	b
	2-way split	82.5	4-LEAF+14D			43.5	cd
9	165 lb N/A	55	4-LEAF	96.0	bc	82	bc
	3-way split	55	4-LEAF+7D			43.8	cd
		55	4-LEAF+14D				

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of CLL17 to Nitrogen Fertilizer Rate in Delayed Flood Irrigation
H. Rouse Caffey Rice Research Station**

Experiment number	22-CM-33C
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.25
pH	7.02
Extractable nutrients (ppm)	Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0
Crop/Variety	
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	33 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Jul. 29
Ratoon Harvest date	NA
Seed treatment/cwt	
	Conventional varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 14
Water management	
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	
	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 00.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 63. Agronomic response of CLL17 to nitrogen fertilizer rate in delayed flood irrigation. H. Rouse Caffey Rice Research Station.

<i>Crop Description</i>				Rice Plant-hd	Rice Emer-hd	Rice Tip of Panicle	Rice
<i>Rating Date</i>						7/29/2022	7/29/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage				
1	UREA	0	4-5 leaf	97.3 c [†]	83.3 c	28.5 c	4585 b
2	UREA	90	4-5 leaf	98.0 c	84.0 c	36.8 b	9622 a
3	UREA	120	4-5 leaf	99.3 b	85.3 b	39.0 ab	9555 a
4	UREA	150	4-5 leaf	100.5 a	86.5 a	39.8 a	10034 a
5	UREA	180	4-5 leaf	100.8 a	86.8 a	39.5 a	9448 a
6	UREA	210	4-5 leaf	100.8 a	86.8 a	40.8 a	9871 a

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of CLL17 to Nitrogen Fertilizer Application Timing
In Delayed Flood System - H. Rouse Caffey Rice Research Station**

Experiment number: 22-CM-33D

Site and design:

Location/Cooperator: H. Rouse Caffey Rice Research Station (Crowley Main)

Tillage type.....: Fall Stale

Experimental design.....: Randomized Complete Block Design

Number of reps: 4

Plot size.....: 4.67 x 16 ft

Row width/rows per plot.....: 8 in / 7

Soil type: Crowley silt loam

% Organic matter.....: 1.25

pH.....: 7.02

Extractable nutrients (ppm).....: Ca-1394; Cu-1.93; Mg-278; P-50; K-84; Na-110; S-12.4; Zn-9.0

Crop/Variety: Rice / CLL17

Planting method/date: Drill seeded / Mar. 14

Seeding rate/depth.....: 33 seeds ft⁻² / 1.0 inch

Emergence date.....: Mar. 28

Harvest date: Jul. 29

Ratoon Harvest date.....: NA

Seed treatment/cwt: **Conventional varieties:**

 Apron (fungicide) – 8.88 ml

 Maxim (fungicide) – 0.88 ml

 Release (gibberellic acid) – 10 g

 Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml

 AV-1011 (bird repellent) – 18.3 oz

 Dermacor- 0.137 lb ai/cwt

Fertilization: 250 lb/A 0-24-24-2.8, Mar. 14

Water management: Underground irrigation

Flush: NA

Flood: May 3

Drain: Jul. 18

Ratoon flood: NA

Ratoon drain: NA

Pest management:

Herbicides.....: 1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021

 1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 00.25%
 Surfactant, Mar. 7

 2 pt/A Prowl H₂O + 0.66 oz/A Permit + 1% COC, Apr. 4

 1.5 oz/A Gambit + 1% COC, Apr. 28

 20 oz/A Rebel EX + 1 qt/A COC, May 17

Insecticides: 2.5 oz/A Warrior II, Jun. 18

Fungicides.....: 15 oz/A Amistar Top, Jun. 18

Table 64. Agronomic response of CLL17 to nitrogen fertilizer application timing in delayed flood system. H. Rouse Caffey Rice Research Station.

<i>Crop Description</i>				Rice Plant-hd		Rice Emer-hd		Rice Tip of panicle		Rice	
<i>Rating Date</i>				50% HD		50% HD		7/29/2022		7/29/2022	
<i>Rating Type</i>				days		days		Height		Yield	
<i>Rating Unit</i>				Main		Main		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage								
1	0 lb N/A			96.8	d†	82.8	d	30.0	e	4828	f
2	120 lb N/A			99.5	ab	85.5	ab	39.0	a	10230	a
	Single Pre-flood (4 Leaf)	120	4-LEAF								
3	120 lb N/A	60	4-LEAF	97.5	cd	83.5	cd	34.3	d	8661	cd
	2-way split	60	4-LEAF+7D								
4	120 lb N/A	60	4-LEAF	98.5	bc	84.5	bc	35.3	cd	8473	de
	2-way split	60	4-LEAF+14D								
5	120 lb N/A	40	4-LEAF	97.8	cd	83.8	cd	33.5	d	7877	e
	3-way split	40	4-LEAF+7D								
		40	4-LEAF+14D								
6	165 lb N/A			99.8	a	85.8	a	38.5	ab	10254	a
	Single Pre-flood (4 Leaf)	165	4-LEAF								
7	165 lb N/A	82.5	4-LEAF	99.0	ab	85.0	ab	37.3	abc	9414	b
	2-way split	82.5	4-LEAF+7D								
8	165 lb N/A	82.5	4-LEAF	99.5	ab	85.5	ab	37.0	abc	9354	bc
	2-way split	82.5	4-LEAF+14D								
9	165 lb N/A	55	4-LEAF	98.5	bc	84.5	bc	36.0	bcd	8720	bcd
	3-way split	55	4-LEAF+7D								
		55	4-LEAF+14D								

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of RT7521 FP to Nitrogen Fertilizer Rate in
Row Irrigation – H. Rouse Caffey Rice Research Station**

Experiment number: 21-CM-34A

Site and design:

Location/Cooperator: H. Rouse Caffey Rice Research Station (Crowley Main)

Tillage type.....: Fall Stale (Row Irrigation)

Experimental design.....: Randomized Complete Block Design

Number of reps: 4

Plot size.....: 4.67 x 16 ft

Row width/rows per plot.....: 8 in / 7

Soil type: Crowley silt loam

% Organic matter.....: 1.20

pH.....: 7.08

Extractable nutrients (ppm).....: Ca-1272; Cu-1.58; Mg-258; P-13; K-68; Na-93; S-6.6; Zn-7.4

Crop/Variety: Rice / RT 7521 FullPage

Planting method/date: Drill seeded / Mar. 17

Seeding rate/depth.....: 10 seeds ft⁻² / 0.5 inches

Emergence date.....: Mar. 31

Harvest date: Jul. 31

Seed treatment/cwt: **Hybrids:**

Apron (fungicide)

Dynasty (fungicide)

Fludioxonil (fungicide)(Maxim)

Gibberellic Acid

Sedaxane (fungicide)

Thiamethoxam (insecticide)

Zinc

Fertilization: 250 lb/A 0-24-24-2.8, Mar. 14

Water management: Underground irrigation

Flush: As needed

Flood: NA

Drain: NA

Pest management:

Herbicides.....: 1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021

1 qt/A Glyphosate + 2 oz/A Sharpen + 4 oz/A Command + 00.25% Surfactant, Mar. 7

2 pt/A Prowl H₂O + 0.66 oz/A Permit + 1% COC, Apr. 4

1.5 oz/A Gambit + 2 pt/A Prowl H₂O + 1% COC, Apr. 28

20 oz/A Rebel EX + 1 qt/A COC, May 17

Insecticides: 2.5 oz/A Warrior II, Jun. 18

Fungicides.....: 15 oz/A Amistar Top, Jun. 18

Table 65. Agronomic response of RT7521 FP to nitrogen fertilizer rate in row irrigation. H. Rouse Caffey Rice Research Station.

<i>Crop Description</i>				Rice Plant-hd	Rice Emer-hd	Rice Tip of Panicle	Rice
<i>Rating Date</i>						7/29/2022	7/31/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage				
1	UREA	0	4-5 leaf	94.8 d [†]	80.8 d	29.5 d	5290 c
2	UREA	90	4-5 leaf	98.3 c	84.3 c	39.5 bc	9800 b
3	UREA	120	4-5 leaf	100.0 b	86.0 b	39.3 c	10081 b
4	UREA	150	4-5 leaf	100.0 b	86.0 b	41.8 ab	11122 a
5	UREA	180	4-5 leaf	103.0 a	89.0 a	42.0 a	11759 a
6	UREA	210	4-5 leaf	103.0 a	89.0 a	43.8 a	11688 a

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of RT7521 FP to Nitrogen Fertilizer Application Timing in
Row Irrigation – H. Rouse Caffey Rice Research Station**

Experiment number: 21-CM-34B

Site and design:

Location/Cooperator: H. Rouse Caffey Rice Research Station (Crowley Main)

Tillage type.....: Fall Stale (Row Irrigation)

Experimental design.....: Randomized Complete Block Design

Number of reps: 4

Plot size.....: 4.67 x 16 ft

Row width/rows per plot.....: 8 in / 7

Soil type: Crowley silt loam

% Organic matter.....: 1.20

pH.....: 7.08

Extractable nutrients (ppm).....: Ca-1272; Cu-1.58; Mg-258; P-13; K-68; Na-93; S-6.6; Zn-7.4

Crop/Variety: Rice / RT 7521 FullPage

Planting method/date: Drill seeded / Mar. 17

Seeding rate/depth.....: 10 seeds ft⁻² / 0.5 inches

Emergence date.....: Mar. 31

Harvest date: Jul. 31

Seed treatment/cwt: **Hybrids:**

Apron (fungicide)

Dynasty (fungicide)

Fludioxonil (fungicide)(Maxim)

Gibberellic Acid

Sedaxane (fungicide)

Thiamethoxam (insecticide)

Zinc

Fertilization: 250 lb/A 0-24-24-2.8, Mar. 14

Water management: Underground irrigation

Flush: As needed

Flood: NA

Drain: NA

Pest management:

Herbicides.....: 1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021

1 qt/A Glyphosate + 2 oz/A Sharpen + 4 oz/A Command + 0.25% Surfactant, Mar. 7

2 pt/A Prowl H₂O + 0.66 oz/A Permit + 1% COC, Apr. 4

1.5 oz/A Gambit + 2 pt/A Prowl H₂O + 1% COC, Apr. 28

20 oz/A Rebel EX + 1 qt/A COC, May 17

Insecticides: 2.5 oz/A Warrior II, Jun. 18

Fungicides.....: 15 oz/A Amistar Top, Jun. 18

Table 66. Agronomic response of RT7521 FP to nitrogen fertilizer application timing in row irrigation. H. Rouse Caffey Rice Research Station.

<i>Crop Description</i>				Rice Plant-hd		Rice Emer-hd		Rice Tip of panicle		Rice
<i>Rating Date</i>								7/29/2022		7/31/2022
<i>Rating Type</i>						50% HD		50% HD		Height
<i>Rating Unit</i>						days		days		in
<i>Cropping Cycle</i>						Main		Main		Main
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage							
1	0 lb N/A			95.0	d [†]	81.0	d	32.8	c	5576 e
2	120 lb N/A			99.3	bc	85.3	bc	41.0	ab	10212 bc
	Single Pre-flood (4 Leaf)	120	4-LEAF							
3	120 lb N/A	60	4-LEAF	98.5	c	84.5	c	39.0	b	9525 d
	2-way split	60	4-LEAF+7D							
4	120 lb N/A	60	4-LEAF	100.0	ab	86.0	ab	40.5	ab	9710 cd
	2-way split	60	4-LEAF+14D							
5	120 lb N/A	40	4-LEAF	100.0	ab	86.0	ab	38.8	b	9433 d
	3-way split	40	4-LEAF+7D							
		40	4-LEAF+14D							
6	165 lb N/A			100.8	a	86.8	a	40.5	ab	10782 a
	Single Pre-flood (4 Leaf)	165	4-LEAF							
7	165 lb N/A	82.5	4-LEAF	100.0	ab	86.0	ab	41.3	ab	10640 ab
	2-way split	82.5	4-LEAF+7D							
8	165 lb N/A	82.5	4-LEAF	100.3	ab	86.3	ab	43.0	a	11004 a
	2-way split	82.5	4-LEAF+14D							
9	165 lb N/A	55	4-LEAF	99.5	abc	85.5	abc	39.8	b	9939 cd
	3-way split	55	4-LEAF+7D							
		55	4-LEAF+14D							

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of CLL17 to Nitrogen Fertilizer Rate in
Row Irrigation – H. Rouse Caffey Rice Research Station**

Experiment number: 21-CM-34C

Site and design:

Location/Cooperator: H. Rouse Caffey Rice Research Station (Crowley Main)

Tillage type.....: Fall Stale (Row Irrigation)

Experimental design.....: Randomized Complete Block Design

Number of reps: 4

Plot size.....: 4.67 x 16 ft

Row width/rows per plot.....: 8 in / 7

Soil type: Crowley silt loam

% Organic matter.....: 1.20

pH.....: 7.08

Extractable nutrients (ppm).....: Ca-1272; Cu-1.58; Mg-258; P-13; K-68; Na-93; S-6.6; Zn-7.4

Crop/Variety: Rice / CLL17

Planting method/date: Drill seeded / Mar. 17

Seeding rate/depth.....: 33 seeds ft⁻² / 0.5 inches

Emergence date.....: Mar. 31

Harvest date: Jul. 31

Seed treatment/cwt: **Hybrids:**

 Apron (fungicide)

 Dynasty (fungicide)

 Fludioxonil (fungicide)(Maxim)

 Gibberellic Acid

 Sedaxane (fungicide)

 Thiamethoxam (insecticide)

 Zinc

Fertilization: 250 lb/A 0-24-24-2.8, Mar. 14

Water management: Underground irrigation

Flush: As needed

Flood: NA

Drain: NA

Pest management:

Herbicides.....: 1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021

 1 qt/A Glyphosate + 2 oz/A Sharpen + 4 oz/A Command + 00.25% Surfactant, Mar. 7

 2 pt/A Prowl H₂O + 0.66 oz/A Permit + 1% COC, Apr. 4

 1.5 oz/A Gambit + 2 pt/A Prowl H₂O + 1% COC, Apr. 28

 20 oz/A Rebel EX + 1 qt/A COC, May 17

Insecticides: 2.5 oz/A Warrior II, Jun. 18

Fungicides.....: 15 oz/A Amistar Top, Jun. 18

Table 67. Agronomic response of CLL17 to nitrogen fertilizer rate in row irrigation. H. Rouse Caffey Rice Research Station.

<i>Crop Description</i>				Rice Plant-hd	Rice Emer-hd	Rice Tip of Panicle	Rice
<i>Rating Date</i>						7/29/2022	7/31/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage				
1	UREA	0	4-5 leaf	103.0 d†	91.8 d	36.8 c	2970 e
2	UREA	90	4-5 leaf	103.3 cd	90.5 cd	36.5 b	5674 d
3	UREA	120	4-5 leaf	104.0 bc	90.5 bc	35.3 b	6458 c
4	UREA	150	4-5 leaf	104.5 b	90.0 b	33.5 ab	6984 b
5	UREA	180	4-5 leaf	105.8 a	89.3 a	32.8 a	7323 b
6	UREA	210	4-5 leaf	104.5 b	89.0 b	27.8 a	7863 a

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of CLL17 to Nitrogen Fertilizer Application Timing in
Row Irrigation – H. Rouse Caffey Rice Research Station**

Experiment number: 21-CM-34D

Site and design:

Location/Cooperator: H. Rouse Caffey Rice Research Station (Crowley Main)

Tillage type.....: Fall Stale (Row Irrigation)

Experimental design.....: Randomized Complete Block Design

Number of reps: 4

Plot size.....: 4.67 x 16 ft

Row width/rows per plot.....: 8 in / 7

Soil type: Crowley silt loam

% Organic matter.....: 1.20

pH.....: 7.08

Extractable nutrients (ppm).....: Ca-1272; Cu-1.58; Mg-258; P-13; K-68; Na-93; S-6.6; Zn-7.4

Crop/Variety: Rice / CLL17

Planting method/date: Drill seeded / Mar. 17

Seeding rate/depth.....: 33 seeds ft⁻² / 0.5 inches

Emergence date.....: Mar. 31

Harvest date: Jul. 31

Seed treatment/cwt: **Hybrids:**

Apron (fungicide)

Dynasty (fungicide)

Fludioxonil (fungicide)(Maxim)

Gibberellic Acid

Sedaxane (fungicide)

Thiamethoxam (insecticide)

Zinc

Fertilization: 250 lb/A 0-24-24-2.8, Mar. 14

Water management: Underground irrigation

Flush: As needed

Flood: NA

Drain: NA

Pest management:

Herbicides.....: 1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021

1 qt/A Glyphosate + 2 oz/A Sharpen + 4 oz/A Command + 00.25% Surfactant, Mar. 7

2 pt/A Prowl H₂O + 0.66 oz/A Permit + 1% COC, Apr. 4

1.5 oz/A Gambit + 2 pt/A Prowl H₂O + 1% COC, Apr. 28

20 oz/A Rebel EX + 1 qt/A COC, May 17

Insecticides: 2.5 oz/A Warrior II, Jun. 18

Fungicides.....: 15 oz/A Amistar Top, Jun. 18

Table 68. Agronomic response of RT7521 FP to nitrogen fertilizer application timing in row irrigation. H. Rouse Caffey Rice Research Station.

<i>Crop Description</i>				Rice Plant-hd		Rice Emer-hd		Rice Tip of panicle		Rice	
<i>Rating Date</i>								7/29/2022		7/31/2022	
<i>Rating Type</i>				50% HD		50% HD		Height		Yield	
<i>Rating Unit</i>				days		days		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage								
1	0 lb N/A			103.0	d†	89.0	d	28.0	e	3316	f
2	120 lb N/A			104.5	c	90.5	c	34.3	abcd	6345	de
	Single Pre-flood (4 Leaf)	120	4-LEAF								
3	120 lb N/A	60	4-LEAF	104.8	bc	90.8	bc	33.5	bcd	6156	e
	2-way split	60	4-LEAF+7D								
4	120 lb N/A	60	4-LEAF	104.8	bc	90.8	bc	33.0	cd	6975	abc
	2-way split	60	4-LEAF+14D								
5	120 lb N/A	40	4-LEAF	105.0	ab	91.0	ab	32.0	d	6298	de
	3-way split	40	4-LEAF+7D								
		40	4-LEAF+14D								
6	165 lb N/A			105.3	a	91.3	a	36.5	a	7343	a
	Single Pre-flood (4 Leaf)	165	4-LEAF								
7	165 lb N/A	82.5	4-LEAF	105.0	ab	91.0	ab	36.0	ab	6854	bc
	2-way split	82.5	4-LEAF+7D								
8	165 lb N/A	82.5	4-LEAF	105.0	ab	91.0	ab	35.5	abc	7233	ab
	2-way split	82.5	4-LEAF+14D								
9	165 lb N/A	55	4-LEAF	104.8	bc	90.8	bc	34.8	abcd	6711	cd
	3-way split	55	4-LEAF+7D								
		55	4-LEAF+14D								

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of RT7521 FP to Nitrogen Fertilizer Rate in
Row Irrigation – Tensas Parish**

Experiment number	21-SJ-34A
Site and design	
Location/Cooperator	Tensas Parish / Northeast Research Station
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	2.53
pH	6.41
Extractable nutrients (ppm)	Ca-4,801; Cu-6.0; Mg-1048; P-83; K-527; Na-56; S-13; Zn-6.0
Crop/Variety	
Planting method/date	Drill seeded / May 11
Seeding rate/depth	10 seeds ft ⁻² / 0.5 inches
Emergence date	May 18
Harvest date	Sep. 21
Seed treatment/cwt	
	Hybrids:
	Apron (fungicide)
	Dynasty (fungicide)
	Fludioxonil (fungicide)(Maxim)
	Gibberellic Acid
	Sedaxane (fungicide)
	Thiamethoxam (insecticide)
	Zinc
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor – 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	As needed
Flood	NA
Drain	NA
Pest management	
Herbicides	1.5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11
	32 oz/A Facet L + 0.66 oz/A Permit, Jun. 1
	2 qt/A Stam + 2 qt/A Ricebeaux + 1.5 oz/A Gambit + 2 pt/A Prowl H ₂ O, Jun. 15
Insecticides	None
Fungicides	None

Table 69. Agronomic response of RT7521 FP to nitrogen fertilizer rate in row irrigation. Tensas Parish.

<i>Crop</i>				Rice	Rice	Rice	Rice
<i>Description</i>				Plant-hd	Emer-hd	Tip of Panicle	
<i>Rating Date</i>						9/21/2022	9/21/2022
<i>Rating Type</i>				50% HD	50% HD	Height	Yield
<i>Rating Unit</i>				days	days	in	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main
Trt	Treatment	Rate	Growth				
No.	Name	(lb N/A)	Stage				
1	UREA	0	4-5 leaf	91.3	b [†]	84.3	b
2	UREA	90	4-5 leaf	99.5	a	92.5	a
3	UREA	120	4-5 leaf	99.5	a	92.5	a
4	UREA	150	4-5 leaf	99.5	a	92.5	a
5	UREA	180	4-5 leaf	97.5	a	90.5	a
6	UREA	210	4-5 leaf	101.0	a	94.0	a

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of RT7521 FP to Nitrogen Fertilizer Application Timing in
Row Irrigation – Tensas Parish**

Experiment number	21-SJ-34B
Site and design	
Location/Cooperator	Tensas Parish / Northeast Research Station
Tillage type	Conventional
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	2.53
pH	6.41
Extractable nutrients (ppm)	Ca-4,801; Cu-6.0; Mg-1048; P-83; K-527; Na-56; S-13; Zn-6.0
Crop/Variety	
Planting method/date	Drill seeded / May 11
Seeding rate/depth	10 seeds ft ⁻² / 0.5 inches
Emergence date	May 18
Harvest date	Sep. 21
Seed treatment/cwt	
	Hybrids:
	Apron (fungicide)
	Dynasty (fungicide)
	Fludioxonil (fungicide)(Maxim)
	Gibberellic Acid
	Sedaxane (fungicide)
	Thiamethoxam (insecticide)
	Zinc
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor – 0.137 lb ai/cwt
Fertilization	
	No blanket applications
Water management	
Flush	As needed
Flood	NA
Drain	NA
Pest management	
Herbicides	1.5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11
	32 oz/A Facet L + 0.66 oz/A Permit, Jun. 1
	2 qt/A Stam + 2 qt/A Ricebeaux + 1.5 oz/A Gambit + 2 pt/A Prowl H ₂ O, Jun. 15
Insecticides	None
Fungicides	None

Table 70. Agronomic response of RT7521 FP to nitrogen fertilizer application timing in row irrigation. Tensas Parish.

<i>Crop Description</i>				Rice Plant-hd		Rice Emer-hd		Rice Tip of panicle 9/21/2022		Rice 9/21/2022	
<i>Rating Date</i>				50% HD		50% HD		Height		Yield	
<i>Rating Type</i>				days		days		in		lb/A	
<i>Rating Unit</i>				Main		Main		Main		Main	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage								
1	0 lb N/A			91.5	c†	84.5	c	38.8	b	7236	c
2	120 lb N/A			99.0	a	92.0	a	43.3	a	7856	abc
	Single Pre-flood (4 Leaf)	120	4-LEAF								
3	120 lb N/A	60	4-LEAF	96.5	ab	89.5	ab	45.3	a	8546	abc
	2-way split	60	4-LEAF+7D								
4	120 lb N/A	60	4-LEAF	95.5	b	88.5	b	42.5	a	8540	abc
	2-way split	60	4-LEAF+14D								
5	120 lb N/A	40	4-LEAF	95.0	b	88.0	b	45.5	a	8878	ab
	3-way split	40	4-LEAF+7D								
		40	4-LEAF+14D								
6	165 lb N/A			97.0	ab	90.0	ab	45.5	a	9062	a
	Single Pre-flood (4 Leaf)	165	4-LEAF								
7	165 lb N/A	82.5	4-LEAF	99.0	a	92.0	a	43.8	a	7725	abc
	2-way split	82.5	4-LEAF+7D								
8	165 lb N/A	82.5	4-LEAF	96.8	ab	89.8	ab	45.0	a	8106	abc
	2-way split	82.5	4-LEAF+14D								
9	165 lb N/A	55	4-LEAF	98.8	a	91.8	a	44.5	a	7470	bc
	3-way split	55	4-LEAF+7D								
		55	4-LEAF+14D								

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of CLL17 to Nitrogen Fertilizer Rate in
Row Irrigation – Tensas Parish**

Experiment number: 21-SJ-34C

Site and design:

Location/Cooperator: Tensas Parish / Northeast Research Station

Tillage type.....: Conventional

Experimental design.....: Randomized Complete Block Design

Number of reps: 4

Plot size.....: 4.67 x 16 ft

Row width/rows per plot.....: 8 in / 7

Soil type: Sharkey clay

% Organic matter.....: 2.53

pH.....: 6.41

Extractable nutrients (ppm).....: Ca-4,801; Cu-6.0; Mg-1048; P-83; K-527; Na-56; S-13; Zn-6.0

Crop/Variety: Rice / CLL17

Planting method/date: Drill seeded / May 11

Seeding rate/depth.....: 33 seeds ft⁻² / 0.5 inches

Emergence date.....: May 18

Harvest date: Sep. 21

Seed treatment/cwt: **Conventional varieties:**

 Apron (fungicide) – 8.88 ml

 Maxim (fungicide) – 0.88 ml

 Release (gibberellic acid) – 10 g

 Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml

 AV-1011 (bird repellent) – 18.3 oz

 Dermacor- 0.137 lb ai/cwt

Fertilization: No blanket applications

Water management: Underground irrigation

Flush: As needed

Flood: NA

Drain.....: NA

Pest management.....:

Herbicides.....: 1.5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11

 32 oz/A Facet L + 0.66 oz/A Permit, Jun. 1

 2 qt/A Stam + 2 qt/A Ricebeaux + 1.5 oz/A Gambit + 2 pt/A Prowl H₂O,

 Jun. 15

Insecticides: None

Fungicides.....: None

Table 71. Agronomic response of CLL17 to nitrogen fertilizer rate in row irrigation. Tensas Parish.

<i>Crop</i>				Rice		Rice		Rice		Rice	
<i>Description</i>				Plant-hd		Emer-hd		Tip of Panicle			
<i>Rating Date</i>								9/21/2022		9/21/2022	
<i>Rating Type</i>				50% HD		50% HD		Height		Yield	
<i>Rating Unit</i>				days		days		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt	Treatment	Rate	Growth								
No.	Name	(lb N/A)	Stage								
1	UREA	0	4-5 leaf	91.3	d [†]	84.3	d	29.8	b	3856	b
2	UREA	90	4-5 leaf	92.5	c	85.5	c	33.5	a	4703	a
3	UREA	120	4-5 leaf	94.3	b	87.3	b	33.8	a	4746	a
4	UREA	150	4-5 leaf	93.5	bc	86.5	bc	34.3	a	5288	a
5	UREA	180	4-5 leaf	94.3	b	87.3	b	35.0	a	4907	a
6	UREA	210	4-5 leaf	95.5	a	88.5	a	35.8	a	5008	a

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Agronomic Response of CLL17 to Nitrogen Fertilizer Application Timing in
Row Irrigation – Tensas Parish**

Experiment number: 21-SJ-34D

Site and design:

Location/Cooperator: Tensas Parish / Northeast Research Station

Tillage type.....: Conventional

Experimental design.....: Randomized Complete Block Design

Number of reps: 4

Plot size.....: 4.67 x 16 ft

Row width/rows per plot.....: 8 in / 7

Soil type: Sharkey clay

% Organic matter.....: 2.53

pH.....: 6.41

Extractable nutrients (ppm).....: Ca-4,801; Cu-6.0; Mg-1048; P-83; K-527; Na-56; S-13; Zn-6.0

Crop/Variety: Rice / RT 7521 FullPage

Planting method/date: Drill seeded / May 11

Seeding rate/depth.....: 33 seeds ft⁻² / 0.5 inches

Emergence date.....: May 18

Harvest date: Sep. 21

Seed treatment/cwt: **Conventional varieties:**

 Apron (fungicide) – 8.88 ml

 Maxim (fungicide) – 0.88 ml

 Release (gibberellic acid) – 10 g

 Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml

 AV-1011 (bird repellent) – 18.3 oz

 Dermacor- 0.137 lb ai/cwt

Fertilization: No blanket applications

Water management: Underground irrigation

Flush: As needed

Flood: NA

Drain.....: NA

Pest management.....:

Herbicides.....: 1.5 qt/A Glyphosate + 2 oz/A Sharpen + 16 oz/A Command, May 11

 32 oz/A Facet L + 0.66 oz/A Permit, Jun. 1

 2 qt/A Stam + 2 qt/A Ricebeaux + 1.5 oz/A Gambit + 2 pt/A Prowl H₂O,

 Jun. 15

Insecticides: None

Fungicides.....: None

Table 72. Agronomic response of CLL17 to nitrogen fertilizer application timing in row irrigation. Tensas Parish.

<i>Crop Description</i>				Rice Plant-hd		Rice Emer-hd		Rice Tip of panicle		Rice	
<i>Rating Date</i>				50% HD		50% HD		9/21/2022		9/21/2022	
<i>Rating Type</i>				days		days		Height		Yield	
<i>Rating Unit</i>				Main		Main		in		lb/A	
<i>Cropping Cycle</i>				Main		Main		Main		Main	
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage								
1	0 lb N/A			91.0	fg [†]	84.0	fg	30.5	b	3931	d
2	120 lb N/A			93.0	cde	86.0	cde	35.3	a	5307	abc
	Single Pre-flood (4 Leaf)	120	4-LEAF								
3	120 lb N/A	60	4-LEAF	92.3	de	85.3	de	36.8	a	4870	c
	2-way split	60	4-LEAF+7D								
4	120 lb N/A	60	4-LEAF	93.3	bcd	86.3	bcd	36.8	a	5318	abc
	2-way split	60	4-LEAF+14D								
5	120 lb N/A	40	4-LEAF	94.3	ab	87.3	ab	34.3	a	5124	bc
	3-way split	40	4-LEAF+7D								
		40	4-LEAF+14D								
6	165 lb N/A			92.0	ef	85.0	ef	36.8	a	5320	abc
	Single Pre-flood (4 Leaf)	165	4-LEAF								
7	165 lb N/A	82.5	4-LEAF	94.0	abc	87.0	abc	35.5	a	5312	abc
	2-way split	82.5	4-LEAF+7D								
8	165 lb N/A	82.5	4-LEAF	94.5	a	87.5	a	35.0	a	5720	a
	2-way split	82.5	4-LEAF+14D								
9	165 lb N/A	55	4-LEAF	90.3	g	83.3	g	36.0	a	5585	ab
	3-way split	55	4-LEAF+7D								
		55	4-LEAF+14D								

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

Evaluation of Stubble Management and Nitrogen Rate for Ratoon Crop of PVL03 – H. Rouse Caffey Rice Research Station

Experiment number	22-CM-24
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.35
pH	6.89
Extractable nutrients (ppm)	Ca-1421; Cu-1.86; Mg-269; P-72; K-93; Na-89; S-7.0; Zn-8.2
Crop/Variety	
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	33 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Aug. 1
Ratoon Harvest date	Oct. 31
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 14
	150 lb N/A 46-0-0, May 2
Water management	
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 00.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

**Table 73. Evaluation of stubble management and nitrogen rate for ratoon crop of PVL03. H. Rouse Caffey
Rice Research Station.**

<i>Crop Name</i>				Rice	Rice	Rice	Rice	Rice	Rice
<i>Description</i>				Plant-hd	Emer-hd	Tip of panicle			
<i>Rating Date</i>						7/29/2022	8/1/2022	10/31/2022	
<i>Rating Type</i>				50% HD	50% HD	Height	Yield	Yield	Total Yield
<i>Rating Unit</i>				days	days	in	lb/A	lb/A	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main	Ratoon	Main + Ratoon
Trt	Treatment	Rate	Growth						
No.	Name	(lb N/A)	Stage						
1	Normal cut			96	82	42.0	10029	1242	11271 cd†
	Urea 0 N	0	Ratoon PF						
2	Normal cut			96	82	40.0	10065	1394	11459 bcd
	Urea 30 lb N/A	30	Ratoon PF						
3	Normal cut			96	82	40.3	10544	1357	11900 abc
	Urea 60 lb N/A	60	Ratoon PF						
4	Normal cut			96	82	40.3	10503	1296	11799 abc
	Urea 90 lb N/A	90	Ratoon PF						
5	Normal cut			96	82	40.8	10657	1360	12018 ab
	Urea 120 lb N/A	120	Ratoon PF						
6	Normal cut			96	82	40.8	10980	1228	12208 a
	Urea 150 lb N/A	150	Ratoon PF						
7	Bush hog 8"			96	82	39.8	10115	1247	11362 cd
	Urea 0 N	0	Ratoon PF						
8	Bush hog 8"			96	82	41.0	10013	1346	11359 cd
	Urea 30 lb N/A	30	Ratoon PF						
9	Bush hog 8"			96	82	40.0	9985	1129	11114 d
	Urea 60 lb N/A	60	Ratoon PF						
10	Bush hog 8"			96	82	38.5	10657	1179	11835 abc
	Urea 90 lb N/A	90	Ratoon PF						
11	Bush hog 8"			96	82	39.5	10593	1205	11798 abc
	Urea 120 lb N/A	120	Ratoon PF						
12	Bush hog 8"			96	82	39.5	10228	1336	11564 abcd
	Urea 150 lb N/A	150	Ratoon PF						

†Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

Evaluation of Stubble Management and Nitrogen Rate for Ratoon Crop of CLL17 – H. Rouse Caffey Rice Research Station

Experiment number	22-CM-25
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.35
pH	6.89
Extractable nutrients (ppm)	Ca-1421; Cu-1.86; Mg-269; P-72; K-93; Na-89; S-7.0; Zn-8.2
Crop/Variety	
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	33 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Aug. 1
Ratoon Harvest date	Oct. 31
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 14
	150 lb N/A 46-0-0, May 2
Water management	
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 0.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

**Table 74. Evaluation of stubble management and nitrogen rate for ratoon crop of CLL17. H. Rouse Caffey
Rice Research Station.**

<i>Crop Name</i>				Rice	Rice	Rice	Rice	Rice	Rice	
<i>Description</i>				Plant-hd	Emer-hd	Tip of panicle				
<i>Rating Date</i>						7/29/2022	8/1/2022	10/31/2022		
<i>Rating Type</i>				50% HD	50% HD	Height	Yield	Yield	Total Yield	
<i>Rating Unit</i>				days	days	in	lb/A	lb/A	lb/A	
<i>Cropping Cycle</i>				Main	Main	Main	Main	Ratoon	Main + Ratoon	
Trt	Treatment	Rate	Growth							
No.	Name	(lb N/A)	Stage							
1	Normal cut			99	85	39.5	11622	990	cde [†]	12612 ab
	Urea 0 N	0	Ratoon PF							
2	Normal cut			99	85	39.5	11206	1201	abc	12406 ab
	Urea 30 lb N/A	30	Ratoon PF							
3	Normal cut			99	85	40.3	10844	1321	a	12165 abc
	Urea 60 lb N/A	60	Ratoon PF							
4	Normal cut			99	85	38.8	11667	1208	abc	12875 a
	Urea 90 lb N/A	90	Ratoon PF							
5	Normal cut			99	85	39.3	11367	1095	bcd	12461 ab
	Urea 120 lb N/A	120	Ratoon PF							
6	Normal cut			99	85	38.8	11165	1256	ab	12421 ab
	Urea 150 lb N/A	150	Ratoon PF							
7	Bush hog 8"			99	85	39.3	11176	689	f	11555 c
	Urea 0 N	0	Ratoon PF							
8	Bush hog 8"			99	85	37.8	11104	819	def	11516 c
	Urea 30 lb N/A	30	Ratoon PF							
9	Bush hog 8"			99	85	39.3	11076	788	ef	11864 bc
	Urea 60 lb N/A	60	Ratoon PF							
10	Bush hog 8"			99	85	39.3	11329	716	f	12045 bc
	Urea 90 lb N/A	90	Ratoon PF							
11	Bush hog 8"			99	85	39.0	11346	822	def	12168 abc
	Urea 120 lb N/A	120	Ratoon PF							
12	Bush hog 8"			99	85	38.8	11500	906	def	11951 bc
	Urea 150 lb N/A	150	Ratoon PF							

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

**Evaluation of Stubble Management and Nitrogen Rate for Ratoon Crop of RT 7521 FP – H. Rouse Caffey
Rice Research Station**

Experiment number	22-CM-26
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (Crowley Main)
Tillage type	Fall Stale
Experimental design	Randomized Complete Block Design
Number of reps	4
Plot size	4.67 x 16 ft
Row width/rows per plot	8 in / 7
Soil type	
% Organic matter	1.35
pH	6.89
Extractable nutrients (ppm)	Ca-1421; Cu-1.86; Mg-269; P-72; K-93; Na-89; S-7.0; Zn-8.2
Crop/Variety	
Planting method/date	Drill seeded / Mar. 14
Seeding rate/depth	10 seeds ft ⁻² / 1.0 inch
Emergence date	Mar. 28
Harvest date	Aug. 1
Ratoon Harvest date	Oct. 31
Seed treatment/cwt	
	Hybrids:
	Apron (fungicide)
	Dynasty (fungicide)
	Fludioxonil (fungicide)(Maxim)
	Gibberellic Acid
	Sedaxane (fungicide)
	Thiamethoxam (insecticide)
	Zinc
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, Mar. 14
	150 lb N/A 46-0-0, May 2
Water management	
Flush	NA
Flood	May 3
Drain	Jul. 18
Ratoon flood	Aug. 12
Ratoon drain	Oct. 17
Pest management	
Herbicides	1 pt/A 2,4-D + 1 qt/A Glyphosate + 2 oz/A Lead off, Nov. 16, 2021
	1 qt/A Glyphosate + 2 oz/A Sharpen + 8 oz/A Command + 00.25% Surfactant, Mar. 7
	2 pt/A Prowl H ₂ O + 0.66 oz/A Permit + 1% COC, Apr. 4
	1.5 oz/A Gambit + 1% COC, Apr. 28
	20 oz/A Rebel EX + 1 qt/A COC, May 17
Insecticides	2.5 oz/A Warrior II, Jun. 18
Fungicides	15 oz/A Amistar Top, Jun. 18

Table 75. Evaluation of stubble management and nitrogen rate for ratoon crop of RT 7521 FP. H. Rouse Caffey Rice Research Station.

<i>Crop Name</i>				Rice	Rice	Rice	Rice	Rice	Rice
<i>Description</i>				Plant-hd	Emer-hd	Tip of panicle			
<i>Rating Date</i>						7/29/2022	8/1/2022	10/31/2022	
<i>Rating Type</i>				50% HD	50% HD	Height	Yield	Yield	Total Yield
<i>Rating Unit</i>				days	days	in	lb/A	lb/A	lb/A
<i>Cropping Cycle</i>				Main	Main	Main	Main	Ratoon	Main + Ratoon
Trt No.	Treatment Name	Rate (lb N/A)	Growth Stage						
1	Normal cut			96	82	48.5	13918	b [†]	15758
	Urea 0 N	0	Ratoon PF						
2	Normal cut			96	82	47.8	13856	b	15721
	Urea 30 lb N/A	30	Ratoon PF						
3	Normal cut			96	82	49.0	17518	a	19578
	Urea 60 lb N/A	60	Ratoon PF						
4	Normal cut			96	82	49.8	14056	b	15944
	Urea 90 lb N/A	90	Ratoon PF						
5	Normal cut			96	82	48.8	14595	b	16749
	Urea 120 lb N/A	120	Ratoon PF						
6	Normal cut			96	82	50.5	14461	b	16643
	Urea 150 lb N/A	150	Ratoon PF						
7	Bush hog 8"			96	82	48.0	14057	b	15908
	Urea 0 N	0	Ratoon PF						
8	Bush hog 8"			96	82	47.0	14428	b	16898
	Urea 30 lb N/A	30	Ratoon PF						
9	Bush hog 8"			96	82	48.3	14203	b	15846
	Urea 60 lb N/A	60	Ratoon PF						
10	Bush hog 8"			96	82	47.8	13806	b	11824
	Urea 90 lb N/A	90	Ratoon PF						
11	Bush hog 8"			96	82	47.5	13617	b	15727
	Urea 120 lb N/A	120	Ratoon PF						
12	Bush hog 8"			96	82	48.5	14119	b	16042
	Urea 150 lb N/A	150	Ratoon PF						

[†]Values annotated by a common letter within the same column are not significantly different at the .05 level of significance.

ROTATIONAL CROP RESEARCH

M. Kongchum, J.P. Leonards, J.S. Fluitt, and M.J. Breaux

INTRODUCTION

A date of planting trial was conducted for the seventh year in 2022 at the Rice Research Station in Crowley, Louisiana (RRS). The trial evaluated eight late Group III and Group IV soybean varieties (AG38XF1, P40A36E, NK44-J4XFS, S18-1098R, AG48X9, P47A64X, P46A86X, S16-5540R) and four Group V soybean varieties (AG53XF2, AG56XF2, P54A54X, S16-3747RY). Actual dates of planting were March 28, April 11, April 25, May 9, May 30, and June 10. Due to the excessive rainfall, the soybean plantings on March 28, April 11, and May 30 were unable to be harvested. Soybean yield ranged from 20 to 44 bu/A for the beans planted on April 25 (Table 1). Soybean yields ranged from 27 to 46 bu/A for beans planted on May 9. Soybean yields ranged from 19 to 33 bu/A for beans planted on June 10. Average soybean yield by maturity groups is presented in Figure 1. Analysis of multiple years of data will be needed before inferences of the optimum date of planting window for Group IV and Group V soybeans in southwest Louisiana can be made.

Soybean fertility trials were evaluated for two different systems: soybean/fallow, and wheat/soybean rotation. Six small plot trials for each system were conducted to evaluate soybean response to K fertilization rate, K fertilizer timing of application, P fertilizer rate, P fertilizer timing of application, and S and Zn fertilizer date at the Rice Research Station South Farm. Soybeans in both cropping systems were planted twice (May 30 and June 14). The trials that were planted on May 30 had very poor germination. The soybeans, replanted on June 14, also did not have a uniform establishment. Thus, no statistical analysis of the yields of these trials could be performed.

Soybean variety trials were conducted for Group III and early Group IV, mid/late Group IV, and Group V soybeans. The data is not included in this text; however, it can be found in the 2022 Soybean Variety Yields and Production Practices publication (LSU AgCenter publication number 2269) which can be found online at www.lsuagcenter.com. Soybean variety trials are conducted annually to evaluate the maturity group (Groups III – VI) and varietal response to the environmental and soil conditions in southwest Louisiana. In 2022, the varieties with the highest yield at the RRS location included P42A84E (Group III; 32 bu/A), Armor 45-F02 (early Group IV; 33 bu/A), P48A14E (mid/late Group IV; 30 bu/A), Dyna-Gro S52XT91 (Group V; 31 bu/A), and 5N479R2 (mid/late Group V; 35 bu/A).

Wheat varietal and experimental lines are evaluated annually. The results for the Crowley South Farm location can be found in the 2022 Small Grain Performance Trials publication (LSU AgCenter publication number 206) which can be found online at www.lsuagcenter.com. Average wheat yield in 2022 was higher than previous 4-5 years. The top three yielding varieties (from 48 varieties) at the Crowley location in 2022 were Dyna-Gro Riverland (100.8 bu/A), Pioneer 26R94 (98.7), and TX16DDH579AA (98.5 bu/A).

Grain sorghum hybrids are evaluated annually for their yield response. The results of the Rice Research Station South Farm variety trial can be found in the Performance of Sorghum Hybrids in Louisiana in 2022 publication (LSU AgCenter publication number 208) which can be accessed online at www.lsuagcenter.com. Twenty-entries were evaluated in 2022. The highest yielding grain sorghum hybrids at the Crowley location in 2022 were Dyna-Gro M72GB71, CSS Exp001, DKS 45-60, and DKS 51-01 with yields of 51.3, 50.9, and 50.8 bu/A, respectively.

**Evaluation of Date of Planting on Non-Irrigated Soybeans
in Southwest Louisiana - H. Rouse Caffey Rice Research Station (South Unit)**

Experiment number	2022 Soybean Date of Planting
Site and design	
Location/Cooperator	Rice Research Station (South Unit)
Tillage type	Fall stale
Experimental design	Randomized complete block
Number of reps	4
Plot size	5.33 ft. x 20 ft.
Row width/rows per plot	16 inch / 4
Soil type	
% Organic matter	Crowley Silt Loam
pH	1.69
Extractable nutrients (ppm)	5.32
Crop/Variety	Ca-1514; Cu-1.77; Mg-232; P-41; K-120; Na-55; S-11.2; Zn-9.6
Planting method	
Seeding rate/depth	Soybean / See Treatment Name
Planting / Emergence date	Drill seeded
Planting / Emergence date	130,000 seed/acre / 0.5-1 inch
Planting / Emergence date	DOP 1 – March 28 / April 5
Planting / Emergence date	DOP 2 – April 11 / April 18
Planting / Emergence date	DOP 3 – April 25 / May 2
Planting / Emergence date	DOP 4 – May 9 / May 16
Planting / Emergence date	DOP 5 – May 30 / June 6
Planting / Emergence date	DOP 6 – June 10 / June 16
Harvest date	DOP 1 – Did not harvest
Harvest date	DOP 2 – Did not harvest
Harvest date	DOP 3 – September 26
Harvest date	DOP 4 – September 30
Harvest date	DOP 5 – Did not harvest
Harvest date	DOP 6 – October 24
Fertilization	
Fertilization	250 lb/A 0-24-24-2.8, October 13, 2021
Pest management	
Herbicides	1 qt/A Glyphosate, April 4 (DOP 1&2)
Herbicides	1.5 qt/A Glyphosate, May 26
Herbicides	1 qt/A Glyphosate + 1.33 pt/A Dual, May 31
Herbicides	1 qt/A Glyphosate + 0.5 oz/A Classic, July 11
Herbicides	10 oz/A Gramoxone, September 12 (DOP 1, 2, 3)
Herbicides	10 oz/A Gramoxone, September 23 (DOP 4)
Herbicides	10 oz/A Gramoxone, October 11 (DOP 5, 6)
Insecticides	1 lb/A Livid 90, July 5
Insecticides	10 oz/A Besiege, September 1
Insecticides	1 lb/A Livid 90, September 13
Fungicides	20.7 oz/A Trivia Pro, September 13
Comments: DOP 1,2 and 5 were not harvested because of poor stands from excessive and untimely rainfall throughout the year and heavy insect / disease pressure.	

Table 1. Evaluation of date of planting on non-irrigated soybeans in southwest Louisiana - H Rouse Caffey Rice Research Station (South Unit).

Rice Research Station (South Unit).										
Crop Name		Soybeans		Soybeans		Soybeans		Soybeans		
Description		Maturity		Heights		Moisture		Yield		
Rating Date				10/24/2022		10/24/2022		10/24/2022		
Rating Unit		days		in		%		bu/A		
Trt	Treatment									
No.	Name									
TABLE OF A (Date of Planting) MEANS										
1	DOP-1 (Mar 28)		NA		NA		NA		NA	
2	DOP-2 (Apr 11)		NA		NA		NA		NA	
3	DOP-3 (Apr 25)		131 a		20.1 c		11.1 a		34 b	
4	DOP-4 (May 9)		128 b		26.0 b		10.5 b		39 a	
5	DOP-5 (May 30)		NA		NA		NA		NA	
6	DOP-6 (Jun 10)		117 c		31.4 a		10.7 b		27 c	
<i>P</i>		0.0001		0.0001		0.0074		0.0001		
LSD P=.05		0.87		1.03		0.376		2.0		
TABLE OF B (Group/Variety) MEANS										
1	AG38XF1		120 f		23.2 f		9.6 g		23 f	
2	P40A36E		121 ef		24.7 e		9.3 g		34 cd	
3	NK44-J4XFS		123 d		27.4 d		10.5 ef		33 cd	
4	S18-1098R		122 de		31.3 a		10.3 f		32 d	
5	AG48X9		127 c		28.5 cd		11.1 bc		36 bc	
6	P47A64X		128 bc		30.6 ab		10.5 def		39 a	
7	P46A86X		128 b		31.2 a		11.0 cde		34 cd	
8	S16-5540R		123 d		22.3 f		10.7 c-f		37 ab	
9	AG53XF2		131 a		29.3 bc		12.1 a		34 cd	
10	AG56XF2		127 c		23.3 ef		11.1 bcd		34 bcd	
11	P54A54X		128 bc		20.0 g		11.5 b		36 abc	
12	S16-3747RY		127 bc		18.8 g		11.0 bcd		29 e	
<i>P</i>		0.0001		0.0001		0.0001		0.0001		
LSD P=.05		1.23		1.46		0.5318		2.8		

NA = DOP 1 (Mar 28), DOP 2 (Apr 11), and DOP 5 (May 30) were not harvested.

Continued.

Table 1. Continued.

TABLE 17. Continued.									
Crop Name		Soybeans		Soybeans		Soybeans		Soybeans	
Description		Maturity		Heights		Moisture		Yield	
Rating Date				10/24/2022		10/24/2022		10/24/2022	
Rating Unit		days		in		%		bu/A	
Trt	Treatment								
No.	Name								
TABLE OF A (Date of Planting) B (Group/Variety) MEANS									
1	DOP-1 (Mar 28)	NA		NA		NA		NA	
1	AG38XF1								
2	DOP-2 (Apr 11)	NA		NA		NA		NA	
1	AG38XF1								
3	DOP-3 (Apr 25)	125	ijk	17.5	opq	9.4	jkl	20	qrs
1	AG38XF1								
4	DOP-4 (May 9)	120	lmn	23.5	klm	9.3	kl	31	i-o
1	AG38XF1								
5	DOP-5 (May 30)	NA		NA		NA		NA	
1	AG38XF1								
6	DOP-6 (Jun 10)	116	pq	28.5	f-j	10.2	g-l	19	rs
1	AG38XF1								
1	DOP-1 (Mar 28)	NA		NA		NA		NA	
2	P40A36E								
2	DOP-2 (Apr 11)	NA		NA		NA		NA	
2	P40A36E								
3	DOP-3 (Apr 25)	125	ij	19.8	no	9.0	l	30	j-o
2	P40A36E								
4	DOP-4 (May 9)	122	klm	26.5	h-k	9.1	l	45	ab
2	P40A36E								
5	DOP-5 (May 30)	NA		NA		NA		NA	
2	P40A36E								
6	DOP-6 (Jun 10)	116	opq	27.8	g-j	9.9	i-l	26	n-q
2	P40A36E								
1	DOP-1 (Mar 28)	NA		NA		NA		NA	
3	NK44-J4XFS								
2	DOP-2 (Apr 11)	NA		NA		NA		NA	
3	NK44-J4XFS								
3	DOP-3 (Apr 25)	127	hi	22.5	lmn	10.9	d-i	32	g-o
3	NK44-J4XFS								
4	DOP-4 (May 9)	125	ijk	27.8	g-j	9.6	jkl	46	a
3	NK44-J4XFS								
5	DOP-5 (May 30)	NA		NA		NA		NA	
3	NK44-J4XFS								
6	DOP-6 (Jun 10)	118	nop	32.0	c-f	10.9	d-i	22	p-s
3	NK44-J4XFS								

Continued.

Table 1. Continued.

Crop Name		Soybeans	Soybeans	Soybeans	Soybeans
Description		Maturity	Heights	Moisture	Yield
Rating Date			10/24/2022	10/24/2022	10/24/2022
Rating Unit		days	in	%	bu/A
Trt	Treatment				
No.	Name				
TABLE OF A (Date of Planting) B (Group/Variety) MEANS (continued)					
1	DOP-1 (Mar 28)	NA	NA	NA	NA
4	S18-1098R				
2	DOP-2 (Apr 11)	NA	NA	NA	NA
4	S18-1098R				
3	DOP-3 (Apr 25)	126 ij	23.8 klm	10.3 f-l	36 d-k
4	S18-1098R				
4	DOP-4 (May 9)	123 jkl	31.3 d-g	9.5 jkl	42 a-d
4	S18-1098R				
5	DOP-5 (May 30)	NA	NA	NA	NA
4	S18-1098R				
6	DOP-6 (Jun 10)	118 nop	38.8 a	11.0 c-i	19 s
4	S18-1098R				
1	DOP-1 (Mar 28)	NA	NA	NA	NA
5	AG48X9				
2	DOP-2 (Apr 11)	NA	NA	NA	NA
5	AG48X9				
3	DOP-3 (Apr 25)	134 b-e	21.5 mn	11.1 c-i	38 c-i
5	AG48X9				
4	DOP-4 (May 9)	129 gh	29.8 e-h	10.9 d-i	38 b-g
5	AG48X9				
5	DOP-5 (May 30)	NA	NA	NA	NA
5	AG48X9				
6	DOP-6 (Jun 10)	118 nop	34.3 bcd	11.3 b-g	30 j-o
5	AG48X9				
1	DOP-1 (Mar 28)	NA	NA	NA	NA
6	P47A64X				
2	DOP-2 (Apr 11)	NA	NA	NA	NA
6	P47A64X				
3	DOP-3 (Apr 25)	133 b-f	25.8 i-l	10.5 f-k	44 abc
6	P47A64X				
4	DOP-4 (May 9)	132 d-g	30.8 d-g	10.6 e-k	40 a-f
6	P47A64X				
5	DOP-5 (May 30)	NA	NA	NA	NA
6	P47A64X				
6	DOP-6 (Jun 10)	119 mno	35.3 abc	10.5 f-k	32 g-o
6	P47A64X				

Continued.

Table 1. Continued.

Crop Name		Soybeans	Soybeans	Soybeans	Soybeans
Description		Maturity	Heights	Moisture	Yield
Rating Date			10/24/2022	10/24/2022	10/24/2022
Rating Unit		days	in	%	bu/A
Trt	Treatment				
No.	Name				
TABLE OF A (Date of Planting) B (Group/Variety) MEANS (continued)					
1	DOP-1 (Mar 28)	NA	NA	NA	NA
7	P46A86X				
2	DOP-2 (Apr 11)	NA	NA	NA	NA
7	P46A86X				
3	DOP-3 (Apr 25)	133 c-f	23.0 k-n	11.5 b-f	37 d-j
7	P46A86X				
4	DOP-4 (May 9)	134 b-e	34.3 bcd	10.3 f-l	39 b-g
7	P46A86X				
5	DOP-5 (May 30)	NA	NA	NA	NA
7	P46A86X				
6	DOP-6 (Jun 10)	119 mno	36.3 ab	11.1 c-i	26 o-r
7	P46A86X				
1	DOP-1 (Mar 28)	NA	NA	NA	NA
8	S16-5540R				
2	DOP-2 (Apr 11)	NA	NA	NA	NA
8	S16-5540R				
3	DOP-3 (Apr 25)	131 efg	16.3 opq	12.2 bcd	33 f-n
8	S16-5540R				
4	DOP-4 (May 9)	124 ijk	21.3 mn	10.0 g-l	45 abc
8	S16-5540R				
5	DOP-5 (May 30)	NA	NA	NA	NA
8	S16-5540R				
6	DOP-6 (Jun 10)	114 q	29.3 e-i	10.0 h-l	33 f-n
8	S16-5540R				
1	DOP-1 (Mar 28)	NA	NA	NA	NA
9	AG53XF2				
2	DOP-2 (Apr 11)	NA	NA	NA	NA
9	AG53XF2				
3	DOP-3 (Apr 25)	137 a	26.0 i-l	11.0 c-i	41 a-e
9	AG53XF2				
4	DOP-4 (May 9)	136 ab	29.0 f-i	14.6 a	33 f-m
9	AG53XF2				
5	DOP-5 (May 30)	NA	NA	NA	NA
9	AG53XF2				
6	DOP-6 (Jun 10)	119 nop	32.8 b-e	10.7 e-j	28 l-p
9	AG53XF2				

Continued.

Table 1. Continued.

Crop Name Description Rating Date Rating Unit		Soybeans Maturity	Soybeans Heights 10/24/2022	Soybeans Moisture 10/24/2022	Soybeans Yield 10/24/2022
		days	in	%	bu/A
Trt	Treatment				
No.	Name				
TABLE OF A (Date of Planting) B (Group/Variety) MEANS (continued)					
1	DOP-1 (Mar 28)	NA	NA	NA	NA
10	AG56XF2				
2	DOP-2 (Apr 11)	NA	NA	NA	NA
10	AG56XF2				
3	DOP-3 (Apr 25)	135 a-d	16.0 pq	12.5 b	34 e-l
10	AG56XF2				
4	DOP-4 (May 9)	130 fg	22.8 lmn	10.3 f-l	43 a-d
10	AG56XF2				
5	DOP-5 (May 30)	NA	NA	NA	NA
10	AG56XF2				
6	DOP-6 (Jun 10)	116 pq	31.3 d-g	10.3 f-l	26 opq
10	AG56XF2				
1	DOP-1 (Mar 28)	NA	NA	NA	NA
11	P54A54X				
2	DOP-2 (Apr 11)	NA	NA	NA	NA
11	P54A54X				
3	DOP-3 (Apr 25)	135 a-d	15.3 q	12.3 bc	38 c-h
11	P54A54X				
4	DOP-4 (May 9)	131 efg	19.5 nop	11.2 c-h	39 b-g
11	P54A54X				
5	DOP-5 (May 30)	NA	NA	NA	NA
11	P54A54X				
6	DOP-6 (Jun 10)	118 nop	25.3 jkl	11.1 c-i	31 h-o
11	P54A54X				
1	DOP-1 (Mar 28)	NA	NA	NA	NA
12	S16-3747RY				
2	DOP-2 (Apr 11)	NA	NA	NA	NA
12	S16-3747RY				
3	DOP-3 (Apr 25)	135 abc	14.5 q	11.9 b-e	29 k-o
12	S16-3747RY				
4	DOP-4 (May 9)	129 gh	16.3 opq	10.1 g-l	27 m-p
12	S16-3747RY				
5	DOP-5 (May 30)	NA	NA	NA	NA
12	S16-3747RY				
6	DOP-6 (Jun 10)	118 nop	25.8 i-l	11.2 c-h	31 h-o
12	S16-3747RY				
<i>P</i>		0.0001	0.0089	0.0001	0.0001
LSD <i>P</i> =.05		3.02	3.58	1.3027	6.9
Standard Deviation		2.16	2.55	0.9284	4.9
CV		1.72	9.86	8.6532	14.8

NA = DOP 1 (Mar 28), DOP 2 (Apr 11), and DOP 5 (May 30) were not harvested

Means followed by the same letter or symbol do not significantly differ (*P*=.05, LSD).

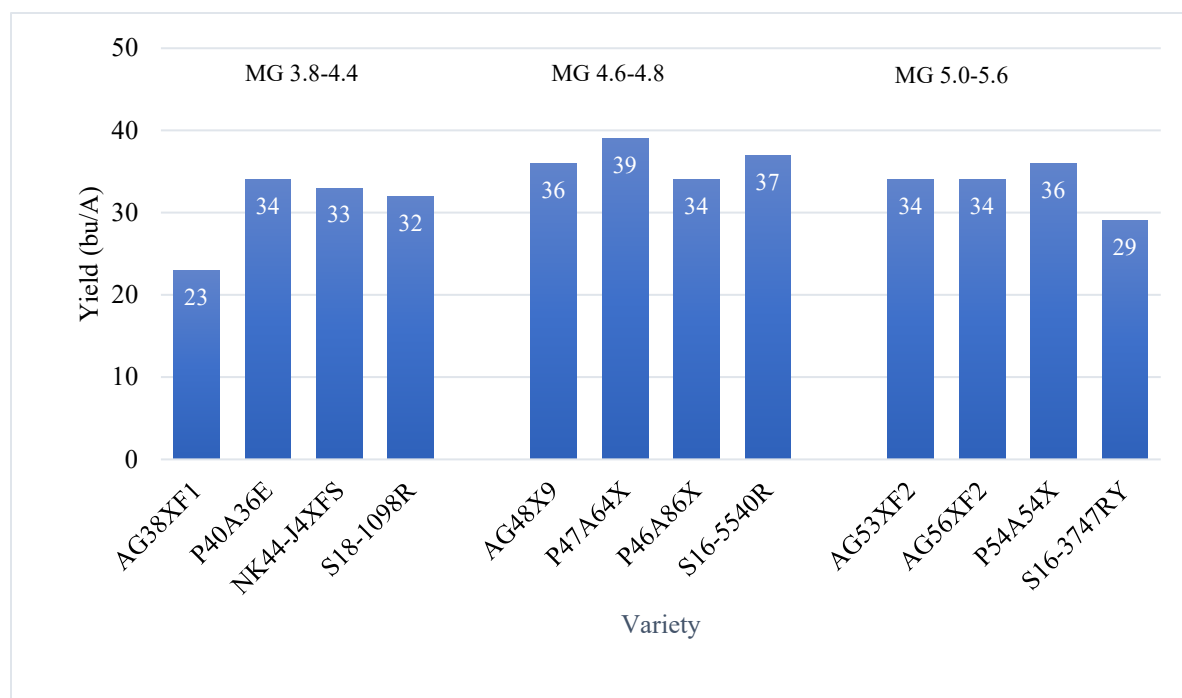


Figure 1.

Average soybean yield (bu/A) by maturity groups from three date of plantings (April 25, May 9, and June 10). H. Rouse Caffey Rice Research Station, South Unit, 2022.

RICE PATHOLOGY RESEARCH

F. Dalla Lana, L. Monte, and C. deNux

INTRODUCTION

Louisiana's warm and wet conditions during the rice growing season and certain cultural practices, such as high nitrogen rates and the use of susceptible varieties, can create an environment conducive to several rice diseases. Historically the most challenging and yield-limiting diseases in the state are sheath blight (*Rhizoctonia solani*), blast (*Pyricularia oryzae*), cercospora or narrow brown leaf spot (*Cercospora janseana*), and bacterial panicle blight (*Burkholderia glumae*). More recently, an increase in the prevalence and severity of kernel smut (*Neovossia horrida*) and false smut (*Ustilaginoidea virens*) has been reported in Louisiana. These six diseases are the major research focus of the LSU - Rice Pathology Program. While major diseases can significantly limit yields, they are caused by different groups of organisms with distinct dispersions and environmental requirements, which requires a complex and comprehensive management strategy for the rice system in Louisiana. In addition, managing these diseases is challenging for growers and other stakeholders since the current methods cannot effectively manage all the diseases simultaneously. Therefore, effective management of rice diseases must follow an integrated pest management (IPM) approach, which encompasses multiple strategies that consider the crop system.

Effective rice disease management can include host resistance, cultural practices, and the use of chemical or biological products. Host resistance is the most effective and affordable method available for controlling disease. Resistant genes, such as *Pita-2* for blast, present in several varieties, can provide effective disease control as long as no new mutation in the fungus population breaks the genetic resistance. Unfortunately, despite research efforts, similar genetic resistance for diseases such as sheath blight and smuts are not yet available. Therefore, controlling these diseases relies on other methods that are less effective than genetic resistance, more expensive (e.g., fungicide application), or can reduce the yield potential (e.g., low N fertilization). To assist in the decision-making in disease management, growers should consider various aspects including the risk of disease development, the potential yield loss, and the cost associated with the management. The research of the Rice Pathology Program targets these aspects, from characterization and discovery of new genetic resistance to management practices and product efficacy. The main goal of our program is to maximize grower return of investment in disease management, causing minimal environmental impact and grain quality loss. Our specific goals are:

- Monitor changes in the status of rice diseases to identify research needs.
- Develop and conduct field screening programs to characterize and discover rice disease resistance.
- Develop and conduct screening programs to evaluate pesticide efficacy, timing, and rates.
- Improve disease management strategies for major rice diseases in Louisiana.

DISEASE REPORT FROM THE 2022 SEASON

During the 2022 rice growing season, the Rice Pathology Program conducted 24 studies, with 12 on the characterization of host resistance, six on chemical and IPM management, and six supporting the development and testing of new chemical and biological products for disease control under Louisiana conditions (not showed in this report). Table 1 details studies on host resistance and IPM management. The weather component was the most important factor in the disease development. The weather was appropriate for earlier planting and faster and well-establishment of the fields, which reduced the risk of seedling disease, usually associated with conditions that slow seedling development. In addition, the weather during most of the vegetative and earlier reproductive stages was dry, reducing the risk of disease development (Figure 1). However, after July, the frequency of rainy and cloudy days increased substantially, and disease severity and prevalence also increased. Nevertheless, no significant yield reduction was observed for the main crop in most fields planted earlier, since the yield components were already defined when disease reduced the healthy leaf area of the upper canopy.

Yield loss associated with the disease was estimated at 6% of grain yield in 2022, based on reports from growers, ag consultants, extension agents, observation from our program, and other specialists (Dr. Ronnie Levy and Dr. Paul "Trey" Price). It is included in this estimation 2% from sheath blight, 0.5% from neck blast, 0.5% from stem rot, and 3% from *Cercospora*. Most yield loss associated with sheath blight was from fields with a historical incidence of the disease and preceded by soybeans with problems with aerial blight, a disease caused by the same pathogen (*R. solani*). Plant tissues with sheath blight symptoms were collected from 25 fields, and the pathogen was isolated for ongoing studies on fungicide resistance. The program is hiring a graduate student, expecting to start in the Summer of 2023, to work on fungicide resistance of *R. solani* using these isolates, in a project in collaboration with Dr. Sara Thomas-Sharma, Dr. Paul "Trey" Price, and Dr. Guy "Boyd" Padgett, from the Department of Plant Pathology and Crop Physiology (PPCP). Blast (leaf and neck) severity and prevalence were limited because of the uncondusive environmental conditions and wide use of resistant varieties. In collaboration with Dr. Ely Oliveira-Garcia from PPCP, we collected plants with blast symptoms across the state. Dr. Oliveira-Garcia is conducting populational studies using isolates to monitor mutation and changes in the pathogen population that may impact the genetic resistance of the elite rice varieties, which is the foundation of blast control in Louisiana. These isolates will also be used for fungicide sensitivity studies in collaboration with Dr. Oliveira-Garcia's lab.

The Rice Pathology Program received plant tissue samples from commercial fields with symptoms characteristic of *Cercospora* in the sheath, stem, and panicle but not in the leaf (the most common expression of this disease). Ag consultants and growers also reported important grain yield reductions associated with these symptoms. The laboratory of Dr. Jonathan Richards, from PPCP, successfully isolated the *C. janseana*, confirming it as the causal agent of the symptoms. Dr. Richards's group is conducting several studies using these and other isolates on the pathogen population studies. The Rice Pathology Program will start field studies with *Cercospora*, focusing on stem, sheath, and panicle symptoms and their impact on yield and management.

Stem rot, caused by the fungus *Nakataea oryzae*, was identified in several commercial fields. Although this disease is considered a minor problem, with a small yield loss associated in the 2022 season, the Rice Pathology Program will continue monitoring the disease status to identify if the development of specific management is necessary. Due to the dry conditions of June, bacterial panicle blight (BPB) did not develop in our research studies, even after being inoculated with the pathogen. However, we received samples from a single commercial field with panicles expressing symptoms similar to BPB. These samples were sent to Dr. Jong Ham's lab, from PPCP, where they confirmed the presence of *B. glumae*. Finally, kernel and false smut were observed in experimental and commercial fields but below a significant level.

The Rice Research Board partially funded the research of the Rice Pathology Program. This program also received operational support from the Entomology, Breeding, and Agronomy Program of the Rice Research Station.

Table 1. Summary of studies conducted on the characterization of host resistance and chemical and IPM management by the Rice Pathology Program for the 2022 rice grower season. Target diseases include sheath blight (SB; *Rhizoctonia solani*), bacterial panicle blight (BPB; *Burkholderia glumae*), leaf blast (LB; *Pyricularia oryzae*), neck blast (NB; *P. oryzae*), cercospora (CS; *Cercospora janseana*), kernel smut (KS; *Neovossia horrida*), and false smut (FS; *Ustilagoideia virens*).

Study Class	Study name	Comment
Host Resistance	Variety test	First ¹ and second ² planting; blast nursery ³
	Pre-Commercial	First and second planting
	Advanced Yield Test (AYT)	First and second planting
	Regional Yield Test (RYT)	First and second planting
	Uniform Regional Rice Nursery (URRN)	First and second planting; blast nursery
Management	Fungicide Test – SB	First planting
	Fungicide Test – SB	Lake Arthur. No disease developed to a significant level.
	Fungicide timing – NB	Second planting – Heavy loading, the experiment was considered lost.
	Variety and Fungicide – SB	Second planting. Heavy loading for some plots and one variety
	Fungicide – KS and FS	Second planting. KS and FS did not develop.

¹All studies from the first planting date were inoculated with *Rhizoctonia solani* (SB). Characterization of host resistance studies were also inoculated with *B. glumae* (BPB), but did not develop symptoms.

²Second planting studies target NB and late-season diseases (CS, KS, and FS). No artificial inoculation was made, but two blast highly susceptible varieties (M201 and M202) were planted on the border of the studies to serve as “spreaders.” The field also has historical epidemics with KS and FS.

³Blast nursery is a special nursery where rice is cultivated under dry-upland conditions, favoring the leaf blast development. Plants were rated for left blast during the vegetative stage.

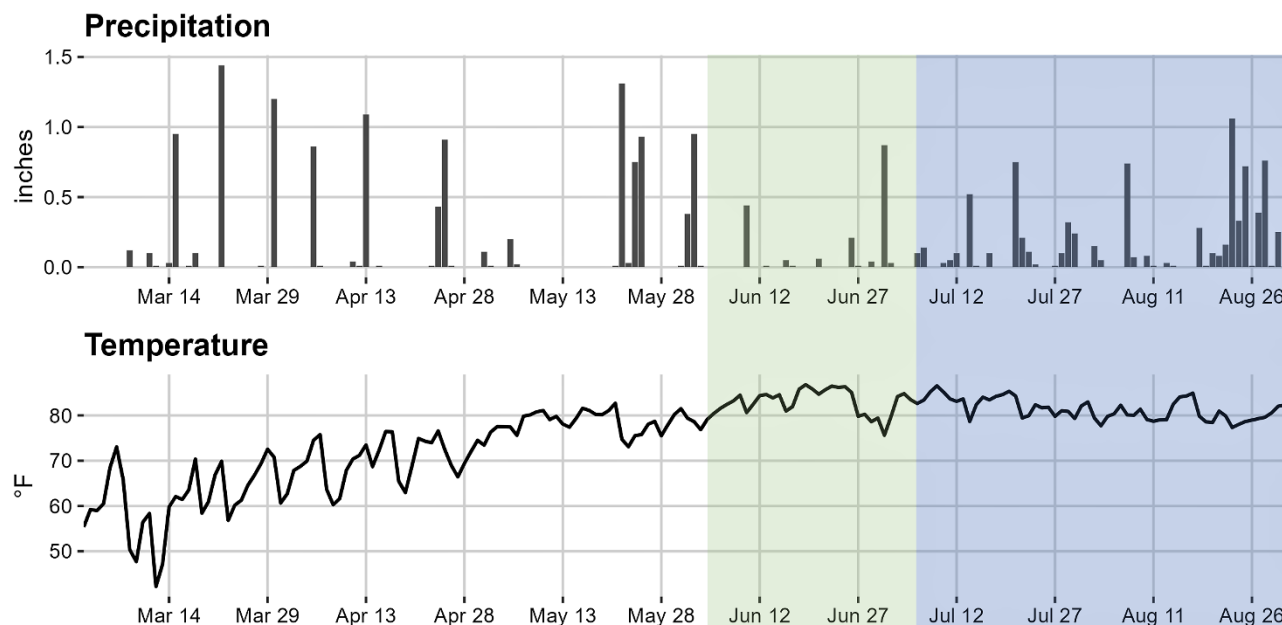


Figure 1. Precipitation and temperature at the Rice Research Station, Crowley, during the 2022 rice main crop season. The green panel indicates the period with low precipitation and less favorable for the disease development; the blue panel indicates the period with more precipitation and more favorable for diseases development.

2022 – NURSERY STUDIES

Variety – Disease Reactions Study

In three different trials, the disease reaction of 40 common commercially available genotypes and some experimental lines were tested for sheath blight, bacteria panicle blight, rotten neck blast, and leaf neck. For sheath blight and bacterial panicle blight, two lines of 6 ft were planted and inoculated with *Rhizoctonia solani* (causal agent of sheath blight) on the 30th of May and with *Burkholderia gladioli* (causal agent of bacterial panicle blight) at the heading growth stage. Sheath blight was rated on a 0 to 9 scale, where 0 is no visual symptoms and 9 the whole plant is symptomatic, including the flag leaf. Due to dry conditions during heading, bacterial panicle blight did not develop significant symptoms and was not rated. The rotten neck blast study also had two 6 ft long rows but were planted late in the season. No artificial inoculation was made, but two highly susceptible varieties (M201 and M202) were planted on the border of the field to serve as a "spreader" (increase the local inoculum). Disease ratings for rotten neck blast were done on the 9th of September using a 0 to 9 scale, where 0 means no disease symptoms and 9 the base of the panicle completely damaged. The leaf blast study was conducted on the blast nursery, where the plants were cultivated by three to four weeks under high land conditions, which favors the development of leaf blast. In addition, M2001 and M202 were also used as "spreaders," and the plants were irrigated twice a day to promote leaf wetness. Leaf blast was rated on the 27th of July, also using a 0 to 9 scale, with 0 representing no visual symptom and 9 all leaves covered with blast lesions. The three studies were conducted on a randomized completed block design with four replications. Statistical analysis was done using linear mixed models with genotype as fixed effect and block as random. Means separation was done using Tukey HSD at 95% confidence.

Results are presented in Table 2 and Fig. 2. The lowest value observed for sheath blight was 1.25, and the highest was 8.0. Eleven genotypes were rated 7 or above, and only five scored 3 or below. Rotten neck blast severity ranged from 0.0 to 8.6, with 62% of genotypes with severity lower than score 2 and 10% above score 7. Similar results were observed with leaf blast, where 70% of varieties scored lower than 2, and only 15% scored above 5, with none scoring above 7.

Table 2. Disease reaction of rice varieties and experimental lines to sheath blight, rotten neck blast, and leaf blast at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

Entries	Sheath Blight			Rotten Neck Blast			Leaf Blast		
	Mean ^a	L _{95%}	U _{95%}	Mean	L _{95%CI}	U _{95%CI}	Mean	L _{95%CI}	U _{95%CI}
CHENIERE	6.3 e-i	4.8	7.7	6.7 e-g	5.3	8.0	6.5 g	5.5	7.5
CL111	7.5 g-i	6.1	8.9	0.1 a	0.0	1.4	1.0 a-d	0.0	2.2
CL151	7.8 h-i	6.3	9.2	7.2 f-g	5.8	8.5	3.5 c-f	2.5	4.5
CL153	7.3 g-i	5.8	8.7	0.7 a-b	0.0	2.0	0.3 a	0.0	1.2
CLHA02	6.5 e-i	5.1	7.9	4.1 b-f	2.8	5.5	4.3 e-g	3.3	5.2
CLJ01	5.5 c-i	4.1	6.9	0.2 a	0.0	1.5	1.3 a-d	0.3	2.2
CLL16	6.0 d-i	4.6	7.4	0.0 a	0.0	1.4	0.8 a-b	0.0	1.7
CLL17	7.5 g-i	6.1	8.9	0.7 a-b	0.0	2.1	0.8 a-b	0.0	1.7
CLM04	4.0 a-g	2.6	5.4	3.6 a-f	2.3	5.0	5.8 f-g	4.8	6.7
DELLA2	7.0 g-i	5.6	8.4	5.2 c-g	3.9	6.6	3.8 d-f	2.8	4.7

Continued.

Table 2. Continued.

Entries	Sheath Blight ^a			Rotten Neck Blast			Leaf Blast		
	Mean	L _{95%}	U _{95%}	Mean	L _{95%CI}	U _{95%CI}	Mean	L _{95%CI}	U _{95%CI}
DG263L	6.8 f-i	5.3	8.2	1.7 a-c	0.3	3.0	1.0 a-c	0.0	2.0
DGL037	1.3 a	0.0	2.7	0.0 a	0.0	1.4	0.8 a-b	0.0	1.7
DGL2065	6.5 e-i	5.1	7.9	5.7 d-g	4.3	7.0	1.3 a-d	0.3	2.2
DGL293	3.3 a-f	1.8	4.7	0.2 a	0.0	1.5	0.8 a-b	0.0	1.7
DGL294	3.0 a-e	1.6	4.4	0.3 a	0.0	1.6	1.0 a-c	0.0	2.0
DGM004	4.3 a-h	2.8	5.7	5.3 c-g	3.9	6.6	6.5 g	5.5	7.5
JAZZMAN	3.3 a-f	1.8	4.7	0.8 a-b	0.0	2.2	1.0 a-c	0.0	2.0
JUPITER	4.0 a-g	2.6	5.4	2.9 a-e	1.5	4.2	5.8 f-g	4.8	6.7
LAH200	2.5 a-d	1.1	3.9	0.7 a-b	0.0	2.0	0.8 a-b	0.0	1.7
LSUBASMATI	8.0 i	6.6	9.4	2.2 a-d	0.9	3.6	1.3 a-d	0.3	2.2
MERMENTAU	7.5 g-i	6.1	8.9	6.7 f-g	5.4	8.1	1.0 a-c	0.0	2.0
PVL02	6.5 e-i	5.1	7.9	8.7 g	7.3	10.0	3.0 b-e	2.0	4.0
PVL03	6.8 f-i	5.3	8.2	0.1 a	0.0	1.5	1.5 a-d	0.5	2.5
TITAN	7.0 g-i	5.6	8.4	6.1 e-g	4.8	7.5	6.0 f-g	5.0	7.0
XP778	2.3 a-c	0.8	3.7	0.7 a-b	0.0	2.0	1.0 a-c	0.0	2.0
XP780	1.5 a-b	0.1	2.9	0.4 a-b	0.0	1.7	0.8 a-b	0.0	1.7
RT7331MA	5.5 c-i	4.1	6.9	1.5 a-c	0.2	2.9	1.3 a-d	0.3	2.2
RT7421FP	3.3 a-f	1.8	4.7	0.1 a	0.0	1.4	1.0 a-c	0.0	2.0
RTv7231MA	6.8 f-i	5.3	8.2	0.1 a	0.0	1.4	0.8 a-b	0.0	1.7
RU1601010	4.8 a-i	3.3	6.2	6.2 e-g	4.8	7.5	3.0 b-e	2.0	4.0
RU1901033	4.8 a-i	3.3	6.2	7.0 f-g	5.7	8.4	5.8 f-g	4.8	6.7
RU1902026	7.5 g-i	6.1	8.9	0.4 a-b	0.0	1.7	0.3 a	0.0	1.2
RU1902207	6.8 f-i	5.3	8.2	0.1 a	0.0	1.4	0.5 a-b	0.0	1.5
RU1902212	7.0 g-i	5.6	8.4	8.2 g	6.9	9.6	3.0 b-e	2.0	4.0
RU2001093	4.3 a-h	2.8	5.7	1.0 a-b	0.0	2.4	1.5 a-d	0.5	2.5
RU2002126	6.5 e-i	4.9	8.1	0.0 a	0.0	1.4	0.8 a-b	0.0	1.7
RU2002166	7.3 g-i	5.8	8.7	0.6 a-b	0.0	1.9	0.5 a-b	0.0	1.5
RU2102186	6.8 f-i	5.3	8.2	0.3 a	0.0	1.6	0.8 a-b	0.0	1.7
RU2102217	6.8 f-i	5.3	8.2	1.3 a-b	0.0	2.6	0.8 a-b	0.0	1.7
RU2102222	5.0 b-i	3.6	6.4	1.9 a-d	0.6	3.3	0.5 a-b	0.0	1.5

^aMean and 95% lower (L_{95%}) and upper (U_{95%}) confidence interval limits. Means followed by the same letter are not statistically different using based on the Tuckey HSD test.

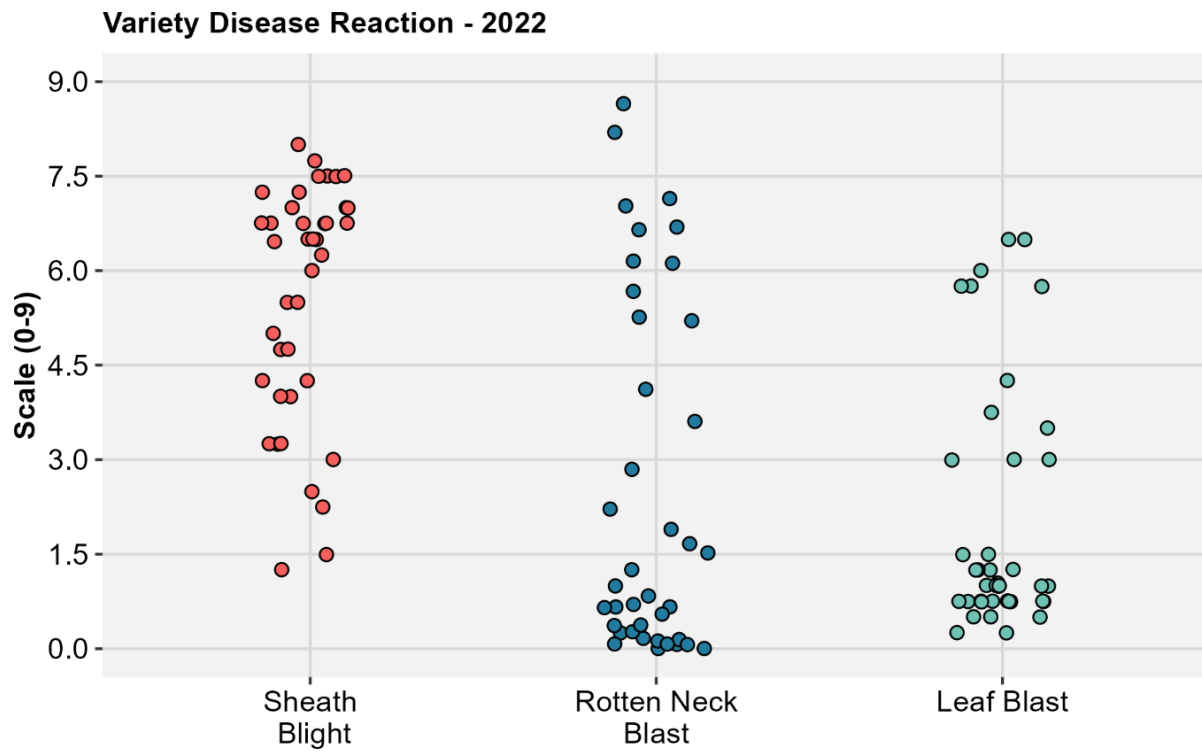


Figure 2. Distribution of the disease reaction of various rice varieties and experimental lines to sheath blight, rotten neck blast, and leaf blast at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

PRE-COMMERCIAL - DISEASE REACTIONS STUDY

This study includes 25 genotypes in the pre-commercial stage, including reference varieties. The study methodology follows the same methodology and dates as previously described for the Variety study. This study did not evaluate leaf blast. Bacterial panicle blight symptoms were not expressive, and the disease was not rated.

Sheath blight scores ranged from 3.7 to 8.5, with 16 out of the 25 genotypes tested scoring above 6. Rotten neck blast ranged from 0 to 6, with 16 genotypes exhibiting good resistance with score below 2.

Table 3. Disease reaction to varieties and experimental lines of the Pre-Commercial study to sheath blight and rotten neck blast at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

Entries	Sheath Blight				Rotten Neck Blast			
	Mean		L _{95%}	U _{95%}	Mean		L _{95%}	U _{95%}
Addi Jo	6.7	a-d	5.4	7.99	0.0	a	0.0	1.7
CLL16	6.3	a-d	5.0	7.7	0.0	a	0.0	1.7
CLL18	6.7	a-d	5.4	8.0	1.9	a-b	0.2	3.6
CLL19	8.5	d	7.2	9.8	0.0	a	0.0	1.7
DG263L	7.0	a-d	5.7	8.3	1.8	a-b	0.1	3.5
DG3H20004	4.3	a-c	3.0	5.7	0.0	a	0.0	1.7
DG3H20363	5.7	a-d	4.4	7.0	0.1	a	0.0	1.8
DG3H20408	4.7	a-c	3.4	6.0	0.0	a	0.0	1.7
DGL2065	7.0	a-d	5.7	8.3	2.8	a-b	1.1	4.6
DGM004	4.0	a-b	2.7	5.3	3.9	a-b	2.2	5.6
Jupiter	4.0	a-b	2.7	5.3	3.4	a-b	1.7	5.1
Ozark	5.7	a-d	4.4	7.0	3.2	a-b	1.5	4.9
PVL03	7.7	c-d	6.4	9.0	0.9	a	0.0	2.6
RU1801101	7.5	c-d	6.2	8.8	0.0	a	0.0	1.8
RU2004071	7.0	a-d	5.7	8.3	4.2	a-b	2.5	5.9
RU2101177	6.0	a-d	4.7	7.3	3.0	a-b	1.3	4.8
RU2101234	8.2	d	6.9	9.5	3.7	a-b	2.0	5.4
RU2102037	5.3	a-d	4.0	6.7	0.6	a	0.0	2.3
RU2102150	7.7	c-d	6.4	9.0	0.0	a	0.0	1.7
RU2102186	7.2	b-d	5.9	8.5	0.2	a	0.0	2.0
RU2102217	8.3	d	7.0	9.7	0.4	a	0.0	2.2
RU2102222	6.0	a-d	4.7	7.3	3.1	a-b	1.4	4.8
RU2201021	6.7	a-d	5.4	8.0	0.0	a	0.0	1.7
Taurus	5.3	a-d	4.0	6.7	6.0	b	4.3	7.7
XP753	3.7	a	2.4	5.0	1.8	a-b	0.1	3.5

^aMean and 95% lower (L_{95%}) and upper (U_{95%}) confidence interval limits. Means followed by the same letter are not statistically different using based on the Tuckey HSD test.

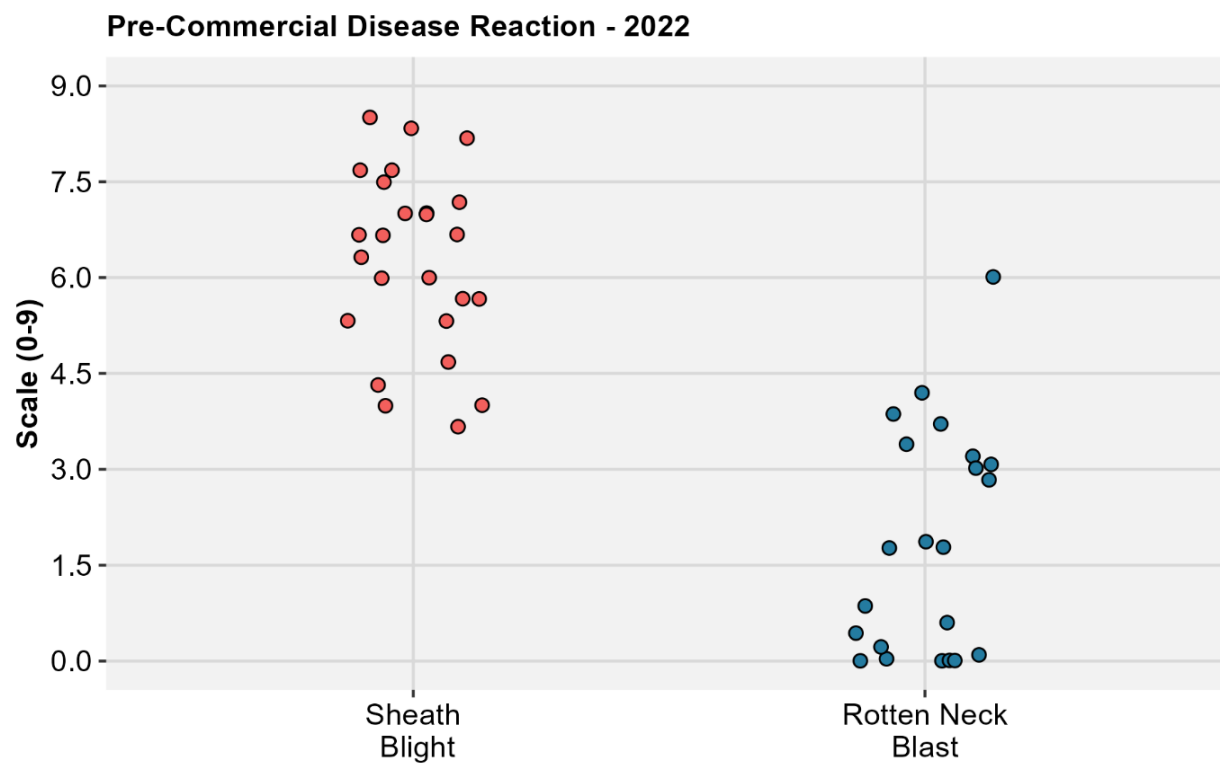


Figure 3. Distribution of the disease reaction to varieties and experimental lines of the Uniform Regional Rice Nursery (URRN) study to sheath blight and rotten neck blast at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

UNIFORM REGIONAL RICE NURSERY (URRN) - DISEASE REACTIONS STUDY

Forty-nine genotypes and varieties were included in the URRN – Disease Reaction Study. This study includes ratings on sheath blight, rotten neck blast, and leaf blast. Bacterial panicle blight did not develop symptoms after inoculation due to the dry weather conditions around heading and inoculation. This study follows the same methodology described for Variety test.

Eight genotypes scored 3 or lower for sheath blight, indicating that the disease symptoms were limited to the lower canopy. However, approximately 30% of the genotypes had a score of 7 or above, which indicated that the symptoms developed in the upper canopy. The scores for rotten neck blast ranged from 0 to 9, with a median of 3.5. Almost half of the genotypes scored below 2 (22 out of 49), and 17 scored 6 or above for rotten neck blast. Results for leaf blast clearly showed two groups, with 25 of 49 genotypes having a score of 4 or below, while the other half scored 6.5 or above.

Table 4. Disease reaction to varieties and experimental lines of the Uniform Regional Rice Nursery (URRN) study to sheath blight and rotten neck blast at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

Entries	Sheath Blight ^a				Rotten Neck Blast				Leaf Blast			
	Mean		L _{95%}	U _{95%}	Mean		L _{95%CI}	U _{95%CI}	Mean		L _{95%CI}	U _{95%CI}
Addi Jo	6.0	d-j	4.7	7.3	0.0	a	0.0	1.3	1.0	a-d	0.0	2.0
Cheniere	5.0	a-j	3.7	6.3	8.1	k-m	6.8	9.4	8.8	g	7.7	9.8
CLHA02	4.5	a-h	3.2	5.8	1.2	a-e	0.0	2.5	3.0	c-e	2.0	4.0
CLL16	7.3	g-j	6.0	8.5	0.0	a	0.0	1.3	0.3	a-b	0.0	1.3
CLM04	4.3	a-g	3.0	5.5	3.3	a-h	2.0	4.6	8.3	g	7.2	9.3
DG263L	5.8	e-j	4.8	6.7	1.4	a-d	0.5	2.3	1.4	a-d	0.6	2.2
DG3H20007	5.5	b-j	4.2	6.8	0.4	a-c	0.0	1.7	-	-	-	-
DG3H20405	4.8	a-i	3.5	6.0	0.5	a-c	0.0	1.9	9.5	g	7.6	11.4
Diamond	5.5	b-j	4.2	6.8	4.2	c-j	2.9	5.5	3.3	d-e	2.2	4.3
Jupiter	4.3	a-g	3.0	5.5	1.4	a-e	0.1	2.8	8.3	g	7.2	9.3
LAH200	2.5	a-d	1.2	3.8	1.1	a-e	0.0	2.4	0.7	a-e	0.0	2.1
Leland	4.5	a-h	3.2	5.8	0.6	a-c	0.0	1.9	0.3	a-b	0.0	1.3
Presidio	6.0	d-j	4.7	7.3	7.6	i-m	6.3	9.0	2.3	a-e	1.2	3.3
PVL03	7.1	g-j	5.9	8.4	0.3	a-b	0.0	1.6	1.5	a-e	0.5	2.5
Rex	5.0	a-j	3.7	6.3	6.2	g-m	4.9	7.6	8.8	g	7.7	9.8
RU1703172	4.5	a-h	3.2	5.8	5.6	f-m	4.3	7.0	8.5	g	7.3	9.6
RU1803230	5.3	a-j	4.0	6.5	6.7	g-m	5.3	8.0	8.8	g	7.7	9.9
RU1902026	8.0	h-j	6.7	9.3	0.9	a-d	0.0	2.3	0.3	a-b	0.0	1.3
RU1904139	2.8	a-e	1.5	4.0	6.8	g-m	5.5	8.1	6.5	f-g	5.5	7.5
RU1904163	4.8	a-i	3.5	6.0	8.2	k-m	6.8	9.5	8.0	g	7.0	9.0
RU2003220	5.4	b-j	4.1	6.6	4.9	e-l	3.5	6.2	7.5	g	6.3	8.6

Continued.

Table 4. Continued.

Entries	Sheath Blight ^a				Rotten Neck Blast				Leaf Blast			
	Mean		L _{95%}	U _{95%}	Mean		L _{95%CI}	U _{95%CI}	Mean		L _{95%CI}	U _{95%CI}
RU2004071	5.3	a-j	4.0	6.5	1.9	a-f	0.6	3.3	3.0	c-e	2.0	4.0
RU2004091	3.3	a-f	2.0	4.5	4.5	d-k	3.2	5.8	7.5	g	6.5	8.5
RU2004191	7.3	g-j	6.0	8.5	4.1	b-j	2.8	5.5	2.8	b-e	1.7	3.8
RU2004195	8.5	j	7.2	9.8	7.6	i-m	6.2	8.9	8.0	g	7.0	9.0
RU2101113	3.3	a-f	2.0	4.5	6.9	h-m	5.6	8.2	9.0	g	8.0	10.0
RU2102066	5.0	a-j	3.7	6.3	4.9	e-l	3.6	6.3	8.3	g	7.2	9.3
RU2102070	5.8	c-j	4.5	7.0	7.3	i-m	6.0	8.6	8.5	g	7.5	9.5
RU2102217	8.0	h-j	6.7	9.3	1.6	a-e	0.3	2.9	0.5	a-c	0.0	1.5
RU2102222	3.8	a-g	2.5	5.0	1.4	a-e	0.0	2.7	0.0	a	0.0	1.0
RU2103100	6.0	d-j	4.7	7.3	4.1	b-j	2.8	5.5	6.8	f-g	5.7	7.9
RU2103124	2.3	a-c	1.0	3.5	0.2	a	0.0	1.5	0.0	a	0.0	1.0
RU2103172	1.8	a	0.5	3.0	0.0	a	0.0	1.3	0.0	a	0.0	1.0
RU2103188	1.8	a	0.5	3.0	0.2	a	0.0	1.5	0.0	a	0.0	1.0
RU2103210	2.0	a-b	0.7	3.3	0.0	a	0.0	1.3	1.0	a-d	0.0	2.0
RU2104087	8.3	i-j	7.0	9.5	7.9	j-m	6.5	9.2	9.0	g	8.0	10.0
RU2104099	5.5	b-j	4.2	6.8	6.0	g-m	4.6	7.3	7.5	g	6.5	8.5
RU2201019	6.5	f-j	5.2	7.8	8.6	l-m	7.2	9.9	2.3	a-e	1.2	3.3
RU2201020	4.0	a-g	2.7	5.3	6.6	g-m	5.3	7.9	7.0	g	6.0	8.0
RU2201021	6.3	e-j	5.0	7.5	0.4	a-c	0.0	1.7	1.0	a-d	0.0	2.0
RU2201022	6.3	e-j	5.0	7.5	9.0	m	7.7	10.3	8.8	g	7.7	9.8
RU2201023	4.8	a-i	3.5	6.0	8.3	k-m	7.0	9.6	7.5	g	6.5	8.5
RU2201024	6.5	f-j	5.2	7.8	1.8	a-f	0.5	3.1	2.8	b-e	1.7	3.8
RU2201044	5.8	c-j	4.5	7.0	0.3	a	0.0	1.6	2.0	a-e	1.0	3.0
RU2201045	3.0	a-f	1.7	4.3	3.0	a-g	1.7	4.4	3.0	c-e	2.0	4.0
RU2201046	3.3	a-f	2.0	4.5	3.5	a-i	1.9	5.0	4.0	e-f	3.0	5.0
RU2202037	4.8	a-i	3.5	6.0	7.0	h-m	5.6	8.3	8.3	g	7.2	9.3
RU2203006	5.3	a-j	4.0	6.5	7.1	h-m	5.7	8.4	8.5	g	7.3	9.6
RU2203034	2.0	a-b	0.7	3.3	0.4	a-c	0.0	1.7	0.0	a	0.0	1.0

^aMean and 95% lower (L_{95%}) and upper (U_{95%}) confidence interval limits. Means followed by the same letter are not statistically different using based on the Tuckey HSD test.

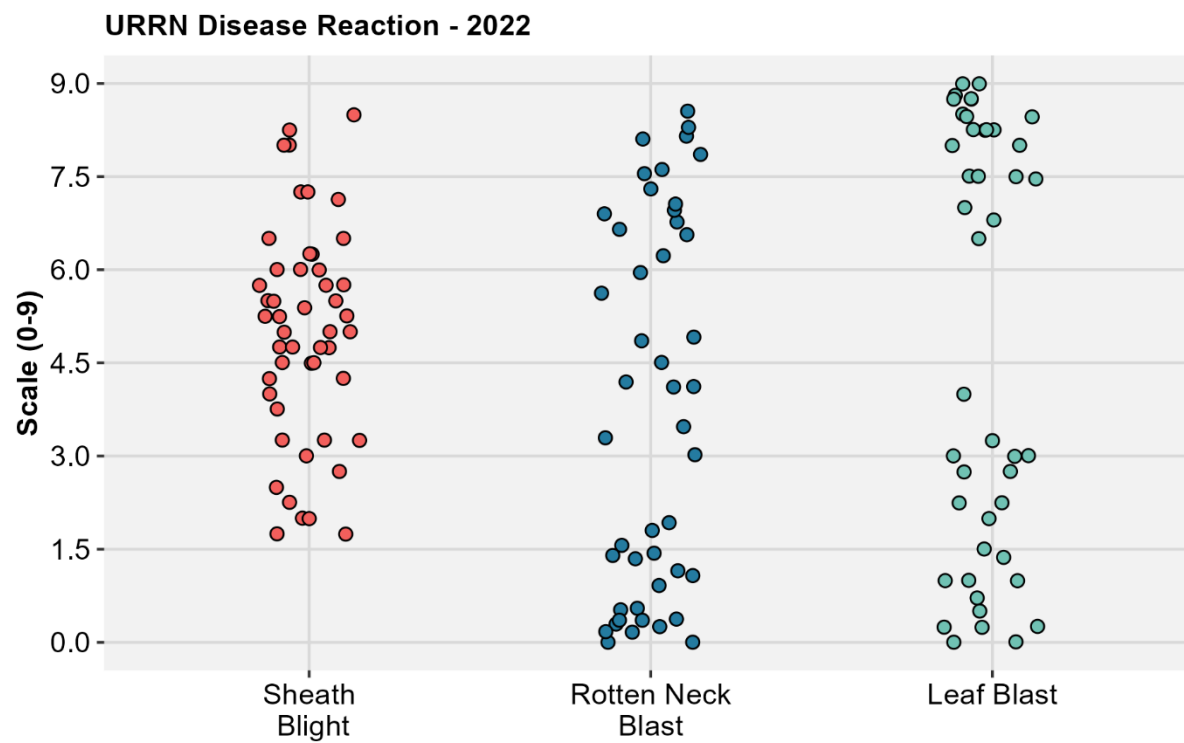


Figure 4. Distribution of the disease reaction for the Uniform Regional Rice Nursery (URRN) study to sheath blight and rotten neck blast at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

ADVANCED YIELD TEST (AYT) - DISEASE REACTIONS STUDY

Fifty-six genotypes and varieties were included in the AYT - Disease Reactions Study. This study includes ratings on sheath blight and rotten neck blast. Bacterial panicle blight did not develop symptoms after inoculation due to the dry weather conditions around heading and inoculation. This study follows the same methodology described for Variety test.

Sheath blight scores ranged from 1.7 to 8.7, with a median score of 7.3. Rotten neck blast score ranged from 0 to 9 with a median of 0.9.

Table 5. Disease reaction to varieties and experimental lines of the Advanced Yield Test (AYT) study to sheath blight and rotten neck blast at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

Entries	Sheath Blight ^a				Rotten Neck Blast		
	Mean		L _{95%}	U _{95%}	Mean	L _{95%}	U _{95%}
Addi Jo	7.0	d-h	5.9	8.1	0.0	a	1.4
Avant	8.2	f-h	7.1	9.2	9.0	j	10.4
Cheniere	7.3	d-h	6.3	8.4	8.1	i-j	9.5
CL153	7.8	e-h	6.8	8.9	0.6	a-b	2.0
CLL16	6.0	c-h	4.9	7.1	0.0	a	1.4
CLL17	8.3	g-h	7.3	9.4	1.1	a-d	2.5
CLM04	5.0	b-e	3.9	6.1	4.8	b-i	6.2
DG263L	7.7	d-h	6.6	8.7	0.0	a	1.4
LAH200	2.3	a-b	1.3	3.4	2.2	a-e	3.6
LSU_Basmati	7.7	d-h	6.6	8.7	0.9	a-c	2.3
Mermentau	7.0	d-h	5.9	8.1	7.0	f-j	8.4
MPB_279	6.7	c-h	5.6	7.7	1.2	a-d	2.6
PVL02	8.0	e-h	6.9	9.1	8.6	i-j	10.0
PVL03	7.7	d-h	6.6	8.7	0.8	a-c	2.2
RU1902026	8.2	f-h	7.1	9.2	0.3	a	1.7
RU1902034	8.3	g-h	7.3	9.4	0.7	a-c	2.1
RU2002070	6.8	d-h	5.8	7.9	0.0	a	1.4
RU2002166	8.5	h	7.4	9.6	0.4	a	1.8
RU2002174	7.7	d-h	6.6	8.7	0.0	a	1.4
RU2002182	5.7	c-h	4.6	6.7	3.8	a-h	5.2
RU2102030	8.2	f-h	7.1	9.2	0.3	a	1.7
RU2102037	5.7	c-h	4.6	6.7	0.8	a-c	2.2
RU2102066	7.2	d-h	6.1	8.2	8.0	h-j	9.4
RU2102070	7.7	d-h	6.6	8.7	7.5	g-j	8.9
RU2102122	7.5	d-h	6.4	8.6	0.0	a	1.4
RU2102150	7.7	d-h	6.6	8.7	0.0	a	1.4

Continued.

Table 5. Continued.

Entries	Sheath Blight ^a				Rotten Neck Blast			
	Mean		L _{95%}	U _{95%}	Mean		L _{95%}	U _{95%}
RU2102158	5.7	c-h	4.6	6.7	0.0	a	0.0	1.4
RU2102162	8.2	f-h	7.1	9.2	1.5	a-d	0.1	2.9
RU2102186	7.7	d-h	6.6	8.7	0.1	a	0.0	1.5
RU2102207	6.7	c-h	5.6	7.7	3.7	a-g	2.3	5.1
RU2102217	8.5	h	7.4	9.6	0.9	a-c	0.0	2.3
RU2102222	5.3	b-g	4.3	6.4	0.3	a	0.0	1.7
RU2202037	4.7	a-d	3.6	5.7	5.2	d-j	3.8	6.6
201L1027	7.0	d-h	5.9	8.1	8.7	i-j	7.3	10.1
201L1051	6.7	c-h	5.6	7.7	0.0	a	0.0	1.4
201L1148	7.3	d-h	6.3	8.4	3.1	a-f	1.7	4.5
201L1251	6.3	c-h	5.3	7.4	0.8	a-c	0.0	2.2
201L1288	6.3	c-h	5.3	7.4	0.0	a	0.0	1.4
201L1324	7.8	e-h	6.8	8.9	0.0	a	0.0	1.4
201M1064	6.0	c-h	4.9	7.1	7.8	g-j	6.4	9.2
201M1065	5.3	b-g	4.3	6.4	1.5	a-d	0.1	2.9
201M1122	5.2	b-f	4.1	6.2	7.2	f-j	5.8	8.6
202A1735	1.7	a	0.6	2.7	0.9	a-c	0.0	2.3
202L1120	5.8	c-h	4.8	6.9	0.0	a	0.0	1.4
202L1336	7.3	d-h	6.3	8.4	0.8	a-c	0.0	2.2
202L1480	7.7	d-h	6.6	8.7	0.1	a	0.0	1.5
202L1534	8.2	f-h	7.1	9.2	7.5	g-j	6.1	8.9
202M1133	5.7	c-h	4.6	6.7	3.3	a-f	1.9	4.7
202M1143	3.7	a-c	2.6	4.7	4.8	c-j	3.4	6.2
203L1011	6.2	c-h	5.1	7.2	0.2	a	0.0	1.6
203L1068	8.3	g-h	7.3	9.4	5.9	e-j	4.5	7.3
203L1086	8.7	h	7.6	9.7	8.8	i-j	7.4	10.2
203L1103	7.8	e-h	6.8	8.9	8.8	i-j	7.4	10.2
203L1104	4.7	a-d	3.6	5.7	0.8	a-c	0.0	2.2
203L1117	6.3	c-h	5.3	7.4	7.6	g-j	6.2	9.0
203L1177	8.0	e-h	6.9	9.1	8.7	i-j	7.3	10.1

^aMean and 95% lower (L_{95%}) and upper (U_{95%}) confidence interval limits. Means followed by the same letter are not statistically different using based on the Tuckey HSD test.

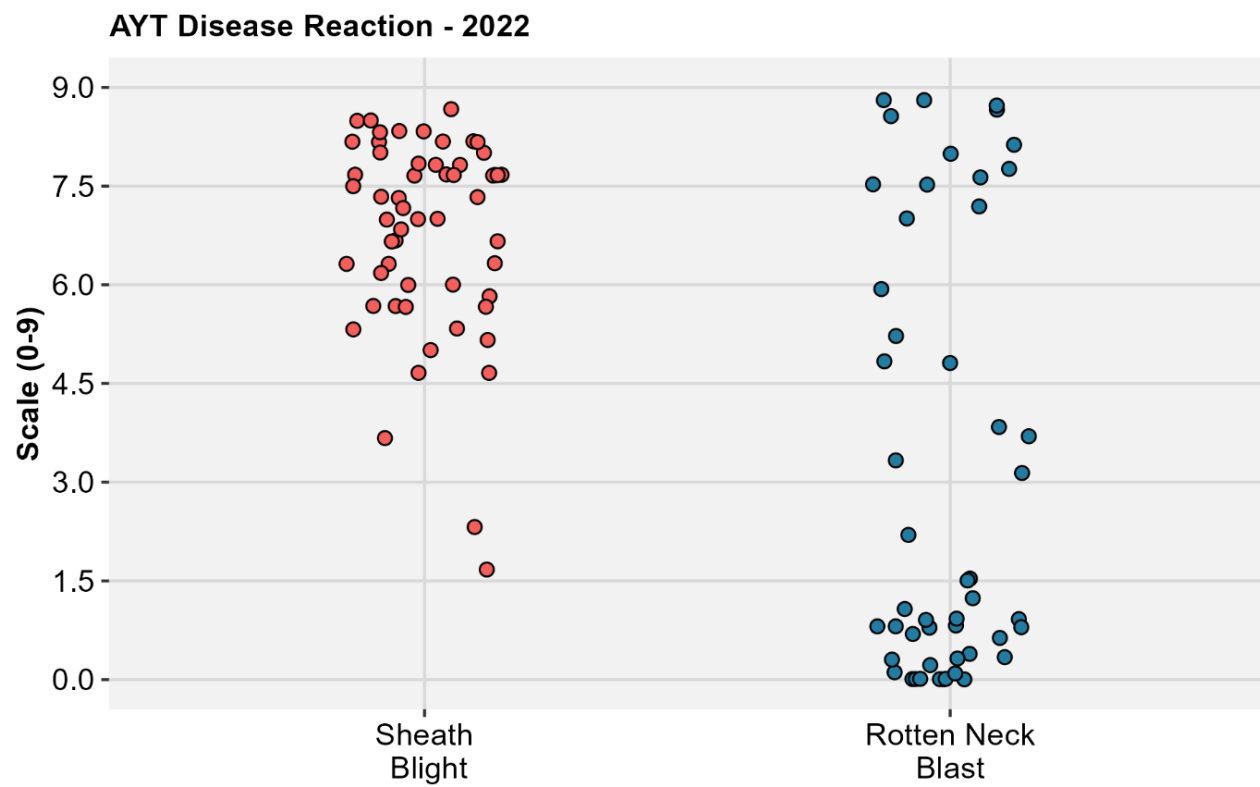


Figure 5. Distribution of the disease reaction for the Advanced Yield Test (AYT) study to sheath blight and rotten neck blast at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

REGIONAL YIELD TEST (RYT) - DISEASE REACTIONS STUDY

One hundred sixty-two genotypes and varieties were included in the RYT - Disease Reactions Study. This study includes ratings on sheath blight and rotten neck blast. Bacterial panicle blight did not develop symptoms after inoculation due to the dry weather conditions around heading and inoculation. This study follows the same methodology described for Variety test.

Sheath blight scores ranged from 2.0 to 9.0, with a median score of 7.2. Rotten neck blast score ranged from 0 to 9 with a median of 4.3.

Table 6. Disease reaction to varieties and experimental lines of the Regional Yield Test (AYT) study to sheath blight and rotten neck blast at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

Entries	Sheath Blight ^a				Rotten Neck Blast			
	Mean	SE	L95%	U95%	Mean	SE	L95%	U95%
Cheniere	6.7	0.6	5.6	7.8	8.3	0.9	6.5	10.0
CL153	7.5	0.6	6.4	8.6	0.2	0.9	0.0	2.0
CL163	8.0	0.6	6.9	9.1	6.5	0.9	4.8	8.3
CLHA02	7.5	0.7	6.1	8.8	4.0	1.1	1.8	6.1
CLL16	6.3	0.6	5.2	7.4	0.0	0.9	0.0	1.7
CLL17	7.5	0.6	6.4	8.6	1.4	0.9	0.0	3.1
CLM04	4.3	0.6	3.2	5.4	6.4	0.9	4.6	8.1
DG263L	7.5	0.7	6.2	8.9	0.9	0.9	0.0	2.7
Jazzman	6.0	0.6	4.9	7.1	0.2	0.9	0.0	2.0
Jupiter	4.3	0.6	3.2	5.4	1.7	0.9	0.0	3.5
MP4_AB_257	8.0	0.6	6.9	9.1	9.0	0.9	7.3	10.7
MP4_BC_252	6.8	0.6	5.7	7.9	8.3	0.9	6.6	10.1
MP6_167	6.5	0.6	5.4	7.6	8.8	0.9	7.1	10.5
MP6_397	8.3	0.6	7.2	9.4	9.0	0.9	7.3	10.7
MP6_419	5.5	0.6	4.4	6.6	0.4	0.9	0.0	2.1
MP8_153	6.7	0.6	5.6	7.8	9.0	0.9	7.3	10.7
MPA_042	7.0	0.6	5.9	8.1	8.5	0.9	6.8	10.2
MPA_279	6.3	0.6	5.2	7.4	6.7	0.9	5.0	8.4
MPB_113	7.8	0.6	6.7	8.9	6.5	0.9	4.8	8.2
MPB_294	7.3	0.6	6.2	8.4	9.0	0.9	7.3	10.7
PVL02	7.3	0.6	6.2	8.4	9.0	0.9	7.3	10.7
PVL03	7.7	0.6	6.6	8.8	0.0	0.9	0.0	1.7
RTV7231MA	6.7	0.6	5.6	7.8	0.0	0.9	0.0	1.7
Titan	7.5	0.6	6.4	8.6	7.3	0.9	5.6	9.1
RU1902026	8.3	0.6	7.2	9.4	1.2	0.9	0.0	2.9
RU1902212	6.7	0.6	5.6	7.8	9.0	0.9	7.3	10.7
RU2002126	7.3	0.6	6.2	8.4	0.0	0.9	0.0	1.7

Continued.

Table 6. Continued.

Entries	Sheath Blight ^a				Rotten Neck Blast			
	Mean	SE	L _{95%}	U _{95%}	Mean	SE	L _{95%}	U _{95%}
202L2017	8.2	0.6	7.1	9.3	4.1	1.1	2.0	6.2
202L2082	7.7	0.6	6.6	8.8	6.8	0.9	5.1	8.6
202L2096	4.5	0.7	3.2	5.9	4.0	0.9	2.3	5.7
202L2101	8.7	0.6	7.6	9.8	6.8	0.9	5.1	8.5
202L2109	8.5	0.6	7.4	9.6	7.1	0.9	5.3	8.8
202L2141	5.7	0.6	4.6	6.8	2.3	1.5	0.0	5.3
20LXM006	7.3	0.6	6.2	8.4	0.8	0.9	0.0	2.5
20LXM089	2.0	0.7	0.7	3.4	8.0	0.9	6.3	9.7
20LXM121	5.0	0.6	3.9	6.1	6.9	0.9	5.2	8.6
20LXM285	5.3	0.6	4.2	6.4	8.0	0.9	6.3	9.7
211L1008	6.3	0.6	5.2	7.4	0.0	0.9	0.0	1.7
211L1021	7.8	0.6	6.7	8.9	9.0	0.9	7.3	10.7
211L1028	5.3	0.6	4.2	6.4	9.0	0.9	7.3	10.7
211L1030	7.0	0.6	5.9	8.1	9.0	0.9	7.3	10.7
211L1031	6.7	0.6	5.6	7.8	0.2	0.9	0.0	2.0
211L1032	6.5	0.7	5.2	7.9	0.5	0.9	0.0	2.2
211L1056	7.8	0.6	6.7	8.9	4.2	0.9	2.5	5.9
211L1065	7.3	0.6	6.2	8.4	1.7	0.9	0.0	3.5
211L1070	7.0	0.6	5.9	8.1	1.7	0.9	0.0	3.4
211L1083	6.0	0.6	4.9	7.1	1.9	0.9	0.1	3.6
211L1085	5.3	0.6	4.2	6.4	7.8	0.9	6.1	9.6
211L1090	6.0	0.6	4.9	7.1	0.5	0.9	0.0	2.2
211L1103	6.0	0.6	4.9	7.1	8.5	0.9	6.7	10.2
211L1124	7.0	0.6	5.9	8.1	0.7	0.9	0.0	2.4
211L1137	7.2	0.6	6.1	8.3	9.0	0.9	7.3	10.7
211L1143	7.3	0.6	6.2	8.4	8.7	0.9	7.0	10.5
211L1149	5.7	0.6	4.6	6.8	4.1	0.9	2.3	5.8
211L1154	6.0	0.6	4.9	7.1	2.5	0.9	0.7	4.2
211L1165	6.8	0.6	5.7	7.9	0.2	0.9	0.0	2.0
211L1174	5.8	0.6	4.7	6.9	3.1	0.9	1.3	4.8
211L1181	6.0	0.6	4.9	7.1	9.0	0.9	7.3	10.7
211L1196	7.3	0.6	6.2	8.4	3.4	0.9	1.7	5.1
211L1225	5.5	0.6	4.4	6.6	0.2	0.9	0.0	2.0
211L1227	7.0	0.6	5.9	8.1	0.7	0.9	0.0	2.4
211L1228	4.3	0.6	3.2	5.4	0.8	0.9	0.0	2.5
211L1232	7.5	0.6	6.4	8.6	4.4	0.9	2.7	6.2
211L1243	7.3	0.6	6.2	8.4	9.0	0.9	7.3	10.7
211L1254	6.0	0.6	4.9	7.1	9.0	0.9	7.3	10.7

Continued.

Table 6. Continued.

Entries	Sheath Blight ^a				Rotten Neck Blast			
	Mean	SE	L _{95%}	U _{95%}	Mean	SE	L _{95%}	U _{95%}
211L1260	7.8	0.6	6.7	8.9	5.5	0.9	3.7	7.2
211L1267	5.3	0.6	4.2	6.4	0.5	0.9	0.0	2.2
211L1271	7.5	0.6	6.4	8.6	7.3	0.9	5.5	9.0
211L1281	6.2	0.6	5.1	7.3	5.6	0.9	3.9	7.4
211L1286	5.7	0.6	4.6	6.8	8.7	0.9	7.0	10.5
211L1293	7.8	0.6	6.7	8.9	8.9	0.9	7.2	10.7
211L1296	7.2	0.6	6.1	8.3	5.8	0.9	4.1	7.6
211L1297	6.0	0.6	4.9	7.1	9.0	0.9	7.3	10.7
211L1313	7.0	0.6	5.9	8.1	8.5	0.9	6.7	10.2
211L1319	8.7	0.6	7.6	9.8	1.3	0.9	0.0	3.0
211L1320	7.2	0.6	6.1	8.3	6.2	0.9	4.4	7.9
211L1324	9.0	0.6	7.9	10.1	0.7	0.9	0.0	2.4
211L1331	7.5	0.6	6.4	8.6	0.2	0.9	0.0	2.0
211L1344	5.3	0.6	4.2	6.4	6.8	0.9	5.1	8.6
211M1034	4.7	0.6	3.6	5.8	7.4	0.9	5.7	9.2
211M1101	6.0	0.6	4.9	7.1	6.9	0.9	5.1	8.6
211M1124	6.0	0.6	4.9	7.1	2.7	0.9	1.0	4.5
211M1130	4.7	0.6	3.6	5.8	6.6	0.9	4.9	8.3
211M1138	5.5	0.6	4.4	6.6	5.1	0.9	3.4	6.8
211M1154	2.7	0.6	1.6	3.8	7.0	0.9	5.3	8.8
211M1156	2.5	0.6	1.4	3.6	4.5	0.9	2.8	6.3
211M1162	4.3	0.6	3.2	5.4	8.1	0.9	6.3	9.8
212L2002	8.2	0.6	7.1	9.3	2.8	0.9	1.1	4.5
212L2006	6.0	0.6	4.9	7.1	0.4	0.9	0.0	2.1
212L2014	8.0	0.6	6.9	9.1	1.4	0.9	0.0	3.1
212L2017	8.2	0.6	7.1	9.3	3.1	0.9	1.4	4.8
212L2019	6.0	0.6	4.9	7.1	0.6	0.9	0.0	2.4
212L2034	7.8	0.6	6.7	8.9	2.0	0.9	0.3	3.7
212L2036	8.5	0.6	7.4	9.6	0.9	0.9	0.0	2.7
212L2051	8.7	0.6	7.6	9.8	0.4	0.9	0.0	2.1
212L2076	8.5	0.6	7.4	9.6	1.8	0.9	0.1	3.6
212L2088	7.2	0.6	6.1	8.3	3.2	0.9	1.5	5.0
212L2093	8.0	0.6	6.9	9.1	8.7	0.9	7.0	10.5
212L2118	7.7	0.6	6.6	8.8	0.9	0.9	0.0	2.6
212L2133	8.2	0.6	7.1	9.3	6.1	0.9	4.4	7.8
212L2157	3.3	0.6	2.2	4.4	2.1	0.9	0.3	3.8
212L2159	7.7	0.6	6.6	8.8	0.0	0.9	0.0	1.7
212L2160	8.0	0.6	6.9	9.1	2.8	0.9	1.1	4.5

Continued.

Table 6. Continued.

Entries	Sheath Blight ^a				Rotten Neck Blast			
	Mean	SE	L _{95%}	U _{95%}	Mean	SE	L _{95%}	U _{95%}
212L2195	7.8	0.6	6.7	8.9	8.1	1.1	6.0	10.2
212L2197	8.2	0.6	7.1	9.3	2.1	0.9	0.4	3.8
212L2235	7.5	0.6	6.4	8.6	7.3	0.9	5.5	9.0
212L2250	8.3	0.6	7.2	9.4	0.6	0.9	0.0	2.4
212L2252	6.3	0.6	5.2	7.4	2.5	0.9	0.8	4.2
212L2254	6.5	0.6	5.4	7.6	1.0	0.9	0.0	2.7
212L2294	8.3	0.6	7.2	9.4	7.0	0.9	5.2	8.7
212L2305	8.5	0.6	7.4	9.6	3.5	0.9	1.8	5.3
212L2306	7.7	0.6	6.6	8.8	2.9	0.9	1.2	4.7
212L2336	8.2	0.6	7.1	9.3	0.0	0.9	0.0	1.7
212L2354	7.3	0.6	6.2	8.4	0.0	0.9	0.0	1.7
212M1013	7.2	0.6	6.1	8.3	8.1	0.9	6.4	9.9
212M1067	4.5	0.7	3.2	5.9	6.7	0.9	5.0	8.5
212M1071	7.0	0.6	5.9	8.1	4.0	0.9	2.3	5.8
212M1076	6.3	0.6	5.2	7.4	7.5	0.9	5.8	9.2
212M1132	7.2	0.6	6.1	8.3	7.2	0.9	5.5	8.9
212M1144	5.0	0.6	3.9	6.1	8.3	0.9	6.5	10.0
212M1147	5.0	0.6	3.9	6.1	7.8	0.9	6.1	9.5
213L1010	7.7	0.6	6.6	8.8	7.9	0.9	6.2	9.6
213L1013	6.5	0.7	5.2	7.9	8.8	0.9	7.1	10.5
213L1020	6.7	0.6	5.6	7.8	8.2	0.9	6.4	9.9
213L1040	8.0	0.6	6.9	9.1	7.9	0.9	6.2	9.6
213L1041	6.7	0.6	5.6	7.8	2.5	0.9	0.7	4.2
213L1046	6.7	0.6	5.6	7.8	9.0	0.9	7.3	10.7
213L1049	8.3	0.7	6.9	9.6	7.4	0.9	5.6	9.1
213L1071	7.5	0.6	6.4	8.6	8.3	0.9	6.5	10.0
213L1072	8.0	0.6	6.9	9.1	6.3	0.9	4.6	8.1
213L1075	7.7	0.6	6.6	8.8	0.7	0.9	0.0	2.4
213L1091	7.7	0.6	6.6	8.8	8.5	0.9	6.7	10.2
213L1098	9.0	0.6	7.9	10.1	9.0	0.9	7.3	10.7
213L1101	7.5	0.7	6.2	8.9	6.6	0.9	4.8	8.3
213L1124	6.8	0.6	5.7	7.9	9.0	0.9	7.3	10.7
213L1129	7.2	0.6	6.1	8.3	9.0	0.9	7.3	10.7
213L1130	7.2	0.6	6.1	8.3	0.7	0.9	0.0	2.5
213L1133	7.7	0.6	6.6	8.8	0.1	0.9	0.0	1.8
213L1135	7.2	0.6	6.1	8.3	1.0	0.9	0.0	2.7
213L1140	7.8	0.6	6.7	8.9	3.0	0.9	1.3	4.7
213L1177	7.8	0.6	6.7	8.9	0.0	0.9	0.0	1.7

Continued.

Table 6. Continued.

Entries	Sheath Blight ^a				Rotten Neck Blast			
	Mean	SE	L _{95%}	U _{95%}	Mean	SE	L _{95%}	U _{95%}
213L1183	7.7	0.6	6.6	8.8	0.2	0.9	0.0	2.0
213L1184	8.0	0.6	6.9	9.1	0.7	0.9	0.0	2.4
213L1189	8.3	0.6	7.2	9.4	1.3	0.9	0.0	3.0
213L1192	7.7	0.6	6.6	8.8	0.7	0.9	0.0	2.4
213L1209	6.3	0.6	5.2	7.4	6.6	0.9	4.9	8.3
213L1225	6.0	0.6	4.9	7.1	3.4	0.9	1.7	5.1
213L1231	8.5	0.6	7.4	9.6	1.9	0.9	0.2	3.6
213L1237	7.0	0.7	5.7	8.4	0.0	0.9	0.0	1.7
213L1238	8.5	0.6	7.4	9.6	4.9	0.9	3.1	6.6
213L1239	7.0	0.6	5.9	8.1	5.3	0.9	3.6	7.1
213L1247	4.7	0.6	3.6	5.8	1.6	0.9	0.0	3.3
213L1258	7.7	0.6	6.6	8.8	0.0	0.9	0.0	1.7
213L1259	7.5	0.6	6.4	8.6	2.0	0.9	0.2	3.7
213L1264	4.7	0.6	3.6	5.8	8.3	0.9	6.6	10.1
213L1268	8.7	0.6	7.6	9.8	0.3	0.9	0.0	2.0
213L1279	7.5	0.7	6.2	8.9	8.0	0.9	6.3	9.7
213L1281	5.2	0.6	4.1	6.3	8.3	0.9	6.6	10.1
213L1284	8.3	0.6	7.2	9.4	7.4	0.9	5.7	9.1
213L1287	6.7	0.6	5.6	7.8	0.3	0.9	0.0	2.1
BBC-30-1-20	5.3	0.6	4.2	6.4	2.1	0.9	0.4	3.8
BBCrow-111								
BBC-48-2-20-37496	7.0	0.6	5.9	8.1	8.6	0.9	6.9	10.3

^aMean, standard error (SE), and 95% lower (L_{95%}) and upper (U_{95%}) confidence interval limits.

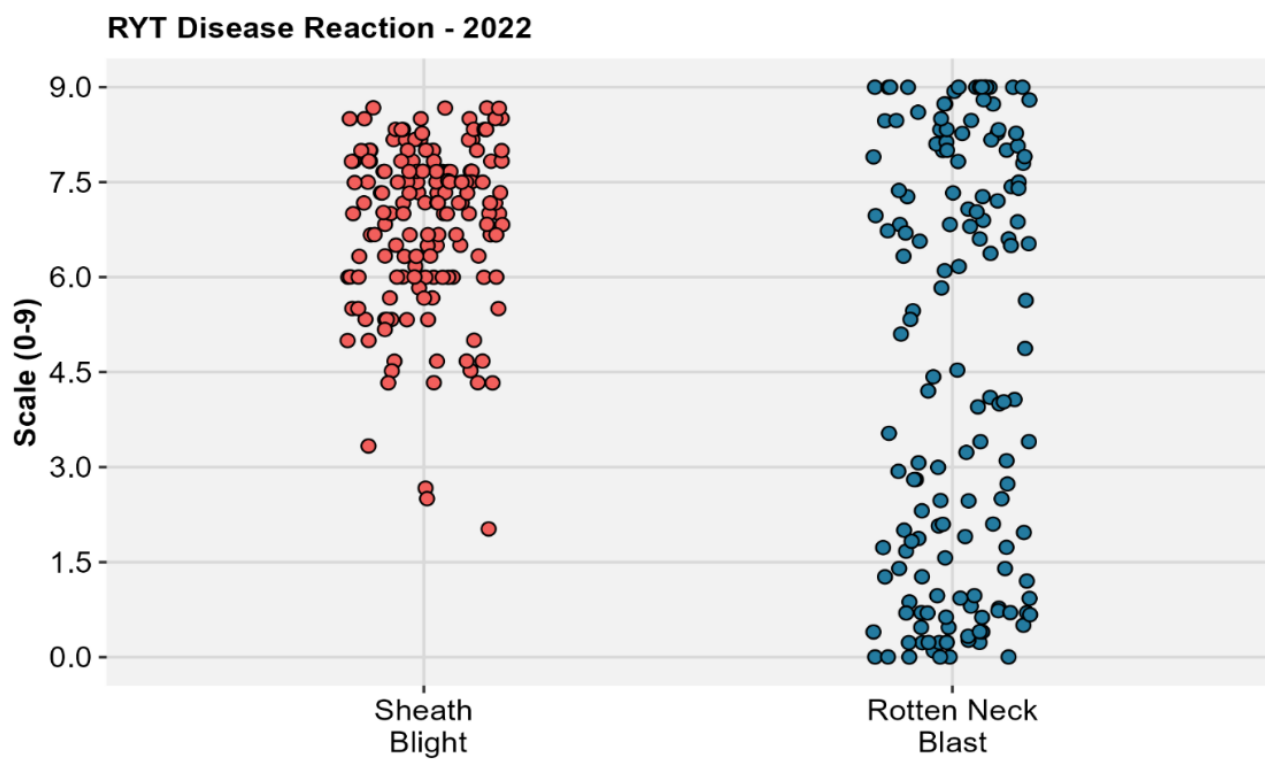


Figure 6. Distribution of the disease reaction for the Regional Yield Test (AYT) study to sheath blight and rotten neck blast at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

2022 – DISEASE MANAGEMENT STUDIES

Sheath Blight - Fungicide Test – Rice Research Station

Rice was drill seeded (100 lb seed/A) on the 28th of March, 2022, in a Crowley silt loam soil at the H. Rouse Caffey Rice Research Station near Crowley, LA. The field was flooded on the 3rd of May and drained on the 19th of July. Cultural practices, such as fertilization and weed control, followed Louisiana's current standard recommendation for rice cultivation. The experiment design was a randomized complete block, with four replications and plots measuring 5 x 14 ft (7 rows per plot). All plots were inoculated with a grain/rice hull mixture (1:2 v/v) colonized with a virulent isolate of *Rhizoctonia solani* at the panicle differentiation growth stage on the 30th of May. Fungicide applications (Table 7) were made at the panicle differentiation + 7 days, boot, and heading growth stage using a CO₂-pressurized backpack sprayer with a three tips (TJ8002) hand wand at a rate of 20 gal/A. Sheath blight plot severity was estimated on the 10th of July using a scale from 0-9 from the vertical progress of the disease, where 0 represents disease-free, 1-3 disease predominant on the lower canopy, 4-6 medium canopy, and 7-9 upper canopy. In each plot, severity was estimated on four 2.1 ft sections on the center rows, and the average was reported. A plot combine harvested the plots on the 5th of August, and the yield was adjusted to 13% of moisture. Milling yields, head (whole grain %) and total milling yield (%), were determined using a laboratory rice mill model PAZ-1 DTA (Zaccaria) using a sample of 100g with a running time of 62 seconds. Data analysis was performed using the statistical software R and *lme4* packages for linear mixed models and *emmeans* package for mean treatment estimation and means separation. Fungicide treatment was considered a fixed effect and blocks as a random effect. Means separation used the Tukey HSD test at $\alpha = 0.05$. Four plots were considered outliers based on the boxplot of residue and were removed from the analysis.

The disease severity ranged from 0.9 to 6.6. The untreated check was not different from treatments with propiconazole, independent of application timing, and treatments azoxystrobin + propiconazole sprayed at PD7 and Heading (Table 8). It is not clear why TRT 12 and 14 did not provide disease control. Azoxystrobin and flutolanil had similar sheath blight control across application timings (Figure 7). Applications at the boot growth stage had superior disease control than those at heading but were not statistically different from those sprayed at panicle differentiation. No statistically significant difference was found across treatments for grain yield (Table 9), and only minor significance between flutolanil vs. azox + prop across all timings ($P = 0.047$; Fig. 8). No difference was observed between treatments for grain milling head (Table 10), but azox + prop had lower head compared with treatments azoxystrobin and flutolanil (Fig. 9). No difference between treatments or contrast was observed for grain milling total (Table 11 and Fig. 10).

Table 7. Treatment list for the 2022 Sheath Blight - Fungicide Test. Fungicide active ingredient, growth stage of application, relative commercial product, and application rate.

TRT	Active ingredients	Stage	Label	Rate (FL oz/A)
1	Untreated check	--	--	--
2	Azoxystrobin	PD7	Quadris	12
3	Azoxystrobin	Boot	Quadris	12
4	Azoxystrobin	Head	Quadris	12
5	Propiconazole	PD7	Tilt	10
6	Propiconazole	Boot	Tilt	10
7	Propiconazole	Heading	Tilt	10
8	Flutolanil	PD7	Elegia	32
9	Flutolanil	Boot	Elegia	32
10	Flutolanil	Head	Elegia	32
11	Flutolanil	PD7 + Boot	Elegia	16 + 16
12	Azoxystrobin + propiconazole	PD7	Quilt Xcel (Generic	21
13	Azoxystrobin + propiconazole	Boot	Quilt Xcel	21
14	Azoxystrobin + propiconazole	Heading	Quilt Xcel	21
15	Azoxystrobin + propiconazole	Boot + Head	Quilt Xcel	21 + 21
16	Flutolanil + Propiconazole + Azoxystrobin	Boot	Elegia + Quilt Xcel	32 + 21

Table 8. Effect of fungicide and application timing on sheath blight severity on scale 0-9, on the cultivar CL111 inoculated with *Rhizoctonia solani* at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

TRT	Description ^a	Means (0-9) ^b	SE	L _{95%}	U _{95%}
1	Untreated check	6.54 d	0.67	5.17	7.90
2	Azox @ PD	1.02 a	0.67	-0.34	2.39
3	Azox @ B	1.50 a	0.59	0.30	2.70
4	Azox @ H	2.75 abc	0.59	1.55	3.95
5	Prop @ PD	6.31 d	0.59	5.11	7.51
6	Prop @ B	5.19 bcd	0.67	3.82	6.55
7	Prop @ H	5.50 cd	0.59	4.30	6.70
8	Flut @ PD	0.94 a	0.59	-0.26	2.14
9	Flut @ B	1.63 a	0.59	0.43	2.82
10	Flut @ H	2.50 ab	0.59	1.30	3.70
11	Flut @ PD+B	1.00 a	0.59	-0.20	2.20
12	Azox + Prop @ PD	6.63 d	0.59	5.43	7.82
13	Azox + Prop @ B	1.81 a	0.59	0.61	3.01
14	Azox + Prop @ H	6.26 d	0.67	4.89	7.62
15	Azox + Prop @ B+H	2.00 a	0.59	0.80	3.20
16	Flut + Azox + Prop @ B	1.38 a	0.59	0.18	2.57

^a Treatment description on Table 7

^b Mean, standard error (SE), and 95% lower (L_{95%}) and upper (U_{95%}) confidence interval limits. Means followed by the same letter do not significantly differ (Tukey HSD, $\alpha = 0.05$)

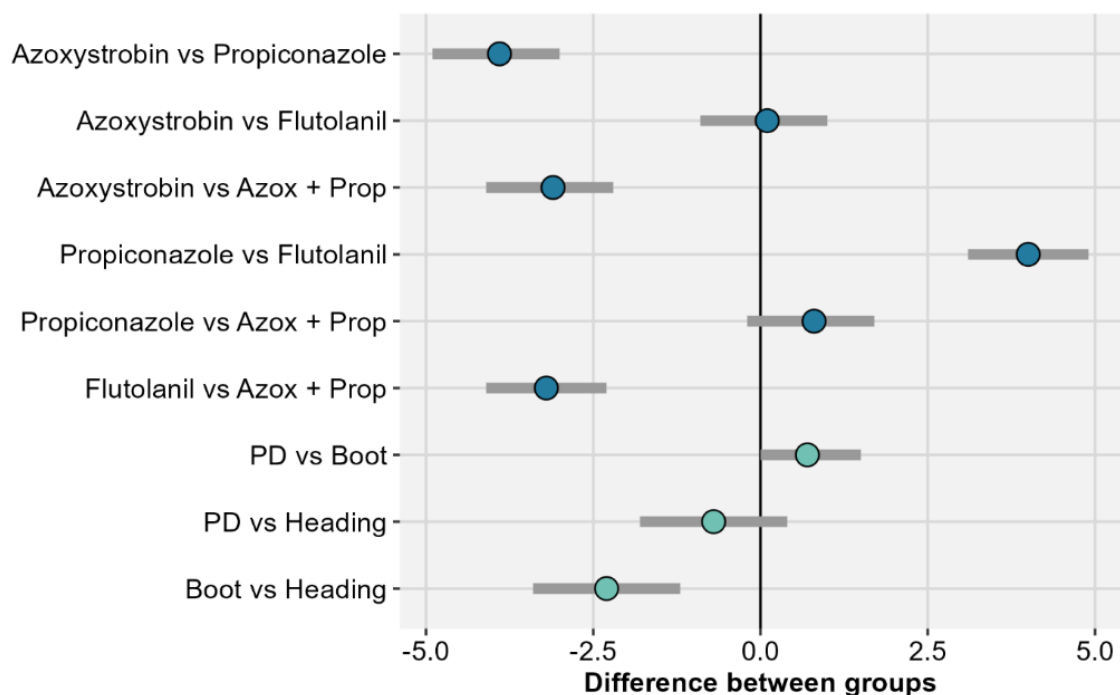


Figure 7. Contrast of **sheath blight severity** and upper and lower 95% confidence interval limits. Blue dots are the difference (contrast) between fungicides grouped across different application timing; green dots are the difference (contrast) in application timing across fungicides. Negative values indicate that the former fungicide or timing has a smaller disease severity than the second, and vice-versa. The vertical line represents non-effect, contrast where the confidence interval overlaps the non-effect line are not statistically different ($P < 0.05$).

Table 9 – Effect of fungicide and application timing on grain yield (lb/A), on the cultivar CL111 inoculated with *Rhizoctonia solani* at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

TRT	Description ^a	Means (lb/A) ^b	SE	L _{95%}	U _{95%}
1	Untreated check	7676.7 N.S.	653.7	6362.3	8991.1
2	Azox @ PD	7078.7	653.7	5764.4	8393.1
3	Azox @ B	7886.3	653.7	6572.0	9200.7
4	Azox @ H	6665.1	653.7	5350.8	7979.5
5	Prop @ PD	7935.5	653.7	6621.1	9249.8
6	Prop @ B	6517.3	653.7	5203.0	7831.7
7	Prop @ H	7098.1	653.7	5783.7	8412.5
8	Flut @ PD	7028.6	653.7	5714.2	8343
9	Flut @ B	8448.5	653.7	7134.1	9762.8
10	Flut @ H	7136.2	653.7	5821.8	8450.5
11	Flut @ PD+B	6772.1	653.7	5457.7	8086.5
12	Azox + Prop @ PD	6205.7	653.7	4891.4	7520.1
13	Azox + Prop @ B	6622.1	653.7	5307.7	7936.4
14	Azox + Prop @ H	6512.0	653.7	5197.6	7826.3
15	Azox + Prop @ B+H	6917.9	653.7	5603.5	8232.3
16	Flut + Azox + Prop @ B	5882.3	653.7	4568.0	7196.7

^a Treatment description on Table 7

^b Mean, standard error (SE), and 95% lower (L_{95%}) and upper (U_{95%}) confidence interval limits. Means were not significantly differed (Tukey HSD, $\alpha = 0.05$)

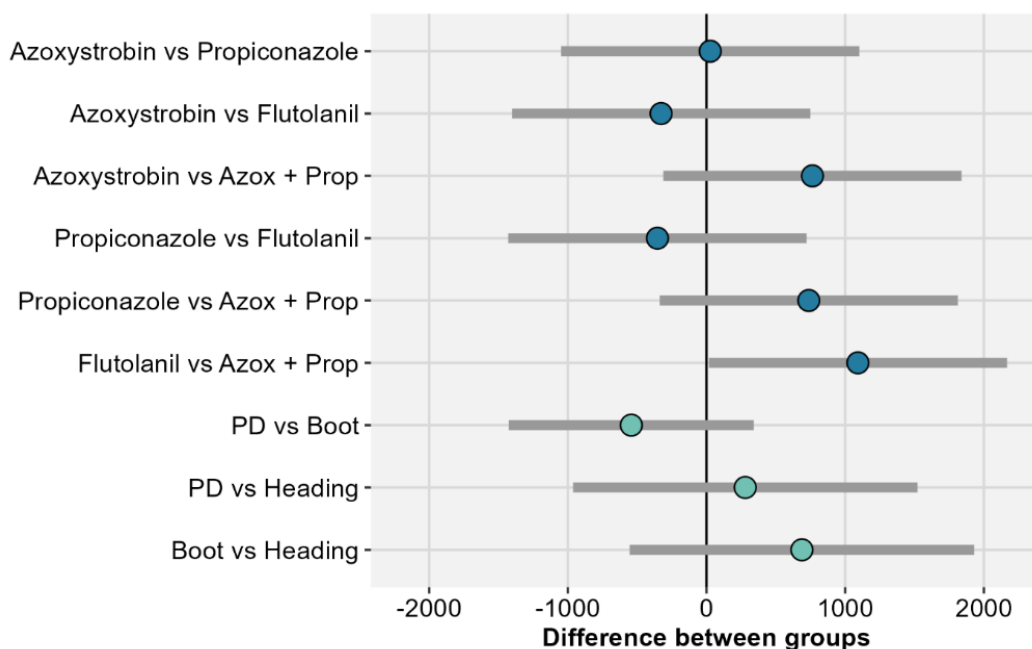


Figure 8. Contrast of **grain yield (lb/A)** and upper and lower 95% confidence interval limits. Blue dots are the difference (contrast) between fungicides grouped across different application timing; green dots are the difference (contrast) in application timing across fungicides. Negative values indicate that the former fungicide or timing has a smaller yield than the second, and vice-versa. The vertical line represents non-effect, contrast where the confidence interval overlaps the non-effect line are not statistically different ($P < 0.05$).

Table 10. Effect of fungicide and application timing on milling head (%), on the cultivar CL111 inoculated with *Rhizoctonia solani* at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

TRT	Description ^a	Means (%) ^b		SE	L _{95%}	U _{95%}
1	Untreated check	61.88	N.S.	0.90	60.06	63.70
2	Azox @ PD	63.15		0.90	61.34	64.97
3	Azox @ B	63.99		0.90	62.17	65.81
4	Azox @ H	64.60		1.31	61.96	67.23
5	Prop @ PD	62.49		0.90	60.67	64.31
6	Prop @ B	62.21		0.90	60.39	64.03
7	Prop @ H	61.81		0.90	59.99	63.63
8	Flut @ PD	63.07		1.31	60.44	65.71
9	Flut @ B	62.85		0.90	61.03	64.67
10	Flut @ H	63.63		0.90	61.81	65.45
11	Flut @ PD+B	61.94		0.90	60.13	63.76
12	Azox + Prop @ PD	60.18		1.05	58.05	62.30
13	Azox + Prop @ B	63.70		0.90	61.89	65.52
14	Azox + Prop @ H	60.17		0.90	58.35	61.99
15	Azox + Prop @ B+H	62.99		1.05	60.86	65.11
16	Flut + Azox + Prop @ B	63.32		1.05	61.19	65.44

^a Treatment description on Table 7

^b Mean, standard error (SE), and 95% lower (L_{95%}) and upper (U_{95%}) confidence interval limits. Means were not significantly differ (Tukey HSD, $\alpha = 0.05$)

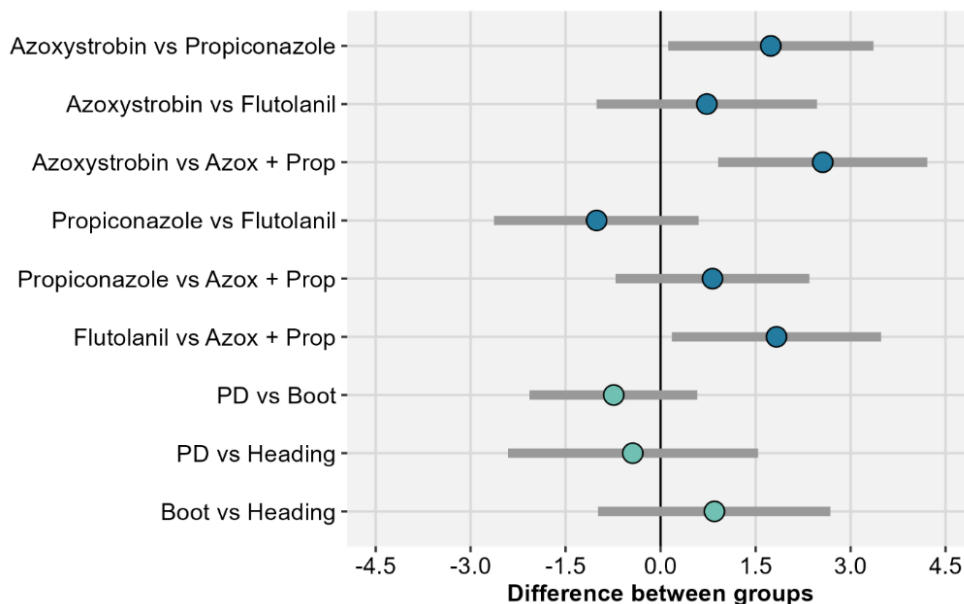


Figure 9. Contrast of **grain milling head (%)** and upper and lower 95% confidence interval limits. Blue dots are the difference (contrast) between fungicides grouped across different application timing; green dots are the difference (contrast) in application timing across fungicides. Negative values indicate that the former fungicide or timing has a smaller grain milling head than the second, and vice-versa. The vertical line represents non-effect, contrast where the confidence interval overlaps the non-effect line are not statistically different ($P < 0.05$).

Table 11. Effect of fungicide and application timing on milling total grain (%), on the cultivar CL111 inoculated with *Rhizoctonia solani* at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

TRT	Description ^a	Means (lb/A) ^b	SE	L _{95%}	U _{95%}
1	Untreated check	69.06 N.S.	0.45	68.15	69.96
2	Azox @ PD	69.16	0.45	68.26	70.07
3	Azox @ B	69.40	0.45	68.49	70.30
4	Azox @ H	69.79	0.93	67.90	71.67
5	Prop @ PD	69.33	0.45	68.42	70.23
6	Prop @ B	69.03	0.45	68.12	69.93
7	Prop @ H	68.78	0.45	67.87	69.68
8	Flut @ PD	69.16	0.65	67.85	70.48
9	Flut @ B	69.17	0.45	68.26	70.07
10	Flut @ H	69.39	0.45	68.48	70.29
11	Flut @ PD+B	68.60	0.45	67.69	69.51
12	Azox + Prop @ PD	68.09	0.52	67.03	69.14
13	Azox + Prop @ B	69.64	0.45	68.74	70.55
14	Azox + Prop @ H	67.83	0.45	66.92	68.73
15	Azox + Prop @ B+H	68.95	0.52	67.89	70.01
16	Flut + Azox + Prop @ B	69.14	0.52	68.08	70.20

^a Treatment description on Table 7

^b Mean, standard error (SE), and 95% lower (L_{95%}) and upper (U_{95%}) confidence interval limits. Means were not significantly differ (Tukey HSD, $\alpha = 0.05$)

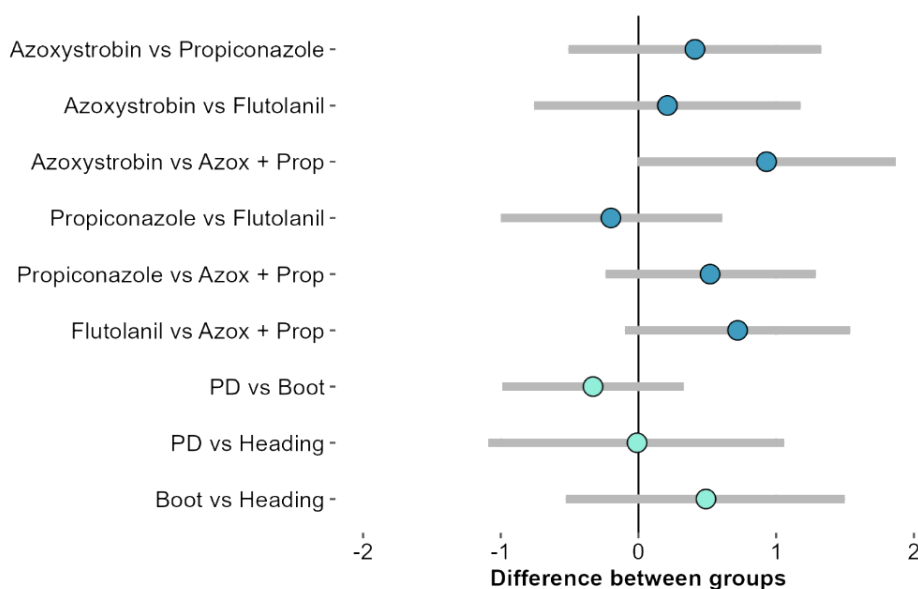


Figure 10. Contrast of **grain milling total (%)** and upper and lower 95% confidence interval limits. Blue dots are the difference (contrast) between fungicides grouped across different application timing; green dots are the difference (contrast) in application timing across fungicides. Negative values indicate that the former fungicide or timing has a smaller grain milling total than the second, and vice-versa. The vertical line represents non-effect, contrast where the confidence interval overlaps the non-effect line are not statistically different ($P < 0.05$).

SHEATH BLIGHT - FUNGICIDE TEST – LAKE ARTHUR

Sheath Blight - Fungicide Test was repeated at Lake Arthur, LA following the same methodology described previously for the fungicide test at the Rice Research Station. An exception that no inoculation was made on the Lake Arthur location. Diseases failed to develop, with overall disease severity at negligible levels. Plots were not harvested to estimate yield, but rice panicles were collected to estimate grain milling quality.

Results showed no difference between treatments for milling head grain (Table 12). Treatments 4, 7, and 15 had a higher grain milling total grain than the untreated check, but they were not different from most other treatments.

Table 12. Effect of fungicide and application timing on milling head grain (%), on the cultivar CL111 inoculated with *Rhizoctonia solani*, Lake Arthur, LA. 2022.

TRT	Description	Means (lb/A)	SE	L _{95%}	U _{95%}
1	Untreated check	42.40 N.S.	1.14	40.1	44.7
2	Azox @ PD	45.02	1.35	42.31	47.74
3	Azox @ B	44.68	1.35	41.97	47.39
4	Azox @ H	45.97	1.35	43.26	48.69
5	Prop @ PD	46.60	1.35	43.89	49.32
6	Prop @ B	44.73	1.35	42.02	47.44
7	Prop @ H	45.06	1.56	41.93	48.19
8	Flut @ PD	43.29	1.56	40.16	46.43
9	Flut @ B	44.33	1.35	41.62	47.04
10	Flut @ H	41.66	1.35	38.95	44.37
11	Flut @ PD+B	43.95	1.35	41.24	46.66
12	Azox + Prop @ PD	43.79	1.35	41.08	46.5
13	Azox + Prop @ B	46.37	1.35	43.66	49.09
14	Azox + Prop @ H	44.76	1.35	42.05	47.47
15	Azox + Prop @ B+H	47.07	1.35	44.36	49.78
16	Flut + Azox + Prop @ B	46.34	1.35	43.63	49.05

^a Treatment description on Table 7

^b Mean, standard error (SE), and 95% lower (L_{95%}) and upper (U_{95%}) confidence interval limits. Means were not significantly differing (Tukey HSD, $\alpha = 0.05$)

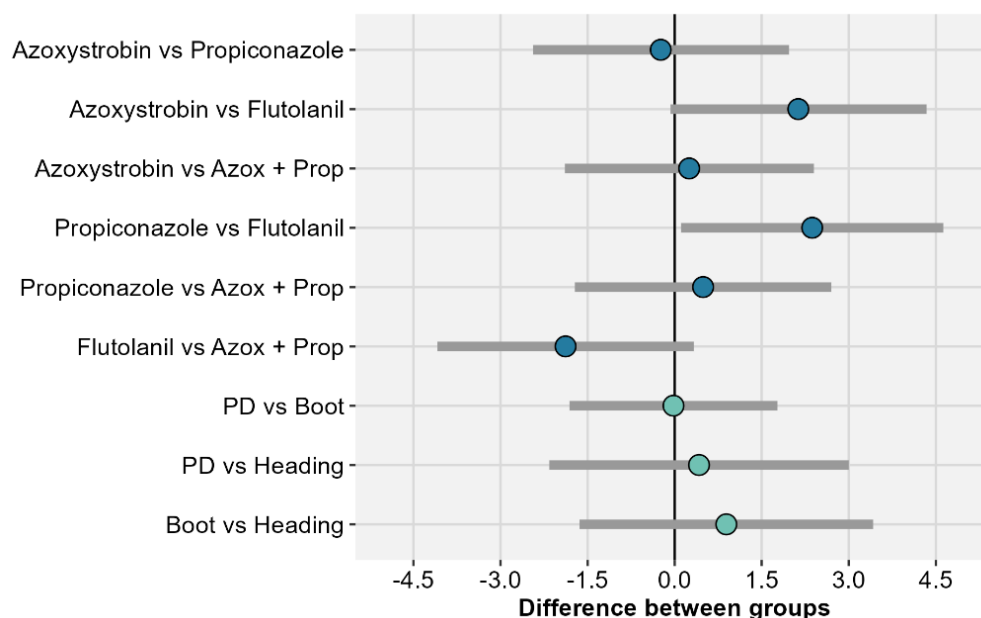


Figure 11. Contrast of **grain milling head (%)** and upper and lower 95% confidence interval limits. Blue dots are the difference (contrast) between fungicides grouped across different application timing; green dots are the difference (contrast) in application timing across fungicides. Negative values indicate that the former fungicide or timing has a smaller grain milling head than the second, and vice-versa. The vertical line represents non-effect, contrast where the confidence interval overlaps the non-effect line are not statistically different ($P < 0.05$).

Table 13. Effect of fungicide and application timing on **grain milling total grain (%)**, on the cultivar CL111 inoculated with *Rhizoctonia solani*, Lake Arthur, LA. 2022.

TRT	Description	Means (lb/A)	SE	L _{95%}	U _{95%}
1	Untreated check	67.49 a	0.32	66.83	68.14
2	Azox @ PD	68.95 abc	0.41	68.13	69.78
3	Azox @ B	69.27 abc	0.41	68.44	70.1
4	Azox @ H	69.30 bc	0.36	68.58	70.02
5	Prop @ PD	69.01 abc	0.36	68.29	69.72
6	Prop @ B	68.54 abc	0.36	67.82	69.26
7	Prop @ H	69.85 c	0.41	69.02	70.68
8	Flut @ PD	67.96 abc	0.41	67.14	68.79
9	Flut @ B	68.26 abc	0.36	67.54	68.98
10	Flut @ H	67.86 ab	0.36	67.14	68.58
11	Flut @ PD+B	68.51 abc	0.36	67.79	69.22
12	Azox + Prop @ PD	68.08 abc	0.36	67.36	68.8
13	Azox + Prop @ B	68.94 abc	0.36	68.22	69.65
14	Azox + Prop @ H	68.73 abc	0.36	68.01	69.45
15	Azox + Prop @ B+H	69.32 bc	0.36	68.6	70.04
16	Flut + Azox + Prop @ B	68.64 abc	0.36	67.92	69.35

^a Treatment description on Table 7

^b Mean, standard error (SE), and 95% lower (L_{95%}) and upper (U_{95%}) confidence interval limits. Means followed by the same letter do not significantly differ (Tukey HSD, $\alpha = 0.05$)

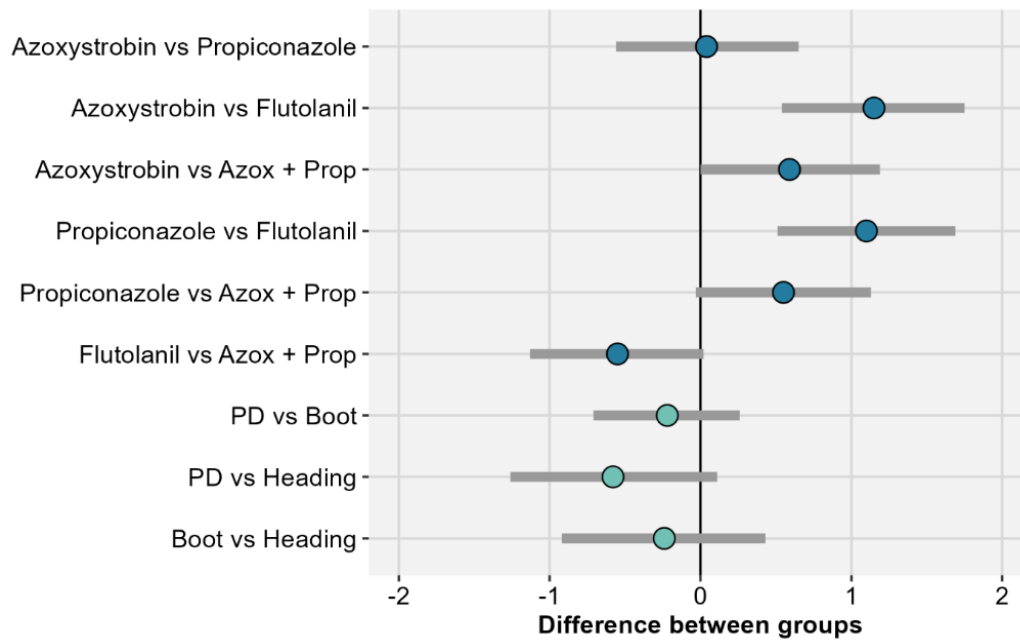


Figure 12. Contrast of **grain milling total (%)** and upper and lower 95% confidence interval limits. Blue dots are the difference (contrast) between fungicides grouped across different application timing; green dots are the difference (contrast) in application timing across fungicides. Negative values indicate that the former fungicide or timing has a smaller grain milling total than the second, and vice-versa. The vertical line represents non-effect, contrast where the confidence interval overlaps the non-effect line are not statistically different ($P < 0.05$).

IPM Blast - Fungicide Test – Rice Research Station

Rice was drill seeded (100 lb seed/A) on May 10, 2022, in a Crowley silt loam soil at the H. Rouse Caffey Rice Research Station near Crowley, LA. Cultural practices, such as fertilization and weed control, followed Louisiana's current standard recommendation for rice cultivation. The experiment design was a randomized complete block, with four replications and plots measuring 5 x 14 ft (7 rows per plot). No artificial inoculation was made, but highly susceptible varieties (M201 and M202) were planted on the trial border and served as a spreader for the inoculum. The study is a two-factorial, with the first factor being the application timing of the fungicide azoxystrobin + propiconazole at 21 FL oz/A with a single application at 50-70% heading or two applications at the boot growth stage followed by another application at 50-70% heading. The second factor was variety resistance, with four varieties: resistant or moderately resistant (PVL03 and CLL17) and two susceptible or very susceptible (CL 151 and Mermentau). Fungicide applications were made using a CO₂-pressurized backpack sprayer with a three tips (TJ8002) hand wand at a rate of 20 gal/A. Boot applications were made on the 17th of July and heading applications on the 31st of July (CL151 and CLL17) or the 4th of August (PVL03 and Mermentau). Disease ratings were done on September 10, 2022 using a scale from 0-9 and transformed to percentage. Linear mixed models were used for the statistical analysis with fungicide and varieties as fixed effects and blocks as the random effect. Means separation used the Tukey HSD test at $\alpha = 0.05$. Results are presented in Table 14.

Table 14 - Effect of fungicide timing and variety on rotten neck blast severity at the H. Rouse Caffey Rice Research Station, Crowley, LA. 2022.

TRT ^a	Description	Fungicide	Means (%) ^b	SE	d.f.	L _{95%}	U _{95%}
1	CL151	None	63.3 d	5.6	27.0	51.8	74.8
2	CL151	Head	44.2 cd	4.7	21.8	34.4	53.9
3	CL151	Boot + Head	36.0 bc	4.7	21.8	26.3	45.8
4	CLL17	None	18.8 ab	4.7	21.8	9.1	28.5
5	CLL17	Head	4.3 a	4.2	17.4	0.0	13.0
6	CLL17	Boot + Head	5.3 a	4.2	17.4	0.0	14.0
7	Mermentau	None	61.1 d	4.2	17.4	52.3	69.9
8	Mermentau	Head	36.4 bc	4.2	17.4	27.6	45.2
9	Mermentau	Boot + Head	25.8 bc	4.2	17.4	17.0	34.5
10	PVL03	None	0.0 a	4.2	17.4	0.0	8.8
11	PVL03	Head	0.0 a	4.2	17.4	0.0	8.8
12	PVL03	Boot + Head	0.0 a	4.2	17.4	0.0	8.8

^a Treatments are a combination of variety and fungicide timing. Varieties ranged from disease reaction to rotten neck blast with PVL03 and CLL17 classified as resistant or moderate resistant and Mermentau and CL151 as susceptible or very susceptible. Fungicide levels are: none – untreated check; Head - single application at 50-70% heading; Boot + Head = two applications at the boot growth stage followed by another application at 50-70% heading

^b Mean % rotten neck blast severity, standard error (SE), and 95% lower (L_{95%}) and upper (U_{95%}) confidence interval limits. Means followed by the same letter do not significantly differ (Tukey HSD, $\alpha = 0.05$)

RICE INSECTS RESEARCH

EVALUATION OF FOLIAR-APPLIED INSECTICIDES FOR CONTROL OF RICE STINK BUG

B.E. Wilson, K.J. Landry, and T. Musgrove

The rice stink bug (RSB), *Oebalus pugnax*, represents a major threat to headed rice throughout the southern U.S. Rice stink bug feeding reduces head yield and increases rice peck thereby impacting rough rice value and farm revenue. Foliar applied insecticides are the primary control strategy for RSB. Continued evaluations of insecticide efficacy against RSB is needed because of concerns about development of pyrethroid resistance.

Foliar applied insecticides and botanical oils were evaluated in a small plot trial in 2022 in a randomized block design with four replications. Pre-treatment sweep net samples revealed mean captures across plots were 8.9 RSB adults and nymphs per 10 sweeps, well above the recommended treatment threshold of three per 10 sweeps. Insecticides were applied 26 August 2022 with a CO₂-pressurized backpack sprayer calibrated to deliver 15 gallons per acre. Insecticide treatments included Warrior® (lambda-cyhalothrin, at 1.9 fl oz/acre), and Endigo ZCX® (lambda-cyhalothrin + thiamethoxam at 4 and 5 fl oz/acre). Additional treatments included either one or two applications of a botanical oil mixture applied at 150 and 250 fl oz/acre. The second application occurred on 29 August following sweeping all plots. RSB captures were recorded from ten sweeps per plot at 3, 4, 7, and 13 days after treatment (DAT). Data from each sampling date were analyzed separately with ANOVAs which included treatment as a fixed effect and replication as a random effect. Means were separated with Tukey's HSD.

Insecticide treatments influenced RSB capture at 3 DAT, but not at other sampling dates. four sampling dates (Table 1). Endigo provided the best control at 3 DAT. The botanical oil provided comparable control to chemical insecticides at all sampling dates. Sweep net captures across all treatments were above the economic threshold of three per 10 sweeps at all sampling dates except 13 DAT. Adult RSBs are highly mobile, and it is likely substantial reinfestation of plots occurred shortly after treatment.

Table 1. RSB sweep net captures as affected by insecticide treatments, H. Rouse Caffey Rice Research Station, 2021.

Treatment	RSB adults and nymphs per 10 sweeps			
	3 DAT	4 DAT	7 DAT	13 DAT
Non-treated Control	9.4 a	8.5	7.3 a	3.2
Warrior	4.6 ab	4.8	6.4	2.2
Endigo ZCX	4.0 b	4.8	5.6	3.8
Botanical oils – 150 fl oz (1x)	6.1 ab	5.8	8.6	3.3
Botanical oils – 150 fl oz (2x)	6.2 ab	3.8	5.4	2.2
Botanical oils – 250 fl oz (1x)	5.6 ab	4.6	4.2	2.2
Botanical oils – 250 fl oz (2x)	4.5 ab	5.0	6.6	0.7
$F_{6,31} =$	1.3	1.42	0.85	0.95
$P =$	0.053	0.235	0.557	0.484

RICE PHYSICAL CHARACTERISTICS INFLUENCE ON SUSCEPTIBILITY TO STORED GRAIN BEETLES

E.M. Doherty, Q. Sun, and B.E. Wilson

After harvest, rice may be stored in grain bins for extended periods. During this time, it is susceptible to stored rice pests, including the lesser grain borer, *Rhyzopertha dominica* (L.). Rice varieties are differentially susceptible to these pests, but it is not known what attributes of stored rice may confer resistance. We tested several varieties of rice commonly grown in Louisiana for their susceptibility to *R. dominica*. Ten *R. dominica* were introduced to vials containing 24g of 1 of 8 examined varieties. Each variety was tested 6 times in each experimental replicate, across 3 experimental replicates. After two weeks, the beetles were removed and damage to the rice was measured. Vials were then monitored for two months, during which, progeny were counted, weighed, and their eclosion dates were recorded. At the end of the experiment, damage was weighed again. We then took the mean of each measure of susceptibility, as well as collected data on the physical characteristics of each variety from their registrations, including grain length, width, length/width ratio, thickness, and weight. Susceptibility to *R. dominica* was examined across physical characteristics in regression analyses.

We found that damage by adult beetles was positively correlated to the grain length and length/width ratio. While rough rice thickness was not correlated with adult damage, it was positively correlated with brown and milled rice thickness. There was also a trend for damage by adults to be negatively correlated with rice width. Of all the measures, progeny counts, and damage were only affected by milled rice thickness; they were positively correlated. Progeny mass was positively correlated with grain width and kernel weight, but negatively correlated with length/width ratio.

Results indicate longer, thinner grain varieties are more susceptible to feeding by *R. dominica* adults. Conversely, beetles which developed as larvae reached greater mass feeding on varieties of rice with larger, wider grains. The results help explain the large degree of variation observed among varieties in susceptibility to *R. dominica* and other stored grain beetles.

Table 1. Relationships of rice characteristics and measures of susceptibility to the lesser grain borer (*R. dominica*)

Measure	Characteristic	Grain Quality	Correlation (df=7)	p-value
Damage by Adults	Length	Rough	0.77	0.026
		Brown	0.76	0.027
		Milled	0.73	0.026
	Width	Rough	-0.70	0.054
		Brown	-0.69	0.060
		Milled	-0.64	0.062
	L/W Ratio	Rough	0.69	0.057
		Brown	0.80	0.017
		Milled	0.66	0.053
	Thickness	Brown	0.89	0.015
		Milled	0.83	0.040
Progeny Counts	Thickness	Milled	0.86	0.026
Damage by Progeny	Thickness	Milled	0.88	0.018
Progeny Mass	Width	Rough	0.75	0.030
		Brown	0.69	0.057
	L/W Ratio	Rough	-0.73	0.040
		Brown	-0.87	0.042
	Kernel Weight	Rough	0.78	0.022
		Brown	0.67	0.067

SUSCEPTIBILITY TO INSECT PESTS AMONG ADVANCED BREEDING LINES IN THE VARIETY DEVELOPMENT PROGRAM

B.E. Wilson, K.J. Landry, and T. Musgrove

Rice varieties differ in susceptibility to key insect pests including the rice water weevil (RWW), *Lissorhoptrus oryzophilus*, and the Mexican rice borer, *Eoreuma loftini*. Field trials were conducted to evaluate resistance to these pests among advanced lines in the LSU variety development program. Newly released commercial varieties (PVL03, Avant, and Addi Jo) were also included.

Untreated rice seed of each variety was planted 19 May 2022 in a randomized block design with 5 replications. Each variety was planted with either Dermacor-treated or non-treated for a total of 12 insecticide × variety treatments. Weevil cores were collected on 27 July and 3 Aug 2022. The numbers of stem borer-associated whiteheads were recorded at 100% heading on 2 September 2022. Plots were harvested for collection of yield data on 8 Oct 2021. All data were analyzed with generalized linear mixed models (SAS Proc Glimmix) with variety as a fixed effect and replication as a random effect. Means were separated with Tukey's HSD.

RWW infestations at the first coring date was influenced by varieties (Table 1) and insecticide ($F_{1,48} = 8.61$, $P = 0.005$), but not the interaction. Across varieties, RWW densities were 17% lower in Dermacor-treated (18.9 larvae/core) than non-treated (22.7). RWW density at the second coring date was influenced by insecticide ($F_{1,48} = 20.61$, $P < 0.001$), but not variety or the interaction. Across varieties, larvae per core were 31% lower in Dermacor-treated (17.9) than non-treated (26.3). Whitehead density was affected by variety (Table 1) and insecticide ($F_{1,48} = 6.97$, $P = 0.011$), but not the interaction. Whiteheads were 15% greater in Dermacor treated (8.5/m²) than non-treated (7.4).

Results show substantial resistance to stem borers in some varieties could be utilized as an alternative management strategy to reduce reliance on insecticides. Rice water weevil infestation would cause economic loss in all varieties evaluated. The failure of Dermacor seed treatment to provide effective control may have been related to hot and dry conditions suffered by late-planted rice in 2022.

Table 1. RWW infestations and stem borer density, as affected by varieties, H. Rouse Caffey Rice Research Station, 2022.

Treatment	Immature RWW per core		Whiteheads/ m ² (± 1.5 SE)
	Core 1 (± 4.8 SE)	Core 2 (± 6.8 SE)	
Avant	16.2 b	20.1	8.2 b
Addi Jo	21.1 ab	19.4	0.6 d
PVL03	17.1 ab	21.9	11.9 ab
-21586	20.0 ab	21.2	15.2 a
-2222	27.9 a	27.9	4.1 c
-2150	22.7 ab	21.4	7.8 b
$F_{5, 48} =$	7.61	1.91	45.1
$P =$	<0.001	0.112	<0.001

WATER MANAGEMENT TO CONTROL RICE WATER WEEVIL

K.J. Landry, B.E. Wilson, and T.R. Musgrave

When a permanent flood is established in rice fields, adult rice water weevils (*Lissorhoptrus oryzophilus*) lay eggs on rice leaf tissue. After eclosion, larva will move below the water line to feed on the roots. Yield loss can reach more than fifty percent without effective management. Historically in Louisiana, the practice of draining and drying of fields to control rice water weevil larvae is used when insecticides are not available. Rice fields are routinely scouted for symptomatic abnormalities. When rice water weevil larval infestations are present, the field is drained to create unfavorable conditions for the larvae, which are aquatic. The field is maintained without a flood until the soil cracks due to the lack of moisture. A flood is then reestablished to continue traditional rice management practices. This practice may have the potential to reduce larval infestation to acceptable levels while protecting yield.

To test this, a field trial was conducted to evaluate rice water weevil management through flood removal as compared to continuous flood at the LSU AgCenter Rice Research Station in Crowley, Louisiana in 2022. Treatments were randomized in a split plot factorial design with water management (flood or drain), insecticide (Dermacor or untreated), and variety (Avant, Jupiter, or RT7301). Seeds were drill-planted in small plots (1.4 m X 4.9 m with 7 rows at 18 cm spacing) with 4 blocks and 6 treatments per block. Levees were constructed to separate continuous flood plots from drained plots. The field was flushed with water twelve days post emergence. A permanent flood was established thirty-four days post emergence. Weevil larvae populations were quantified by collecting root/soil core samples twice per plot and counting the number of larvae. Water was removed from plots that were assigned drainage, core samples were collected from both flooded and drained at plots every 4 days for 20 days. Samples were collected again on Sept 12th, thirty days after reestablishment of flood on all plots. Rainfall amounted to 1.82 inches during the soil moisture drying period which increase the days required for soil drying. Data was analyzed using generalized linear mixed model (SAS, PROC GLMMIX) with insecticide treatment and water management included as fixed effect and block as a random effect. Means were separated using Tukey's HSD ($\alpha=0.05$).

Larval densities declined in continually drained plots relative to flooded plots (Figure 1). Despite reduced larval densities, drain plots yielded approximately 30% lower than flooded plots. Results demonstrate that water management can be used to reduce larval infestations. The drain fielded exhibited a 29% reduced weevil larvae population. Further research is needed to determine when the flood can be re-established to reduce impacts of draining on rice yields.

Table 1. RWW infestation as affected by water control measures in continuous flooded field as comparison to drained field with seed treatments.

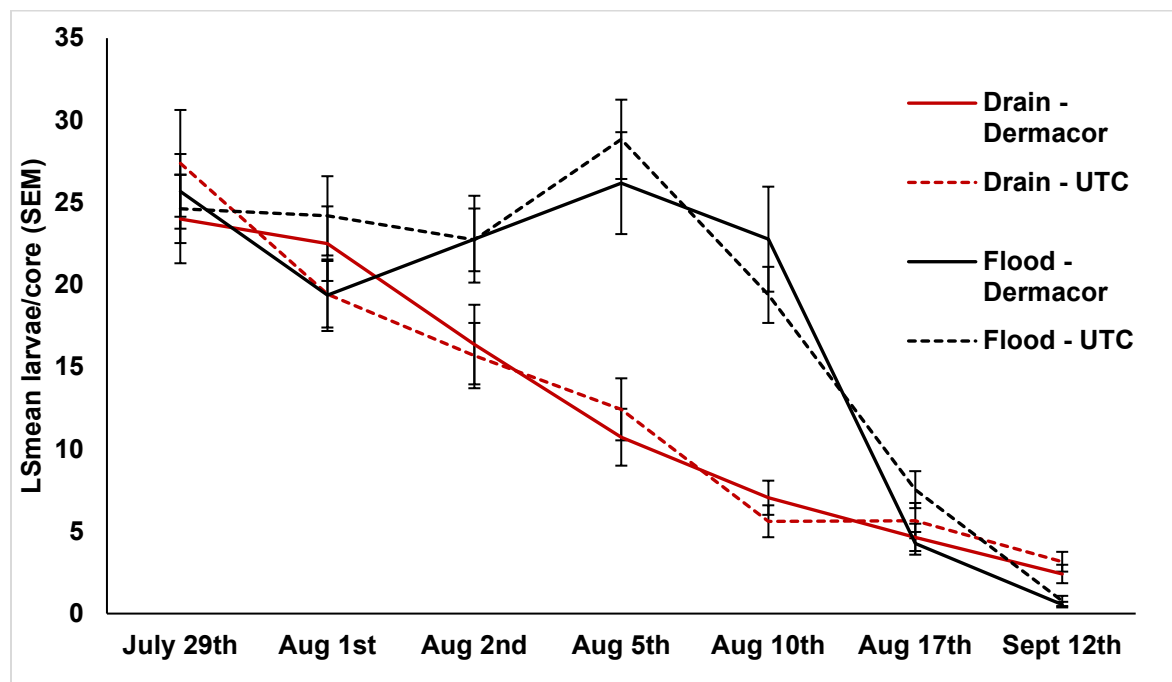
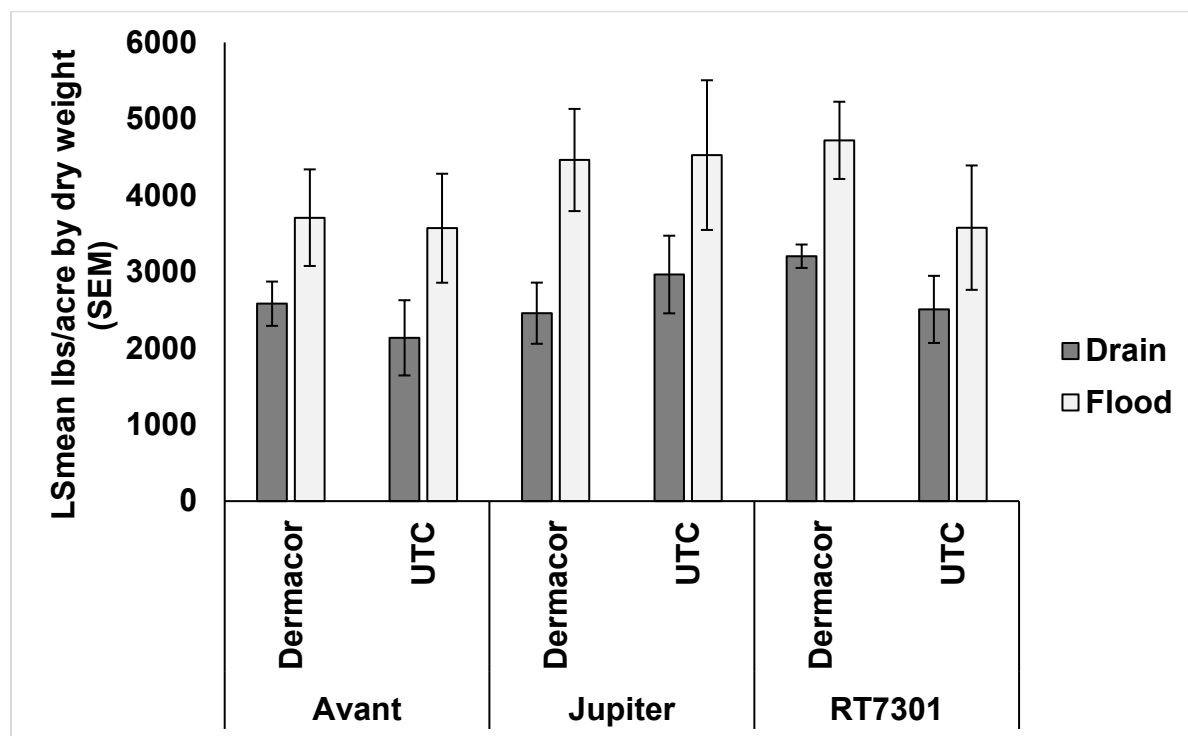


Figure 2. Rice yield in grain weight as affected by continuous flood as comparison to drain for rice water weevil control.



DIFFERENTIAL CONTROL OF LESSER GRAIN BORERS THROUGH STORED GRAIN PROTECTANTS

E.M. Doherty, Q. Sun, and B.E. Wilson

Several grain protectants have come onto the market, but lack evaluations in rough rice, including diatomaceous earth (Crawling Insect Killer), methoprene (Diacon-D IGR[®]), deltamethrin (Centynal[®]), β -cyfluthrin (Tempo SC Ultra[®]), and a commercial formulation of methoprene and deltamethrin (Diacon IGR PLUS[®]). Each of these stored grain protectants were applied to rough rice in 22.7-liter metal trash bins. There were 5 treatments in each trial. In the first trial there was diatomaceous earth (DE), methoprene, deltamethrin, a combination of deltamethrin and methoprene (D+M), and an untreated control. In the second trial, diatomaceous earth was replaced with β -cyfluthrin. Every month after treatment, 24g samples of rice were taken from the bins for evaluation. Ten lesser grain borers (*Rhyzopertha dominica*) were then added to each vial. After 2 weeks, lesser grain borer survival was assessed, and after another 6 weeks the number of progeny in each vial was assessed. There were 5 trash bins of each treatment, and one vial taken from each bin every month for 6 months (N= 300). *Rhyzopertha dominica* adult survival was affected by treatment ($F_{5,208} = 4.90$, $P < 0.001$; Fig. 1A) and month ($F_{5,220} = 4.73$, $P < 0.001$; Fig. 1B), as were *R. dominica* progeny counts per adult (treatment: $F_{5,274} = 10.65$, $P < 0.001$, Fig. 1C; month: $F_{5,220} = 6.60$, $P < 0.001$, Fig. 1D). The combination of deltamethrin and methoprene provided the best control of *R. dominica*, and that control persisted across the entire 6-month duration of the experiment.

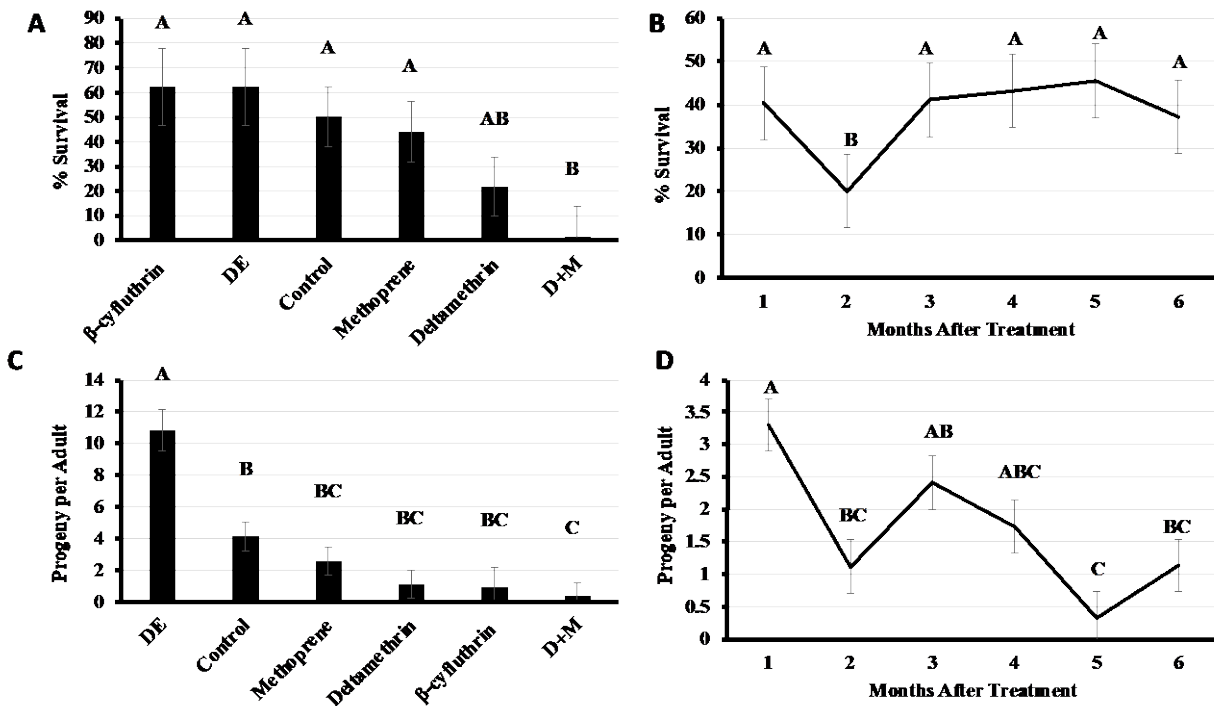


Figure 1. The percent survival of *R. dominica* across insecticide treatments (A) and time (B), as well as the number of progenies produced per adult beetle across treatments (C) and time (D).

IMPACT OF INSECTICIDAL SEED TREATMENTS AND WATER MANAGEMENT ON INSECT PESTS OF FURROW-IRRIGATED RICE

T. R. Musgrove, K.J. Landry, and B.E. Wilson

With the emergence of furrow-irrigated rice, ‘row-rice’ throughout the Midsouth, efforts to improve insect pest management have focused on the role of irrigation methodology and insecticide seed treatments (ISTs). In traditional flood irrigation, ISTs primarily provide protection against the rice water weevil (RWW) (*Lissorhoptrus oryzophilus* Kuschel), the most damaging insect pest of immature rice. However, this insect’s lifecycle is negatively impacted when removing a flood under furrow-irrigation. This raises the question of whether ISTs are justified when the primary target pest is no longer a threat. Alternatively, changing irrigation methods may alter the overall pest complex and give rise to other pests not previously considered important, such as the rice billbug (*Sphenophorus pertinax*). Therefore, a field trial was conducted in Crowley, Louisiana to characterize the role of ISTs in row-rice using two furrow-irrigation methods (tail-water release, end-blocking) and several ISTs, alone and in combination compared to an untreated control.

Rice cultivar ‘RT7401’ treated with Cruiser 5FS, Nipsit Inside, Dermacor X-100, Fortenza, Cruiser 5FS + Fortenza, Dermacor X-100 + Fortenza, or Cruiser 5FS + Fortenza + Dermacor X-100 was planted in a randomized complete block design with four blocks, one replicate per block. This design was replicated once across two irrigation treatments (end-blocking, tail-water release) with a single levee separating the two treatments. Larval densities of RWW and billbug were quantified per soil core and ft², respectively. Number of whiteheads due to billbug or stem borer (Family: Crambidae) injury were quantified per ft². Rice was harvested to determine whether ISTs improve yields in row-rice.

Results showed that ISTs did not improve protection against billbug/stem borer injury compared to untreated rice (Table 1). Whitehead density was influenced by water management ($F = 109.95$; $df = 1, 45$; $P < 0.0001$) with tail-water release having 3.4-fold more whiteheads/ft² (2.5) compared to end-blocking (0.73). Seed treatments, irrigation tactic, and their interaction had no impact to billbug larval densities. Yields were improved in end-blocking (7951 kg/ha) vs tail-water release (5175 kg/ha) and was significant ($F = 463.02$; $df = 1, 45$; $P < 0.0001$). Although yield differences were observed between ISTs, no IST by itself or in combination improved yields over the UTC within either irrigation treatment (Table 2).

Table 1. Whitehead density as influenced by insecticidal seed treatments in furrow-irrigated rice.

Treatment	Whiteheads/ft ²	
	Billbug \pm 0.31 (SE)	Stem borers \pm 0.10 (SE)
Cruiser 5FS	1.57 ab	0.42
Nipsit Inside	1.60 ab	0.43
Dermacor X-100	1.31 ab	0.18
Fortenza	1.31 ab	0.26
Dermacor X-100 + Cruiser 5FS	0.89 b	0.19
Fortenza + Cruiser 5FS	1.99 a	0.22
Dermacor + Fortenza + Cruiser 5FS	0.74 b	0.18
Untreated Check	1.23 ab	0.18
	$F_{7,45} =$	3.79
	$P =$	0.0026
		0.9934

Table 2. Rice yield as influenced by insecticidal seed treatments and water management in furrow-irrigated rice.

Treatment	Yield kg/ha \pm 218.87 (SE)	
	Tail-water release	End-blocking
Cruiser 5FS	5741 de	7366 bc
Nipsit Inside	5797 e	7336 bc
Dermacor X-100	5754 de	8379 a
Fortenza	5189 e	7724 ab
Dermacor X-100 + Cruiser 5FS	6454 cd	8529 a
Fortenza + Cruiser 5FS	5280 e	7908 ab
Dermacor + Fortenza + Cruiser 5FS	6441 cd	8487 a
Untreated Check	5955 de	7884 ab
	$F_{7, 45} =$	2.40
	$P =$	0.0355

VARIETAL RESISTANCE TO BILLBUG INJURY IN FURROW-IRRIGATED RICE

T.R. Musgrove, D. Burns, and B.E. Wilson

Rice grown under furrow-irrigation has increased in acreage over the past several years in Louisiana, especially in the northeast portion of the state. This system allows growers to avoid constructing levees and makes crop rotation of rice with other row crops more practical. Altering irrigation strategies can have a significant impact to the insect pest complex normally associated with traditional flooded rice. The rice billbug (*Sphenophorus pertinax*) has become a dominant pest in this system given the change in irrigation. Currently, insecticidal seed treatments normally used to control rice water weevil (*Lissorhoptrus oryzophilus*) and lepidopteran stem borers (Family: Crambidae) have shown unsatisfactory control of billbugs in recent studies. Therefore, other control tactics, such as host-plant resistance, must be investigated.

A small-plot trial was conducted in 2022 in St. Joseph, LA to evaluate the resistance of various rice varieties against rice billbug injury. Rice cultivars Addi Jo, CLL16, CLL18, PVL03, RT7231MA, XP753, RT7331MA, XP778, XP780, RT7521FP, RT7401, RT7321FP, DG263L, RT7421FP, and CLL17 were planted in a randomized complete block design with four replicates. At 100% heading, total number of whiteheads per plot due to billbug injury were counted. Data was analyzed using GLMM in SAS using PROC GLIMMIX with variety the lone fixed effect and replicate as random. Prior to analysis, data was transformed using $x+1(\log)$ transformation and fitted to a Poisson distribution. Tukey's HSD was used to separate means if significance was found.

Mean number of whiteheads per plot varied across varieties ($F = 17.60$; $df = 14, 42$; $P < 0.0001$). Whitehead density was greatest in CL117 and RT7421FP and were approximately 10-fold greater than the lowest densities observed in Addi Jo and CL116. All other cultivars averaged between 10 and 15 whiteheads per plot. Results suggest variety selection can influence billbug injury. However, low pest pressure in this study minimizes the true scope of resistance among the cultivars tested. For future research, site selection should be carefully considered to ensure necessary billbug pest pressure is present.

Table 1. Whitehead densities as affected by rice variety in furrow irrigated rice, St. Joseph, LA, 2022.

Cultivar	Mean whiteheads/plot ± 6.17 (SE)
Addi Jo	2.00 f
CL116	3.00 ef
CL118	6.75 def
PVL03	8.75 cde
RT7231MA	12.25 cd
XP753	12.25 cd
RT7331MA	12.75 cd
XP778	13.25 cd
XP780	14.25 cd
RT7521FP	15.00 cd
RT7401	15.50 bc
RT7321FP	16.75 bc
DG263L	28.75 ab
RT7421FP	28.75 a
CL117	30.75 a
$F_{14, 42}$	14.60
P	<0.0001

FOUNDATION SEED RICE PROGRAM

R.E. Zaunbrecher

INTRODUCTION

Foundation seed rice has been produced by the LSU AgCenter's H. Rouse Caffey Rice Research Station (HRCRRS) for distribution to Louisiana farmers since 1949. The HRCRRS's seed rice program was instituted in response to the critical shortage of pure planting stocks that existed during and after World War II. Since its inception, the program has made available to Louisiana growers more than 174,920 cwt. of pedigreed stock of more than 50 rice varieties.

Concurrent with the distribution of pure seed by the HRCRRS, an industry was developed in Louisiana composed of independent seed dealers for farmers to conduct trade in registered and certified classes of pedigreed rice.

Foundation seed rice, the planting stock from which registered and certified seed are produced, is the farmer's link with the work of the plant breeder. It is the product of hybridization and successive generations of selection and testing to establish its value as crop seed and eventually as a commercial commodity. For this reason, foundation seed and the basic stocks from which it is produced must be grown and conditioned in a manner that will ensure that viability is maintained and that it be genetically pure and free from mechanical mixtures or contamination by noxious weeds.

Through the HRCRRS's seed program, Louisiana farmers may obtain seed rice of improved varieties developed through the HRCRRS's breeding program and of established commercial varieties originating either at Crowley or at research centers in neighboring states.

To fulfill the objectives of the seed program, the HRCRRS uses the personnel, land, machinery, and other facilities needed to plant, harvest, condition, and store its annual seed rice crop. The production of breeder seed, planting stock for the foundation fields, and the maintenance of purity in commercial rice varieties are functions of the seed program. Breeder seed is sometimes grown within fields of foundation rice or in a special nursery set aside for propagating the HRCRRS's seed stocks. The nursery also serves as a site for evaluating, purifying, and increasing selections from the HRCRRS's breeding program that show promise as new varieties.

The distribution of pedigreed seed rice produced by the HRCRRS is done according to a formula adopted by the Louisiana Seed Rice Growers Association. For each rice-producing parish, the amount of seed allotted is determined by the percentage of the state's total rice acreage grown in that parish during the previous crop year.

Personnel from the Louisiana Cooperative Extension Service, in cooperation with parish committees of the Seed Rice Growers Association, assist in the allocation of foundation seed rice. It is at the parish committee level that the allocation of seed to individual growers is decided. The county agents receive applications for seed rice from growers and handle information and publicity for the pure seed program.

In this state, the official seed-certifying agency for all crops is the Louisiana Department of Agriculture and Forestry (LDAF). The rules and regulations pertaining to the certification of agricultural seeds are part of the Louisiana Seed Law. They are formulated by the Louisiana Seed Commission and enforced by the Agronomic Programs Division of the LDAF. Personnel of the Agronomic Programs Division, operating from district offices, conduct field inspections of growing rice and sampling of bagged rice for laboratory analyses, which consist of purity determinations and germination tests.

PRODUCTION PRACTICES

Each year, the HRCRRS devotes approximately 80 acres of land to the production of foundation seed rice. To eliminate noxious weeds, especially red rice, that can disqualify rice from certification, the fields are fallowed for a 2-year period before planting. This also enables the fields to meet the crop history requirements specified in the seed rice regulations.

Seedbed preparation of foundation fields is done in the fall. Burndown herbicides are applied prior to seeding. The foundation fields are planted into a stale seedbed by means of a 24-runner minimum tillage drill. The breeder stock is planted at rates that may vary from 10 to 100 lb/A. The rice receives a preflood application of urea in which the rate of

nitrogen (N) may vary from 45 to 90 lb/A, as well as basic fertilizer applications based on soil test recommendations. A midseason application of N in rates from 21 to 55 lb/A is also applied.

Seedling grasses and weeds are controlled by means of commercially available herbicides applied by airplane or ground rig. Similarly, aerial applications of insecticides are used to protect the fields from outbreaks of harmful insects.

Roguing of the rice fields for the removal of off-types, varietal mixtures, and noxious weeds begins at the onset of heading and continues until harvest. During this interval, the headed rice is inspected by personnel of the Agronomic Programs Division to determine whether it meets minimum field standards of the certifying agency.

The rice is harvested with a conventional combine and dried in the HRCRRS's eight 21-foot diameter grain bins, equipped with vented drying floors and centrifugal fans with temperature-controlled heaters. The rice is dried to a moisture level of approximately 12%. During the storage period between drying and cleaning, the rice is treated with an insecticide to protect it from stored-grain insects.

Cleaning of foundation and breeder seed usually starts in late October and continues until late December. The rice first moves through an air and screen cleaner that removes chaff, straw, and other foreign material and grades the grain according to width and thickness.

It then flows through three length-grading machines that consist of rotating, indented metal cylinders. The first two remove small grains and broken or dehulled kernels of rice. The third one removes stemmy rice grains that have long awns that are attached to portions of the panicle. In the next phase of cleaning, the rice moves through a machine that performs precision grading of the grain by means of rotating perforated cylinders. This machine is designed to separate medium-grain and/or red rice from long-grain rice. It also removes shriveled and slender kernels from medium-grain rice.

In the final phase of cleaning, the rice moves through a machine that aspirates the grain, removing any chaff, straw, and other foreign material from the conditioned product.

From the cleaning machines, foundation and breeder seed rice are bagged, assigned lot numbers, and placed in storage in the HRCRRS's seed rice warehouse where they remain until they are distributed to Louisiana farmers.

The field and laboratory purity standards for foundation seed rice are strict with regard to varietal mixtures and noxious weeds. Therefore, in all phases of production, great care must be exercised to prevent these impurities from contaminating the seed stocks. It is routine procedure at the HRCRRS to partially disassemble all planting and harvesting equipment and to clean it thoroughly with water and/or compressed air before using it in the field. The dryer and cleaning plant, including all elevators and other conveying equipment, are also subjected to meticulous cleaning and inspection before and after use in stubble fields. Therefore, tractors, plows, harrows, and land levelers are carefully washed before they enter fallow land. These measures, together with the inspection and roguing, which are done during the growing season, help to ensure that foundation seed is genetically pure and free of mechanical mixtures and noxious weed seeds.

2022 ACTIVITIES

Of the 932.5 cwt. of foundation seed rice sold in 2022, the varieties and quantities were as follows: Mermentau, 46 cwt.; Avant, 61.5 cwt.; Cheniere, 189 cwt.; Jupiter, 130 cwt.; and Della-2, 506 cwt.

The HRCRRS's foundation seed crop in 2022 consisted of 3.3 acres of Mermentau, 4.7 acres of Addi Jo, 9.3 acres of Della-2, 8.3 acres of Avant, 1.5 acres of Titan, and 4.4 acres of Jazzman.

Headrows of Mermentau, Jazzman, Addi Jo, Avant, Titan, Pirogue, Cypress, and Della-2 were grown for replenishment of breeder seed stock.

WEED MANAGEMENT IN HERBICIDE-RESISTANT/TOLERANT AND CONVENTIONAL RICE

L. C. Webster, J. A. Williams, M. P. Arcement, E. M. Williams, and B. Hood

Evaluation of Gambit Mixed with Propanil. Reports from producers indicate the existence of an antagonism between Gambit and Propanil for alligatorweed control. Experiments were continued to evaluate alligatorweed control when treated with Gambit applied at 1.0 and 1.5 oz/A mixed with Stam or SuperWham at 3 qt/A. In addition, Permit and Peak, the components of Gambit, were also applied with Stam or SuperWham at equivalent rates of active ingredient of each found in Gambit. All herbicides were also applied alone as comparisons. Gambit applied alone controlled alligatorweed 82 to 90%; however, the two rates of Gambit mixed with Stam controlled alligatorweed 45 to 57%. Peak applied alone controlled alligatorweed 75 to 85%, but control was reduced to 38 to 45% when mixed with Stam. Similar results were found with SuperWham. This research indicates a potentially antagonistic reaction between Gambit, specifically the Peak component, for the control of alligatorweed regardless of the propanil formulation used.

Provisia Rice Line Tolerance. Studies were conducted on the RRS North Farm and South Farm in collaboration with Dr. Adam Famoso's program to evaluate the tolerance of Provisia rice lines PVL01, PVL02, and PVL03, as well as multiple advanced Provisia experimental lines being evaluated for release. Two rates/programs of Provisia were applied at the 2- to 3-leaf stage followed by a 4- to 5-leaf stage application. The programs evaluated were 1 and 2 times the labeled rate. The two rates of Provisia were applied in two applications, 15.5 oz/A followed by 15.5 oz/A and 31 oz/A followed by 31 oz/A. A nontreated was added for comparison for each line that was evaluated. PVL01 resulted in the highest levels of injury out of the lines evaluated in these trials. PVL01 injury was observed at 9 and 10% 21 days after a 2- to 3-leaf application of Provisia at 15.5 and 31 oz/A, respectively. The advanced Provisia lines evaluated in these trials showed low levels of injury. Overall, the levels of injury were less than the injury that was observed in this trial in 2021. The results from these trials will greatly assist in deciding which advanced lines will be commercialized.

Identification and Control of Fimbristylis. Fimbristylis belongs to the sedge family and closely resembles rice flatsedge. However, many of the herbicides that are used for postemergence control of rice flatsedge, Permit and Loyant for example, do not control fimbristylis. During the 2022 growing season, fimbristylis plants were transplanted into 2-gallon buckets and 15 different herbicides were evaluated for control. In late August, an on-farm trial was established in a green rice field on Hebert Farms in Abbeville, LA, to further investigate how to control fimbristylis. The results from the previous study were used to design the on-farm trial which consisted of 17 treatments containing multiple rates and combinations of herbicides. 2,4-D applied at 2 pts/A controlled fimbristylis 99% 14 and 21 days after treatment (DAT), respectively. Grandstand applied at 12 fl oz/A controlled fimbristylis 98 and 92% at 14 and 21 DAT, respectively. In addition to 2,4-D and Grandstand, Regiment at 0.6 oz/A controlled fimbristylis 79 and 80% at 14 and 21 DAT, respectively. Several other herbicides evaluated showed moderate levels of control, but the two most effective control options in this trial were 2,4-D and Grandstand.

Comparisons of Provisia and Highcard Herbicide Efficacy. Several trials were conducted to compare and contrast Provisia and Highcard herbicides. Trials consisted of evaluating the rates needed for each product based on the size of grass species at the time of application, determining if the safener in Highcard would have adverse effects on mix partners, and evaluating late reproductive stage applications of Highcard on Max-Ace rice.

Evaluation of Rogue Application Timings and Rates. Trials were focused on evaluating rates of Rogue needed for Amazon sprangletop control, Rogue mixtures for salvage control of Amazon sprangletop and rice flatsedge, and application timings in water-seeded rice production.

Evaluation of Experimental Herbicides. This project continues to evaluate experimental herbicides. In 2022, this project evaluated four experimental herbicides. The experimental herbicides included three numbered compounds including new formulations and prepacked mixtures.

RICE PRODUCTION ECONOMICS RESEARCH IN 2022

M.A. Deliberto

The 2022 projected cost and return rice enterprise budgets were developed in December 2021 for alternative rice production systems in Louisiana. One of the research objectives in developing these enterprise budgets is to serve as a farm management planning tool for the upcoming crop year. Projected rice crop enterprise budgets were estimated for seven typical rice production systems in the southwestern region of Louisiana, as well as two rice production system alternatives in the northeastern region of the state. For southwest Louisiana, rice enterprise budgets were estimated for: (a) conventional variety rice that is water planted, (b) Clearfield variety rice that is water planted, (c) conventional variety rice that is drill planted, (d) Clearfield variety rice that is drill planted, (e) Clearfield hybrid variety rice that is drill planted, (f) Provisia, and (g) a ratoon rice crop. For northeast Louisiana, rice crop enterprise budgets were estimated for: (a) conventional variety rice that is drill planted and (b) Clearfield variety rice that is drill planted.

A summary of this enterprise budget analysis for rice production systems in southwest Louisiana is presented in Tables 1-4. The values contained in these tables represent tenant operator net returns above total specified production costs per acre. Direct production costs include expenses for custom farming operation charges, drying, fertilizers, chemicals, labor, fuel, repair, and interest on operating capital. Total specified expenses include the direct (variable) production expenses plus fixed costs of ownership on machinery and equipment. The land tenure arrangement assumption that is made in each of the enterprise tables consists of a 70/30 share rental arrangement with the landlord/waterlord financing the irrigation pumping costs. Returns from the rice crop are assumed to be allocated at 70% to the producer and 30% to the landlord/waterlord. Net return estimates for the conventional variety drill-planted production system (Table 1) are based on production cost estimates of \$603.25 per acre of variable costs and \$691.23 per acre for total specified costs. Net return estimates for the Clearfield variety drill-planted production system (Table 2) are based on production cost estimates of \$672.71 per acre of variable costs and \$759.54 per acre for total specified costs. Net return estimates for the Clearfield hybrid variety drill-planted production system (Table 3) are based on production cost estimates of \$791.29 per acre of variable costs and \$873.80 per acre for total specified costs. Net return estimates for the ratoon crop production system (Table 4) are based on production cost estimates of \$159.46 per acre of variable costs and \$182.64 per acre for total specified costs. Also released in 2022 was a spreadsheet based Provisia rice enterprise budget. Net return estimates for the Provisia production system are based on production cost estimates of \$708.38 per acre of variable costs and \$795.21 per acre for total specified costs.

To further assist rice producers in planning for the 2022 crop year, the Projected 2022 Rice Cash Flow Model was developed. The interactive model, programmed in Microsoft® Excel, allows individual rice producers to evaluate the impact on net returns above variable and total (variable plus fixed) production costs for alternative land rental arrangements as well as planting various percentages of available rice base acres. The user enters projected acreage, yield, market price and production cost data for 2022, and the model will automatically generate estimates for net returns above variable and total production costs. Farm program payments relating to the Price Loss Coverage (PLC) Program are also embedded in the model and are included in net return calculations, if triggered.

Table 1. Estimated Net Returns above Total Specified Costs for a Tenant Operator Rice, Conventional Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2022.

Percent	Yield (cwt.)	Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
		Rice Market Price (\$/cwt)								
		\$10.40	\$11.05	\$11.70	\$12.35	\$13.00	\$13.65	\$14.30	\$14.95	\$15.60
----- (\$/A) -----										
80%	56.0	-55	-33	-11	12	34	56	78	101	123
85%	59.5	-30	-6	18	42	66	90	113	137	161
90%	63.0	-4	21	47	72	98	123	149	174	199
95%	66.5	21	48	75	102	129	157	184	211	238
100%	70.0	47	75	104	133	161	190	219	247	276
105%	73.5	72	102	133	163	193	223	254	284	314
110%	77.0	98	130	161	193	225	257	289	320	352
115%	80.5	123	157	190	223	257	290	324	357	391
120%	84.0	149	184	219	254	289	324	359	394	429

Net returns above total specified costs for a tenant operator are calculated here as the grower's share of market revenue less total specified costs paid by the grower. Specified costs include charges for direct costs and fixed machinery costs but exclude charges for general farm overhead and management expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 2. Estimated Net Returns above Total Specified Costs for a Tenant Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2022.

Percent	Yield (cwt.)	Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
		Rice Market Price (\$/cwt)								
		\$10.40	\$11.05	\$11.70	\$12.35	\$13.00	\$13.65	\$14.30	\$14.95	\$15.60
----- (\$/A) -----										
80%	56.0	-180	-158	-136	-113	-91	-69	-47	-24	-2
85%	59.5	-155	-131	-107	-83	-59	-35	-12	12	36
90%	63.0	-129	-104	-78	-53	-28	-2	23	49	74
95%	66.5	-104	-77	-50	-23	4	31	58	86	113
100%	70.0	-78	-50	-21	8	36	65	93	122	151
105%	73.5	-53	-23	8	38	68	98	129	159	189
110%	77.0	-27	4	36	68	100	132	164	195	227
115%	80.5	-2	31	65	98	132	165	199	232	265
120%	84.0	24	59	94	129	164	199	234	269	304

Net returns above total specified costs for a tenant operator are calculated here as the grower's share of market revenue less total specified costs paid by the grower. Specified costs include charges for direct costs and fixed machinery costs but exclude charges for general farm overhead and management expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 3. Estimated Net Returns above Total Specified Costs for a Tenant Operator Rice, Clearfield Hybrid Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2022.

Percent	Yield (cwt.)	Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
		Rice Market Price (\$/cwt)								
		\$10.40	\$11.05	\$11.70	\$12.35	\$13.00	\$13.65	\$14.30	\$14.95	\$15.60
----- (\$/A) -----										
80%	64.0	-231	-205	-180	-154	-129	-103	-78	-52	-27
85%	68.0	-202	-174	-147	-120	-92	-65	-38	-11	17
90%	72.0	-172	-143	-114	-85	-56	-27	2	31	60
95%	76.0	-143	-112	-81	-51	-20	11	42	73	104
100%	80.0	-114	-81	-49	-16	17	50	82	115	148
105%	84.0	-85	-51	-16	19	53	88	122	157	191
110%	88.0	-56	-20	17	53	90	126	162	199	235
115%	92.0	-27	11	50	88	126	164	202	241	279
120%	96.0	2	42	82	122	162	202	242	282	322

Net returns above total specified costs for a tenant operator are calculated here as the grower's share of market revenue less total specified costs paid by the grower. Specified costs include charges for direct costs and fixed machinery costs but exclude charges for general farm overhead and management expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 4. Estimated Net Returns above Total Specified Costs for a Tenant Operator Rice, Ratoon Crop, Southwest Louisiana, 2022.

Percent	Yield (cwt.)	Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
		Rice Market Price (\$/cwt)								
		\$9.60	\$10.20	\$10.80	\$11.40	\$12.00	\$12.60	\$13.20	\$13.80	\$14.40
----- (\$/A) -----										
80%	18.4	2	9	16	24	31	38	46	53	60
85%	19.6	10	18	26	34	41	49	57	65	73
90%	20.7	18	27	35	43	52	60	69	77	85
95%	21.9	27	36	45	53	62	71	80	89	98
100%	23.0	35	45	54	63	73	82	92	101	110
105%	24.2	43	53	63	73	83	93	103	113	123
110%	25.3	52	62	73	83	94	104	115	125	136
115%	26.5	60	71	82	93	104	115	126	137	148
120%	27.6	69	80	92	103	115	126	138	149	161

Net returns above total specified costs for a tenant operator are calculated here as the grower's share of market revenue less total specified costs paid by the grower. Specified costs include charges for direct costs and fixed machinery costs but exclude charges for general farm overhead and management expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

LOUISIANA RICE RESEARCH VERIFICATION PROGRAM - 2022¹

R. Levy and K.A Fontenot

Introduction

Rice remains an extremely important crop in Louisiana agriculture, ranking among the top four in acreage and value. Louisiana per acre rice yields continue to show steady increases due at least in part to research activities funded by the Louisiana Rice Research Board. A key objective of the Louisiana Rice Research Verification Program (LRRVP) is to facilitate the implementation of new technology developed through research efforts into wide scale use in Louisiana rice production. This is critical in maintaining yield and quality increases, as well as increasing the economic viability of Louisiana rice production. With the increasing emphasis on sustainability in rice production, this program strives to encourage the implementation of environmentally sound production practices where appropriate. The LRRVP takes research results directly to the farm and puts them into practice. The verification program is also used to evaluate the economics of production and foster increased profitability in production practices.

The Louisiana Rice Research Verification Program (LRRVP) began in 1997 in three parishes: Allen, Calcasieu, and Jefferson Davis. In 1998, the program was funded and expanded to 11 parishes (Acadia, Avoyelles, East Carroll, Evangeline, Madison, Morehouse, St. Landry, and Vermilion). From 1999 to 2021, 154 fields had been included in the verification program. In 2022, the program included four fields (Figure 1), in the parishes of Acadia, Allen, Evangeline, and St. Landry

The fields were visited on at least a weekly basis by a Specialist, Extension Associate, or County Agent. Production practice recommendations were made by the Specialist, Associate, or Agent. These recommendations included but were not limited to; variety selection, fertilization, weed control, disease control, insect control, and water management to a limited degree. The fields were followed from planting to harvest.

Yield data were collected for each of the fields (Table 1). Yields of the first crop averaged 7050 lb/A (43.5 bbl/A or 157 bu/A) at 12% moisture. This is the 16th highest ranked overall yield of the verification program in the 25 years that the program has been carried out.

Economic data continue to reveal large production cost differences between growers. It also is clear that more needs to be done to help farmers reduce production costs (Table 2). Harvest and water costs remain the most elusive to capture and are often underestimated by all parties involved in the verification field.

The program continues to provide an accurate evaluation of current recommendations and insight into other areas of research. The educational value of the program to all concerned (farmers, researchers, consultants, and extension personnel) increases each year.

We would like to thank the rice producers of Louisiana whose check-off contributions help support this program and the Louisiana Rice Research Board for approving the funding of this project.

We appreciate all the time and effort put forth by the cooperators and County Agents who worked diligently with us week after week to make this project a success.

Finally, we would like to express our gratitude to the following rice scientists for assisting us with their expertise: Felipe Dalla Lana (Plant Pathology), who assisted with the recommendations on disease control; Connor Webster (Weed Control), whose advice on weed control proved extremely useful; Blake Wilson (Entomology), who assisted with insect control; and Adam Famoso (Rice Breeding), who assisted with variety selection and whose lab provided the milling data.

¹ This project is supported in part by funding provided by rice producers through their check-off contributions to the Louisiana Rice Research Board.

Figure 1. Verification Parishes in 2022.

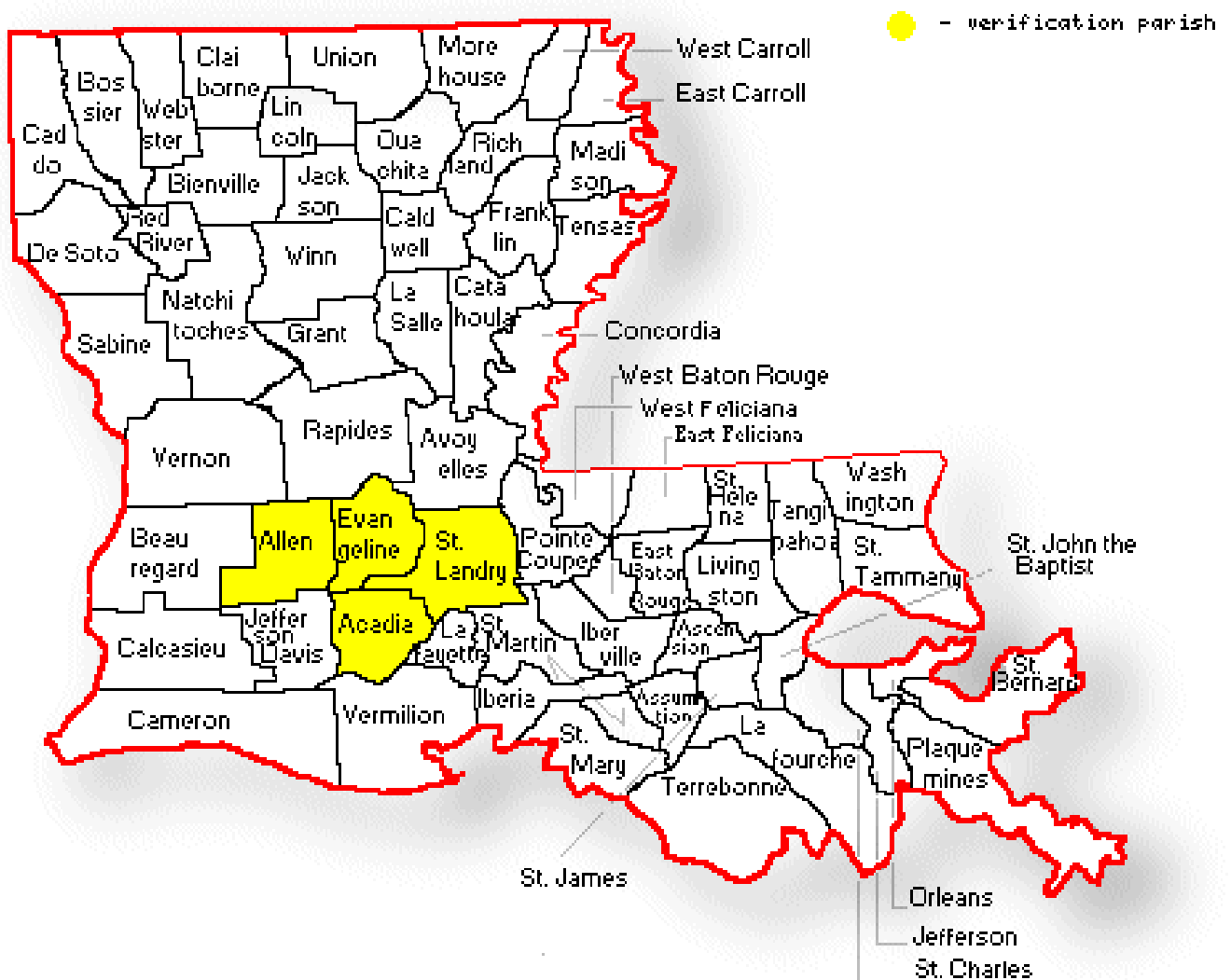


Table 1. Yields of Verification Fields in 2022.

Parish	Acres	Variety	Cwt/A green	Bbl/A green	Bu/A green	Cwt/A dry	Bbl/A dry	Bu/A dry
Acadia	50	CLL17	83.75	51.7	189	78.27	48.3	174
Allen	150	Max Ace	65.35	43.5	145	64.23	40	143
Evangeline	61.6	DynaGro 263L	79.70	49.2	177	74.60	46	165
St. Landry	45	DynaGro 263L	77.76	48	173	77.76	48	173
Total Acres	300							

Table 2. 2022 Louisiana Rice Research Verification Program Yield, Milling, and Economic Summary.

Parish	Variety	Yield at 12% Moisture (cwt/A)	Milling (% Whole / % Total)	Variable Costs (\$/A) ¹	Cost of Production (\$/cwt) ²	Return on Variable Costs (\$/A) ^{1,2}
Acadia	CLL17	78.27	60.45/69.03	681.13	8.71	609.17
Allen	Max Ace	64.23	39.13/67	746.22	11.61	313.57
Evangeline	DynaGro 263L	74.6	47.24/64.4	651.84	8.73	579.06
St. Landry	DynaGro 263L	77.76	47.7/65.7	672.35	8.64	610.69

¹ Costs captured are from land preparation to getting the crop to the truck. They do not include land rent, transporting, drying, storing, or fixed costs.

² This value was obtained using a selling price of \$16.50/cwt.

ACADIA PARISH

The Acadia Parish field was in cooperation with producer Phillip Leonards near the Rayne area along with his father Mr. Jerry Leonards. This was Mr. Leonards' first year in the verification program, although his father was a past participant. The cooperating extension agent was Jeremy Hebert.

This 50-acre field was burned down with 25 oz of Roundup Max and ½ oz of First-Shot herbicide and planted early under ideal soil moisture conditions. CLL17 seed treated with Dermacor X-100, and Zinc, was drill seeded on March 3 at a rate of 50 lbs/A. Fertilization and management were recommended and carried out according to AgCenter soil test recommendations and plant growth stages. The stand was excellent and very uniform. Basic fertilizer consisting of 200 lbs/A was applied. Newpath and Permit herbicides were applied later on the field. Tillering was excellent and plant growth was vigorous through all growth stages, encountering no set-back.

A total of 164 lbs/acre of actual nitrogen along with 36 lbs/acre of phosphorous, and 72 lbs/acre of potash were applied per acre on this field. During weekly visits the field was observed and scouted for any growth issues as well as disease and/or insect issues that may have required management decisions. Disease nor insect pressure ever reached any levels requiring any management decisions for treatment.

After a total growth period of 148 days from date of planting to harvest the field was harvested on July 29. The verification field was slow drained for harvest on July 19, with harvest taking place on July 29. Preliminary weights indicate this field had an outstanding yield from the excellent growing conditions. This field yielded 8,375 lbs per acre green or 51.7 bbls per acre. When adjusted to 12% moisture the yield is 7,827 lbs per acre or 48.3 dry bbls or 174 bushels per acre. Milling values were down on most fields this year in comparison to previous years, however the Acadia field boasted the highest milling values of 60.45/69.03.

ACADIA PARISH

Cooperator: Phillip Leonards

Agent: Jeremy Hebert

Consultant:

Field Size: 50 acres

Cultural Practices

Variety: CLL17

Method of Planting: Drill

Water Management: Delayed flood

Seeding Rate: 55 lb/A

Date of Planting: 3/3/22

Date of Emergence: 3/21/22

Growth and Development

Stage	Observation Date
Green Ring	5/17
PD	5/31
50% Heading	6/21
Drain for Harvest	7/19
Harvest	7/29

Yield, Milling, and Economic Data

	Yield at 12% Moisture (cwt/A)	Milling Yield (% Whole / % Total)	Variable Costs (\$/A) ¹	Cost of Production (\$/cwt) ¹	Return on Variable Costs (\$/A) ^{1,2}
First Crop	78.27	60.45/69.03	681.13	8.71	609.17

¹ Costs captured are from land preparation to getting the crop to the truck. They do not include land rent, transportation, drying, storage, or fixed costs.

² This value was obtained using a selling price of \$ 16.50/cwt.

Fertilization

Date	Source	Rate (lb/A)	N (lb/A)	P (lb/A)	K (lb/A)	S (lb/A)	Zn (lb/A)
3/5	7-18-36	200	14	35	72	0	0
4/23	46%	200	92	0	0	0	0
5/16	46%	125	58	0	0	0	0
Total			164	36	72	0	0

Weed Management

Weeds Present	Date of Treatment Decision	Recommendation
Burndown	Early Feb.	25 oz Roundup + .5 oz Firstshot
	3/5	8 oz command
Grasses & Sedges	4/22	5 oz Newpath + .5 oz Permit

Disease Management

Diseases Present	Date of Treatment Decision	Recommendation

Insect Management

Insects Present	Date of Treatment Decision	Recommendation
	Seed Treatment	Dermacor X100

Comments:

Item	Description	Cost/A	Acres		Total
Herbicide Burndown	Fall Appl. 2 oz Valor + 2 oz Venturi surfactant	\$9.96	50		\$498.00
Application cost- herbicide	Ground Rig Custom application	\$8.50	50		\$425.00
Field Work, Discing etc.	Disc & Cultivate 290 HP Tractor	\$21.05	50		\$1,052.50
Water leveling, Bed leveling etc	290 HP Tractor & 20 ft. blade scraper	\$12.50	50		\$625.00
Ditching	150 HP Tractor + Ditcher	\$1.38	50		\$69.00
Seed	50 #/A of CLL17	\$57.50	50		\$2,875.00
Seed treatment (if separate)	Dermacor X-100 + Zn	\$16.12	50		\$806.00
Planting	250 Hp Tractor and 20 Ft.No Till Drill	\$14.98	50		\$749.00
Fertilizer	200 #/A 7-18-36 Fertilizer	\$90.00	50		\$4,500.00
Application cost - fertilizer	Ground Rig Custom application	\$10.00	50		\$500.00
Herbicide	8 oz Command impregnated on fertilizer	\$9.06	50		\$453.00
Application cost herb	N/A (impregnated on fertilizer)				\$0.00
Herbicide	32 oz/A Roundup Max + 5 oz/A Firstshot + drift control	\$9.50	50		\$475.00
Application cost herb	Self Propelled Ground Rig 75 ft boom	\$1.83	50		\$91.50
Herbicide	5 oz/A Newpath + .5 oz/A Permit + drift control + oil	\$35.38	50		\$1,769.00
Application cost - Herbicide	Ground Rig Custom application	\$8.50	50		\$425.00
Fertilizer	200 #/A Urea + Agrotain	\$102.50	50		\$5,125.00
Application cost - fertilizer	Aerial Application	\$12.34	50		\$617.00
Fertilizer	125 #/A Urea	\$55.92	50		\$2,796.00
Application cost-fertilizer	Aerial Application	\$9.86	50		\$493.00
Fertilizer					\$0.00
Application cost-fertilizer					\$0.00
Fungicide					\$0.00
Application cost-fungicide					\$0.00
Fungicide					\$0.00
Application cost -fungicide					\$0.00
Insecticide					\$0.00
Application cost -insecticide					\$0.00
Harvest -cart 1 w tractor	From AgCenter Budget	\$5.96	50		\$298.00
Harvest - combine 1	From AgCenter Budget	\$47.80	50		\$2,390.00
Water costs	From AgCenter Budget	\$140.49	50		\$7,024.50
					\$0.00
First Crop Totals		\$681.13			\$34,056.50

Ratoon Crop

Item	Description	Cost/A	Acres		Total
Ratoon Crop Manipulation					\$0.00
Ratoon Crop Fertilizer					\$0.00
Ratoon Fertilizer Application Cost					\$0.00
Ratoon Crop Water Cost					\$0.00
Ratoon Crop Harvest Cart 1					\$0.00
Ratoon crop Harvest Combine 1					\$0.00
Ratoon Crop Totals		\$0.00			\$0.00
	Total for 1st Crop & Ratoon	\$681.13			\$34,056.50

ALLEN PARISH

The Allen Parish verification field was located just West of Kinder, LA. The cooperator was Eric Savant, a second-time participant in the verification program. Assisting in all the field visits and recommendations were Evangeline Parish, county agent, Todd Fontenot, and Ruston Gilder, crop consultant and field representative for Crowley Grain.

A burndown application of 24 oz of Roundup and 1.65 oz of Sharpen herbicide was applied to the field in mid-February. The field was drill planted with 41 lbs/acre of Max-Ace seed on March 4 & 5. Seed treatments included, Dermacor X-100 and a fungicide, Emergence was very good, the stand was uniform however it included a heavy infestation of red rice, which was anticipated by the producer.

Basic fertilizer consisting of 100 lbs/acre of 9-23-30 was applied on April 8, followed by an early application of 11 oz. of High Card herbicide by ground rig on April 16. A second application of 15 oz of High Card + 1.5 oz of Gambit was applied on April 30, as the rice was tillering. The field did exhibit some herbicide, “white flashing” but appeared to recover very well. The field fertilization and water management followed AgCenter guidelines.

At Green Ring stage of growth 100lbs/acre of Urea + 100 lbs/acre of 9-23-30 was applied for first crop production as well as anticipated ratoon crop production. This field grew well under good management and conditions. Although managed the same, there were major differences in plant growth and vigor when comparing the “cut” areas of the field to the “fill” areas. Differences in tillering, plant height, root growth, and panicle length and size were evident upon plant comparisons. The plants began the “heading” stage around June 14. During later heading stages, another problematic situation developed. This issue was the “locking up” of heads in the sheath when trying to emerge, a situation which could and did affect overall yield.

The Allen parish field had a total nutrient application of 156 lbs actual nitrogen per acre, 46 lbs/acre of phosphorous, and 60 lbs/acre of potash. The differences in growth and vigor were visible on the cut and fill areas of the field throughout the growing season. Poultry litter was applied this spring and should assist crop production especially in the cut areas, in the years to come.

This field did not have any problems with disease or insect infestations during the different growth stages which required any additional management decisions. After 121 days of growth a slow drain of the field was initiated on July 16. Delayed by afternoon thunderstorms, harvest began 21 days later, on August 6th, giving the field 155 days of growth and dry down from planting to harvest.

Harvest was spread over several days due to persistent scattered rain showers at that time. The Max-Ace had a green yield of 7,059 lbs/acre or 43.57 bbl/A @ 17.3 % moisture, which when adjusted to 12% was 6,424 lbs/acre or 39.6 bbl/A, or 143 bu/A.

Although the field was fertilized for ratoon crop, the field was not ratoon cropped. Wet weather persisted at harvest and prevented rolling all the stubble in the field, and the stubble re-growth was not vigorous nor was it uniform throughout the field. The field will be managed for crawfish production this fall and spring of 2023.

ALLEN PARISH

Cooperator: Eric Savant
Agent: Todd Fontenot
Consultant: Ruston Gilder
Field Size: 150

Cultural Practices

Variety: Max Ace
Method of Planting: Drill
Water Management: Delayed Flood

Seeding Rate: 41lb/A
Date of Planting: 3/4-5/22
Date of Emergence: 3/25/22

Growth and Development

Stage	Observation Date
Green Ring	5/17
PD	5/24
50% Heading	6/21
Drain for Harvest	7/16
Harvest	8/6-8/8

Yield, Milling, and Economic Data

	Yield at 12% Moisture (cwt/A)	Milling Yield (% Whole / % Total)	Variable Costs (\$/A) ^{1,3}	Cost of Production (\$/cwt) ^{1,3}	Return on Variable Costs (\$/A) ^{1,2}
First Crop	64.23	39.1/67	746.22	11.61	313.57
Total	64.23		757.23	7.97	488.74

¹ Costs captured are from land preparation to getting the crop to the truck. They do not include land rent, transportation, drying, storage, or fixed costs.

² This value was obtained using a selling price of \$16.50/cwt.

Fertilization

Date	Source	Rate (lb/A)	N (lb/A)	P (lb/A)	K (lb/A)	S (lb/A)	ZN (lb/A)
4/8	9-23-30	100	9	23	30	0	0
4/30	46%	200	92	0	0	0	0
5/19	9-23-30	100	9	23	30	0	0
5/19	46%	100	46	30	30	0	0
Totals			156	46	60	0	0

Weed Management

Weeds Present	Date of Treatment Decision	Recommendation
Burndown	2/5	24 oz Roundup Max + 1.65 oz Sharpen
	4/16	11 oz High Card
	4/30	15 oz High Card + 1.5 oz Gambit

Disease Management

Diseases Present	Date of Treatment Decision	Recommendation

Insect Management

Insects Present	Date of Treatment Decision	Recommendation
RWW Prevention	3/4-5/22	Dermacor X-100

Item	Description	Cost/A	Acres		Total
Herbicide Burndown	24 oz Roundup + 1.65 oz Sharpen	\$26.93	150		\$4,039.50
Application cost- herbicide	Ground Rig Applilcation	\$9.00	150		\$1,350.00
Field Work, Discing etc.	34 Ft. Vertical Till	\$9.30	150		\$1,395.00
Water leveling, Bed leveling etc	46 Ft. Harrow	\$8.83	150		\$1,324.50
Ditching	150 HP Tractor + Ditcher	\$1.38	150		\$207.00
Seed	41 #/A Max Ace	\$123.00	150		\$18,450.00
Seed treatment (if separate)					\$0.00
Planting	175 HP Tractor + 20 Ft. Drill	\$11.75	150		\$1,762.50
Fertilizer	100 #/A 9-23-30	\$51.00	150		\$7,650.00
Application cost - fertilizer	Aerial Application	\$9.52	150		\$1,428.00
Herbicide	11 oz/A High Card	\$14.61	150		\$2,191.50
Application cost herb	Aerial Application	\$12.68	150		\$1,902.00
Herbicide	15 oz/A High Card + 1.5 oz/A Gambit	\$44.54	150		\$6,681.00
Application cost herb	Ground Rig	\$9.00	150		\$1,350.00
Fertilizer	200 #/A Urea	\$99.50	150		\$14,925.00
Application cost - fertilizer	Aerial Application	\$13.84	150		\$2,076.00
Fertilizer	100 #/A 9-23-30 + 100 #/A Urea	\$93.25	150		\$13,987.50
Application cost - fertilizer	Aerial Application	\$13.84	150		\$2,076.00
Fertilizer					\$0.00
Application cost-fertilizer					\$0.00
Fertilizer					\$0.00
Application cost-fertilizer					\$0.00
Fungicide					\$0.00
Application cost-fungicide					\$0.00
Fungicide					\$0.00
Application cost -fungicide					\$0.00
Insecticide					\$0.00
Application cost -insecticide					\$0.00
Harvest -cart 1 w tractor	From Agcenter Budget	\$5.96	150		\$894.00
Harvest - combine 1	From Agcenter Budget	\$47.80	150		\$7,170.00
Water costs	From Agcenter Budget	\$140.49	150		\$21,073.50
					\$0.00
First Crop Totals		\$746.22			\$111,933.00

Ratoon Crop

Item	Description	Cost/A	Acres		Total
Ratoon Crop Manipulation					\$0.00
Ratoon Crop Fertilizer					\$0.00
Ratoon Fertilizer Application Cost					\$0.00
Ratoon Crop Water Cost					\$0.00
Ratoon Crop Harvest Cart 1					\$0.00
Ratoon crop Harvest Combine 1					\$0.00
Ratoon Crop Totals		\$0.00			\$0.00
	Total for 1st Crop & Ratoon	\$0.00			\$111,933.00

EVANGELINE PARISH

The Evangeline Parish producer cooperating in the 2022 verification program was Mr. Alex Sylvester of the Whiteville community. Another rookie participant, Alex was encouraged to participate by his father, Jefferey Sylvester another former participant from previous years. Todd Fontenot, Evangeline County Agent also assisted with the field visits and decision-making processes on this field.

The field that Alex selected for the program had extensive cultivation and leveling work performed on it in the fall of 2021. These management practices greatly improved the ability to control water levels, as well as get flood water on and off the field in a very timely manner.

Alex water planted 70 lbs/acre of Dynagro 263L seed treated with AV1011 bird repellent, and Dermacor XL insecticide on this 61.6 acre field on March 29. Early rains stretched the young rice requiring close flush and flood management early on to prevent stand loss from plants sticking to the soil and from early scum formation. Plants recovered quickly and vigorously to early flushing and fertilizer applications.

One gal./A Propanil and $\frac{3}{4}$ oz./A Permit were applied for early weed control. This was followed later in the season with 24 oz of Ricestar for persistent barnyard-grass and sprangletop.

A total of 161 lbs/acre of Nitrogen went into this field which grew vigorously after the slow start from early season cool temperatures. No phosphorous or potash fertilizer was added as soil tests did not recommend any. Stand was uniform and tillering was excellent throughout the field. Plants had excellent color, height, and well-developed root systems. Plants reached green ring on June 1, and 50% heading on June 29.

No significant insect or disease pressure was observed at any time during the growing season to warrant any management decisions for control. At harvest a very few pockets of sheath blight were observed in some of the areas that had persistent grass issues.

This field, as were many others, was affected by persistent showers and rain during the growing season but especially from flowering through the harvest stage. Draining of the field started on July 20, after 112 days of growth. Drying of the field was hampered by showers keeping the heavy clay field wet. Harvest started on August 10 but took several days, due to persistent showers.

Yield from this field was approximately 7,970 lbs/acre or 49.2 bbls/A at 18.2 % moisture, and when adjusted to 12% totaled, 7,460 lbs/acre or 46 bbl/A, or 165 bu/A.

EVANGELINE PARISH

Cooperator: Alex Sylvester

Agent: Todd Fontenot

Consultant:

Field Size: 61.6 acres

Cultural Practices

Variety: DynaGro 263L

Method of Planting: Water planted

Water Management: Delayed flood

Seeding Rate: 70 lb/A

Date of Planting: 3/29/22

Date of Emergence: 4/9/22

Growth and Development

Stage	Observation Date
Green Ring	5/24
PD	6/1
50% Heading	6/29
Drain for Harvest	7/20
Harvest	8/10

Yield, Milling, and Economic Data

	Yield at 12% Moisture (cwt/A)	Milling Yield (% Whole / % Total)	Variable Costs (\$/A) ¹	Cost of Production (\$/cwt) ¹	Return on Variable Costs (\$/A) ^{1,2}
First Crop	74.60	47.24/64.4	651.84	8.73	579.06

¹ Costs captured are from land preparation to getting the crop to the truck. They do not include land rent, transportation, drying, storage, or fixed costs.

² This value was obtained using a selling price of \$16.50/cwt.

Fertilization

Date	Source	Rate (lb/A)	N (lb/A)	P (lb/A)	K (lb/A)	S (lb/A)	ZN (lb/A)
4/30	46%	200	92	0	0	0	0
5/28	46%	150	69	0	0	0	0
Season Total			161	0	0	0	0

Weed Management

Weeds Present	Date of Treatment Decision	Recommendation
Grasses, sedge, duck salad, red rice	4/30	1 Gal. Propanil +.75 oz Permit
Barnyard Grass & Sprangletop	4/27	24 oz Ricestar + 1 % crop oil

Disease Management

Diseases Present	Date of Treatment Decision	Recommendation

Insect Management

Insects Present	Date of Treatment Decision	Recommendation
	3/29	Dermacor X-100

Comments:

Item	Description	Cost/A	Acres		Total
Herbicide Burndown					\$0.00
Application cost- herbicide					\$0.00
Field Work, Discing etc.	470 HP Tractor + 45 Fr. Diamond Disc 2X	\$16.50	61.6		\$1,016.40
Water leveling, Bed leveling etc	470 HP Tractor + 35 Ft. Disc	\$21.05	61.6		\$1,296.68
Ditching	150 HP Tractor + Ditcher 2X	\$2.76	61.6		\$170.02
Seed	70 #/A DynaGro 263L + AV 1011 + Dermacor X-100	\$131.02	61.6		\$8,070.83
Seed treatment (if separate)					\$0.00
Planting	Aerial Application- Water Planted	\$8.89	61.6		\$547.62
Fertilizer	200 #/A Urea	\$94.00	61.6		\$5,790.40
Application cost - fertilizer	Aerial Application	\$15.42	61.6		\$949.87
Herbicide	1 Gal/A Propanil + .75 oz Permit	\$31.85	61.6		\$1,961.96
Application cost herb	Aerial Application	\$8.97	61.6		\$552.55
Herbicide	24 oz/A Ricestar + 1 % Crop oil	\$45.00	12		\$540.00
Application cost herb	Aerial Application	\$16.42	12		\$197.04
Fertilizer	150 #/A Urea	\$63.00	61.6		\$3,880.80
Application cost - fertilizer	Aerial Application	\$10.21	61.6		\$628.94
Fertilizer					\$0.00
Application cost - fertilizer					\$0.00
Fertilizer					\$0.00
Fungicide					\$0.00
Application cost -fungicide					\$0.00
Insecticide					\$0.00
Application cost -insecticide					\$0.00
Harvest -cart 1 w tractor	From Agcenter Budget	\$5.96	61.6		\$367.14
Harvest - cart 2 w tractor					\$0.00
Harvest - combine 1	From Agcenter Budget	\$47.80	61.6		\$2,944.48
Harvest - combine 2					\$0.00
Water costs	From Agcenter Budget	\$132.99	61.6		\$8,192.18
					\$0.00
First Crop Totals		\$651.84	31		\$37,106.91

Ratoon Crop

Item	Description	Cost/A	Acres		Total
Ratoon Crop Manipulation					\$0.00
Ratoon Crop Fertilizer					\$0.00
Ratoon Fertilizer Application					\$0.00
Ratoon Crop Water Cost					\$0.00
Ratoon Crop Harvest Cart 1					\$0.00
Ratoon crop Harvest Combine 1					\$0.00
Ratoon Crop Totals					\$0.00
	Total for 1st Crop & Ratoon	\$651.84	31		\$37,106.91

ST. LANDRY PARISH

The St. Landry parish growers were a father & son team, Mr. Stephen Quebedeaux and his son Kyle Quebedeaux, from the Prairie Ronde community. This was their first time participating in the verification program. Also assisting in the decision making on this field were county agent Vince Deshotel, and Marcus Guidroz, crop consultant and Nutrien field representative.

The Quebedeaux's 45-acre field was drill planted after burndown applications with 50 lbs/acre of Dynagro 263L seed on April 12. The plant bed had already been fertilized with 160 lbs/acre of 0-13-39-7 basic fertilizer. On April 20 plants were just emerging in the drill rows, with good emergence seen on April 22.

Weed competition was recovering from burndown and an application of 1 gal/A of Propanil + 10 oz of Command herbicide was made. Persistent Barnyard Grass and Sprangletop grasses on some small ridges in the field necessitated a May 12 application of 24 oz Ricestar with crop oil, followed by 200 lbs/acre of Urea fertilizer. The stand of rice remained uniform and vigorous in growth with very good tillering. The plants reached the green ring stage on May 25. A Clincher application was made in the first week of June for the same problem weeds seen on the ridges, which we now pushed a little deeper flood on.

Plants in the field reached 50% heading around June 29, with the stand still very uniform in head emergence. There were a very few small areas of sheath blight disease seen mainly on the edges of the field. The decision was made not to apply a fungicide due to the small amount of disease. No blast was seen in the rice, although some blast lesions were observed on grasses on the edges of the field. Rice stink bug pressure was almost non-existent on this field.

During the heading phase of the growing season, plants were observed to be very uniform in growth and panicle development across the entire field. There were very few observed blanks in the florets, nothing to indicate any excessive insect or disease pressure anywhere in the field.

The decision to drain the field was made on July 27, which gave the plants 106 days of growth from the planting date of April 12. After drying for 21 days, the field and plants dried down very rapidly as this area did not receive the spotty showers that hampered so many growers. After a total growing and drying down season of 127 days, harvest began on August 17.

Yield on this field was 7,776 lbs/acre or 48 bbls/A, or 173 bu/A, at an average 12% moisture, with a milling yield later determined at 47.7/65.7. Due to their 12% readings on harvest moisture, there was no need to adjust yields from a green weight.

ST. LANDRY

Cooperator: Steve & Kyle Quebedeaux
Agent: Vince Deshotel
Consultant: Marcus Guidroz
Field Size: 45 acres

Cultural Practices

Variety: DynaGro 263L
Method of Planting: Drill Planted
Water Management: Delayed Flood

Seeding Rate: 50 lbs/acre
Date of Planting: 4/12
Date of Emergence: 4/22

Growth and Development

Stage	Observation Date
Green Ring	5/25
PD	6/1
50% Heading	6/29
Drain for Harvest	7/27
Harvest	8/17

Yield, Milling, and Economic Data

	Yield at 12% Moisture (cwt/A)	Milling Yield (% Whole / % Total)	Variable Costs (\$/A) ¹	Cost of Production (\$/cwt) ¹	Return on Variable Costs (\$/A) ^{1,2}
Total	77.76	47.57/65.7	672.35	8.64	610.69

¹ Costs captured are from land preparation to getting the crop to the truck. They do not include land rent, transportation, drying, storage, or fixed costs.

² This value was obtained using a selling price of \$16.50/cwt.

Fertilization

Date	Source	Rate (lb/A)	N (lb/A)	P (lb/A)	K (lb/A)	S (lb/A)	Zn (lb/A)
4/12	0-13-39-7	160	0	21	63	11	0
5/13	46%	200	92	0	0	0	0
6/1	46%	125	58	0	0	0	0
Season Total			138	21	63	11	0

Weed Management

Weeds Present	Date of Treatment Decision	Recommendation
Sedge, grasses, jointvetch, hemp sesbania, dayflower, purple ammannia	Burndown	24 oz Roundup + 1 oz Sharpen
	4/28	1 Gal. Propanil + 10 oz Command
	5/12	24 oz Ricestar + 1% crop oil
	6/3	21 oz Clincher

Disease Management

Diseases Present	Date of Treatment Decision	Recommendation

Note: Recommendation made due to severe kernel smut pressure in adjoining field last season.

Insect Management

Insects Present	Date of Treatment Decision	Recommendation
	4/12	Dermacor X-100

Note:

St. Landry Parish

Item	Description	Cost/A	Acres		Total
Herbicide Burndown	24 oz/A Roundup + 1 oz/A Sharpen	\$16.91	45		\$760.95
Application cost- herbicide	Ground Rig 90 ft Boom	\$2.62	45		\$117.90
Field Work, Discing etc.	N/A No Till Stale Bed				\$0.00
Water leveling, Hipping rows					\$0.00
Ditching	150 HP Tractor + Ditcher	\$1.38	45		\$62.10
Seed	50 #/A DynaGro 263L	\$79.15	45		\$3,561.75
Seed treatment (if separate)					\$0.00
Planting	360 HP Tractor + 40 Ft. NO Till Drill	\$11.75	45		\$528.75
Fertilizer	160 #/A 0-13-39-7	\$70.00	45		\$3,150.00
Application cost - fertilizer	Tractor & Spreader Cart	\$6.50	45		\$292.50
Herbicide	1 Gal/A Propanil + 10 oz/A Command	\$42.64	45		\$1,918.80
Application cost herb	Ground Rig 90 ft boom	\$2.62	45		\$117.90
Herbicide	24 oz/A Ricestar + 1 % Crop Oil	\$38.35	45		\$1,725.75
Application cost herb	Ground Rig 90 ft boom	\$2.62	45		\$117.90
Herbicide	21 oz/A Clincher	\$35.74	45		\$1,608.30
Application cost - Herbicide	Ground Rig 90 ft boom	\$2.62	45		\$117.90
Fertilizer	200 #/A Urea	\$92.00	45		\$4,140.00
Application cost - fertilizer	Aerial Application	\$17.20	45		\$774.00
Fertilizer	100 #/A Urea	\$46.00	45		\$2,070.00
Application cost-fertilizer	Aerial Application	\$10.00	45		\$450.00
Fertilizer					\$0.00
Application cost-fertilizer					\$0.00
Fungicide					\$0.00
Application cost-fungicide					\$0.00
Fungicide					\$0.00
Application cost -fungicide					\$0.00
Insecticide					\$0.00
Application cost -insecticide					\$0.00
Harvest -cart 1 w tractor	From AgCenter Budgets	\$5.96	45		\$268.20
Harvest - combine 1	From AgCenter Budgets	\$47.80	45		\$2,151.00
Water costs	From AgCenter Budgets	\$140.49	45		\$6,322.05
					\$0.00
First Crop Totals		\$672.35			\$30,255.75

Ratoon Crop

Item	Description	Cost/A	Acres		Total
Ratoon Crop Manipulation					\$0.00
Ratoon Crop Fertilizer					\$0.00
Ratoon Fertilizer Application Cost					\$0.00
Ratoon Crop Water Cost					\$0.00
Ratoon Crop Harvest Cart 1					\$0.00
Ratoon crop Harvest Combine 1					\$0.00
Ratoon Crop Totals		\$0.00			\$0.00
	Total for 1st Crop & Ratoon	\$672.35			\$30,255.75

Table 1 **Summary of Management Practices and Economic Data per Acre for 2022 Verification Fields**

Parish	Planting Method	Rice Variety	Planting Date	Water Mgmt.	Seed Costs \$/A	Planting Costs \$/A	Herbicide Costs \$/A	Herbicide App. Costs \$/A
Acadia	Drill	CLL17	3/3	Delayed	57.50	14.98	63.90	18.83
Allen	Drill	Max Ace	3/4	Delayed	132.00	9.80	43.36	10.28
Evangeline	Water	DynaGro 263L	3/29	Delayed	131.02	8.89	76.85	25.39
St. Landry	Drill	DynaGro 263L	4/12	Delayed	79.15	11.75	133.64	10.48

Table 1 cont. **Summary of Management Practices and Economic Data per Acre for 2022 Verification Fields**

Parish	Fertilizer Costs \$/A	Fertilizer App. Costs \$/A	Fungicide Costs \$/A	Fungicide App. Costs \$/A	Insecticide Costs \$/A ¹	Insecticide App. Costs \$/A	Water Costs \$/A
Acadia	248.42	32.20	N/A	N/A	N/A	N/A	140.49
Allen	243.75	37.20	N/A	N/A	N/A	N/A	140.49
Evangeline	157.00	25.63	N/A	N/A	N/A	N/A	132.99
St. Landry	208.00	33.70	N/A	N/A	N/A	N/A	140.49

Summary of Management Practices and Economic Data for 2022 Verification Fields

Table 1 cont.

Parish	Harvest Date	Yield at 12% Moisture ¹			Milling % % Whole/% Total	Variable Costs (\$/A)	Cost of Production (\$/cwt) ²	Return on Variable Costs (\$/A) ²
		cwt	bbls	bu				
Acadia	7/29	78.27	48.3	174	60.45/69.03	681.13	8.71	609.17
Allen	8/6-8/10	64.23	40	143	39.13/67	746.22	11.61	313.57
Evangeline	8/10	74.60	46	165	47.24/65.7	651.84	8.73	579.06
St. Landry	8/17	77.76	48	173	47.7/65.7	672.35	8.64	610.69

¹ Value does not include Insecticide Seed Treatments

² Value obtained using selling price of \$16.50/cwt

Table 3. Twenty Five-Year Louisiana Rice Research Verification Summary.

1998 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Acadia*	53.0	32.8	118.1	5,314
Avoyelles	32.5	42.9	154.4	6,950
Calcasieu*	60.0	34.1	122.8	5,524
East Carroll	33.9	41.1	148.0	6,658
Evangeline	33.0	42.9	154.4	6,950
Jefferson Davis*	61.8	37.3	134.3	6,043
Madison	36.6	39.0	140.4	6,318
Morehouse	63.0	33.8	121.7	5,476
St. Landry	37.1	38.2	137.5	6,188
Vermilion	16.7	29.4	105.8	4,763
TOTALS	427.6	37.2	133.7	6,018

* Yield includes second crop.

1999 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Acadia*	31.1	37.4	134.6	6,059
Avoyelles	32.5	46.6	167.8	7,549
Calcasieu	49.3	34.6	124.6	5,605
Catahoula	30.4	33.4	120.2	5,411
East Carroll	36.1	47.0	169.2	7,614
Evangeline	22.3	43.1	155.2	6,982
Jefferson Davis*	26.6	30.8	110.9	4,990
Madison	38.1	39.0	140.4	6,318
St. Landry	30.1	38.8	139.7	6,286
Vermilion	23.8	36.5	131.4	5,913
TOTALS	320.3	38.7	139.4	6,273

* Yield includes second crop.

Table 3. Continued.

2000 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Acadia	53.3	39.4	141.8	6,383
Avoyelles	63.2	36.7	132.1	5,945
Calcasieu	22.1	25.1	90.4	4,066
Catahoula	39.6	36.4	131.0	5,897
East Carroll	45.1	49.1	176.8	7,956
Evangeline	19.9	38.2	137.5	6,188
Jefferson Davis	30.6	26.7	96.1	4,325
Morehouse	27.7	28.3	101.9	4,585
St. Landry	70.7	39.2	141.1	6,350
Vermilion*	21.6	37.7	135.7	6,107
TOTALS	393.8	35.7	128.4	5,780

* Yield includes second crop.

2001 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Acadia*	60.6	50.8	182.9	8,230
Allen	41.6	35.1	126.4	5,686
Avoyelles	63.2	38.1	137.2	6,172
Calcasieu*	61.9	39.4	142.0	6,388
Concordia	79.6	36.1	130.1	5,853
Evangeline*	20.8	52.7	189.7	8,538
Jefferson Davis*	21.6	57.3	206.4	9,289
Richland	65.9	46.0	165.5	7,447
St. Landry*	40.6	51.1	184.0	8,282
Vermilion*	33.3	52.4	188.7	8,493
TOTALS	489.1	45.9	165.3	7,438

* Yield includes second crop.

Table 3. Continued.

2002 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Acadia*	38.4	49.8	179.3	8,068
Allen*	25.1	46.0	165.6	7,452
Avoyelles	37.4	49.9	179.6	8,084
Beauregard*	49.5	53.1	191.2	8,602
Calcasieu*	41.4	42.4	152.6	6,869
Concordia	67.6	48.2	173.5	7,808
Evangeline	42.0	37.6	135.4	6,091
Jefferson Davis*	31.7	45.0	162.0	7,290
Richland	35.8	42.1	151.5	6,819
St. Landry	32.7	48.8	175.7	7,906
Vermilion*	32.0	49.8	179.4	8,072
TOTALS	433.6	46.6	167.8	7,551

* Yield includes second crop.

2003 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Acadia	57.2	44.0	158.4	7,128
Allen*	35.7	46.1	166.0	7,469
Avoyelles	37.4	50.1	180.4	8,116
Beauregard*	45.7	48.7	175.2	7,884
Concordia	79.5	49.2	177.1	7,970
Evangeline*	48.4	44.5	160.2	7,209
Jefferson Davis*	52.9	28.7	103.3	4,649
Richland	40.2	44.7	160.8	7,234
St. Landry*	32.7	61.1	220.0	9,898
Vermilion*	33.0	40.0	144.0	6,480
TOTALS	462.7	45.7	164.5	7,404

* Yield includes second crop.

Table 3. Continued.

2004 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Allen*	53.2	40.9	147.1	6,620
Avoyelles	33.3	32.8	118.0	5,307
Beauregard*	21.8	42.5	153.3	6,899
Concordia	82.3	36.0	130.0	5,843
East Carroll	54.8	45.8	165.0	7,427
Evangeline	30.7	34.8	125.2	5,638
Jefferson Davis*	42.3	38.5	138.6	6,237
Natchitoches	47.2	44.1	158.8	7,144
St. Landry*	60.1	65.1	234.3	10,543
Vermilion*	30.0	42.1	151.6	6,824
TOTALS	455.7	42.3	152.2	6,848

* Yield includes second crop.

2005 Verification Acres and Yields*				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Acadia	28.9	39.6	143.8	6,427
Allen	76.7	25.6	92.0	4,140
Avoyelles	32.1	35.9	129.3	5,819
Calcasieu	49.0	51.0	184.0	8,282
Concordia	60.5	43.0	156.0	7,003
East Carroll	30.4	47.9	172.7	7,771
Evangeline	30.0	37.1	133.6	6,014
Jefferson Davis	39.2	32.5	117.0	5,264
Natchitoches	30.0	43.3	156.0	7,022
Richland	47.4	49.2	177.2	7,974
St. Landry	61.7	47.5	170.9	7,689
Vermilion	52.8	40.9	147.3	6,631
TOTALS	538.7	41.1	148.3	6,670

* No ratoon crop was harvested in the verification program in 2005.

Table 3. Continued.

2006 Verification Acres and Yields*				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Avoyelles	41.8	43.0	155.0	6,972
Concordia	54.7	50.8	183.0	8,237
East Carroll	60.4	44.5	150.0	7,210
Evangeline	29.4	32.3	116.0	5,227
Jefferson Davis	21.5	43.8	157.8	6,000
St. Landry	40.9	36.8	132.5	5,962
Vermilion	29.6	37.0	133.3	7,100
West Carroll	50.1	53.1	191.2	8,603
TOTALS	328.4	43.4	156.4	7,040

* No ratoon crop was harvested in the verification program in 2005.

2007 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Avoyelles	40.9	56.7	204	9,187
Concordia	53.8	53.6	193	8,680
East Carroll	23.0	49.0	176	7,917
Evangeline – St. Landry	33.9	50.1	180	8,122
Jefferson Davis*	38.9	55.8	201	9,046
Vermilion*	36.6	46.0	166	7,451
West Carroll	40.2	45.4	164	7,356
TOTALS	267.3	51.2	184	8,293

* Yield includes second crop.

2008 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Avoyelles	40.9	47	170	7,657
Calcasieu*	55.1	51	183	8,247
Concordia	54.7	44	160	7,178
Evangeline	46.4	42	152	6,840
Madison	41.5	51	182	8,208
Jefferson Davis*	37.7	52	189	8,481
St. Landry	60.2	48	173	7,801
Vermilion*	51.1	70	252	11,359
TOTALS	387.6	51	183	8,228

* Yield includes second crop.

Table 3. Continued.

2009 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Acadia*	56.6	70.9	255.3	11,489
Avoyelles	28.6	50.7	182.5	8,214
Calcasieu*	41.7	58.1	209.3	9,418
Concordia	57.0	49.6	178.6	8,035
East Carroll	33.6	41.3	148.7	6,692
Evangeline*	22.5	61.7	222.2	9,999
Madison	29.0	50.4	181.5	8,168
St. Landry	49.4	49.3	177.5	7,987
Vermilion*	41.5	66.9	241.0	10,843
TOTALS	359.9	56.0	201.7	9,078

* Yield includes second crop.

2010 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Avoyelles	41.8	49.7	179.0	8,057
Jefferson Davis*	35.8	67.5	243.1	10,941
St. Landry	31.3	44.3	159.4	7,171
TOTALS	108.9	54.0	194.4	8,750

* Yield includes second crop.

2011 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Allen	23.2	48.1	173.3	7,799
Cameron ¹	17.6	57.6	207.4	9,332 ¹
Madison	10.5 ²	57.9	208.5	9,382
St. Landry	45.7	42.5	153.1	6,890
Vermilion	24.0	54.0	194.5	8,754
TOTALS	121.0	49.4	177.9	8,005

¹ Yield includes second crop.

² Yield calculated on 10.5 acres, total field acres 73.4.

Table 3. Continued.

2012 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Allen	30.7	45.6	164.2	7,391
Cameron ¹	35.7	42.3	152.4	6,858
Concordia	37.4	45.2	162.7	7,321
St. Landry ¹	44.1	64.9	233.6	10,510
Vermilion	16.5	44.1	158.6	7,137
TOTALS	164.4	49.8	179.3	8,071

¹ Yield includes second crop.

2013 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Evangeline	38.0	51.7	186.0	8,368
Jeff Davis ¹	39.3	65.1	234.2	10,541
St. Landry ¹	52.4	75.2	270.7	12,183
Vermilion	17.3	36.4	131.1	5,898
W. Carroll	34.5	65.3	235.2	10,582
TOTALS	181.5	62.5	225.0	10,125

¹ Yield includes second crop.

2014 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Concordia	23.0	48.5	174.8	7,865
Evangeline	20.7	46.2	166.3	7,483
Jeff Davis ¹	42.6	83.8	301.6	13,574
Vermilion ¹				
W. Carroll	32.2	51.4	185.1	8,329
TOTALS	118.5			9,931

¹ Yield includes second crop.

Table 3. Continued.

2015 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Acadia ¹	40.5	85.5	308	13,867
Cameron ¹	45	65	233	10,522
Concordia	18	52	189	8,487
Vermilion	39.2	40	145	6,529
W. Carroll	36.5	56	202	9,089
TOTALS	179.2	61	219.9	9,908

¹ Yield includes second crop.

2016 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Acadia ¹	45	74.34	267.6	12,040
Cameron ¹	25	61.5	221.4	9,960
Concordia	18	48.9	176	7,930
Vermilion ²	18			
Richland	24	42	151	6,902
TOTALS³	112	60.4	217	9,814

¹ Yield includes second crop.

² Not harvested due to flood.

³ Harvested acres only.

2017 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Avoyelles	31.6	35.12	137.23	6,475
Calcasieu ¹	19.5	54.79	197.3	8,887
East Carroll	5 ²	59.8	215.75	9,709
Richland	32.7	52.25	188.12	8,465
Morehouse	34.4	65.8	237	10,667
TOTALS	123.2	52.3	191.28	8,686

¹ Yield includes second crop.

² Yield calculated on 5 acres, total field area 90 acres.

2018 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Avoyelles	31	46.47	167.2	7528
Calcasieu ¹	16.9	47.7	171.3	7730
East Carroll	6 ²	56.2	202.6	9117
Vermilion	30	49.2	177.2	7978
TOTALS	83.9	48.3	174.1	7843

¹ Yield includes second crop.

² Yield calculated on 6 acres, total field area 90 acres.

2019 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Acadia	8	37.4	134.6	6060
Evangeline	31	37.4	134.6	6060
Jeff Davis ¹	18	54.1	194.6	8766
Morehouse	13	38.9	140.2	6309
TOTALS	70	41.96	151	6801

¹ Yield includes second crop.

2020 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Acadia	42	54.6	197	8849
Evangeline	46	40.16	144.5	6506
Jeff Davis	9.5	41.5	149	6722
Vermilion	30	47.7	171	7727
TOTALS	127.5	46.78	168.3	7581

No Ratoon crop harvested in 2020 Verification program.

2021 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Acadia	82	48.3	174	7837
Allen ¹	30	58.6	211	9499
Calcasieu	18.5	48.4	174	7840
Vermilion ¹	63	52.9	190.2	8588
TOTALS	193.5	51.4	185	8339

¹Value includes first and ratoon crop.

2022 Verification Acres and Yields				
		Yield at 12% Moisture		
Parish	Acres	Barrels/A	Bushels/A	Pounds/A
Acadia	50	48.3	174	7827
Allen	150	40	143	6423
Evangeline	61.6	46	165	7460
St. Landry	45	48	173	7776
TOTALS	306.6	43.5	156.6	7050

No ratoon crop in 2022 Verification program

1998 – 2022 Rice Research Verification Yield Summary

Verification Totals			Verification Parish Totals ¹		
Year	Acres	Pounds/A	Acres	Pounds/A	Difference
1998	427.6	6,018	475,103	5,052	966
1999	320.3	6,273	444,015	5,502	771
2000	393.8	5,780	385,824	5,620	160
2001	489.1	7,438	412,286	5,794	1,644
2002	433.6	7,551	412,630	5,764	1,787
2003	462.7	7,404	327,843	5,843	1,561
2004	455.7	6,848	311,606	5,582	1,266
2005	538.7	6,670	402,759	6,165	505
2006	328.4	7,040	185,249	5,644	1,396
2007	267.3	8,293	183,357	6,501	1,792
2008	387.6	8,228	258,845	6,047	2,181
2009	359.9	9,078	246,793	6,715	2,363
2010	108.9	8,750	125,856	6,488	2,262
2011	121.0	8,005	110,236	6,175	1,830
2012	164.4	8,071	109,823	6,043	2,028
2013	181.5	10,125	202,366	7,524	2,602
2014	118.5	9,931	194,761	7,541	2,390
2015	179.2	9,908	149,888	6,860	3,048
2016	112	9,814	159,514	6,549	3,265
2017	123.2	8,686	50,176	7,482	1,204
2018	83.9	7,843	77,214	6,580	1,263
2019	70	6,801	241,093	6,075	726
2020	127.5	7,581			
2021	193.5	8,339			
2022	306.6	7,050	*	*	*
Totals	6,748.3		48,016,954		

* Not available at press time.

¹ Verification Parish Totals derived by participating parish acreage multiplied by average parish yield (taken from Ag Summary), add totals, and divide by participating parish total acreage to get lb/A.

STATION PERSONNEL

Kurt M. Guidry¹, Professor ----- **Resident Coordinator**

Hannah Derouen ²	Accounting Specialist 2
Jennifer A. Gary	Administrative Coordinator 3
Kimberly G. Guidry ³	Administrative Program Specialist-A
Carol D. LeDoux ⁴	Administrative Program Specialist-A
Donna L. Sonnier	Custodian 1
 Kim J. Landry	 Safety Coordinator/Research Associate

Adam N. Famoso, Associate Professor ----- **Rice Breeding**

Brijesh Angira	Assistant Professor-Research
Jose Moreno Amores	Postdoctoral Researcher
Valerie B. Dartez	Research Associate Coordinator
Jennifer D. Dartez	Research Farm Specialist 2
Blaise Frey	Research Associate Specialist
Christopher Hernandez ⁵	Postdoctoral Researcher
Joseph John, II ⁶	Research Associate Specialist
Colby LeJeune	Research Associate Specialist
Madeline C. LeJeune ⁷	Research Associate Specialist
Frank Maulana ⁸	Postdoctoral Researcher
Brady L. Williams	Research Farm Specialist 2
Tommaso Cerioli ⁹	Graduate Assistant
Raul Guerra	Graduate Assistant
Jennifer Manangkil	Graduate Assistant
Maria Montiel	Graduate Assistant

Felipe Dalla Lana da Silva¹⁰, Assistant Professor ----- **Rice Pathology**

Caitlin deNux ¹¹	Research Associate Specialist
Laura L. Monte	Research Farm Specialist 2

Irish Pabuayon¹², Assistant Professor ----- **Rice Agronomy/Rotational Crops**

Matthew Breaux	Research Farm Assistant 2
Jacob S. Fluitt	Research Associate Coordinator
James P. Leonards	Research Associate Specialist

Manoch Kongchum, Associate Professor-Research ----- **Rice Agronomy/Rotational Crops**

¹ Appointed Resident Coordinator 01/01/2022

² Appointed 04/25/2022

³ Promoted from Accounting Specialist to Administrative Program Specialist-A

⁴ Retired 01/04/2022-Rehire 02/14/2022

⁵ Resigned 07/02/2022

⁶ Resigned 05/02/2022

⁷ Appointed to Academic 07/13/2022

⁸ Resigned 05/04/2022

⁹ Resigned 03/10/2022

¹⁰ Appointed 03/01/2022

¹¹ Resigned 10/16/2022

¹² Appointed 07/01/2022

STATION PERSONNEL (Continued)

Brent Theunissen, Research Associate/Coordinator/Manager -----		Farm Management
Brandon J. Frey		Research Farm Manager 1
Jason R. Hartman ¹³		Research Farm Specialist 1
Paul A. Miller		Research Farm Specialist 2
Jimmy D. Pellerin		Research Farm Specialist 2
Thomas J. Reed		Research Farm Specialist 2
Ty Henderson ¹⁴		Research Farm Specialist 1
Mark G. Shirley, Agent -----		Aquaculture
Kalem Johnson ¹⁵		Research Farm Specialist 2
John J. Sonnier ¹⁶		Research Farm Specialist 2
James H. Oard¹⁷, Professor -----		Rice Hybrid Breeding
Weiki Li		Visiting Scientist
Tara R. Vanicor		Research Farm Specialist 1
Jessica L. Thornton		Research Associate Specialist
Paola Mosquera		Postdoctoral Researcher
Dean J. LeJeune, Research Farm Maintenance Manager -----		Maintenance Department
Nathan T. Breaux		Maintenance Repairer 2
Justin P. Sarver		Maintenance Repairer 2
Blake E. Wilson, Assistant Professor -----		Rice Entomology
Kim J. Landry		Research Associate Specialist
Herry S. Utomo, Professor -----		Marker-Assisted Selection Breeding/Biotechnology
Bradley Beard ¹⁸		Research Associate Specialist
Hayden J. Dugas ¹⁹		Research Farm Specialist 1
Gretchen M. Zaunbrecher ²⁰		Research Associate Specialist
Ida Wenefrida, Associate Professor-Research -----		Biotechnology
Roberto Fritsche-Neto,²¹ Assistant Professor -----		Quantitative Genetics
Richard E. Zaunbrecher, Research Associate Coordinator -----		Foundation Seed Rice

¹³ Appointed to Farm Crew 07/25/2022 – Transferred from Agronomy Project to Farm Crew

¹⁴ Resigned 06/10/2022

¹⁵ Appointed 05/09/2022-Resigned 10/07/2022

¹⁶ Retired 02/26/2022

¹⁷ Retired 01/05/2022

¹⁸ Appointed 06/06/2022 - Promoted to Research Assoc.Spec 09/24/2022

¹⁹ Resigned 04/15/2022

²⁰ Resigned 03/01/2022

²¹ Appointed 08/01/2022

LSU AGCENTER CAMPUS PERSONNEL

LSU AgCenter personnel conducting research at the H. Rouse Caffey Rice Research Station include the following:

Michael A. Deliberto, Assistant Professor for Research-----**Economics**
Department of Agricultural Economics and Agribusiness

Jong Hyun Ham, Associate Professor	Rice Diseases
Department of Plant Pathology and Crop Physiology	
Inderjit K. Barphagha	Research Associate
Jobelle Bruno	Graduate Assistant
John Ontoy	Graduate Assistant

Michael E. Salassi, Professor-----**Economics**
Department of Agricultural Economics and Agribusiness

Michael J. Stout, Professor	Rice Entomology
Department of Entomology	
Blake E. Wilson	Assistant Professor
James M.P. Villegas	Assistant Professor
Megan M. Mulcahy	Graduate Assistant

L. Connor Webster²², Assistant Professor-Research-----**Rice Weed Control**
School of Plant, Environmental and Soil Sciences
John Williams Graduate Assistant

²² Appointed 02/15/2022

COOPERATING PERSONNEL

Cooperating personnel on research projects at the H. Rouse Caffey Rice Research Station include the following:

Niranjan Baisakh----- **Rice Breeding**

School of Plant, Environmental and Soil Sciences
Louisiana State University Agricultural Center

Steve A. Harrison----- **Wheat, Oats, and Coastal Erosion Control**

School of Plant, Environmental and Soil Sciences
Louisiana State University Agricultural Center

Boyd Padgett - Interim----- **Soybeans**

Dean Lee Research and Extension Center
Louisiana State University Agricultural Center

Anthony Rivera----- **Rice Breeding**

University of Puerto Rico Research & Extension Center
Lajas, Puerto Rico

Aaron P. Smith ----- **Rice Breeding**

Department of Biological Sciences
Louisiana State University

Prasanta K. Subudhi ----- **Rice Breeding**

School of Plant, Environmental and Soil Sciences
Louisiana State University Agricultural Center

Brenda Tubaña ----- **Rice Fertilization**

School of Plant, Environmental and Soil Sciences
Louisiana State University Agricultural Center

William F. Futch ----- **Bird Control**

USDA Animal Damage Control
Crowley, Louisiana

Visit our website: www.LSUAgCenter.com

Dr. Matthew Lee, Interim LSU Vice President for Agriculture

**Louisiana State University Agricultural Center
Louisiana Agricultural Experiment Station
Louisiana Cooperative Extension Service
LSU College of Agriculture**

May 2023

**The LSU AgCenter and LSU provide equal
opportunities in programs and employment.**

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