H. ROUSE CAFFEY RICE RESEARCH STATION

2023

115th Annual Research Report

CROWLEY, LOUISIANA

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115th Annual Research Report

H. ROUSE CAFFEY
RICE RESEARCH STATION
Crowley, Louisiana

2023

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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 2023 rice research program included breeding/variety development, biotechnology, variety testing, fertilization, soil and water management, cultural practices, weed control, insect control, disease management, quantitative genetics and predictive breeding methodologies, rice economics, agronomy extension programs, and crawfish demonstration trials. Crops grown in rotation with rice were evaluated relative to increasing the efficiency of land use. Another important area of work is the production and distribution of foundation seed. The aquaculture research program places emphasis upon production practices, forages, and multi-cropping of crawfish with agronomic crops. In addition, the statewide rice extension specialist 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 2023 are presented in this report representing the 115th Annual Research Report of the H. Rouse Caffey Rice Research Station, Louisiana Agricultural Experiment Station, and LSU Agricultural Center. The station has been providing research-based information and improved varieties for over 100 years and is one of the longest continuously operating research stations in the world.

In addition to research responsibilities of the HRCRRS faculty and cooperators, many farmers, extension personnel, and others were trained and otherwise contacted during 2023. Approximately 400 people attended the annual HRCRRS field day to view plots and participate in discussions of research findings. Field days were also conducted in Acadia, Morehouse and Evangeline 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 2023.

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. Funding of the research conducted is gratefully provided by the Louisiana Rice Research Board through the Rice Check-Off fund, Federal research grants, and industry collaborations. Following the reports, station personnel and cooperators in 2023 are listed.

MONTHLY RAINFALL DATA
H. ROUSE CAFFEY RICE RESEARCH STATION – CROWLEY, LA
2023

DATE	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEAR TOTAL
1		0.17										6.50	
2		0.37										0.71	
3	0.04	0.37	0.04						3.10				
4													
5									0.40				
6					0.50	0.68	0.65		0.15	0.78			
7				6.85									
8	1.19	0.86		0.78	0.02								
9	0.12				0.07		0.13		0.12				
10				0.02	0.11		0.18				0.04	0.15	
11		0.13	0.07		0.20		0.06			0.03	0.07		
12	0.05									0.19	0.07		
13		0.02									0.10		
14									1.03		0.34		
15											0.38		
16				0.87	0.21				0.11				
17		0.36	0.91				1.57					1.19	
18	0.02		0.43										
19	0.49												
20													
21	1.99			0.88	3.40						0.11		
22	0.58			0.23									
23						0.02	0.75		0.34				
24	0.08					0.09					0.10		
25	2.62								1.08			1.90	
26													
27			0.02	0.48					0.22				
28			0.77							0.06			
29	1.10							0.44					
30	2.00										0.22		
31	0.05				0.32					0.13			
MONTHLY TOTALS													
2023	10.33	2.28	2.24	10.11	4.83	0.79	3.34	0.44	6.55	1.19	1.43	10.45	53.98
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

RICE BREEDING

GENETIC IMPROVEMENT OF RICE FOR LOUISIANA PRODUCTION[1]

A.N. Famoso, B. Angira, V.B. Dartez, B.M. Frey, 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 2023 rice breeding nursery included more than 34,000 breeding rows. Over 860 new breeding crosses were made, and 87 populations were screened 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 9,800 yield plots. Preliminary Yield testing (PYT) included 1,125 new lines evaluated in 2,250 plots. In 2023, the Regional Yield Test (RYT) consisted of 148 entries in their second year of yield testing. The RYT was conducted over four locations and 1,184 plots. Advanced stages of testing included the Cooperative Uniform Regional Rice Nursery (URRN) and the Advanced Yield Trial (AYT). The URRN contained 52 experimental lines and checks (10 Louisiana entries). The AYT consisted of 54 entries and was tested across nine locations totaling 1,296 plots.

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

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.

Trial locations in 2023 included two environments at the H. Rouse Caffey Rice Research Station (HRCRRS), one environment at the HRCRRS South Farm (SF) and six on-farm test sites in Calcasieu (McNeese State University – McN), Evangeline (Mamou – MM), Franklin (Winnsboro – WB), Tensas (St. Joseph – SJ), St. Landry (Palmetto – PL), and Vermilion (Lake Arthur – LK) parishes. Tests were divided by herbicide type (Clearfield – CL, Conventional – CN, and Provisia – PV) at all locations. Planting and harvesting dates are shown in Table 1 across all locations.

Sixty-four entries were tested in a randomized complete-block design with three replications. Varieties and hybrids were seeded at 75 and 27 lb/A, respectively. Entries are listed in Table 2. Results from these trials are shown in Tables 3-28.

Table 1. Planting and harvesting dates for the Advanced Yield Trial in 2023.

Location	Trial	Planting	Harvesting
HRCRRS	AYT-CL-RRS	3/1	7/25
	AYT-CN-RRS	2/27	7/25
	AYT-PV-RRS	2/28	7/25
HRCRRS-Late	AYT-CL-RRSL	4/18	8/15
	AYT-CN-RRSL	4/19	8/18
	AYT-PV-RRSL	4/14	8/14
HRCRRS-South Farm	AYT-CL-SF	3/3	7/28
	AYT-CN-SF	3/3	7/28
	AYT-PV-SF	3/3	7/28
Calcasieu (McNeese)	AYT-CL-McN	6/5	10/18
	AYT-CN-McN	6/5	10/18
	AYT-PV-McN	6/5	10/18
Evangeline (Mamou)	AYT-CL-MM	3/13	8/1
	AYT-PV-MM	3/13	8/1
Franklin (Winnsboro)	AYT-CL-WB	4/19	9/7
	AYT-CN-WB	4/19	9/6
	AYT-PV-WB	4/19	9/6
Tensas (St. Joseph)	AYT-CL-SJ	5/4	9/15
	AYT-CN-SJ	5/4	9/15
	AYT-PV-SJ	5/4	9/15
St. Landry (Palmetto)	AYT-CL-PL	3/30	8/14
	AYT-CN-PL	3/30	8/14
	AYT-PV-PL	3/30	8/14
Vermilion (Lake Arthur)	AYT-CL-LK	3/15	7/26
	AYT-CN-LK	3/15	7/26
	AYT-PV-LK	3/15	7/27

Table 2. Entry number, pedigree, grain type, and source information for entries in the Advanced Yield Trial, 2023.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CL	1	202L2096	CL163/CLJ01	AL	LAES
CL	2	212L2252	RU1002146/3/Jazzman2//07PY824/08CLR003/4/ Jazzman/08CLR004//RU0802146/3/RU0802146	AL	LAES
CL	3	RU2102217	CL161//Cocodrie/9770532DH2/3/Cypress/Kaybonnet// RU9502008A/4/Catahoula/5/CL172/6/CL172	LG	LAES
CL	4	212L2305	CLL17/Diamond	LG	LAES
CL	5	RU1902034	Cocodrie/Drew//CLR20/3/Cypress/Kaybonnet//Cocodrie/6/ Katy/Cypress//Newbonnet/Katy/3/Cocodrie/4/CLR9/5/ Cocodrie/Tacauri//CLR5	LG	LAES
CL	6	RU2102222	CL172/Lakast	LG	LAES
CL	7	212L2014	RU1602195/RU1602112	LG	LAES
CL	8	MPB_113	CL153/Lakast	LG	LAES
CL	9	20LXM006	CL111/CL153	LG	LAES
CL	10	212L2254	RU1602195/172L1264	LG	LAES
CL	11	RU2102150	CL163/CL153	HI	LAES
CL	12	202L2082	CL163/172A1739	HI	LAES
CL	13	BBC30-1	CL272/4/CL272/3/CL272//Zhe733/CL272	MG	LAES
CL	14	RU2202037	Jupiter/CL272	MG	LAES
CL	15	212M1076	RU1702162/RU1702180	MG	LAES
CL	16	212M1144	RU1902182/Lynx	MG	LAES
CL	17	RU2101208		AL	AAES
CL	18	CLL18	RoyJ/CL142AR	LG	AAES
CN	19	RU2301022		LG	AAES
CL	20	202L2141	CL163/CLJ01	HI	LAES
CL	21	RU2101234	Earl/PI350298//Jupiter/RU1501096	MG	AAES
CL	22	CLJ01	Jazzman/08CLR004//RU0802146/3/RU0802146	AL	LAES
CL	23	CLL19	Wells/CL161//Drew/CL161/3/Cheniere//Cocodrie/Jefferson	LG	LAES
CL	24	CLL16	248WE16I5/Taggart/7/248Drew16C13/6/LaGrue//Katy/ Starbonnet/5/Newbonnet/Katy//RA73/Lemont/4/Lebonnet/ 71CR5038/3/Dawn/STG653888//Starbonnet	LG	AAES
CL	25	CLM04	RU1202168/Jupiter	MG	AAES
CN	1	211L1331	RU1602195/Della2	AL	LAES
CN	2	201L1251	Catahoula/Lakast	LG	LAES
CN	3	RU1902207	Catahoula/Mermentau	LG	LAES
CN	4	201L1324	Katy/Cypress/4/Catahoula/3/Trenasse//RU9502008A/Drew	LG	LAES
CN	5	201L1288	Catahoula/Lakast	LG	LAES
CN	6	RU2102037	RoyJ/CL153	LG	LAES
CN	7	RU2201020	RU1201111/Diamond	LG	AAES
CN	8	211L1008	RU1702183/Avant	LG	LAES
CN	9	211L1267	RU1902186/CL153	LG	LAES
CN	10	211L1154	RU1702140/RU1902207	LG	LAES
CN	11	211L1228	RU1801169/Avant	LG	LAES
CN	12	211L1056	182L2195/RU2002150	LG	LAES
CN	13	211L1032	RU1801169/Avant	LG	LAES
CN	14	211L1227	RU1702140/RU1902207	LG	LAES
CN	15	211L1070	RU1702140/RU1902207	LG	LAES
CN	16	211L1225	RU1902186/CL153	LG	LAES
CN	17	211L1232	CL153/Lakast	LG	LAES
CN	18	RU2102158	Thad/Catahoula	HI	LAES
CN	19	RU2102066	Titan/Jupiter	MG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type†	Source‡
CN	20	RU2102070	Titan/Jupiter	MG	LAES
CN	21	201M1065	Titan/Jupiter	MG	LAES
CN	22	Avant	Trenasse//Cocodrie/Jefferson/3/Ahrent/Cocodrie//Cocodrie/ LaGrue	LG	LAES
CN	23	Cheniere	Newbonnet/Katy/3/L202/Lemont//L202	HI	LAES
CN	24	DG263L		HI	Nutrien
CN	25	Jupiter	Bengal/Rico1/3/Bengal//Mercury/Rico1	MG	LAES
PV	1	203L1104	RU1502115/PVL01	LG	LAES
PV	2	213L1130	PVL01/Catahoula	LG	LAES
PV	3	213L1237	Catahoula/PVL03	LG	LAES
PV	4	213L1268	Catahoula/PVL03	LG	LAES
PV	5	213L1135	Catahoula/PVL03	LG	LAES
PV	6	213L1247	PVL03/Cheniere	LG	LAES
PV	7	213L1183	Catahoula/PVL03	LG	LAES
PV	8	213L1041	PVL03/RU1902194	LG	LAES
PV	9	213L1140	PVL01/Catahoula	HI	LAES
PV	10	RU2002070	PVL01/Catahoula	HI	LAES
PV	11	RU2102186	PVL01/Catahoula	HI	LAES
PV	12	RU2002174	PVL01/Catahoula	HI	LAES
PV	13	PVL03	PVL01/Catahoula	LG	LAES
PV	14	RU2201021	18SIT0557/RU2201021-BC2	HI	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-Dixiebelle type

‡ LAES – H. Rouse Caffey Rice Research Station, Louisiana Agricultural Experiment Station, LSU AgCenter, Rayne, LA; AAES – Arkansas Agricultural Experiment Station, Stuttgart, AR; and Nutrien Ag Solutions, El Campo, TX.

Table 3. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Clearfield. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
21	RU2101234	3.0	101.0	93.3	61.2	68.2	31.1	10105.9	2291.0
16	212M1144	3.0	98.0	99.0	62.5	70.3	30.5	10097.9	3271.3
6	RU2102222	3.0	97.3	86.0	62.3	71.2	23.6	9884.8	4129.0
5	RU1902034	5.0	96.7	94.3	58.2	69.7	37.5	9863.5	3079.7
4	212L2305	2.3	96.0	97.7	58.0	70.4	34.1	9845.1	3197.7
17	RU2101208	3.0	99.3	96.7	57.3	69.7	26.5	9818.0	2705.6
23	CLL19	1.7	95.7	90.3	57.9	70.4	35.1	9784.4	2289.4
11	RU2102150	3.0	98.0	93.7	61.1	70.1	29.8	9773.7	2655.0
18	CLL18	3.0	98.3	101.7	48.8	65.5	37.9	9722.1	1175.7
3	RU2102217	2.3	95.7	88.0	43.2	69.7	46.1	9680.7	4119.5
15	212M1076	3.0	98.0	95.7	63.3	71.7	29.7	9649.7	2607.9
25	CLM04	2.3	98.3	99.0	65.1	71.5	22.1	9610.5	2288.6
8	MPB_113	3.0	95.7	90.3	51.2	69.2	25.9	9561.4	3764.0
13	BBC30-1	5.0	98.3	82.0	59.9	69.4	29.5	9432.7	1489.7
9	20LXM006	1.7	97.7	93.7	60.3	70.9	38.3	9429.6	3348.1
7	212L2014	3.0	96.3	94.7	55.6	70.1	33.6	9376.1	2954.8
20	202L2141	5.0	101.3	104.3	51.7	68.1	27.8	9370.0	3020.4
2	212L2252	3.0	97.7	94.0	63.5	70.9	20.7	9004.9	3236.4
14	RU2202037	3.0	96.0	96.3	64.6	70.3	26.8	8757.9	3055.9
24	CLL16	3.0	102.7	102.0	52.4	66.8	27.1	8732.4	1491.2
1	202L2096	3.7	101.7	98.3	61.8	69.6	18.0	8670.3	1683.3
12	202L2082	3.7	96.7	97.7	60.0	72.2	20.4	8599.7	4542.7
22	CLJ01	3.0	101.3	96.0	66.6	70.9	10.1	8008.4	4018.2
10	212L2254	3.0	103.7	102.0	61.4	70.0	21.1	7683.1	3032.9
19	RU2301022	-	-	-	-	-	-	-	856.2

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

Table 4. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Conventional. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
7	RU2201020	1.0	99.0	99.3	41.7	68.0	47.3	9631.7	3242.1
8	211L1008	3.0	96.0	85.3	60.8	70.7	31.7	9566.4	3569.7
20	RU2102070	3.0	100.0	88.7	60.4	68.8	33.6	9384.6	2777.2
2	201L1251	3.0	104.0	86.7	48.1	69.8	32.9	9267.4	3518.9
24	DG263L	4.3	103.0	96.0	57.3	67.2	31.7	9253.6	1302.7
11	211L1228	2.3	100.0	97.3	58.6	69.6	33.0	9026.3	3573.2
22	Avant	1.0	91.7	86.3	59.5	70.7	27.5	9001.9	2898.2
19	RU2102066	5.0	103.0	85.0	63.7	70.0	37.2	8881.8	2094.8
1	211L1331	3.0	106.7	98.3	56.4	69.2	22.0	8814.2	2655.3
10	211L1154	1.7	100.0	98.0	59.8	71.9	30.5	8697.9	3095.5
16	211L1225	3.0	99.7	89.7	62.7	71.7	28.1	8672.7	3014.7
13	211L1032	3.0	100.3	85.3	60.4	70.8	33.8	8663.9	2894.9
17	211L1232	3.0	99.7	87.7	47.6	69.1	27.3	8571.9	3734.1
6	RU2102037	3.7	103.3	89.0	55.5	69.4	34.2	8570.7	2485.8
9	211L1267	3.0	103.7	89.7	62.2	70.9	27.9	8426.6	3501.2
12	211L1056	2.3	98.7	87.0	53.7	69.9	32.4	8396.5	2593.8
3	RU1902207	1.7	99.7	94.3	57.7	72.0	32.9	8357.2	2765.3
25	Jupiter	2.3	103.7	85.0	61.1	67.5	38.2	8273.1	2436.7
4	201L1324	2.3	101.3	93.0	54.6	71.0	46.3	8258.0	2357.3
14	211L1227	2.3	99.0	94.7	52.2	70.5	27.4	8229.6	2816.6
15	211L1070	2.3	99.3	88.3	55.7	71.3	27.8	8082.7	2352.4
18	RU2102158	3.7	103.0	88.7	52.5	68.5	37.3	7985.8	3505.5
23	Cheniere	1.0	101.0	91.3	64.8	72.7	17.2	7672.7	3248.1
21	201M1065	5.0	106.0	83.0	63.5	68.3	33.4	7627.6	2445.0
5	201L1288	3.0	101.0	92.7	48.4	68.8	41.3	7531.9	3123.1

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

Table 5. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Provisia. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
13	PVL03	1.0	96.7	98.3	53.2	73.5	29.4	9340.1	2859.3
1	203L1104	3.7	101.0	92.3	63.5	72.1	20.9	9169.9	3516.8
11	RU2102186	1.0	97.0	96.0	57.8	72.0	26.1	8984.6	2381.8
9	213L1140	3.0	98.0	92.3	56.1	72.6	24.3	8964.8	1831.0
2	213L1130	3.0	100.3	92.7	60.0	72.1	29.0	8857.5	2403.7
8	213L1041	2.3	96.0	97.7	58.4	73.8	29.9	8838.8	2672.1
5	213L1135	3.0	97.0	94.7	50.1	73.5	29.2	8414.6	1845.8
14	RU2201021	3.0	100.0	97.0	58.1	70.6	25.0	8342.6	2246.3
12	RU2002174	3.0	101.0	104.0	66.4	72.7	14.6	8293.9	3091.3
7	213L1183	3.0	96.3	93.0	52.3	73.5	28.0	8292.0	1635.2
6	213L1247	3.0	97.0	90.0	55.5	72.6	21.0	8214.5	1524.3
4	213L1268	4.3	95.7	93.3	46.8	72.1	32.4	8175.4	1421.6
3	213L1237	3.0	96.0	91.0	44.6	72.7	33.3	8126.5	1858.8
10	RU2002070	3.0	100.3	95.7	64.6	73.0	16.2	8117.5	2255.8

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

Table 6. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Clearfield. H. Rouse Caffey Rice Research Station, Rayne, LA – Late Planting.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
18	CLL18	3.0	74.3	101.0	53.2	67.4	32.2	9955.5	1960.3
16	212M1144	1.0	74.7	99.0	62.3	70.9	27.1	9189.5	4663.9
17	RU2101208	3.0	75.0	100.3	58.1	68.6	27.6	8908.8	2378.4
3	RU2102217	3.0	72.3	88.7	59.4	71.3	39.1	8893.8	3721.7
21	RU2101234	1.7	78.0	91.7	59.4	67.1	31.1	8628.0	2811.0
5	RU1902034	3.0	71.7	94.7	62.0	69.7	30.9	8586.7	4448.6
23	CLL19	3.7	71.7	91.7	61.0	69.5	30.5	8463.8	3965.5
13	BBC30-1	4.3	74.0	83.3	62.9	70.8	22.8	8356.9	4438.1
15	212M1076	3.0	74.0	94.7	63.5	72.6	23.1	8353.5	4541.3
11	RU2102150	3.7	73.7	100.3	61.9	69.3	27.8	8334.8	4022.0
6	RU2102222	3.7	73.3	87.0	64.5	71.2	20.2	8277.3	2228.6
8	MPB_113	4.3	70.7	84.7	57.2	69.9	24.7	8182.4	4423.7
9	20LXM006	3.7	74.3	100.3	64.2	70.1	32.4	8169.5	3853.0
24	CLL16	3.0	79.0	103.3	52.2	67.0	38.0	7955.5	1177.4
2	212L2252	3.0	69.3	96.7	63.4	70.5	15.2	7923.3	4077.8
25	CLM04	2.3	76.3	97.0	61.4	70.0	22.0	7805.3	4391.0
7	212L2014	3.0	72.7	100.0	63.5	70.0	33.7	7786.2	4373.9
1	202L2096	4.3	78.0	102.7	58.5	68.8	16.2	7488.9	2156.0
4	212L2305	3.7	73.0	96.7	62.1	70.5	30.5	7190.5	4642.4
10	212L2254	3.7	73.3	103.7	57.5	66.6	19.5	6977.7	4881.5
14	RU2202037	3.7	70.3	90.7	61.1	69.6	21.7	6867.9	4495.8
20	202L2141	3.7	78.7	98.3	49.9	67.5	31.9	6842.5	2969.5
22	CLJ01	3.0	73.7	99.0	65.8	70.6	11.2	6837.3	4305.3
12	202L2082	3.7	79.3	102.7	61.9	69.6	22.6	6525.3	4524.4
19	RU2301022	-	-	-	-	-	-	-	2814.7

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

Table 7. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Conventional. H. Rouse Caffey Rice Research Station, Rayne, LA – Late Planting.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
7	RU2201020	2.3	71.0	105.7	48.4	67.3	39.1	10920.4	2965.9
24	DG263L	5.0	70.7	99.0	59.5	67.2	26.0	9487.9	1310.0
13	211L1032	3.0	75.7	101.7	60.5	68.9	26.4	9105.3	3366.7
22	Avant	3.0	69.3	97.7	62.9	70.7	22.9	9045.0	4239.4
1	211L1331	3.0	78.7	99.3	62.2	68.6	19.6	8923.8	2409.6
2	201L1251	3.0	75.7	97.7	49.7	68.1	27.8	8783.9	2675.6
6	RU2102037	5.0	76.7	94.7	61.1	68.5	22.9	8681.7	3713.0
8	211L1008	3.0	71.7	99.3	62.7	69.8	26.0	8527.3	3698.2
17	211L1232	3.7	72.7	96.0	55.2	68.1	22.4	8515.7	3268.4
12	211L1056	3.0	75.0	94.0	58.2	68.4	24.5	8499.4	3256.1
5	201L1288	3.7	78.3	97.7	55.0	68.3	40.8	8217.5	3983.2
16	211L1225	3.0	75.3	102.7	63.0	69.4	20.3	8212.5	4723.9
9	211L1267	3.0	76.7	99.3	63.6	69.1	20.0	8016.3	3960.6
3	RU1902207	3.0	74.0	101.7	60.2	69.4	23.2	7935.6	3539.7
11	211L1228	3.0	76.7	106.0	59.9	66.8	28.6	7932.4	3508.4
4	201L1324	3.0	74.3	97.7	57.6	69.3	31.1	7805.1	3669.5
10	211L1154	3.0	73.3	108.3	60.9	69.2	20.5	7765.7	3973.6
18	RU2102158	5.0	78.7	98.3	51.9	66.3	38.3	7756.5	4012.8
15	211L1070	2.3	73.7	100.7	60.7	70.5	20.7	7508.5	3464.6
19	RU2102066	3.7	74.7	80.3	62.2	67.7	21.0	7292.6	2914.8
20	RU2102070	3.0	73.0	91.3	59.4	66.6	17.1	7198.3	3208.5
23	Cheniere	3.0	77.0	97.0	65.0	71.2	10.7	7178.8	2748.5
14	211L1227	3.0	73.0	103.0	56.8	69.3	21.3	7138.7	3377.2
21	201M1065	5.0	78.0	90.0	60.8	66.7	21.3	6524.8	3639.2
25	Jupiter	4.3	77.3	85.7	61.6	66.7	29.4	5911.2	3652.1

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

Table 8. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Provisia. H. Rouse Caffey Rice Research Station, Rayne, LA – Late Planting.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
2	213L1130	3.0	77.0	104.7	61.4	71.4	24.1	9646.3	1918.9
1	203L1104	4.3	78.3	97.7	65.6	71.8	19.9	9636.3	1452.5
10	RU2002070	2.3	77.7	103.7	61.0	71.7	17.0	9496.7	2421.5
4	213L1268	2.3	69.7	99.7	62.8	71.9	26.5	9215.8	2357.2
9	213L1140	2.3	74.7	99.3	55.4	71.2	19.7	9193.4	1377.5
11	RU2102186	1.7	73.0	104.7	58.9	71.2	22.6	9115.9	1886.7
13	PVL03	1.0	73.0	102.7	61.2	71.5	21.8	8973.6	3378.3
3	213L1237	2.0	70.7	104.0	60.6	71.9	24.0	8943.4	3462.0
6	213L1247	3.0	72.3	102.3	59.5	71.0	17.3	8884.5	4433.9
7	213L1183	1.0	72.3	103.0	64.7	72.3	20.2	8799.1	4163.9
8	213L1041	1.7	70.7	108.3	59.3	71.0	26.7	8776.9	2786.8
14	RU2201021	3.7	75.3	101.3	58.0	70.0	21.0	8736.7	1255.8
5	213L1135	3.0	72.3	101.3	62.8	72.3	21.7	8584.0	3804.1
12	RU2002174	2.3	78.0	109.7	65.6	72.2	14.4	8329.5	4540.3

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

Table 9. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Clearfield. H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
19	RU2301022	3.7	96.7	96.3	61.3	70.6	37.4	11458.2	1953.7
3	RU2102217	3.7	93.3	92.0	53.0	70.4	38.5	10979.7	3625.2
21	RU2101234	4.3	101.7	97.7	63.6	68.9	26.5	10892.2	3084.9
23	CLL19	3.0	93.0	94.0	57.7	70.3	33.3	10870.7	2924.0
18	CLL18	3.7	97.7	106.7	54.3	68.2	33.0	10807.9	2200.9
16	212M1144	3.7	99.3	99.0	63.8	70.2	24.3	10721.7	3656.3
24	CLL16	3.7	101.3	106.7	58.2	69.7	23.9	10544.5	1249.2
7	212L2014	3.7	95.0	101.3	63.4	72.4	33.3	10529.1	4150.5
6	RU2102222	4.3	96.0	93.7	65.8	72.9	17.0	10454.6	4201.4
8	MPB_113	3.0	93.7	94.0	59.2	71.5	23.8	10412.2	4962.6
5	RU1902034	3.0	96.0	99.0	57.7	70.3	39.4	10327.4	3644.9
17	RU2101208	2.3	98.0	101.0	61.7	71.3	22.2	10308.5	2727.9
12	202L2082	4.3	95.0	100.3	64.0	73.4	17.5	10180.5	4752.2
9	20LXM006	4.3	97.3	98.3	63.9	72.4	32.1	10104.4	3172.4
10	212L2254	5.0	97.7	103.3	62.7	71.1	20.5	10072.0	4086.9
13	BBC30-1	4.3	99.0	87.0	62.6	70.7	26.5	9968.8	2268.0
1	202L2096	4.3	99.7	105.3	60.9	70.3	20.6	9822.3	1783.8
11	RU2102150	5.0	97.7	94.0	63.4	70.8	28.0	9578.0	3278.4
15	212M1076	3.0	98.7	91.3	67.3	72.6	26.7	9555.6	2968.3
25	CLM04	4.3	100.3	103.3	61.8	69.7	28.2	9458.9	2849.7
14	RU2202037	3.7	96.0	102.3	67.4	71.5	21.6	9379.4	3979.9
4	212L2305	4.3	94.0	98.7	52.6	70.0	30.9	9327.8	2915.2
2	212L2252	5.0	96.0	98.3	66.6	73.0	12.7	9292.8	4016.2
20	202L2141	4.3	101.0	104.7	55.4	69.1	27.2	8889.0	2539.6
22	CLJ01	3.0	98.3	98.7	67.2	72.1	11.7	7758.0	3894.9

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

Table 10. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Conventional. H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
20	RU2102070	3.0	95.7	94.3	65.6	70.4	30.7	12163.8	4683.3
7	RU2201020	1.7	94.7	105.3	58.0	71.3	46.8	11767.9	4841.8
14	211L1227	2.3	93.3	100.3	59.2	72.0	25.7	11502.8	4603.9
8	211L1008	1.0	90.7	93.3	63.7	71.8	28.7	11403.9	4651.1
3	RU1902207	3.0	94.0	94.0	62.1	72.4	34.2	11360.6	4520.7
10	211L1154	2.3	92.7	102.0	64.6	73.7	29.1	11333.3	4716.1
4	201L1324	2.3	95.0	96.0	61.9	72.3	42.2	11312.0	4220.3
12	211L1056	1.7	94.7	94.0	62.8	72.6	32.0	11240.3	4434.2
9	211L1267	2.3	97.3	98.0	63.8	71.4	24.6	11228.6	5267.6
16	211L1225	1.7	94.7	99.0	66.9	73.6	27.3	11191.5	4728.7
2	201L1251	3.0	97.7	93.0	53.0	70.1	29.9	11079.7	4227.9
19	RU2102066	3.7	98.3	90.0	65.0	70.4	31.3	10783.6	4941.9
15	211L1070	2.3	93.3	94.3	58.3	71.7	24.3	10782.4	4467.2
13	211L1032	2.3	95.0	92.0	64.3	72.3	32.6	10619.0	5048.7
24	DG263L	3.0	97.0	99.7	60.5	68.6	30.0	10408.2	2359.9
5	201L1288	3.0	95.0	96.7	60.4	72.3	41.1	10377.1	5379.0
18	RU2102158	3.0	97.7	92.3	59.0	70.6	37.6	10251.4	5673.1
6	RU2102037	4.3	97.7	89.7	62.6	71.2	34.2	10193.1	4844.9
11	211L1228	2.3	95.0	96.0	64.3	71.0	32.2	10185.2	4939.5
1	211L1331	3.0	100.3	97.0	60.6	70.5	25.5	10088.9	4983.8
22	Avant	1.0	87.7	87.0	64.8	72.5	25.7	10012.0	4276.1
21	201M1065	3.0	101.7	92.0	65.1	70.1	26.4	9999.3	4605.2
17	211L1232	1.7	94.3	89.7	55.1	71.0	31.4	9645.9	5227.9
23	Cheniere	2.0	95.5	91.9	67.0	73.7	18.2	9576.6	4784.7
25	Jupiter	3.0	102.3	88.0	64.8	70.2	30.4	9176.7	4687.4

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

Table 11. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Provisia. H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
8	213L1041	1.0	92.7	100.0	59.5	72.3	32.3	11865.2	3786.1
3	213L1237	1.7	92.0	97.3	48.0	70.2	28.2	11339.7	3521.6
11	RU2102186	3.0	93.0	103.0	57.7	70.6	32.1	11265.1	3146.4
2	213L1130	1.7	99.0	98.7	58.0	70.0	28.2	11234.1	2990.5
4	213L1268	3.0	92.3	98.0	48.8	69.6	29.9	11044.8	3146.8
9	213L1140	3.0	94.7	98.7	51.7	69.1	23.4	10948.4	2845.8
6	213L1247	3.0	92.7	92.0	53.4	71.4	22.6	10755.5	3902.1
7	213L1183	1.7	93.0	94.3	55.4	71.5	27.7	10613.4	3049.7
13	PVL03	1.0	93.3	100.3	52.2	70.8	28.6	10563.2	3911.1
12	RU2002174	3.0	100.7	106.3	67.4	73.8	14.3	10333.4	4501.1
5	213L1135	3.0	92.3	96.7	47.4	70.4	28.3	10307.5	3562.8
1	203L1104	3.0	100.0	94.7	64.1	72.3	24.4	10098.6	4189.0
10	RU2002070	3.0	98.3	97.7	62.7	72.1	17.0	10070.6	4204.3
14	RU2201021	1.7	98.0	97.0	55.4	69.1	25.5	9077.1	3009.4

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

Table 12. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial Clearfield. McNeese State University, Calcasieu Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
25	CLM04	-	-	-	-	-	-	8608.6	-
19	RU2301022	-	-	-	-	-	-	8467.2	-
24	CLL16	-	-	-	-	-	-	8439.8	-
21	RU2101234	-	-	-	-	-	-	8428.1	-
6	RU2102222	-	-	-	-	-	-	8307.0	-
23	CLL19	-	-	-	-	-	-	8075.0	-
9	20LXM006	-	-	-	-	-	-	8068.6	-
16	212M1144	-	-	-	-	-	-	8004.1	-
18	CLL18	-	-	-	-	-	-	7975.1	-
11	RU2102150	-	-	-	-	-	-	7971.3	-
5	RU1902034	-	-	-	-	-	-	7964.9	-
22	CLJ01	-	-	-	-	-	-	7567.2	-
17	RU2101208	-	-	-	-	-	-	7539.2	-
13	BBC30-1	-	-	-	-	-	-	7456.0	-
15	212M1076	-	-	-	-	-	-	7420.5	-
1	202L2096	-	-	-	-	-	-	7398.1	-
14	RU2202037	-	-	-	-	-	-	7284.3	-
4	212L2305	-	-	-	-	-	-	7106.9	-
20	202L2141	-	-	-	-	-	-	6974.9	-
10	212L2254	-	-	-	-	-	-	6802.1	-
2	212L2252	-	-	-	-	-	-	6732.8	-
12	202L2082	-	-	-	-	-	-	6604.6	-
7	212L2014	-	-	-	-	-	-	6391.8	-
3	RU2102217	-	-	-	-	-	-	6224.4	-
8	MPB_113	-	-	-	-	-	-	5925.1	-

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

Table 13. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Conventional. McNeese State University, Calcasieu Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
7	RU2201020	-	-	-	-	-	-	9952.8	-
2	201L1251	-	-	-	-	-	-	9272.6	-
19	RU2102066	-	-	-	-	-	-	9198.4	-
20	RU2102070	-	-	-	-	-	-	8745.3	-
25	Jupiter	-	-	-	-	-	-	8615.7	-
5	201L1288	-	-	-	-	-	-	8529.4	-
6	RU2102037	-	-	-	-	-	-	8165.2	-
13	211L1032	-	-	-	-	-	-	7936.9	-
21	201M1065	-	-	-	-	-	-	7906.0	-
1	211L1331	-	-	-	-	-	-	7853.0	-
16	211L1225	-	-	-	-	-	-	7847.7	-
18	RU2102158	-	-	-	-	-	-	7846.7	-
9	211L1267	-	-	-	-	-	-	7749.2	-
15	211L1070	-	-	-	-	-	-	7711.9	-
23	Cheniere	-	-	-	-	-	-	7173.4	-
24	DG263L	-	-	-	-	-	-	7135.2	-
3	RU1902207	-	-	-	-	-	-	6858.8	-
14	211L1227	-	-	-	-	-	-	6763.0	-
17	211L1232	-	-	-	-	-	-	6716.1	-
4	201L1324	-	-	-	-	-	-	6658.5	-
11	211L1228	-	-	-	-	-	-	6453.3	-
10	211L1154	-	-	-	-	-	-	6324.9	-
12	211L1056	-	-	-	-	-	-	6125.2	-
8	211L1008	-	-	-	-	-	-	5832.6	-
22	Avant	-	-	-	-	-	-	4264.8	-

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

Table 14. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Provisia. McNeese State University, Calcasieu Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
1	203L1104	-	-	-	-	-	-	8785.7	-
14	RU2201021	-	-	-	-	-	-	8187.4	-
9	213L1140	-	-	-	-	-	-	8177.1	-
8	213L1041	-	-	-	-	-	-	7582.0	-
12	RU2002174	-	-	-	-	-	-	7157.9	-
7	213L1183	-	-	-	-	-	-	7155.5	-
6	213L1247	-	-	-	-	-	-	7133.2	-
13	PVL03	-	-	-	-	-	-	6927.5	-
10	RU2002070	-	-	-	-	-	-	6893.0	-
5	213L1135	-	-	-	-	-	-	6726.3	-
2	213L1130	-	-	-	-	-	-	6492.0	-
11	RU2102186	-	-	-	-	-	-	6407.2	-
3	213L1237	-	-	-	-	-	-	6147.0	-
4	213L1268	-	-	-	-	-	-	6061.7	-

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

Table 15. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Clearfield. Mamou, Evangeline Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
18	CLL18	2.3	-	101.7	42.2	68.0	45.0	11484.8	-
20	202L2141	3.0	-	98.7	54.5	68.9	32.0	10651.1	-
4	212L2305	3.0	-	96.3	48.8	69.8	34.8	10650.5	-
15	212M1076	3.0	-	96.0	55.5	71.2	27.7	10424.0	-
24	CLL16	3.0	-	102.3	51.4	68.8	26.7	10419.3	-
5	RU1902034	3.0	-	93.3	47.3	69.4	48.6	10363.3	-
23	CLL19	3.0	-	90.3	44.1	68.5	43.5	10244.6	-
17	RU2101208	2.3	-	96.3	55.7	70.8	31.3	10189.6	-
1	202L2096	3.0	-	105.7	60.7	69.5	18.1	9961.7	-
21	RU2101234	2.3	-	88.3	56.0	69.3	28.8	9946.5	-
16	212M1144	1.0	-	95.3	49.6	69.4	25.3	9904.9	-
19	RU2301022	3.0	-	93.7	50.8	69.5	47.8	9881.0	-
7	212L2014	3.0	-	95.7	36.9	69.1	35.3	9819.7	-
6	RU2102222	3.7	-	87.0	55.6	71.9	22.2	9794.6	-
13	BBC30-1	3.0	-	79.0	48.4	69.3	27.5	9566.0	-
10	212L2254	3.0	-	103.3	50.8	69.3	28.2	9466.3	-
3	RU2102217	3.0	-	84.0	22.4	69.0	47.7	9446.2	-
11	RU2102150	3.0	-	96.0	57.9	69.7	33.6	9385.5	-
8	MPB_113	3.0	-	89.3	43.0	71.9	25.0	9378.7	-
2	212L2252	3.0	-	95.0	58.7	71.8	17.7	9284.5	-
25	CLM04	3.0	-	100.3	63.8	72.0	19.1	9187.3	-
9	20LXM006	3.0	-	97.3	48.7	70.4	34.4	9002.0	-
14	RU2202037	3.0	-	94.7	62.4	69.0	24.4	8868.0	-
12	202L2082	3.0	-	96.0	40.1	69.8	28.0	8786.6	-
22	CLJ01	3.0	-	94.0	61.9	67.9	9.2	8400.1	-

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

Table 16. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Provisia. Mamou, Evangeline Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
9	213L1140	3.0	-	98.7	53.2	71.8	29.1	10837.4	-
14	RU2201021	3.7	-	97.3	57.0	71.2	32.7	10748.9	-
2	213L1130	3.0	-	99.7	59.1	71.3	35.4	10644.2	-
11	RU2102186	3.0	-	101.0	56.5	71.3	33.8	10521.7	-
8	213L1041	2.3	-	102.7	52.1	72.0	37.3	10322.0	-
1	203L1104	3.0	-	93.7	63.3	71.7	27.5	9967.4	-
13	PVL03	2.3	-	100.7	55.7	72.2	31.9	9842.7	-
4	213L1268	3.0	-	90.0	37.1	72.0	40.3	9462.6	-
6	213L1247	3.0	-	96.7	45.5	70.5	25.6	9438.0	-
5	213L1135	3.0	-	95.3	46.5	71.6	34.2	9210.4	-
10	RU2002070	3.0	-	99.0	61.3	72.0	15.0	9085.2	-
7	213L1183	3.0	-	92.7	49.7	71.6	32.4	9071.9	-
3	213L1237	3.0	-	91.0	45.2	71.3	36.7	8485.5	-
12	RU2002174	2.3	-	106.3	66.7	72.7	15.6	8295.2	-

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

Table 17. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Clearfield. Winnsboro, Franklin Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
19	RU2301022	-	-	-	45.8	68.7	32.2	11679.1	-
18	CLL18	-	-	-	48.5	68.2	34.5	11355.9	-
24	CLL16	-	-	-	44.1	69.3	28.4	10672.2	-
6	RU2102222	-	-	-	47.4	68.4	16.5	10648.4	-
3	RU2102217	-	-	-	27.6	68.0	42.6	10354.5	-
21	RU2101234	-	-	-	40.5	67.8	26.0	10158.2	-
1	202L2096	-	-	-	55.3	69.3	16.8	9878.0	-
25	CLM04	-	-	-	51.7	69.9	23.6	9775.5	-
16	212M1144	-	-	-	47.5	69.2	36.2	9590.6	-
17	RU2101208	-	-	-	49.3	68.1	23.3	9029.6	-
14	RU2202037	-	-	-	45.2	67.1	27.6	8821.9	-
8	MPB_113	-	-	-	45.3	68.1	28.1	8816.2	-
5	RU1902034	-	-	-	49.1	67.5	33.9	8641.5	-
15	212M1076	-	-	-	38.6	68.7	24.5	8423.5	-
20	202L2141	-	-	-	40.5	67.2	28.0	8035.0	-
23	CLL19	-	-	-	46.7	67.0	30.2	7902.1	-
9	20LXM006	-	-	-	44.8	68.4	31.9	7887.0	-
13	BBC30-1	-	-	-	44.2	66.6	28.6	7455.7	-
2	212L2252	-	-	-	52.7	69.4	11.3	7426.0	-
4	212L2305	-	-	-	45.2	68.5	31.4	6962.8	-
11	RU2102150	-	-	-	45.8	67.0	26.9	6863.2	-
12	202L2082	-	-	-	47.2	68.2	16.1	6272.6	-
22	CLJ01	-	-	-	49.5	68.2	9.3	5262.3	-
10	212L2254	-	-	-	51.3	66.5	15.9	5156.1	-
7	212L2014	-	-	-	40.1	66.5	30.9	4687.7	-

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

Table 18. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Conventional. Winnsboro, Franklin Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
7	RU2201020	-	-	-	32.4	68.8	47.6	10310.7	-
6	RU2102037	-	-	-	45.3	68.7	31.6	10210.5	-
24	DG263L	-	-	-	44.1	67.7	40.1	9977.5	-
12	211L1056	-	-	-	48.5	69.6	31.6	9939.9	-
2	201L1251	-	-	-	32.8	67.4	30.7	9578.3	-
5	201L1288	-	-	-	40.4	67.5	45.8	9221.7	-
13	211L1032	-	-	-	55.2	69.5	30.3	9167.5	-
19	RU2102066	-	-	-	54.0	69.5	26.9	8815.1	-
20	RU2102070	-	-	-	45.8	69.2	25.0	8575.2	-
18	RU2102158	-	-	-	48.1	68.8	36.2	8309.3	-
23	Cheniere	-	-	-	56.3	71.3	19.8	8235.0	-
11	211L1228	-	-	-	51.9	68.5	34.9	8234.8	-
8	211L1008	-	-	-	46.3	69.0	31.2	8222.3	-
25	Jupiter	-	-	-	47.3	68.5	30.7	8038.8	-
22	Avant	-	-	-	49.8	69.8	26.0	7989.6	-
17	211L1232	-	-	-	40.2	67.5	24.6	7895.4	-
21	201M1065	-	-	-	48.4	68.7	27.9	7703.6	-
4	201L1324	-	-	-	44.3	68.8	33.4	6605.5	-
1	211L1331	-	-	-	40.1	67.1	18.3	6115.0	-
9	211L1267	-	-	-	51.4	68.7	21.7	5757.0	-
10	211L1154	-	-	-	48.1	68.2	24.8	5233.8	-
14	211L1227	-	-	-	42.1	68.4	22.8	5025.2	-
16	211L1225	-	-	-	46.1	68.2	22.9	4679.8	-
15	211L1070	-	-	-	46.0	68.9	22.7	4612.3	-
3	RU1902207	-	-	-	46.2	67.9	22.8	2964.3	-

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

Table 19. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Provisia. Winnsboro, Franklin Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
9	213L1140	-	-	-	44.4	70.0	24.8	8973.7	-
11	RU2102186	-	-	-	48.3	69.4	28.4	8903.3	-
10	RU2002070	-	-	-	48.3	70.8	21.0	8690.6	-
2	213L1130	-	-	-	53.2	70.3	24.4	8683.2	-
6	213L1247	-	-	-	44.5	70.4	22.4	8673.2	-
13	PVL03	-	-	-	41.4	70.1	26.6	8354.2	-
4	213L1268	-	-	-	38.4	69.4	26.7	7814.9	-
3	213L1237	-	-	-	38.1	69.9	26.5	7738.7	-
5	213L1135	-	-	-	40.3	70.3	25.2	7606.4	-
7	213L1183	-	-	-	41.6	69.7	21.9	7555.1	-
12	RU2002174	-	-	-	53.1	71.4	17.4	6990.6	-
1	203L1104	-	-	-	51.0	69.6	24.0	4519.0	-
8	213L1041	-	-	-	44.0	69.0	22.7	3493.2	-
14	RU2201021	-	-	-	-	-	-	823.4	-

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

Table 20. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Clearfield. St. Joseph, Tensas Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
17	RU2101208	-	-	110.7	-	-	-	7850.2	-
24	CLL16	-	-	113.0	-	-	-	7805.1	-
4	212L2305	-	-	105.7	-	-	-	7663.5	-
21	RU2101234	-	-	104.3	-	-	-	7362.0	-
3	RU2102217	-	-	102.0	-	-	-	7121.3	-
25	CLM04	-	-	119.7	-	-	-	6848.2	-
23	CLL19	-	-	101.0	-	-	-	6787.8	-
19	RU2301022	-	-	106.0	-	-	-	6741.6	-
7	212L2014	-	-	110.3	-	-	-	6681.9	-
16	212M1144	-	-	108.0	-	-	-	6629.7	-
14	RU2202037	-	-	113.7	-	-	-	6574.9	-
8	MPB_113	-	-	100.7	-	-	-	6560.4	-
15	212M1076	-	-	105.7	-	-	-	6528.7	-
18	CLL18	-	-	106.3	-	-	-	6510.3	-
6	RU2102222	-	-	96.0	-	-	-	6451.1	-
20	202L2141	-	-	112.3	-	-	-	6359.9	-
11	RU2102150	-	-	105.7	-	-	-	6179.3	-
1	202L2096	-	-	111.3	-	-	-	6109.9	-
13	BBC30-1	-	-	88.7	-	-	-	5982.3	-
10	212L2254	-	-	113.3	-	-	-	5957.3	-
5	RU1902034	-	-	105.0	-	-	-	5938.3	-
9	20LXM006	-	-	111.3	-	-	-	5481.2	-
2	212L2252	-	-	104.7	-	-	-	5048.7	-
12	202L2082	-	-	109.0	-	-	-	5017.8	-
22	CLJ01	-	-	110.0	-	-	-	5004.1	-

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

Table 21. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Conventional. St. Joseph, Tensas Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
22	Avant	-	-	95.7	-	-	-	5961.3	-
24	DG263L	-	-	99.3	-	-	-	5930.8	-
7	RU2201020	-	-	105.7	-	-	-	5572.2	-
1	211L1331	-	-	102.3	-	-	-	5531.0	-
4	201L1324	-	-	103.7	-	-	-	5433.3	-
15	211L1070	-	-	102.3	-	-	-	5428.9	-
12	211L1056	-	-	97.3	-	-	-	5309.8	-
2	201L1251	-	-	101.3	-	-	-	5307.9	-
8	211L1008	-	-	96.7	-	-	-	5290.5	-
9	211L1267	-	-	107.3	-	-	-	5238.7	-
17	211L1232	-	-	100.0	-	-	-	5233.8	-
21	201M1065	-	-	102.3	-	-	-	4985.7	-
20	RU2102070	-	-	102.0	-	-	-	4757.8	-
18	RU2102158	-	-	100.3	-	-	-	4706.2	-
14	211L1227	-	-	107.0	-	-	-	4637.1	-
10	211L1154	-	-	113.7	-	-	-	4608.0	-
19	RU2102066	-	-	97.0	-	-	-	4470.3	-
23	Cheniere	-	-	101.7	-	-	-	4307.9	-
16	211L1225	-	-	104.3	-	-	-	4174.0	-
13	211L1032	-	-	99.0	-	-	-	4083.7	-
3	RU1902207	-	-	103.0	-	-	-	4062.6	-
6	RU2102037	-	-	93.3	-	-	-	3891.1	-
25	Jupiter	-	-	98.7	-	-	-	3644.4	-
11	211L1228	-	-	108.3	-	-	-	3265.4	-
5	201L1288	-	-	103.3	-	-	-	2798.0	-

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

Table 22. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Provisia. St. Joseph, Tensas Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
1	203L1104	-	-	100.0	-	-	-	5606.8	-
14	RU2201021	-	-	100.7	-	-	-	5466.9	-
13	PVL03	-	-	107.3	-	-	-	5061.8	-
8	213L1041	-	-	107.7	-	-	-	4568.7	-
9	213L1140	-	-	102.7	-	-	-	4542.4	-
10	RU2002070	-	-	105.0	-	-	-	4369.6	-
11	RU2102186	-	-	102.7	-	-	-	4308.2	-
6	213L1247	-	-	101.0	-	-	-	4306.3	-
7	213L1183	-	-	96.0	-	-	-	4280.2	-
4	213L1268	-	-	98.7	-	-	-	4226.6	-
5	213L1135	-	-	105.0	-	-	-	4110.7	-
3	213L1237	-	-	100.0	-	-	-	3939.4	-
2	213L1130	-	-	92.0	-	-	-	3890.7	-
12	RU2002174	-	-	103.3	-	-	-	3317.8	-

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

Table 23. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Clearfield. Palmetto, St. Landry Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
17	RU2101208	-	80.0	102.4	-	-	-	9845.2	-
3	RU2102217	-	78.7	95.7	-	-	-	9187.8	-
18	CLL18	-	81.0	108.4	-	-	-	8509.4	-
23	CLL19	-	79.0	100.8	-	-	-	8394.5	-
11	RU2102150	-	79.0	109.2	-	-	-	8385.6	-
5	RU1902034	-	79.0	108.4	-	-	-	8109.1	-
8	MPB_113	-	79.3	99.9	-	-	-	7852.7	-
2	212L2252	-	80.0	108.4	-	-	-	7801.0	-
9	20LXM006	-	80.3	113.5	-	-	-	7561.5	-
6	RU2102222	-	80.3	100.8	-	-	-	7423.2	-
7	212L2014	-	82.3	110.1	-	-	-	7270.7	-
24	CLL16	-	82.3	115.1	-	-	-	7267.9	-
21	RU2101234	-	82.3	99.9	-	-	-	7249.4	-
10	212L2254	-	79.0	112.6	-	-	-	7201.4	-
4	212L2305	-	81.0	105.8	-	-	-	7097.5	-
1	202L2096	-	84.3	112.6	-	-	-	7072.8	-
22	CLJ01	-	80.3	110.1	-	-	-	6922.9	-
16	212M1144	-	80.3	105.0	-	-	-	6888.1	-
20	202L2141	-	83.3	107.5	-	-	-	6887.7	-
19	RU2301022	-	84.7	101.6	-	-	-	6591.3	-
15	212M1076	-	79.0	97.4	-	-	-	6459.1	-
12	202L2082	-	84.0	109.2	-	-	-	6189.4	-
25	CLM04	-	84.3	105.0	-	-	-	5746.9	-
13	BBC30-1	-	80.3	83.8	-	-	-	4781.8	-
14	RU2202037	-	78.7	103.3	-	-	-	4623.9	-

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

Table 24. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Conventional. Palmetto, St. Landry Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
24	DG263L	-	80.0	107.5	-	-	-	8968.7	-
22	Avant	-	75.7	95.7	-	-	-	7926.5	-
12	211L1056	-	81.7	100.8	-	-	-	7920.7	-
2	201L1251	-	84.0	100.8	-	-	-	7887.4	-
8	211L1008	-	79.0	106.7	-	-	-	7813.6	-
17	211L1232	-	81.3	99.9	-	-	-	7704.0	-
13	211L1032	-	81.3	100.8	-	-	-	7513.8	-
9	211L1267	-	86.7	106.7	-	-	-	7249.1	-
15	211L1070	-	79.3	101.6	-	-	-	7114.4	-
1	211L1331	-	84.3	105.8	-	-	-	6947.8	-
3	RU1902207	-	82.0	105.0	-	-	-	6812.6	-
10	211L1154	-	81.0	112.6	-	-	-	6809.8	-
14	211L1227	-	81.7	109.2	-	-	-	6786.6	-
7	RU2201020	-	82.0	109.2	-	-	-	6558.5	-
6	RU2102037	-	86.0	99.1	-	-	-	6441.8	-
11	211L1228	-	82.3	107.5	-	-	-	6378.2	-
16	211L1225	-	83.0	106.7	-	-	-	6303.6	-
4	201L1324	-	83.0	103.3	-	-	-	6174.6	-
5	201L1288	-	86.7	103.3	-	-	-	6004.2	-
23	Cheniere	-	83.5	100.3	-	-	-	5548.8	-
20	RU2102070	-	79.3	87.2	-	-	-	5546.4	-
18	RU2102158	-	85.3	98.2	-	-	-	5430.0	-
19	RU2102066	-	80.5	84.7	-	-	-	4398.6	-
21	201M1065	-	84.7	81.3	-	-	-	3906.1	-
25	Jupiter	-	85.0	83.0	-	-	-	3102.4	-

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

Table 25. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Provisia. Palmetto, St. Landry Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield lb/A)
11	RU2102186	-	82.7	107.5	-	-	-	6956.5	-
8	213L1041	-	82.3	114.3	-	-	-	6696.7	-
13	PVL03	-	82.7	107.5	-	-	-	6569.1	-
10	RU2002070	-	84.3	107.5	-	-	-	6439.0	-
7	213L1183	-	80.0	104.1	-	-	-	6357.8	-
14	RU2201021	-	88.0	104.1	-	-	-	6339.6	-
9	213L1140	-	82.0	108.4	-	-	-	6282.3	-
1	203L1104	-	87.3	99.9	-	-	-	6217.4	-
5	213L1135	-	81.0	106.7	-	-	-	5954.5	-
4	213L1268	-	79.7	104.1	-	-	-	5914.4	-
2	213L1130	-	86.7	105.0	-	-	-	5870.5	-
3	213L1237	-	80.0	105.0	-	-	-	5863.7	-
6	213L1247	-	83.7	103.3	-	-	-	4904.6	-
12	RU2002174	-	87.0	101.6	-	-	-	4391.0	-

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

Table 26. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Clearfield. Lake Arthur, Vermilion Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
18	CLL18	-	-	113.0	48.6	66.5	45.5	10497.8	-
9	20LXM006	-	-	94.3	62.6	73.2	31.6	9893.1	-
21	RU2101234	-	-	95.7	63.7	70.0	27.2	9282.8	-
23	CLL19	-	-	91.3	55.5	70.7	37.8	9265.8	-
5	RU1902034	-	-	93.0	54.7	70.3	42.6	9053.1	-
4	212L2305	-	-	97.7	58.7	71.4	34.0	9011.1	-
3	RU2102217	-	-	89.7	46.4	71.9	48.3	8861.0	-
6	RU2102222	-	-	89.0	58.7	70.7	22.2	8523.7	-
16	212M1144	-	-	101.0	66.6	71.6	28.0	8442.2	-
15	212M1076	-	-	97.3	66.4	73.4	22.9	8382.9	-
1	202L2096	-	-	105.3	61.1	70.9	17.6	8310.6	-
11	RU2102150	-	-	95.3	61.1	70.4	31.7	8305.4	-
2	212L2252	-	-	94.0	61.8	70.8	17.6	8233.6	-
7	212L2014	-	-	95.7	59.1	71.6	34.6	8057.4	-
20	202L2141	-	-	101.7	51.0	68.5	26.2	7931.3	-
8	MPB_113	-	-	86.0	49.3	70.9	30.6	7778.2	-
10	212L2254	-	-	93.3	60.1	69.3	21.3	7722.6	-
25	CLM04	-	-	101.0	66.7	70.8	19.8	7499.5	-
24	CLL16	-	-	102.3	53.2	68.1	29.4	7371.0	-
17	RU2101208	-	-	97.3	49.4	65.3	23.1	6915.6	-
22	CLJ01	-	-	95.7	65.7	71.3	11.9	6892.3	-
14	RU2202037	-	-	96.3	66.2	70.8	22.5	6706.0	-
13	BBC30-1	-	-	81.3	65.5	71.6	19.7	6686.1	-
12	202L2082	-	-	95.7	46.6	71.9	21.3	6639.7	-
18	CLL18	-	-	113.0	48.6	66.5	45.5	10497.8	-

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

Table 27. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Conventional. Lake Arthur, Vermilion Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
24	DG263L	-	-	97.7	60.9	69.0	29.4	10671.9	-
8	211L1008	-	-	92.0	60.9	71.0	32.9	10103.6	-
22	Avant	-	-	90.3	63.5	72.4	27.1	9702.3	-
2	201L1251	-	-	96.0	43.0	68.7	37.1	9669.6	-
20	RU2102070	-	-	95.3	65.2	69.0	26.6	9566.3	-
6	RU2102037	-	-	95.0	56.1	69.4	29.3	9413.9	-
7	RU2201020	-	-	101.7	39.9	68.3	45.8	9393.9	-
3	RU1902207	-	-	97.0	59.1	71.0	30.9	9392.9	-
4	201L1324	-	-	95.3	55.3	70.8	40.1	9373.8	-
5	201L1288	-	-	99.0	48.7	69.3	41.3	9363.8	-
1	211L1331	-	-	101.3	60.4	70.1	19.9	9358.3	-
17	211L1232	-	-	94.0	48.5	69.7	28.1	9323.0	-
12	211L1056	-	-	91.3	54.3	71.1	30.3	9284.6	-
11	211L1228	-	-	98.7	60.4	70.1	31.1	9021.9	-
13	211L1032	-	-	95.0	61.4	71.2	34.2	8794.1	-
21	201M1065	-	-	92.3	62.8	68.0	27.6	8434.1	-
9	211L1267	-	-	93.7	61.5	70.9	27.7	8370.5	-
16	211L1225	-	-	100.7	62.8	71.1	19.9	8305.7	-
23	Cheniere	-	-	97.7	63.8	72.9	14.5	8298.1	-
18	RU2102158	-	-	90.3	46.4	68.1	36.3	7975.0	-
14	211L1227	-	-	97.0	54.1	70.2	24.9	7715.6	-
19	RU2102066	-	-	91.3	63.6	69.1	29.9	7676.9	-
10	211L1154	-	-	102.7	60.6	71.4	24.1	7515.6	-
15	211L1070	-	-	91.7	56.8	70.1	21.9	7044.4	-
25	Jupiter	-	-	91.3	63.4	68.2	32.7	5943.2	-

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

Table 28. Grain and milling yields and agronomic performance of entries in the 2023 Advanced Yield Trial – Provisia. Lake Arthur, Vermilion Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
9	213L1140	-	-	101.7	47.9	68.5	26.3	11131.9	-
11	RU2102186	-	-	102.0	53.3	69.8	33.4	10686.6	-
1	203L1104	-	-	102.7	61.1	70.5	22.2	10524.8	-
4	213L1268	-	-	100.3	53.9	70.1	33.5	10404.0	-
2	213L1130	-	-	101.3	58.4	70.8	26.9	10083.3	-
8	213L1041	-	-	102.7	55.4	70.6	32.5	9986.8	-
6	213L1247	-	-	101.7	55.0	70.6	21.7	9967.9	-
10	RU2002070	-	-	104.3	60.2	72.3	18.8	9790.1	-
5	213L1135	-	-	104.7	54.9	71.2	29.4	9781.1	-
3	213L1237	-	-	99.7	48.8	69.5	35.8	9742.9	-
13	PVL03	-	-	103.3	55.5	71.3	31.3	9673.4	-
7	213L1183	-	-	99.0	56.6	71.1	30.2	9632.8	-
14	RU2201021	-	-	107.0	54.2	68.8	19.8	9426.4	-
12	RU2002174	-	-	107.0	62.5	71.7	15.2	7909.0	-

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

REGIONAL YIELD TEST

The Regional Yield Test (RYT) in 2023 included four environments with two planting dates at the H. Rouse Caffey Rice Research Station (HRCRRS), one environment at the HRCRRS South Farm (SF) and one environment in Vermilion Parish (Lake Arthur – LK). Planting and harvesting dates are shown in Table 1 across all locations.

One hundred sixty-one entries were tested in a randomized complete-block design with two replications. Varieties were seeded at 75 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 2023.

Location	Trial	Planting	Harvesting
HRCRRS	RYT-CL-RRS	3/1	7/25
	RYT-CN-RRS	2/27	7/26
	RYT-PV-RRS	2/28	7/25
HRCRRS-Late	RYT-CL-RRSL	4/18	8/16
	RYT-CN-RRSL	4/19	8/18
	RYT-PV-RRSL	4/14	8/15
HRCRRS-South Farm	RYT-CL-SF	3/8	7/28
	RYT-CN-SF	3/8	7/28
	RYT-PV-SF	3/8	7/28
Vermilion (Lake Arthur)	RYT-CL-LK	3/15	7/26
	RYT-CN-LK	3/15	7/26
	RYT-PV-LK	3/15	7/27

Table 2. Entry number, pedigree, and grain type for entries in the Regional Yield Test, 2023.

Herbicide Type	Entry	Line	Pedigree	Grain Type†	Source‡
CL	1	RU2102150	CL163/CL153	HI	LAES
CL	2	202L2109	CL163/172A1739	HI	LAES
CL	3	202L2141	CL163/CLJ01	HI	LAES
CL	4	MP6_157	CL111/RoyJ//CL153/Lakast/3/CL153/Lakast//CL172/Cypress	LG	LAES
CL	5	MP6_219	CL111/RoyJ//CL153/Lakast/3/CL153/Lakast//CL172/Cypress	LG	LAES
CL	6	MP6_392	CL111/RoyJ//CL153/Lakast/3/CL153/Lakast//CL172/Cypress	LG	LAES
CL	7	MP6_397	CL111/RoyJ//CL153/Lakast/3/CL153/Lakast//CL172/Cypress	LG	LAES
CL	8	MP6_434	CL111/RoyJ//CL153/Lakast/3/CL153/Lakast//CL172/Cypress	LG	LAES
CL	9	19T-176-CONV-38	RU1702165/RU1801211	MG	LAES
CN	10	18T196-10	CL272/Titan	MG	LAES
CL	11	222L1038	RU1602195/172L1264	LG	LAES
CL	12	222L1044	CL153/RU1902138	LG	LAES
CL	13	222L1045	CL153/RU1902138	LG	LAES
CL	14	222L1057	RU1902126/CL153	LG	LAES
CL	15	222L1058	RU1902126/CL153	LG	LAES
CL	16	222L1071	CL153/RU1602195	LG	LAES
CL	17	222L1074	CL153/RU1602195	LG	LAES
CL	18	222L1075	CL153/RU1602195	LG	LAES
CL	19	222L1077	171L1786/CL153	LG	LAES
CL	20	222L1079	171L1786/CL153	LG	LAES
CL	21	222L1082	171L1786/CL153	LG	LAES
CL	22	222L1085	RU1702183/CL111	LG	LAES
CL	23	222L1087	RU1702183/CL111	LG	LAES
CL	24	222L1118	RU1602195/CL153	LG	LAES
CL	25	222L1121	RU1602195/CL153	LG	LAES
CL	26	222L1124	RU1602195/CL153	LG	LAES
CL	27	222L1126	182L1278/CL111	LG	LAES
CL	28	222L1131	182L1278/CL111	LG	LAES
CL	29	222L1143	RU1801169/RU1902126	LG	LAES
CL	30	222L1147	RU1801169/RU1902126	HI	LAES
CL	31	222L1149	RU1801169/RU1902126	LG	LAES
CL	32	222L1161	Diamond/RU1902146	LG	LAES
CL	33	222L1190	RoyJ/CL153	LG	LAES
CL	34	222M1015	RU1702125/RU1702165	MG	LAES
CL	35	222M1096	RU1902174/Lynx	MG	LAES
CL	36	222M1097	RU1902174/Lynx	MG	LAES
CL	37	222M1098	CLM04/RU1802174	MG	LAES
CL	38	19T-029-4	182L1278/RU1702183	LG	LAES
CL	39	19T-029-24	182L1278/RU1702183	LG	LAES
CL	40	19T-030-24	182L2195/RU1702183	LG	LAES
CL	41	19T-030-46	182L2195/RU1702183	LG	LAES
CL	42	19T-030-74	182L2195/RU1702183	LG	LAES
CL	43	19T-033-31	CL153/RU1702183	LG	LAES
CL	44	19T-033-35	CL153/RU1702183	LG	LAES
CL	45	19T-033-38	CL153/RU1702183	LG	LAES
CL	46	19T-033-63	CL153/RU1702183	LG	LAES
CL	47	19T-033-66	CL153/RU1702183	LG	LAES
CL	48	19T-053-13	CL111/182L2166	LG	LAES
CL	49	19T-106-CL-57	CL153/RU1902207	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CL	50	19T-106-CL-71	CL153/RU1902207	LG	LAES
CL	51	19T-140-74	181L2002/CL153	LG	LAES
CL	52	19T-140-79	181L2002/CL153	LG	LAES
CL	53	19T-176-CL-88	RU1702165/RU1801211	MG	LAES
CL	54	19T-183-CL-6	RU1902174/RU1801211	MG	LAES
CL	55	19T-183-CL-13	RU1902174/RU1801211	MG	LAES
CL	56	19T-183-CL-16	RU1902174/RU1801211	MG	LAES
CL	57	CLL18	RoyJ/CL142AR	LG	AAES
CL	58	CLL16	248WE16I5/Taggart/7/248Drew16C13/6/LaGrue//Katy/ Starbonnet/5/Newbonnet/Katy//RA73/Lemont/4/Lebonnet/ 71CR5038/3/Dawn/STG653888//Starbonnet	LG	AAES
CL	59	CLM04	RU1202168/Jupiter	MG	AAES
CL	60	CLL19	Wells/CL161//Drew/CL161/3/Cheniere//Cocodrie/Jefferson	LG	LAES
CN	1	201L1251	Catahoula/Lakast	LG	LAES
CN	2	211L1124	RU1902186/182L2166	LG	LAES
CN	3	211L1293	Catahoula/CL153	LG	LAES
CL	4	20T-071-25	RU1902142/DG263L	LG	LAES
CL	5	20T-071-40	RU1902142/DG263L	LG	LAES
CL	6	20T-071-42	RU1902142/DG263L	LG	LAES
CL	7	20T-071-53	RU1902142/DG263L	LG	LAES
CL	8	20T-073-16	RU1602195/DG263L	LG	LAES
CN	9	20T-155-08	Avant/DG263L	LG	LAES
CN	10	221L1001	CL131/Lakast	LG	LAES
CN	11	221L1002	CL131/Lakast	LG	LAES
CN	12	221L1013	RU1702183/Avant	LG	LAES
CN	13	221L1015	RU1702183/Avant	LG	LAES
CN	14	221L1024	RU2002122/RU1902186	HI	LAES
CN	15	221L1032	INIA08/RU2002150	LG	LAES
CN	16	221L1060	RU2002150/CL111	LG	LAES
CN	17	221L1061	Avant/CL111	LG	LAES
CN	18	221L1087	CL153/RU1902207	LG	LAES
CN	19	221L1099	RU1702140/CL111	LG	LAES
CN	20	221L1126	RU2002150/CLL17	LG	LAES
CN	21	221L1143	RU1602195/Diamond	LG	LAES
CN	22	221L1150	RU1602195/Diamond	LG	LAES
CN	23	221L1182	CLL15/INIA08	HI	LAES
CN	24	221L1202	RU1902186/181L2002	LG	LAES
CN	25	221L1203	RU1902186/181L2002	LG	LAES
CN	26	221M1016	181M1740/RU1902227	MG	LAES
CN	27	221M1021	181M1740/BBC35-1	MG	LAES
CN	28	221M1033	RU1902178/Lynx	MG	LAES
CN	29	221M1041	RU1902227/RU1801211	MG	LAES
CN	30	221M1083	CL272/RU1801211	MG	LAES
CN	31	221M1095	Neptune/5/Bengal//Mercury/Rico/3/Mercury/Rico//Bengal/4/ Mars/6/Bengal//Mercury/Rico/3/Mercury/Rico//Bengal/4/Mars	MG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type†	Source‡
CN	32	MP6_060	CL111/RoyJ//CL153/Lakast/3/CL153/Lakast//CL172/Cypress	LG	LAES
CN	33	MP6_244	CL111/RoyJ//CL153/Lakast/3/CL153/Lakast//CL172/Cypress	LG	LAES
CN	34	MP6_292	CL111/RoyJ//CL153/Lakast/3/CL153/Lakast//CL172/Cypress	LG	LAES
CN	35	MP6_295	CL111/RoyJ//CL153/Lakast/3/CL153/Lakast//CL172/Cypress	LG	LAES
CN	36	19T-217-39	Catahoula/Avant	LG	LAES
CN	37	19T-217-69	Catahoula/Avant	LG	LAES
CN	38	19T-217-71	Catahoula/Avant	LG	LAES
CN	39	19T-217-74	Catahoula/Avant	LG	LAES
CN	40	19T-218-19	RU1702140/RU1902207	LG	LAES
CN	41	19T-218-30	RU1702140/RU1902207	LG	LAES
CN	42	19T-218-43	RU1702140/RU1902207	LG	LAES
CN	43	19T-218-86	RU1702140/RU1902207	LG	LAES
CN	44	19T-218-87	RU1702140/RU1902207	LG	LAES
CN	45	19T-218-91	RU1702140/RU1902207	LG	LAES
CN	46	19T-218-45	RU1702140/RU1902207	LG	LAES
CN	47	19T-218-42	RU1702140/RU1902207	LG	LAES
CN	48	19T-220-94	Catahoula/RU1902207	LG	LAES
CN	49	19T-238-3	RU1902207/RU1804187	LG	LAES
CN	50	19T-238-33	RU1902207/RU1804187	LG	LAES
CN	51	19T-238-34	RU1902207/RU1804187	LG	LAES
CN	52	19T-238-62	RU1902207/RU1804187	LG	LAES
CN	53	19T-238-73	RU1902207/RU1804187	LG	LAES
CN	54	19T-238-13	RU1902207/RU1804187	LG	LAES
CN	55	19T-176-CONV-3	RU1702165/RU1801211	MG	LAES
CN	56	19T-176-CONV-6	RU1702165/RU1801211	MG	LAES
CN	57	20T-155-85	Avant/DG263L	LG	LAES
CN	58	20T-177-84	RU2002146/DG263L	LG	LAES
CN	59	20T-156-82	RU2002217/DG263L	LG	LAES
CN	60	Titan	M206/STG99F507118//Jupiter	MG	AAES
CN	61	Taurus	Rico1/Bengal//RU0602162/RU0502031	MG	AAES
CN	62	DG263L		HI	Nutrien
CN	63	RU1902207	Catahoula/Mermentau	LG	LAES
CN	64	Avant	Trenasse//Cocodrie/Jefferson/3/Ahrent/Cocodrie//Cocodrie/LaGrue	LG	LAES
CN	65	Cheniere	Newbonnet/Katy/3/L202/Lemont//L202	HI	LAES
CN	66	Jupiter	Bengal/Rico1/3/Bengal//Mercury/Rico1	MG	LAES
PV	1	203L1104	RU1502115/PVL01	LG	LAES
PV	2	RU2102186	PVL01/Catahoula	HI	LAES
PV	3	223L1001	PVL01/Cheniere	HI	LAES
PV	4	223L1027	CL111/183L2070	LG	LAES
PV	5	223L1037	RU1902126/PVL01	HI	LAES
PV	6	223L1065	PVL03/Cheniere	HI	LAES
PV	7	223L1064	PVL03/Cheniere	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
PV	8	223L1128	183L2070/RU2002150	LG	LAES
PV	9	223L1133	183L2070/RU2002150	LG	LAES
PV	10	223L1139	Diamond/183L2070	LG	LAES
PV	11	223L1145	Diamond/183L1227	LG	LAES
PV	12	223L1147	Diamond/183L1227	LG	LAES
PV	13	223L1148	Diamond/183L1227	LG	LAES
PV	14	223L1173	183L1227/RU1902194	LG	LAES
PV	15	223L1183	183L2070/RU1902186	LG	LAES
PV	16	223L1184	183L2070/RU1902186	LG	LAES
PV	17	223L1191	183L2070/RU1902186	LG	LAES
PV	18	223L1196	183L2070/RU1902186	LG	LAES
PV	19	223L1212	PVL03/RU1902194	LG	LAES
PV	20	223L1213	PVL03/RU1902194	LG	LAES
PV	21	223L1216	PVL03/RU1902194	LG	LAES
PV	22	223L1218	PVL03/RU1902194	LG	LAES
PV	23	223L1221	PVL03/RU1902194	LG	LAES
PV	24	223L1236	INIA06/PVL03	LG	LAES
PV	25	223L1247	INIA06/PVL03	LG	LAES
PV	26	19T-262-62	Catahoula/PVL03	LG	LAES
PV	27	19T-262-76	Catahoula/PVL03	LG	LAES
PV	28	19T-262-128	Catahoula/PVL03	LG	LAES
PV	29	19T-262-184	Catahoula/PVL03	LG	LAES
PV	30	19T-262-191	Catahoula/PVL03	LG	LAES
PV	31	19T-262-239	Catahoula/PVL03	LG	LAES
PV	32	19T-262-244	Catahoula/PVL03	LG	LAES
PV	33	19T-262-278	Catahoula/PVL03	LG	LAES
PV	34	RU2201021	18SIT0557/RU2201021-BC2	HI	AAES
PV	35	PVL03	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, LA; AAES – Arkansas Agricultural Experiment Station, Stuttgart, AR; and Nutrien Ag Solutions, El Campo, TX.

Table 3. Grain and milling yields and agronomic performance of entries in the 2023 Regional Yield Test – Clearfield. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
45	19T-033-38	5.0	99.0	99.5	62.2	70.0	26.6	11127.4	1709.8
60	CLL19	3.0	98.0	92.0	61.5	69.9	27.8	10070.1	2785.2
52	19T-140-79	3.0	97.0	99.5	63.2	72.6	31.5	9869.8	3380.3
17	222L1074	4.0	97.5	99.0	65.4	72.3	23.9	9784.4	3389.6
21	222L1082	4.0	95.5	106.5	65.3	73.5	20.1	9630.0	3152.7
44	19T-033-35	3.0	98.5	95.5	62.9	70.6	23.2	9627.1	2026.9
41	19T-030-46	3.0	97.0	94.0	65.1	71.2	24.6	9594.9	3407.0
35	222M1096	3.0	101.0	94.0	68.4	71.9	19.6	9592.7	4804.2
48	19T-053-13	3.0	95.5	97.5	59.1	71.7	25.2	9580.3	4745.1
54	19T-183-CL-6	4.0	98.0	100.0	65.4	72.3	31.7	9570.3	3639.1
47	19T-033-66	3.0	96.0	98.0	63.0	70.8	26.6	9538.4	2313.4
37	222M1098	3.0	98.0	95.0	65.7	71.9	17.9	9457.6	3334.9
32	222L1161	4.0	98.5	93.0	59.7	69.6	28.4	9449.4	3043.4
22	222L1085	4.0	97.5	102.5	61.2	70.7	23.7	9415.9	3584.1
34	222M1015	4.0	103.0	98.0	65.9	70.5	25.6	9388.4	3667.8
11	222L1038	4.0	98.5	102.5	63.2	70.6	30.7	9366.8	2197.6
27	222L1126	4.0	100.0	103.5	65.8	71.1	25.6	9365.4	2448.8
46	19T-033-63	3.0	99.5	97.0	64.2	70.6	25.1	9345.0	2914.3
30	222L1147	5.0	98.5	96.5	56.4	69.2	21.5	9306.0	1140.6
53	19T-176-CL-88	4.0	98.5	99.5	65.7	70.4	20.4	9246.0	3437.2
42	19T-030-74	3.0	99.0	95.5	66.1	71.9	25.1	9221.6	2832.9
7	MP6_397	3.0	97.5	92.0	58.1	70.6	27.6	9180.0	1999.8
26	222L1124	3.0	99.0	98.0	63.7	71.5	24.8	9135.6	3548.2
59	CLM04	3.0	100.5	95.5	68.4	73.8	21.4	9121.3	1668.0
16	222L1071	4.0	99.0	96.0	63.6	70.8	20.0	9088.9	3966.4
43	19T-033-31	3.0	99.5	98.0	62.4	69.8	24.6	9087.6	3073.9
23	222L1087	3.0	96.0	98.0	61.5	70.7	33.5	9086.1	3373.2
49	19T-106-CL-57	3.0	98.5	93.5	63.1	72.1	33.6	9081.7	4142.1
4	MP6_157	4.0	97.5	87.5	63.0	72.0	29.1	9080.5	1876.2
1	RU2102150	4.0	99.0	96.0	61.8	69.5	26.3	9061.2	2731.0
40	19T-030-24	4.0	97.5	96.5	61.2	70.2	27.2	9026.4	3258.9
19	222L1077	4.0	102.0	102.0	65.2	71.5	19.9	8999.3	2969.3
24	222L1118	3.0	98.5	99.5	64.2	70.9	24.2	8955.1	2703.2
12	222L1044	4.0	101.0	98.5	62.9	71.6	24.6	8950.3	2689.5
28	222L1131	3.0	99.0	103.0	63.3	71.9	26.2	8916.8	1991.9
51	19T-140-74	3.0	99.0	101.5	63.0	70.7	26.0	8906.4	3581.4
6	MP6_392	3.0	98.5	87.5	62.3	72.3	22.5	8818.4	3598.6
9	19T-176-CONV-38	3.0	98.0	98.5	60.8	72.0	20.8	8768.9	2585.0
31	222L1149	3.0	99.0	99.0	60.7	70.2	20.8	8761.0	3366.7
39	19T-029-24	5.0	98.5	96.0	64.2	70.3	23.2	8745.8	2228.5
3	202L2141	3.0	101.5	100.5	52.3	67.7	25.7	8706.7	3123.6

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
18	222L1075	3.0	96.5	97.5	60.1	70.2	22.9	8706.5	3046.3
25	222L1121	3.0	100.5	98.5	64.6	71.0	23.7	8664.3	2850.4
57	CLL18	3.0	101.0	103.0	53.3	66.8	38.2	8600.2	1615.0
15	222L1058	3.0	98.0	96.5	64.9	72.7	15.2	8580.2	3724.8
38	19T-029-4	3.0	99.5	95.5	63.9	71.4	23.9	8579.9	2793.1
20	222L1079	5.0	101.5	100.0	64.9	71.4	21.6	8537.3	4154.0
29	222L1143	4.0	100.0	96.5	63.3	71.1	27.6	8461.4	3702.7
33	222L1190	4.0	103.0	106.0	57.4	69.6	30.2	8388.2	3780.6
14	222L1057	3.0	97.5	96.0	64.5	71.3	17.3	8354.5	3575.4
13	222L1045	4.0	101.0	97.5	64.8	71.6	23.2	8310.8	4054.5
2	202L2109	5.0	100.0	99.5	63.2	71.5	24.0	8263.3	4066.4
50	19T-106-CL-71	3.0	99.5	91.5	60.3	71.5	26.2	8249.1	3263.3
56	19T-183-CL-16	4.0	98.5	97.5	65.7	70.9	29.8	8230.7	3414.1
5	MP6_219	3.0	100.0	97.0	60.6	70.0	26.9	8140.4	4147.0
58	CLL16	3.0	103.0	100.0	54.5	68.4	31.4	8011.9	1951.9
10	18T196-10	5.0	99.0	102.0	65.3	69.4	41.9	7914.0	3587.1
36	222M1097	4.0	102.0	88.5	67.4	71.2	18.1	7471.4	4424.3
55	19T-183-CL-13	4.0	101.0	90.5	67.9	72.1	30.3	7122.2	3958.4
8	MP6_434	4.0	102.5	87.5	62.4	71.0	23.7	5836.7	3499.7

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

Table 4. Grain and milling yields and agronomic performance of entries in the 2023 Regional Yield Test – Conventional. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
61	Taurus	-	100.5	85.0	57.6	75.9	22.5	9539.2	2031.2
62	DG263L	-	104.0	95.0	59.5	70.4	32.1	9395.1	1244.5
49	19T-238-3	-	103.5	96.0	51.5	70.7	38.4	8875.6	3275.6
15	221L1032	-	107.5	100.5	58.3	71.4	21.8	8779.0	3052.4
42	19T-218-43	-	101.5	98.0	62.5	74.2	33.2	8718.5	2432.5
35	MP6_295	-	100.5	93.0	56.4	72.8	44.9	8702.0	2975.1
64	Avant	-	93.0	85.5	61.6	72.9	29.6	8631.0	2801.7
27	221M1021	-	99.5	86.5	50.8	72.1	39.4	8609.2	833.0
12	221L1013	-	97.5	90.5	59.1	73.7	28.6	8536.1	3282.2
24	221L1202	-	100.5	101.0	58.8	73.0	39.9	8532.0	2539.6
52	19T-238-62	-	102.5	102.0	57.2	72.2	47.9	8515.4	2188.0
20	221L1126	-	100.5	98.5	59.3	73.7	33.8	8482.2	2204.5
38	19T-217-71	-	96.5	86.5	59.7	73.6	27.5	8425.9	2657.3
39	19T-217-74	-	98.5	97.0	59.5	76.0	35.6	8372.9	1970.0
50	19T-238-33	-	100.5	93.0	53.4	73.8	41.2	8357.6	3254.3
19	221L1099	-	98.0	91.5	60.0	73.2	27.7	8323.0	2410.9
46	19T-218-45	-	100.0	97.5	57.2	74.4	35.9	8287.5	2079.4
54	19T-238-13	-	101.5	96.5	62.1	74.7	47.2	8273.5	2274.8
45	19T-218-91	-	101.5	96.5	56.9	72.9	30.8	8251.1	3278.5
36	19T-217-39	-	99.5	90.5	58.1	73.6	36.9	8221.2	2948.0
53	19T-238-73	-	102.5	99.0	62.1	72.2	36.1	8162.1	2190.3
1	201L1251	-	104.5	89.0	52.4	71.8	36.0	8158.4	2944.1
8	20T-073-16	-	98.5	91.0	59.2	71.8	37.4	8141.0	2541.0
41	19T-218-30	-	100.0	96.0	59.6	74.3	30.3	8126.9	3040.0
56	19T-176-CONV-6	-	102.0	104.5	58.4	74.3	19.4	8122.2	2455.5
29	221M1041	-	102.5	91.0	56.3	73.8	31.6	8110.9	2064.2
55	19T-176-CONV-3	-	102.5	98.0	62.7	72.8	19.2	8052.9	2358.5
21	221L1143	-	98.0	112.0	56.1	73.5	44.4	8039.0	2451.8
37	19T-217-69	-	95.0	87.0	61.4	73.6	33.6	8029.0	2705.2
2	211L1124	-	101.5	98.5	65.5	74.2	35.3	8017.2	3829.9
18	221L1087	-	98.0	86.5	57.5	72.3	41.0	8014.1	2159.5
4	20T-071-25	-	103.5	87.0	49.7	68.8	45.9	7985.8	2888.9
48	19T-220-94	-	101.0	89.0	54.1	74.3	41.8	7943.4	2036.1
57	20T-155-85	-	99.5	94.5	50.8	71.4	46.1	7942.9	2475.7
6	20T-071-42	-	100.0	95.5	65.2	75.1	32.9	7897.4	2938.8
23	221L1182	-	103.0	100.0	58.6	72.6	26.9	7886.2	3179.9
60	Titan	-	98.5	86.5	58.1	72.1	37.2	7870.4	2570.1
26	221M1016	-	102.0	88.0	58.1	72.4	24.4	7829.1	1558.4
10	221L1001	-	100.0	93.0	55.8	72.9	29.4	7827.8	2370.5
17	221L1061	-	98.0	88.5	64.3	75.0	37.5	7805.4	2431.5
63	RU1902207	-	101.5	96.5	60.6	73.7	30.7	7749.8	3185.2

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
28	221M1033	-	103.0	101.5	64.3	74.7	30.1	7727.1	2008.2
22	221L1150	-	102.5	86.0	61.5	73.0	36.0	7693.3	3854.5
25	221L1203	-	97.5	100.0	55.4	74.3	45.8	7691.4	2325.9
11	221L1002	-	100.5	99.0	56.2	73.3	40.8	7676.6	2212.3
47	19T-218-42	-	99.5	93.0	59.8	73.6	41.3	7568.6	2522.4
59	20T-156-82	-	102.0	95.0	48.6	69.9	41.4	7567.3	2515.6
16	221L1060	-	100.5	91.5	57.5	73.3	41.4	7447.2	2884.1
65	Cheniere	-	101.0	91.2	65.7	74.5	19.3	7389.9	3699.0
40	19T-218-19	-	104.0	101.5	62.1	73.0	30.7	7373.3	2975.8
9	20T-155-08	-	100.0	101.0	58.5	69.2	29.9	7254.9	3593.4
30	221M1083	-	102.5	91.0	52.8	72.0	22.0	7185.2	2085.5
32	MP6_060	-	105.5	85.0	58.4	73.3	28.4	7174.8	1549.0
33	MP6_244	-	104.5	94.0	65.6	72.5	28.7	7158.5	3183.5
44	19T-218-87	-	102.0	94.5	54.8	72.2	26.8	7124.2	2685.8
14	221L1024	-	105.0	97.0	60.4	72.3	29.0	7121.9	2576.3
34	MP6_292	-	98.0	94.5	57.2	71.8	39.2	7110.8	2881.0
7	20T-071-53	-	104.0	87.0	53.7	69.6	30.1	7067.2	2631.1
43	19T-218-86	-	103.0	98.5	64.9	74.0	22.4	7040.8	2528.6
66	Jupiter	-	103.0	92.5	65.6	72.9	36.4	6977.0	2633.6
51	19T-238-34	-	104.0	89.0	58.9	74.0	43.3	6944.7	2302.0
13	221L1015	-	100.5	86.5	57.6	73.6	30.2	6935.6	1905.0
58	20T-177-84	-	99.0	94.0	40.2	70.6	39.6	6862.2	2553.4
3	211L1293	-	104.0	92.0	56.2	72.7	36.8	6664.9	3154.8
31	221M1095	-	104.5	82.5	66.1	74.8	26.7	6466.9	2204.0
5	20T-071-40	-	98.5	79.5	47.9	69.3	35.4	6236.8	1268.2

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

Table 5. Grain and milling yields and agronomic performance of entries in the 2023 Regional Yield Test – Provisia. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
24	223L1236	4.0	93.5	100.0	42.8	70.2	21.4	8986.7	3599.4
20	223L1213	3.0	93.5	98.0	55.7	71.8	44.3	8822.9	2607.9
11	223L1145	4.0	96.0	97.0	57.7	71.3	30.9	8776.4	3147.4
17	223L1191	4.0	99.5	99.0	55.0	71.2	37.4	8770.5	3450.6
19	223L1212	4.0	95.5	92.5	57.8	71.7	28.5	8761.4	2962.3
16	223L1184	4.0	99.0	99.0	58.9	72.7	31.7	8655.1	3062.5
5	223L1037	5.0	103.5	90.0	58.0	71.3	17.2	8641.1	1452.3
10	223L1139	4.0	100.0	100.5	62.0	73.1	27.1	8558.7	2899.0
35	PVL03	3.0	98.5	95.5	55.1	72.4	30.1	8440.0	2349.4
1	203L1104	5.0	103.0	93.0	64.3	72.5	23.0	8408.9	3260.4
34	RU2201021	5.0	103.5	96.0	56.7	70.3	25.5	8408.6	1280.9
6	223L1065	4.0	96.0	93.0	62.2	73.6	29.6	8363.8	1857.7
14	223L1173	4.0	103.5	97.0	63.0	72.0	23.0	8292.1	3649.3
2	RU2102186	4.0	100.5	95.0	60.6	72.6	22.4	8247.4	1979.0
12	223L1147	4.0	95.5	93.0	56.7	71.5	24.7	8237.8	2790.4
8	223L1128	4.0	101.0	93.5	56.1	73.5	24.6	8199.2	1401.6
21	223L1216	4.0	96.0	87.0	59.6	72.3	36.9	8172.9	2184.9
15	223L1183	3.0	100.0	98.0	59.0	71.6	30.0	8068.4	2718.4
32	19T-262-244	5.0	96.0	94.5	48.7	71.9	31.5	8003.4	2563.7
18	223L1196	5.0	99.0	95.5	51.8	72.4	31.2	8000.0	827.8
33	19T-262-278	4.0	98.5	90.0	50.4	71.0	28.1	7958.2	2586.3
4	223L1027	4.0	96.5	91.0	51.1	71.8	26.9	7931.5	2507.4
3	223L1001	4.0	99.5	97.0	54.7	72.7	17.5	7872.3	2989.2
28	19T-262-128	4.0	96.5	91.0	48.9	70.6	30.0	7870.4	2236.2
30	19T-262-191	3.0	97.0	91.0	44.7	70.8	36.7	7858.7	2754.8
27	19T-262-76	4.0	96.0	89.5	43.5	70.7	32.3	7785.9	1836.1
26	19T-262-62	3.0	97.0	95.5	47.8	71.1	32.7	7719.5	1932.8
9	223L1133	4.0	100.5	92.5	57.0	72.3	22.8	7690.7	3230.8
29	19T-262-184	4.0	98.0	89.0	50.4	71.3	27.2	7640.7	2088.8
31	19T-262-239	5.0	97.5	90.0	46.8	71.7	29.1	7561.8	2176.0
13	223L1148	4.0	99.0	94.5	61.0	71.9	24.4	7449.2	2807.1
7	223L1064	4.0	95.5	88.5	55.1	72.7	27.9	7415.2	2144.8
25	223L1247	5.0	99.5	89.5	55.7	70.0	36.9	7402.5	1744.8
22	223L1218	4.0	96.5	100.0	53.7	71.4	33.8	6401.2	2229.6
23	223L1221	4.0	96.5	93.0	58.2	71.8	28.2	5371.8	1663.2

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

Table 6. Grain and milling yields and agronomic performance of entries in the 2023 Regional Yield Test – Clearfield. H. Rouse Caffey Rice Research Station, Rayne, LA – Late Planting.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
57	CLL18	3.0	76.5	101.5	55.0	67.2	37.2	9111.8	1085.6
7	MP6_397	4.0	75.5	98.5	62.1	70.2	22.8	8619.7	1499.5
35	222M1096	5.0	78.0	91.5	64.7	70.9	18.1	8615.7	3914.1
30	222L1147	5.0	76.0	97.5	57.8	69.6	20.1	8134.9	1031.4
52	19T-140-79	3.0	72.5	100.5	64.1	70.7	29.7	8076.5	3448.4
47	19T-033-66	4.0	72.5	98.5	63.2	69.4	23.3	8063.7	3374.8
56	19T-183-CL-16	4.0	75.0	93.0	60.5	68.9	26.9	8053.6	3802.9
22	222L1085	3.0	73.0	101.5	63.5	70.2	23.7	8032.1	3060.4
46	19T-033-63	4.0	76.5	95.5	63.0	70.0	23.5	7990.3	2339.8
38	19T-029-4	3.0	77.0	100.5	63.4	69.5	23.0	7970.3	2900.2
31	222L1149	3.0	75.5	96.5	58.6	68.6	22.7	7926.3	3052.8
40	19T-030-24	3.0	73.5	94.0	62.5	69.3	27.6	7914.6	2658.2
43	19T-033-31	4.0	75.0	100.5	61.3	69.2	22.2	7905.7	2420.8
44	19T-033-35	3.0	76.5	98.0	60.9	68.6	24.0	7772.7	2259.9
21	222L1082	4.0	73.0	102.5	62.3	69.5	16.7	7765.4	3428.9
45	19T-033-38	4.0	75.5	99.0	60.6	68.8	23.4	7760.9	2925.5
54	19T-183-CL-6	5.0	74.0	90.0	59.4	70.6	25.3	7721.7	3730.2
24	222L1118	5.0	75.0	99.0	64.4	69.7	24.8	7700.2	3242.3
32	222L1161	7.0	77.0	90.0	58.5	69.0	31.1	7642.8	3446.8
18	222L1075	3.0	74.5	95.5	63.0	69.0	22.3	7624.7	2929.2
25	222L1121	3.0	77.0	97.0	65.3	70.6	25.1	7555.6	2536.4
9	19T-176-CONV-38	4.0	76.5	95.5	59.4	70.2	19.8	7549.3	3324.0
42	19T-030-74	3.0	76.0	91.5	64.1	69.7	23.3	7536.7	2732.6
28	222L1131	3.0	76.0	106.5	63.1	69.2	22.4	7523.9	3357.7
49	19T-106-CL-57	3.0	75.5	95.0	61.3	68.9	31.6	7472.2	3322.0
13	222L1045	3.0	74.5	97.5	62.4	70.1	23.2	7462.5	3690.9
16	222L1071	4.0	76.0	95.0	64.3	69.5	19.3	7448.0	3654.8
19	222L1077	4.0	79.5	102.5	61.2	68.9	18.0	7417.5	2174.8
41	19T-030-46	3.0	74.5	97.5	65.1	69.8	20.1	7411.9	3092.3
39	19T-029-24	4.0	75.0	94.5	63.5	69.8	23.8	7399.9	2267.8
60	CLL19	1.0	72.5	90.5	59.3	68.5	28.0	7385.5	2932.7
51	19T-140-74	2.0	75.5	99.0	62.1	69.4	20.7	7385.4	3332.6
59	CLM04	4.0	78.5	100.0	58.7	69.9	16.2	7255.9	2990.6
1	RU2102150	3.0	75.0	96.5	60.0	67.9	23.4	7197.2	2920.7
53	19T-176-CL-88	3.0	77.0	96.0	57.8	68.7	24.4	7193.5	2995.5
11	222L1038	5.0	76.0	94.5	61.5	68.1	22.7	7188.8	3601.8
36	222M1097	4.0	79.5	81.0	60.2	70.5	19.3	7160.1	3535.4
4	MP6_157	4.0	75.0	90.5	63.8	69.8	20.4	7114.0	2958.3
48	19T-053-13	3.0	73.5	96.5	64.0	70.4	19.3	7111.4	3518.8
5	MP6_219	5.0	74.0	99.5	58.3	67.0	28.7	7079.1	2876.5
58	CLL16	3.0	80.0	104.5	50.4	66.1	37.6	6931.5	906.0

Continued.

Table 6. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
17	222L1074	4.0	74.0	95.5	64.3	69.6	20.2	6927.8	3629.2
12	222L1044	4.0	76.5	99.5	62.7	68.9	19.0	6898.2	3139.3
34	222M1015	4.0	79.0	93.0	63.7	71.4	20.4	6882.5	2736.7
27	222L1126	3.0	77.5	105.5	62.9	69.4	21.4	6811.6	2838.6
50	19T-106-CL-71	3.0	78.5	95.0	62.8	69.8	26.3	6795.9	2856.9
6	MP6_392	4.0	75.5	85.5	61.7	68.5	22.9	6730.5	2548.5
37	222M1098	3.0	77.0	87.5	58.1	72.0	13.1	6729.3	3618.4
14	222L1057	3.0	75.0	93.5	63.7	70.1	15.7	6725.4	3546.0
55	19T-183-CL-13	5.0	76.5	94.5	58.2	68.0	28.0	6628.3	3838.2
20	222L1079	5.0	77.0	102.0	60.7	68.2	17.6	6617.7	3947.3
26	222L1124	3.0	77.0	98.5	63.3	69.6	27.1	6609.8	3411.2
29	222L1143	4.0	77.5	99.5	60.8	68.4	24.7	6603.8	3019.9
33	222L1190	3.0	80.0	102.5	53.6	67.3	36.8	6584.8	2379.6
23	222L1087	3.0	73.5	100.5	60.3	68.7	27.6	6534.3	3238.9
10	18T196-10	6.0	75.0	95.0	58.0	67.2	40.5	6251.8	3804.9
8	MP6_434	4.0	79.5	85.0	55.1	61.1	26.0	5984.4	2297.2
3	202L2141	4.0	80.5	100.5	47.4	66.9	33.5	5982.8	1714.3
2	202L2109	5.0	75.5	93.0	61.4	69.0	21.4	5853.2	2756.5
15	222L1058	3.0	76.5	98.5	60.9	68.3	13.5	5673.6	3495.0

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

Table 7. Grain and milling yields and agronomic performance of entries in the 2023 Regional Yield Test – Conventional. H. Rouse Caffey Rice Research Station, Rayne, LA – Late Planting.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
32	MP6_060	5.0	78.0	100.5	51.5	67.6	23.3	9056.0	2405.4
35	MP6_295	4.0	77.0	98.0	56.7	67.0	31.6	8533.3	3065.8
12	221L1013	4.0	72.5	96.0	62.1	70.0	17.8	8261.5	4090.5
21	221L1143	4.0	73.0	127.5	46.0	63.4	37.3	8242.0	2345.1
1	201L1251	3.0	77.5	93.0	50.7	67.9	25.1	8161.5	2478.8
42	19T-218-43	5.0	77.0	103.5	62.7	70.0	22.2	8087.8	2990.7
23	221L1182	3.0	75.5	102.0	58.3	68.4	23.1	8053.1	3388.2
47	19T-218-42	5.0	77.5	103.5	60.1	68.3	22.4	7993.1	3200.7
33	MP6_244	5.0	78.0	103.5	58.4	66.1	24.1	7905.1	3344.0
36	19T-217-39	3.0	74.0	106.0	59.8	69.9	23.7	7788.3	3485.0
49	19T-238-3	5.0	78.5	105.0	49.8	64.7	30.6	7782.8	2810.9
54	19T-238-13	4.0	76.5	103.0	56.1	68.5	36.2	7778.2	3189.0
13	221L1015	3.0	72.0	96.5	59.7	68.5	15.1	7746.4	4724.7
19	221L1099	3.0	74.5	97.5	60.1	68.0	16.1	7656.6	3986.5
61	Taurus	2.0	72.0	84.0	43.8	65.6	8.6	7595.0	3519.8
37	19T-217-69	3.0	74.5	98.5	60.1	69.6	23.5	7593.1	3234.4
64	Avant	3.0	74.5	99.0	59.5	69.2	21.7	7589.4	3870.9
20	221L1126	4.0	76.5	107.0	58.5	67.5	19.6	7550.5	3301.0
24	221L1202	3.0	74.0	106.5	57.9	67.9	20.4	7539.7	3665.8
34	MP6_292	4.0	76.0	102.0	56.5	66.2	30.6	7528.7	4036.9
46	19T-218-45	3.0	76.0	100.5	60.4	69.5	21.8	7478.9	2699.8
50	19T-238-33	3.0	75.5	104.0	53.1	65.8	22.6	7459.7	3232.8
57	20T-155-85	4.0	71.5	98.5	47.8	64.2	38.6	7399.9	1945.4
62	DG263L	5.0	71.5	98.0	59.5	66.5	19.7	7395.8	1066.7
18	221L1087	3.0	77.5	100.0	60.6	68.2	24.1	7386.4	4186.8
2	211L1124	2.0	74.5	107.0	59.2	66.7	20.8	7357.1	3390.0
15	221L1032	4.0	81.5	101.5	54.2	66.7	20.0	7302.2	2605.5
17	221L1061	3.0	76.5	94.5	59.9	68.6	25.4	7254.4	3408.8
63	RU1902207	3.0	76.5	103.5	59.0	69.0	26.3	7253.0	3575.8
3	211L1293	4.0	78.0	95.0	55.2	66.6	29.5	7244.0	3833.9
41	19T-218-30	4.0	77.0	102.0	60.1	68.4	19.5	7192.6	3519.6
38	19T-217-71	2.0	73.0	96.0	62.4	69.8	13.5	7149.0	3778.4
8	20T-073-16	5.0	73.5	97.5	58.8	66.9	18.2	7145.7	3029.2
44	19T-218-87	3.0	77.0	98.0	55.8	67.6	20.7	7096.2	2783.7
11	221L1002	3.0	77.0	111.5	58.9	68.3	26.8	7049.1	2908.2
25	221L1203	2.0	73.5	103.0	54.2	66.4	24.8	6985.3	3217.3
51	19T-238-34	4.0	76.5	95.5	56.3	67.7	27.6	6968.4	3562.8
45	19T-218-91	3.0	77.5	102.0	57.3	68.4	24.6	6955.1	2680.0
43	19T-218-86	3.0	76.0	98.5	59.7	66.4	19.2	6938.2	3607.7
52	19T-238-62	3.0	76.5	102.5	51.3	64.3	32.6	6866.5	2577.5
10	221L1001	3.0	73.5	101.5	54.4	65.0	17.5	6822.7	3329.3

Continued.

Table 7. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
22	221L1150	4.0	77.0	93.0	51.7	67.1	30.6	6730.9	3481.9
48	19T-220-94	3.0	75.0	102.0	55.3	67.9	24.4	6702.2	2982.6
31	221M1095	3.0	79.0	83.0	54.5	65.9	23.9	6699.4	3229.8
28	221M1033	4.0	77.0	103.5	38.6	62.5	21.0	6680.7	2706.2
59	20T-156-82	4.0	75.5	97.0	41.6	62.6	36.2	6661.3	2081.8
40	19T-218-19	3.0	75.0	104.5	60.3	68.3	17.7	6649.9	3185.5
4	20T-071-25	5.0	78.5	94.0	42.8	63.5	44.8	6649.8	1514.2
29	221M1041	4.0	76.5	89.0	29.1	66.3	16.0	6627.2	3767.6
56	19T-176-CONV-6	3.0	75.5	108.5	38.4	64.2	11.8	6578.0	3239.4
30	221M1083	5.0	75.5	87.5	39.8	65.8	13.6	6558.5	3159.2
27	221M1021	5.0	73.0	87.0	40.1	62.4	17.9	6499.1	2852.9
39	19T-217-74	3.0	74.0	91.5	57.3	68.6	22.7	6488.7	3493.9
55	19T-176-CONV-3	4.0	78.5	96.0	52.7	65.6	12.7	6464.2	2786.5
58	20T-177-84	4.0	70.0	98.5	43.5	63.1	21.5	6339.4	2535.9
26	221M1016	4.0	74.5	92.0	36.7	64.5	11.1	6325.4	3132.0
53	19T-238-73	3.0	77.5	107.5	46.9	63.9	35.5	6237.9	2390.8
9	20T-155-08	3.0	70.0	108.5	49.5	63.1	20.0	6081.3	1241.8
6	20T-071-42	3.0	76.0	100.5	53.1	67.2	25.9	6045.3	3620.1
16	221L1060	3.0	76.0	99.0	56.5	67.1	19.3	5781.7	2973.0
7	20T-071-53	3.0	75.0	94.5	51.2	63.6	20.2	5516.8	2032.5
65	Cheniere	3.0	78.0	95.6	63.6	70.0	8.8	5210.7	2187.0
60	Titan	3.0	72.5	81.0	55.5	66.3	14.4	4936.7	3276.7
66	Jupiter	3.0	79.0	80.5	58.0	65.9	29.8	4847.5	2815.1
5	20T-071-40	6.0	72.0	85.5	43.8	63.6	26.2	4673.0	1375.1
14	221L1024	4.0	83.0	98.5	37.1	63.1	40.1	4440.5	3587.2

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

Table 8. Grain and milling yields and agronomic performance of entries in the 2023 Regional Yield Test – Provisia. H. Rouse Caffey Rice Research Station, Rayne, LA – Late Planting.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
3	223L1001	-	75.5	108.5	52.3	69.6	11.8	9172.4	1923.2
10	223L1139	-	75.5	108.0	63.7	70.6	19.7	9081.6	1350.1
15	223L1183	-	75.5	106.5	59.4	69.3	22.7	8955.3	1592.1
20	223L1213	-	67.5	114.5	56.2	69.7	33.7	8952.8	2577.5
6	223L1065	-	71.0	100.5	60.3	70.4	18.9	8906.9	1920.6
26	19T-262-62	-	69.5	107.5	59.3	71.4	23.7	8882.5	2916.0
24	223L1236	-	70.0	108.5	52.5	69.0	18.2	8873.0	3519.6
22	223L1218	-	69.5	104.5	63.8	71.3	26.1	8786.0	3498.6
21	223L1216	-	70.0	99.0	59.4	69.0	25.4	8772.4	1705.5
25	223L1247	-	73.0	100.5	58.4	69.1	29.9	8722.6	1258.8
2	RU2102186	-	75.5	102.0	56.3	68.7	21.5	8710.7	626.9
8	223L1128	-	75.5	96.5	61.0	71.0	18.7	8701.5	1586.1
35	PVL03	-	73.5	106.0	55.4	67.9	22.0	8616.5	3013.0
16	223L1184	-	76.0	102.5	60.5	69.0	23.6	8542.5	2493.8
19	223L1212	-	70.0	99.0	61.4	70.6	22.2	8521.2	3163.2
17	223L1191	-	76.5	110.0	59.4	68.6	28.1	8465.4	1149.3
27	19T-262-76	-	72.0	97.5	58.5	70.3	21.9	8439.9	2748.5
5	223L1037	-	80.0	95.5	59.3	69.7	17.7	8431.0	1061.5
1	203L1104	-	82.0	100.5	65.1	71.5	19.0	8424.7	2345.1
4	223L1027	-	70.0	104.5	58.8	70.2	17.1	8396.4	3863.9
23	223L1221	-	69.5	107.0	63.2	70.5	20.4	8381.3	4271.4
28	19T-262-128	-	71.0	99.5	56.2	68.2	23.2	8364.2	2827.9
29	19T-262-184	-	73.5	100.0	62.4	70.7	21.8	8314.0	3087.0
9	223L1133	-	76.0	102.5	61.8	70.5	19.6	8259.7	2439.6
14	223L1173	-	82.0	106.0	60.9	69.1	19.1	8251.8	1509.8
32	19T-262-244	-	71.0	101.0	60.4	71.0	22.5	8232.7	3920.9
34	RU2201021	-	76.0	105.5	54.1	67.5	18.5	8172.7	845.7
11	223L1145	-	69.0	100.0	53.9	66.2	23.9	8031.7	2962.9
33	19T-262-278	-	74.0	97.0	61.3	70.3	20.3	7870.2	3251.3
18	223L1196	-	73.5	100.5	56.6	69.7	21.0	7866.4	1298.2
30	19T-262-191	-	71.5	106.0	58.3	69.4	24.4	7814.7	2607.9
31	19T-262-239	-	71.5	103.5	60.6	70.3	20.1	7686.9	2549.8
7	223L1064	-	71.0	98.0	60.3	70.2	15.9	7267.7	3197.5
13	223L1148	-	76.5	99.5	59.4	68.6	28.0	7018.5	3837.7
12	223L1147	-	73.5	104.5	57.4	68.5	15.7	6676.4	2663.2

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

Table 9. Grain and milling yields and agronomic performance of entries in the 2023 Regional Yield Test – Clearfield. H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
21	222L1082	3.0	94.0	105.5	60.0	69.7	23.7	11898.3	4607.0
60	CLL19	2.0	94.0	96.5	55.2	68.2	36.2	11710.0	2948.6
43	19T-033-31	4.0	96.0	106.5	61.8	70.2	24.3	11470.0	4179.0
58	CLL16	4.0	102.0	101.5	55.6	67.2	24.7	11453.1	2009.7
44	19T-033-35	3.0	97.0	105.5	61.2	69.8	24.8	11450.6	4471.4
57	CLL18	2.0	98.5	107.5	50.8	66.0	35.5	11358.6	3532.5
38	19T-029-4	3.0	95.0	105.5	59.5	69.3	24.5	11319.4	3961.1
48	19T-053-13	3.0	93.0	102.0	57.5	70.9	25.9	11318.4	4317.2
39	19T-029-24	3.0	95.5	98.5	61.6	70.2	22.6	11280.4	3399.0
45	19T-033-38	3.0	96.0	104.5	62.7	70.7	22.7	11272.6	3684.7
28	222L1131	4.0	95.5	106.5	60.9	70.0	26.1	11236.7	3615.9
24	222L1118	3.0	95.0	101.0	60.5	69.7	28.1	11216.9	3853.1
13	222L1045	4.0	98.0	101.5	60.3	70.3	27.2	11184.4	4541.3
47	19T-033-66	4.0	93.0	99.0	60.9	69.6	22.3	11122.0	3017.4
49	19T-106-CL-57	3.0	95.0	98.0	59.8	69.1	31.3	11081.7	4416.9
40	19T-030-24	3.0	95.0	101.0	56.9	67.9	25.5	11029.3	3990.5
51	19T-140-74	3.0	96.0	101.5	59.5	69.0	26.3	11012.4	4882.9
54	19T-183-CL-6	5.0	97.5	100.0	61.3	69.6	27.1	10997.3	4180.6
25	222L1121	3.0	98.0	105.0	62.9	70.3	26.9	10969.2	4114.7
18	222L1075	3.0	94.0	103.0	58.6	69.3	29.7	10963.9	3968.9
46	19T-033-63	3.0	96.0	97.5	62.3	70.5	23.4	10936.9	3986.9
14	222L1057	3.0	95.5	100.0	62.9	70.7	22.8	10933.8	4169.8
16	222L1071	3.0	95.0	101.5	61.1	69.6	25.4	10906.4	4417.0
10	18T196-10	5.0	99.0	103.5	62.2	67.0	35.3	10899.6	4073.9
8	MP6_434	3.0	100.0	95.5	62.0	69.7	22.2	10898.6	4891.3
11	222L1038	5.0	95.0	105.5	60.4	68.6	31.0	10892.9	3930.2
42	19T-030-74	3.0	96.0	97.0	61.8	69.8	23.8	10834.4	4361.5
7	MP6_397	3.0	96.0	101.5	60.9	69.6	22.0	10788.1	3297.2
52	19T-140-79	3.0	94.0	105.5	59.0	70.0	36.0	10777.0	4293.4
19	222L1077	3.0	99.5	106.0	61.7	69.1	23.0	10742.6	4684.6
4	MP6_157	3.0	95.0	97.5	57.5	69.0	26.6	10678.4	3767.5
31	222L1149	3.0	95.0	101.5	57.6	67.6	24.8	10674.5	4150.7
26	222L1124	3.0	97.0	100.0	61.3	70.1	28.0	10661.1	3975.8
9	19T-176-CONV-38	4.0	98.5	103.5	61.9	70.1	19.8	10646.3	3376.7
41	19T-030-46	3.0	93.5	100.0	61.1	69.6	21.6	10640.9	4892.1
23	222L1087	3.0	93.5	106.0	59.8	69.4	32.0	10521.4	6281.7
30	222L1147	4.0	95.5	102.5	54.8	68.3	25.9	10514.4	3159.0
32	222L1161	3.0	96.0	97.0	58.7	69.0	23.9	10505.6	3551.8
27	222L1126	3.0	96.5	112.0	60.9	69.2	24.8	10468.2	3807.2
35	222M1096	5.0	103.0	94.5	63.9	70.7	21.2	10446.9	5589.0
12	222L1044	3.0	99.5	103.5	61.5	69.2	24.3	10428.3	4564.3

Continued.

Table 9. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
6	MP6_392	3.0	94.5	96.0	59.7	71.4	26.5	10422.2	5237.2
56	19T-183-CL-16	4.0	97.5	101.5	63.2	69.8	23.7	10414.9	4616.7
1	RU2102150	3.0	97.0	101.5	61.4	69.0	27.7	10385.9	4233.3
50	19T-106-CL-71	3.0	98.0	100.0	60.3	69.8	29.8	10350.8	3360.8
20	222L1079	3.0	97.5	104.5	63.0	69.9	19.4	10348.7	4669.6
17	222L1074	4.0	95.0	104.5	59.9	70.3	24.9	10344.7	4101.0
53	19T-176-CL-88	3.0	98.0	102.0	65.4	69.7	13.5	10320.8	3971.8
29	222L1143	4.0	97.5	107.5	61.3	70.3	25.5	10293.9	4282.2
5	MP6_219	5.0	97.0	104.0	59.5	69.1	29.0	10250.5	4077.3
22	222L1085	3.0	93.5	106.0	59.4	70.2	22.4	10244.8	3989.7
37	222M1098	3.0	98.5	96.0	65.4	70.9	18.5	10221.8	3540.8
55	19T-183-CL-13	6.0	102.5	93.5	62.9	67.9	24.9	10070.2	4255.3
15	222L1058	4.0	95.5	104.5	61.7	70.6	21.6	9933.7	3990.1
33	222L1190	3.0	101.0	100.5	58.0	68.6	31.0	9859.2	5102.9
59	CLM04	3.0	99.0	101.5	64.6	69.6	19.6	9837.1	3088.3
2	202L2109	3.0	97.5	100.5	62.1	70.2	31.2	9622.5	5108.4
34	222M1015	3.0	103.0	100.0	66.2	71.1	19.7	8774.8	4964.1
3	202L2141	4.0	102.0	104.5	50.6	65.7	26.2	8440.4	3037.8
36	222M1097	3.0	102.5	88.5	65.3	69.8	17.9	7378.2	5197.7

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

Table 10. Grain and milling yields and agronomic performance of entries in the 2023 Regional Yield Test – Conventional. H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
18	221L1087	2.0	92.0	90.5	60.8	70.1	36.6	11517.4	4418.5
44	19T-218-87	2.0	92.0	97.0	60.0	71.1	31.7	11280.2	4497.8
48	19T-220-94	1.0	92.5	94.0	57.9	69.6	35.4	11224.1	3850.3
20	221L1126	3.0	92.5	106.0	58.7	70.1	35.6	11166.5	4198.8
2	211L1124	4.0	95.0	104.5	62.6	69.9	34.6	11088.3	4701.1
41	19T-218-30	3.0	92.5	95.5	59.8	69.2	31.9	11078.4	4137.1
53	19T-238-73	3.0	94.5	104.0	60.8	68.1	34.6	10947.3	3365.8
52	19T-238-62	3.0	92.0	108.0	57.4	68.5	46.2	10828.6	4473.3
61	Taurus	3.0	94.5	87.5	64.3	70.5	17.9	10810.3	3090.8
21	221L1143	3.0	90.0	123.0	57.9	68.5	36.5	10807.7	4275.0
49	19T-238-3	3.0	95.5	102.0	52.9	68.2	36.4	10806.9	4427.8
47	19T-218-42	3.0	92.5	98.5	59.7	70.2	39.2	10768.1	4273.0
27	221M1021	4.0	94.0	91.0	55.0	67.3	33.2	10731.1	2193.8
63	RU1902207	2.0	93.0	99.5	63.1	71.8	35.4	10705.1	4943.5
11	221L1002	2.0	93.0	101.5	60.7	70.7	40.2	10701.0	3855.0
45	19T-218-91	2.0	95.0	99.0	60.5	71.2	32.9	10694.1	3833.3
54	19T-238-13	3.0	94.0	98.5	62.9	71.7	48.8	10649.5	4095.2
25	221L1203	2.0	90.0	98.0	57.1	69.3	39.1	10647.1	3468.5
46	19T-218-45	2.0	92.5	96.5	59.7	70.9	29.7	10551.5	3675.3
19	221L1099	2.0	91.0	95.5	61.9	70.5	26.7	10512.6	7075.6
17	221L1061	3.0	90.5	94.0	64.1	71.3	36.6	10479.2	4502.4
39	19T-217-74	3.0	91.5	96.0	61.3	72.2	35.1	10467.0	3713.9
22	221L1150	3.0	93.0	85.5	62.2	71.4	35.5	10447.6	5612.4
10	221L1001	3.0	92.5	99.0	55.2	68.2	31.7	10383.9	3128.5
1	201L1251	2.0	97.0	94.5	52.4	69.2	30.4	10369.2	4286.1
13	221L1015	2.0	91.0	92.5	59.3	70.5	29.3	10368.3	4487.1
36	19T-217-39	3.0	91.0	90.0	62.8	71.5	33.0	10365.2	4242.0
6	20T-071-42	3.0	93.5	90.5	64.9	71.6	32.8	10308.3	3976.5
8	20T-073-16	3.0	92.5	95.5	62.2	69.9	32.4	10295.3	4018.4
12	221L1013	2.0	91.0	86.5	62.0	70.8	28.9	10285.7	4370.0
57	20T-155-85	4.0	93.0	101.0	54.7	67.8	43.2	10281.1	4959.7
37	19T-217-69	3.0	89.5	89.5	64.4	72.1	33.6	10277.0	4298.9
38	19T-217-71	3.0	92.0	92.0	65.5	72.6	26.9	10261.7	4479.9
28	221M1033	3.0	97.0	102.5	62.9	69.4	23.2	10224.9	3955.2
40	19T-218-19	3.0	94.5	101.0	62.1	70.7	30.4	10187.6	4146.2
35	MP6_295	4.0	97.0	97.5	57.6	68.3	38.2	10175.0	3594.3
4	20T-071-25	3.0	96.5	89.5	53.0	66.6	40.4	10174.5	4052.2
62	DG263L	3.0	96.0	97.0	57.6	66.9	32.2	10131.6	2208.1
64	Avant	1.0	87.0	90.5	64.1	71.0	28.4	10114.9	3973.3
24	221L1202	3.0	92.0	103.0	59.5	69.8	33.9	10110.8	4153.6
56	19T-176-CONV-6	3.0	97.0	101.0	61.0	70.7	13.5	10058.7	3665.6

Continued.

Table 10. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
32	MP6_060	4.0	97.5	89.5	57.7	69.8	28.6	9984.5	3070.3
42	19T-218-43	3.0	95.5	102.0	61.0	69.6	31.2	9949.3	3175.2
50	19T-238-33	3.0	93.5	106.0	55.5	69.8	41.9	9939.6	3948.0
51	19T-238-34	3.0	94.0	96.0	61.9	72.0	46.6	9932.1	4596.8
15	221L1032	3.0	100.0	106.0	62.4	70.7	20.5	9901.6	3848.7
16	221L1060	3.0	93.5	88.5	62.0	71.0	39.0	9859.9	4626.5
26	221M1016	2.0	97.5	92.5	63.7	69.2	25.0	9840.6	2402.9
60	Titan	3.0	93.0	90.5	65.8	69.8	28.5	9802.3	4424.8
23	221L1182	3.0	96.0	102.0	60.2	71.1	22.4	9791.0	4145.1
29	221M1041	3.0	99.0	94.0	63.5	70.5	24.4	9767.1	4112.4
55	19T-176-CONV-3	3.0	97.0	94.0	65.1	69.9	13.8	9687.9	3124.8
14	221L1024	3.0	98.0	98.0	61.3	69.6	24.9	9667.0	4264.9
65	Cheniere	1.7	94.3	96.7	66.5	73.2	19.7	9615.0	5099.0
43	19T-218-86	3.0	95.5	98.5	64.3	71.2	26.0	9596.3	5639.0
31	221M1095	3.0	100.0	82.0	65.9	69.8	25.3	9364.0	3471.4
33	MP6_244	4.0	97.5	100.5	61.8	68.7	25.8	9336.3	4551.2
3	211L1293	4.0	96.0	100.5	58.3	70.3	32.6	9302.5	4288.3
30	221M1083	4.0	98.5	92.0	62.3	70.0	20.3	8992.3	3317.4
9	20T-155-08	3.0	93.0	106.5	59.3	67.6	25.1	8976.0	4105.3
34	MP6_292	4.0	92.0	92.0	56.2	68.5	40.2	8973.3	3675.1
58	20T-177-84	3.0	93.0	98.0	44.3	65.5	36.0	8897.4	3512.5
7	20T-071-53	3.0	94.5	94.0	54.8	65.9	26.7	8777.4	3150.9
59	20T-156-82	4.0	96.5	95.5	55.0	67.2	37.3	8632.3	4208.4
5	20T-071-40	4.0	90.0	80.5	50.8	66.0	32.0	8244.9	2076.5
66	Jupiter	3.0	100.5	86.0	62.6	67.7	30.6	7988.9	4461.4

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

Table 11. Grain and milling yields and agronomic performance of entries in the 2023 Regional Yield Test – Provisia. H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
30	19T-262-191	2.0	92.0	101.0	50.3	71.7	32.3	11825.7	4055.3
3	223L1001	3.0	94.5	102.0	57.8	72.2	20.8	11765.4	4199.6
10	223L1139	3.0	97.0	105.0	64.4	72.5	31.3	11587.5	5101.3
6	223L1065	2.0	92.0	97.0	63.5	73.4	34.3	11559.8	3978.4
28	19T-262-128	3.0	92.5	97.0	52.0	70.4	29.1	11508.5	3933.9
20	223L1213	1.0	90.0	105.5	60.8	71.7	39.8	11407.6	4435.1
29	19T-262-184	3.0	93.0	98.5	55.3	71.4	28.8	11328.7	3454.9
18	223L1196	2.0	93.0	99.5	51.6	70.7	34.6	11325.1	2105.8
11	223L1145	3.0	92.0	100.0	61.2	71.1	32.8	11297.2	4109.3
2	RU2102186	3.0	96.0	101.0	59.9	71.6	33.1	11261.6	3358.6
1	203L1104	3.0	100.5	97.5	63.2	71.7	26.5	11207.4	4653.7
5	223L1037	3.0	99.5	93.0	57.5	70.4	25.7	11055.2	2472.6
32	19T-262-244	3.0	92.0	96.5	54.8	71.7	30.4	10986.9	4025.7
35	PVL03	1.0	94.5	101.0	57.5	72.6	29.8	10983.6	3678.2
21	223L1216	2.0	91.5	90.0	62.3	72.9	32.3	10978.1	3975.4
23	223L1221	2.0	91.0	96.5	65.5	74.0	27.2	10895.7	3892.6
24	223L1236	1.0	89.5	99.0	49.0	68.6	25.8	10858.1	4538.5
26	19T-262-62	1.0	92.0	101.5	52.6	71.4	29.7	10807.0	3678.8
17	223L1191	3.0	95.5	101.0	59.2	71.5	38.3	10788.2	3992.6
22	223L1218	1.0	91.0	98.0	59.6	72.6	28.7	10757.4	3505.7
9	223L1133	3.0	96.0	98.5	61.2	71.3	24.4	10658.7	4259.8
12	223L1147	3.0	93.5	101.5	61.8	71.2	27.6	10590.6	4221.8
19	223L1212	3.0	92.0	97.5	61.8	71.6	28.6	10578.4	4606.0
31	19T-262-239	3.0	92.5	96.5	53.5	72.9	26.1	10520.0	3166.8
4	223L1027	2.0	92.5	98.0	55.7	71.6	28.0	10464.4	3838.8
33	19T-262-278	3.0	95.0	96.0	56.3	72.1	30.8	10444.0	4291.8
27	19T-262-76	3.0	92.0	95.5	52.9	71.6	29.9	10375.6	3239.8
7	223L1064	3.0	92.0	92.5	57.9	71.6	23.5	10342.9	3468.7
8	223L1128	3.0	97.0	96.0	61.1	71.7	26.8	10231.2	2394.7
25	223L1247	3.0	92.0	99.5	55.6	69.9	32.0	10111.5	3991.6
14	223L1173	3.0	99.0	104.5	65.5	71.1	22.0	10008.4	4798.7
15	223L1183	1.0	95.0	101.0	59.6	68.8	30.7	9962.2	4173.0
13	223L1148	4.0	95.0	97.5	64.2	71.3	33.8	9610.7	4483.8
34	RU2201021	3.0	98.5	102.5	58.1	70.4	27.9	9468.9	3111.0
16	223L1184	2.0	96.5	102.5	62.8	72.5	32.0	9292.6	4807.5

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

Table 12. Grain and milling yields and agronomic performance of entries in the 2023 Regional Yield Test – Clearfield. Lake Arthur, Vermilion Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
57	CLL18	-	-	108.0	47.8	65.1	40.1	10555.6	-
43	19T-033-31	-	-	96.0	56.9	69.3	24.4	9998.2	-
38	19T-029-4	-	-	104.5	62.9	71.2	18.7	9819.1	-
46	19T-033-63	-	-	96.0	56.9	69.2	25.9	9597.9	-
7	MP6_397	-	-	95.5	54.5	69.3	24.2	9566.6	-
4	MP6_157	-	-	94.0	55.4	69.1	30.2	9379.4	-
1	RU2102150	-	-	98.0	58.6	67.9	26.9	9119.4	-
54	19T-183-CL-6	-	-	98.0	63.8	69.6	24.4	9092.8	-
40	19T-030-24	-	-	93.5	58.4	69.0	23.1	9076.0	-
31	222L1149	-	-	99.0	55.9	68.3	25.4	9033.7	-
19	222L1077	-	-	102.0	60.6	70.0	17.2	8931.6	-
45	19T-033-38	-	-	97.5	58.8	69.6	22.9	8896.1	-
41	19T-030-46	-	-	94.5	62.2	70.4	19.3	8862.4	-
25	222L1121	-	-	103.5	61.6	69.3	27.7	8851.6	-
59	CLM04	-	-	104.5	64.8	69.6	15.9	8850.9	-
5	MP6_219	-	-	101.5	52.2	67.2	33.6	8829.0	-
49	19T-106-CL-57	-	-	99.0	56.5	68.7	37.5	8753.6	-
39	19T-029-24	-	-	97.5	62.6	70.2	25.0	8488.5	-
3	202L2141	-	-	104.5	49.3	67.6	23.9	8393.0	-
24	222L1118	-	-	99.5	60.9	69.6	25.0	8384.3	-
44	19T-033-35	-	-	98.5	57.8	69.1	23.0	8334.8	-
51	19T-140-74	-	-	94.0	59.2	69.2	23.1	8328.9	-
13	222L1045	-	-	99.5	60.9	70.3	27.9	8311.2	-
30	222L1147	-	-	100.0	52.6	69.7	22.9	8280.1	-
60	CLL19	-	-	90.5	52.9	68.1	29.7	8273.7	-
18	222L1075	-	-	100.5	58.0	69.0	21.6	8265.8	-
42	19T-030-74	-	-	96.5	63.2	70.5	19.5	8241.5	-
47	19T-033-66	-	-	95.5	55.0	68.6	24.9	8096.1	-
26	222L1124	-	-	100.0	59.4	69.0	25.2	8080.8	-
29	222L1143	-	-	103.5	56.4	69.2	24.7	8072.6	-
17	222L1074	-	-	98.0	58.2	68.6	21.4	8036.5	-
28	222L1131	-	-	104.5	56.5	69.7	20.2	7969.3	-
53	19T-176-CL-88	-	-	101.0	64.0	68.8	16.0	7908.5	-
27	222L1126	-	-	105.5	57.9	69.6	27.2	7868.2	-
58	CLL16	-	-	108.5	46.3	64.3	23.6	7865.6	-
11	222L1038	-	-	98.5	55.7	68.0	23.2	7823.0	-
20	222L1079	-	-	105.0	59.0	68.8	26.3	7821.7	-
35	222M1096	-	-	98.0	66.1	70.1	22.0	7809.4	-
52	19T-140-79	-	-	99.5	57.6	69.6	29.6	7796.6	-
23	222L1087	-	-	101.0	52.3	67.1	29.7	7757.6	-
21	222L1082	-	-	101.5	57.1	69.2	17.9	7748.9	-

Continued.

Table 12. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
48	19T-053-13	-	-	94.5	48.7	70.3	19.5	7732.8	-
32	222L1161	-	-	94.5	55.5	67.8	23.3	7712.9	-
56	19T-183-CL-16	-	-	98.0	63.4	69.0	24.9	7671.7	-
22	222L1085	-	-	98.5	54.9	69.1	20.0	7560.0	-
12	222L1044	-	-	100.5	61.8	69.5	22.2	7443.7	-
33	222L1190	-	-	104.5	51.6	67.2	28.8	7405.7	-
16	222L1071	-	-	99.5	61.6	69.5	16.0	7391.7	-
50	19T-106-CL-71	-	-	95.0	56.9	68.8	28.3	7360.6	-
6	MP6_392	-	-	89.5	54.6	70.4	21.9	7338.8	-
2	202L2109	-	-	94.5	45.8	68.2	27.6	7099.0	-
15	222L1058	-	-	95.5	60.5	69.8	10.7	6995.6	-
34	222M1015	-	-	102.0	66.3	70.9	16.7	6992.9	-
14	222L1057	-	-	101.0	64.6	71.6	19.5	6950.4	-
10	18T196-10	-	-	101.0	59.0	65.7	37.9	6884.5	-
37	222M1098	-	-	87.5	62.4	69.8	8.8	6799.1	-
9	19T-176-CONV-38	-	-	98.5	63.3	69.3	19.3	6702.9	-
36	222M1097	-	-	88.0	64.2	68.5	16.5	6597.0	-
55	19T-183-CL-13	-	-	92.5	60.1	67.6	21.6	6317.0	-
8	MP6_434	-	-	86.5	59.9	68.9	23.4	5498.9	-

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

Table 13. Grain and milling yields and agronomic performance of entries in the 2023 Regional Yield Test – Conventional. Lake Arthur, Vermilion Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
11	221L1002	-	-	99.5	56.4	71.1	29.0	10593.0	-
62	DG263L	-	-	102.5	62.6	70.0	29.1	10022.0	-
52	19T-238-62	-	-	104.5	51.8	71.4	47.8	9738.0	-
49	19T-238-3	-	-	99.0	51.6	69.6	38.1	9398.8	-
36	19T-217-39	-	-	100.0	61.0	72.8	29.8	9312.2	-
64	Avant	-	-	92.5	65.4	72.8	23.5	9165.6	-
46	19T-218-45	-	-	99.5	58.5	72.2	29.9	8861.1	-
12	221L1013	-	-	90.0	63.9	72.5	22.9	8775.0	-
33	MP6_244	-	-	100.5	60.8	70.5	28.9	8705.8	-
17	221L1061	-	-	91.0	62.7	72.3	35.5	8646.0	-
21	221L1143	-	-	113.5	53.7	71.0	40.8	8622.2	-
47	19T-218-42	-	-	97.0	60.0	71.6	32.5	8579.9	-
19	221L1099	-	-	96.0	60.3	71.2	24.0	8568.0	-
1	201L1251	-	-	94.0	49.0	70.4	37.0	8547.9	-
50	19T-238-33	-	-	98.5	51.1	70.8	37.6	8547.1	-
38	19T-217-71	-	-	94.0	64.5	72.8	21.0	8452.7	-
51	19T-238-34	-	-	100.5	57.2	71.9	41.0	8371.6	-
4	20T-071-25	-	-	91.0	50.6	68.8	49.0	8363.0	-
2	211L1124	-	-	99.5	62.2	71.7	27.9	8345.6	-
56	19T-176-CONV-6	-	-	110.0	64.0	72.4	17.5	8243.3	-
41	19T-218-30	-	-	96.5	61.1	71.9	28.4	8159.7	-
54	19T-238-13	-	-	102.0	56.4	72.5	44.3	8137.6	-
37	19T-217-69	-	-	93.5	62.5	72.5	30.6	8105.6	-
18	221L1087	-	-	86.5	57.1	71.4	34.8	8062.2	-
13	221L1015	-	-	93.5	59.4	71.7	24.5	7942.8	-
65	Cheniere	-	-	95.6	65.0	73.0	13.5	7889.0	-
58	20T-177-84	-	-	104.0	44.2	68.8	38.3	7853.2	-
39	19T-217-74	-	-	90.0	62.1	72.8	30.2	7826.7	-
9	20T-155-08	-	-	114.5	57.6	68.5	26.7	7796.8	-
55	19T-176-CONV-3	-	-	105.0	62.1	71.6	16.7	7769.9	-
35	MP6_295	-	-	96.5	52.9	69.4	39.3	7697.1	-
20	221L1126	-	-	99.5	57.5	70.7	28.6	7669.8	-
24	221L1202	-	-	99.0	60.1	71.6	29.1	7618.0	-
28	221M1033	-	-	106.0	63.0	71.5	24.6	7577.1	-
57	20T-155-85	-	-	101.0	51.9	69.1	42.8	7529.8	-
59	20T-156-82	-	-	101.5	52.2	68.7	39.7	7437.1	-
30	221M1083	-	-	94.0	63.3	72.0	18.5	7377.1	-
61	Taurus	-	-	86.5	59.4	71.7	20.2	7354.7	-
25	221L1203	-	-	98.5	54.3	71.0	32.2	7344.5	-
63	RU1902207	-	-	93.5	59.9	71.5	30.0	7201.2	-
26	221M1016	-	-	93.5	65.4	71.2	17.3	7158.1	-

Continued.

Table 13. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
10	221L1001	-	-	93.5	56.5	70.4	27.4	7143.3	-
15	221L1032	-	-	105.0	50.2	68.4	22.2	7038.0	-
45	19T-218-91	-	-	101.0	56.5	70.1	27.8	6877.5	-
8	20T-073-16	-	-	89.0	58.7	70.6	27.0	6862.7	-
29	221M1041	-	-	95.0	58.2	71.4	23.2	6852.9	-
14	221L1024	-	-	97.5	58.6	69.9	23.8	6815.4	-
53	19T-238-73	-	-	101.5	55.4	70.0	35.3	6799.9	-
34	MP6_292	-	-	102.5	55.9	70.9	34.1	6785.6	-
16	221L1060	-	-	96.0	55.7	71.5	28.5	6773.7	-
66	Jupiter	-	-	91.5	59.9	69.5	35.5	6678.0	-
7	20T-071-53	-	-	93.5	55.5	67.7	30.4	6662.7	-
3	211L1293	-	-	94.5	52.0	70.3	33.8	6567.1	-
22	221L1150	-	-	87.5	57.5	70.5	30.7	6475.8	-
6	20T-071-42	-	-	103.0	63.4	72.6	26.0	6474.3	-
48	19T-220-94	-	-	91.0	55.4	70.8	33.8	6305.3	-
31	221M1095	-	-	89.5	64.2	71.6	24.8	6305.1	-
23	221L1182	-	-	104.0	54.9	71.0	24.0	6261.8	-
43	19T-218-86	-	-	98.5	62.8	71.1	20.5	6209.9	-
42	19T-218-43	-	-	97.5	59.5	70.8	28.8	6129.0	-
40	19T-218-19	-	-	100.5	59.5	70.5	23.8	5908.3	-
5	20T-071-40	-	-	81.5	47.8	67.9	35.2	5714.2	-
60	Titan	-	-	90.5	64.3	71.3	22.5	5519.2	-
27	221M1021	-	-	83.0	55.9	69.5	29.2	5370.3	-
44	19T-218-87	-	-	97.0	54.3	69.9	27.5	4702.1	-
32	MP6_060	-	-	80.0	52.1	69.5	25.4	4119.1	-

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

Table 14. Grain and milling yields and agronomic performance of entries in the 2023 Regional Yield Test – Provisia. Lake Arthur, Vermilion Parish, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
8	223L1128	-	-	99.0	59.0	73.2	29.0	11187.1	-
28	19T-262-128	-	-	103.5	50.8	69.3	33.3	11004.4	-
21	223L1216	-	-	96.0	59.2	71.4	34.7	10807.3	-
32	19T-262-244	-	-	100.0	51.3	69.8	34.8	10775.2	-
24	223L1236	-	-	101.5	45.5	67.4	26.7	10692.4	-
10	223L1139	-	-	105.5	63.5	72.5	31.5	10666.0	-
9	223L1133	-	-	102.0	55.7	70.7	24.5	10478.3	-
3	223L1001	-	-	103.5	46.1	70.4	23.3	10390.0	-
20	223L1213	-	-	105.5	55.0	69.9	43.7	10372.9	-
4	223L1027	-	-	101.5	54.6	71.0	27.8	10366.0	-
31	19T-262-239	-	-	100.5	54.0	70.2	31.2	10362.2	-
18	223L1196	-	-	102.5	47.4	69.5	33.1	10349.1	-
23	223L1221	-	-	106.0	59.0	70.4	28.7	10296.6	-
22	223L1218	-	-	108.0	58.1	71.2	32.0	10241.7	-
25	223L1247	-	-	99.0	53.4	69.3	35.6	10238.0	-
30	19T-262-191	-	-	102.0	50.2	69.7	36.7	10191.2	-
33	19T-262-278	-	-	98.5	53.8	69.8	31.3	10151.7	-
2	RU2102186	-	-	104.0	54.9	70.2	35.0	10121.8	-
5	223L1037	-	-	97.0	51.4	67.9	23.8	10075.0	-
26	19T-262-62	-	-	105.0	53.1	70.2	32.7	10041.0	-
12	223L1147	-	-	97.0	56.4	70.7	26.9	9842.3	-
35	PVL03	-	-	101.5	55.6	71.1	34.0	9810.1	-
7	223L1064	-	-	98.5	55.8	71.3	27.3	9808.0	-
16	223L1184	-	-	107.5	58.4	71.0	31.8	9794.3	-
15	223L1183	-	-	102.0	59.2	70.2	29.9	9739.6	-
27	19T-262-76	-	-	100.5	48.5	68.7	32.5	9690.4	-
6	223L1065	-	-	102.0	61.0	72.3	33.3	9684.2	-
19	223L1212	-	-	101.5	57.6	70.4	30.2	9643.5	-
29	19T-262-184	-	-	97.5	53.9	69.7	30.5	9578.1	-
11	223L1145	-	-	99.0	56.7	69.4	31.3	9552.9	-
17	223L1191	-	-	99.0	52.4	68.4	38.6	9539.3	-
1	203L1104	-	-	103.0	62.4	71.2	24.8	9494.8	-
14	223L1173	-	-	108.5	61.7	70.4	26.9	9398.7	-
13	223L1148	-	-	106.0	59.0	69.3	33.0	9125.3	-
34	RU2201021	-	-	103.0	55.4	69.5	23.8	8820.8	-

[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 and ratoon crops, 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 complete randomized design with one replication was applied to arrange test entries. The plot size at planting was 4.66 x 16.5 ft. Seeding rate was 75 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 2023 Conventional Preliminary Yield trials.

Location	Trial	Planting	Harvesting
HRCRRS	PYL	2/27	7/25
	PYL – Late Planting	4/19	8/18
	PYM	2/28	7/26
	PYM – Late Planting	4/20	8/18

Table 2. Entry number, pedigree, grain type, and source information for entries in the 2023 Conventional Preliminary Yield trials.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CN	1	231L1001	Della2/Lakast	AI	LAES
CN	2	231L1002	Della2/Lakast	AI	LAES
CN	3	231L1003	Della2/Lakast	AI	LAES
CN	4	231L1004	RU1602195/Della2	AI	LAES
CN	5	231L1005	RU1602195/Della2	AI	LAES
CN	6	231L1006	RU1602195/Della2	AI	LAES
CN	7	231L1007	RU1602195/Della2	AI	LAES
CN	8	231L1008	RU1602195/Della2	AI	LAES
CN	9	231L1009	RU1602195/Della2	AI	LAES
CN	10	231L1010	Della2/19-53006	AI	LAES
CN	11	231L1011	RU1902207/RU1902014	LG	LAES
CN	12	231L1012	RU1902207/RU1902014	LG	LAES
CN	13	231L1013	RU1902207/RU1902014	LG	LAES
CN	14	231L1014	Avant/Diamond	LG	LAES
CN	15	231L1015	Avant/Diamond	LG	LAES
CN	16	231L1016	Avant/Diamond	LG	LAES
CN	17	231L1017	Avant/Diamond	LG	LAES
CN	18	231L1018	Avant/Diamond	LG	LAES
CN	19	231L1019	Avant/Diamond	LG	LAES
CN	20	231L1020	RU1602195/RU1902207	LG	LAES
CN	21	231L1021	182L2195/RU2002150	LG	LAES
CN	22	231L1022	182L2195/RU2002150	LG	LAES
CN	23	231L1023	182L2195/RU2002150	LG	LAES
CN	24	231L1024	182L2195/RU2002150	LG	LAES
CN	25	231L1025	RU1702183/Avant	LG	LAES
CN	26	231L1026	RU1702183/Avant	LG	LAES
CN	27	231L1027	RU1702183/Avant	LG	LAES
CN	28	231L1028	Avant/CL111	LG	LAES
CN	29	231L1029	Avant/CL111	LG	LAES
CN	30	231L1030	Avant/CL111	LG	LAES
CN	31	231L1031	Avant/CL111	LG	LAES
CN	32	231L1032	Avant/CL111	LG	LAES
CN	33	231L1033	RU1902122/RU2002150	LG	LAES
CN	34	231L1034	RU1902122/RU2002150	LG	LAES
CN	35	231L1035	RU1902122/RU2002150	LG	LAES
CN	36	231L1036	RU1902122/RU2002150	LG	LAES
CN	37	231L1037	RU1902122/RU2002150	LG	LAES
CN	38	231L1038	RU1902122/RU2002150	LG	LAES
CN	39	231L1039	RoyJ/182L2166	LG	LAES
CN	40	231L1040	RoyJ/182L2166	LG	LAES
CN	41	231L1041	RU1702140/Diamond	LG	LAES
CN	42	231L1042	RU1702140/Diamond	LG	LAES
CN	43	231L1043	RU1702140/Diamond	LG	LAES
CN	44	231L1044	RU1702140/Diamond	LG	LAES
CN	45	231L1045	RU1702140/Diamond	LG	LAES
CN	46	231L1046	Mermentau/Avant	LG	LAES
CN	47	231L1047	Mermentau/Avant	LG	LAES
CN	48	231L1048	Mermentau/Avant	LG	LAES
CN	49	231L1049	Mermentau/Avant	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type†	Source‡
CN	50	231L1050	RU2002186/RU1902034	LG	LAES
CN	51	231L1051	RU2002186/RU1902034	LG	LAES
CN	52	231L1052	RU2002186/RU1902034	LG	LAES
CN	53	231L1053	RU2002186/RU1902034	LG	LAES
CN	54	231L1054	RU2002186/RU1902034	LG	LAES
CN	55	231L1055	RU1902207/RU1702183	LG	LAES
CN	56	231L1056	RU1902207/RU1702183	LG	LAES
CN	57	231L1057	RU1902207/RU1702183	LG	LAES
CN	58	231L1058	RU1902207/RU1702183	LG	LAES
CN	59	231L1059	RU1902207/RU1702183	LG	LAES
CN	60	231L1060	RU1902207/RU1702183	LG	LAES
CN	61	231L1061	RU1902207/RU1702183	LG	LAES
CN	62	231L1062	Mermentau/BBC08-1	LG	LAES
CN	63	231L1063	RU1902034/RU2002222	LG	LAES
CN	64	231L1064	RU1902034/RU2002222	LG	LAES
CN	65	231L1065	RU1902034/RU2002222	LG	LAES
CN	66	231L1066	RU1902034/RU2002222	LG	LAES
CN	67	231L1067	RU1902034/RU2002222	LG	LAES
CN	68	231L1068	RU1902034/RU2002222	LG	LAES
CN	69	231L1069	RU1902034/RU2002222	LG	LAES
CN	70	231L1070	182L2195/RU2002122	LG	LAES
CN	71	231L1071	182L2195/RU2002122	LG	LAES
CN	72	231L1072	RU1902162/AddiJo	LG	LAES
CN	73	231L1073	RU1902162/AddiJo	LG	LAES
CN	74	231L1074	RU1902162/AddiJo	LG	LAES
CN	75	231L1075	RU1902162/AddiJo	LG	LAES
CN	76	231L1076	CLL19/RU2002122	LG	LAES
CN	77	231L1077	CLL19/RU2002122	LG	LAES
CN	78	231L1078	CLL19/RU2002122	LG	LAES
CN	79	231L1079	CLL19/RU2002122	LG	LAES
CN	80	231L1080	CLL19/RU2002122	LG	LAES
CN	81	231L1081	RU2002217/Avant	LG	LAES
CN	82	231L1082	RU2002217/Avant	LG	LAES
CN	83	231L1083	RU2002217/Avant	LG	LAES
CN	84	231L1084	RU2002217/Avant	LG	LAES
CN	85	231L1085	RU2002217/Avant	LG	LAES
CN	86	231L1086	RU2002217/Avant	LG	LAES
CN	87	231L1087	RU2002217/Avant	LG	LAES
CN	88	231L1088	RU2002217/Avant	LG	LAES
CN	89	231L1089	RU2002217/Avant	LG	LAES
CN	90	231L1090	RU2002217/Avant	LG	LAES
CN	91	231L1091	RU2002222/RU2002217	LG	LAES
CN	92	231L1092	RU2002222/RU2002217	LG	LAES
CN	93	231L1093	RU2002222/RU2002217	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type†	Source‡
CN	94	231L1094	RU2002222/RU2002217	LG	LAES
CN	95	231L1095	RU2002222/RU2002217	LG	LAES
CN	96	231L1096	RU1902207/RU2002217	LG	LAES
CN	97	231L1097	RU1902207/RU2002217	LG	LAES
CN	98	231L1098	RU1902207/RU2002217	LG	LAES
CN	99	231L1099	RU1902207/RU2002217	LG	LAES
CN	100	231L1100	RU1902207/RU2002217	LG	LAES
CN	101	231L1101	RU2002222/RU1902207	LG	LAES
CN	102	231L1102	RU2002222/RU1902207	LG	LAES
CN	103	231L1103	RU2002222/RU1902207	LG	LAES
CN	104	231L1104	RU2002222/RU1902207	LG	LAES
CN	105	231L1105	RU2002222/RU1902207	LG	LAES
CN	106	231L1106	RU2002222/RU1902207	LG	LAES
CN	107	231L1107	RU2002222/RU1902207	LG	LAES
CN	108	231L1108	RU2002222/RU1902207	LG	LAES
CN	109	231L1109	RU2002222/RU1902207	LG	LAES
CN	110	231L1110	RU2002222/RU1902207	LG	LAES
CN	111	231L1111	RU2002222/Cheniere	LG	LAES
CN	112	231L1112	RU2002222/Cheniere	LG	LAES
CN	113	231L1113	RU2002222/Cheniere	LG	LAES
CN	114	231L1114	RU2002222/Cheniere	LG	LAES
CN	115	231L1115	RU2002146/Avant	LG	LAES
CN	116	231L1116	RU2002146/Avant	LG	LAES
CN	117	231L1117	RU2002146/Avant	LG	LAES
CN	118	231L1118	RU2002146/Avant	LG	LAES
CN	119	231L1119	RU2002146/Avant	LG	LAES
CN	120	231L1120	RU2002146/Avant	LG	LAES
CN	121	231L1121	RU2002146/Avant	LG	LAES
CN	122	231L1122	RU1902207/RU2002186	LG	LAES
CN	123	231L1123	RU1902207/RU2002186	LG	LAES
CN	124	231L1124	RU1902207/RU2002186	LG	LAES
CN	125	231L1125	RU1902207/RU2002186	LG	LAES
CN	126	231L1126	RU1902207/RU2002186	LG	LAES
CN	127	231L1127	RU1902207/RU2002186	LG	LAES
CN	128	231L1128	RU1902207/RU2002186	LG	LAES
CN	129	231L1129	RU1902207/RU2002186	LG	LAES
CN	130	231L1130	RU1902207/RU2002186	LG	LAES
CN	131	231L1131	RU1902207/RU2002186	LG	LAES
CN	132	231L1132	RU1902207/RU2002186	LG	LAES
CN	133	231L1133	RU1902207/RU2002186	LG	LAES
CN	134	231L1134	RU1902207/RU2002186	LG	LAES
CN	135	231L1135	RU1902207/RU2002186	LG	LAES
CN	136	231L1136	RU1902207/RU2002186	LG	LAES
CN	137	231L1137	Cheniere/Mermentau	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CN	138	231L1138	Cheniere/Mermentau	LG	LAES
CN	139	231L1139	Cheniere/Mermentau	LG	LAES
CN	140	231L1140	Cheniere/Mermentau	LG	LAES
CN	141	231L1141	Cheniere/Mermentau	LG	LAES
CN	142	231L1142	Cheniere/Mermentau	LG	LAES
CN	143	231L1143	Cheniere/Mermentau	LG	LAES
CN	144	231L1144	Cheniere/Mermentau	LG	LAES
CN	145	231L1145	RU1902207/RU2002232	LG	LAES
CN	146	231L1146	RU1902207/RU2002232	LG	LAES
CN	147	231L1147	RU1902207/RU2002232	LG	LAES
CN	148	231L1148	RU1902207/RU2002232	LG	LAES
CN	149	231L1149	RU1902207/RU2002232	LG	LAES
CN	150	231L1150	RU1902207/RU2002232	LG	LAES
CN	151	231L1151	RU1902207/RU2002232	LG	LAES
CN	152	231L1152	RU1902207/RU2002232	LG	LAES
CN	153	231L1153	RU1902207/RU2002232	LG	LAES
CN	154	231L1154	RU1902207/RU2002232	LG	LAES
CN	155	231L1155	RU1902207/RU2002232	LG	LAES
CN	156	231L1156	RU1902207/RU2002232	LG	LAES
CN	157	231L1157	RU1902207/RU2002232	LG	LAES
CN	158	231L1158	RU1902207/RU2002232	LG	LAES
CN	159	231L1159	RU1902207/RU2002232	LG	LAES
CN	160	231L1160	RU1902207/RU2002232	LG	LAES
CN	161	231L1161	RU2002190/RU2002222	LG	LAES
CN	162	231L1162	RU2002190/RU2002222	LG	LAES
CN	163	231L1163	RU2002190/RU2002222	LG	LAES
CN	164	231L1164	RU2002190/RU2002222	LG	LAES
CN	165	231L1165	RU2002190/RU2002222	LG	LAES
CN	166	231L1166	RU1702140/RU2002150	LG	LAES
CN	167	231L1167	RU1702140/RU2002150	LG	LAES
CN	168	231L1168	RU1702140/RU2002150	LG	LAES
CN	169	231L1169	RU1702140/RU2002150	LG	LAES
CN	170	231L1170	RU1702140/RU2002150	LG	LAES
CN	171	231L1171	RU1702140/RU2002150	LG	LAES
CN	172	231L1172	RU1702140/RU2002150	LG	LAES
CN	173	231L1173	RU1702140/RU2002150	LG	LAES
CN	174	231L1174	RU1702140/RU2002150	LG	LAES
CN	175	231L1175	RU1702140/RU2002150	LG	LAES
CN	176	231L1176	RU1702140/RU2002150	LG	LAES
CN	177	231L1177	RU1702140/RU2002150	LG	LAES
CN	178	231L1178	RU1702140/RU2002150	LG	LAES
CN	179	231L1179	RU2002186/RU2002232	LG	LAES
CN	180	231L1180	RU2002186/RU2002232	LG	LAES
CN	181	231L1181	RU2002186/RU2002232	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CN	182	231L1182	RU2002186/RU2002232	LG	LAES
CN	183	231L1183	RU2002186/RU2002232	LG	LAES
CN	184	231L1184	RU2002186/RU2002232	LG	LAES
CN	185	231L1185	RU2002186/RU2002232	LG	LAES
CN	186	231L1186	RU2002186/RU2002232	LG	LAES
CN	187	231L1187	RU2002186/RU2002232	LG	LAES
CN	188	231L1188	RU2002186/RU2002232	LG	LAES
CN	189	231L1189	RU2002186/RU2002232	LG	LAES
CN	190	231L1190	RU2002186/RU2002232	LG	LAES
CN	191	231L1191	RU2002186/RU2002232	LG	LAES
CN	192	231L1192	RU2002186/RU2002232	LG	LAES
CN	193	231L1193	RU2002186/RU2002232	LG	LAES
CN	194	231L1194	RU2002186/RU2002232	LG	LAES
CN	195	231L1195	RU2002186/RU2002232	LG	LAES
CN	196	231L1196	RU2002186/RU2002232	LG	LAES
CN	197	231L1197	RU2002232/RU1702140	LG	LAES
CN	198	231L1198	RU2002232/RU1702140	LG	LAES
CN	199	231L1199	RU2002232/RU1702140	LG	LAES
CN	200	231L1200	RU2002232/RU1702140	LG	LAES
CN	201	231L1201	RU2002232/RU1702140	LG	LAES
CN	202	231L1202	RU2002232/RU1702140	LG	LAES
CN	203	231L1203	RU2002232/RU1702140	LG	LAES
CN	204	231L1204	RU2002232/RU1702140	LG	LAES
CN	205	231L1205	RU2002232/RU1702140	LG	LAES
CN	206	231L1206	RU2002232/RU1702140	LG	LAES
CN	207	231L1207	RU2002232/RU1702140	LG	LAES
CN	208	231L1208	RU2002232/RU1702140	LG	LAES
CN	209	231L1209	RU2002232/RU1702140	LG	LAES
CN	210	231L1210	RU2002232/RU1702140	LG	LAES
CN	211	231L1211	Catahoula/RU2002190	LG	LAES
CN	212	231L1212	Catahoula/RU2002190	LG	LAES
CN	213	231L1213	Catahoula/RU2002190	LG	LAES
CN	214	231L1214	Catahoula/RU2002190	LG	LAES
CN	215	231L1215	Catahoula/RU2002190	LG	LAES
CN	216	231L1216	Cheniere/191L2073	LG	LAES
CN	217	231L1217	Cheniere/191L2073	LG	LAES
CN	218	231L1218	Cheniere/191L2073	LG	LAES
CN	219	231L1219	Cheniere/191L2073	LG	LAES
CN	220	231L1220	Cheniere/191L2073	LG	LAES
CN	221	231L1221	Cheniere/191L2073	LG	LAES
CN	222	231L1222	Cheniere/191L2073	LG	LAES
CN	223	231L1223	RU2002186/RU2002150	LG	LAES
CN	224	231L1224	RU2002186/RU2002150	LG	LAES
CN	225	231L1225	RU2002186/RU2002150	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CN	226	231L1226	RU2002186/RU2002150	LG	LAES
CN	227	231L1227	RU2002186/RU2002150	LG	LAES
CN	228	231L1228	RU2002186/RU2002150	HI	LAES
CN	229	231L1229	RU2002186/RU2002150	LG	LAES
CN	230	231L1230	RU2002186/RU2002150	LG	LAES
CN	231	231L1231	RU2002186/RU2002150	LG	LAES
CN	232	231L1232	RU2002186/RU2002150	LG	LAES
CN	233	231L1233	RU2002190/RU1902207	LG	LAES
CN	234	231L1234	RU2002190/RU1902207	LG	LAES
CN	235	231L1235	RU2002190/RU1902207	LG	LAES
CN	236	231L1236	RU2002190/RU1902207	LG	LAES
CN	237	231L1237	RU2002190/RU1902207	LG	LAES
CN	238	231L1238	RU2002190/RU1902207	LG	LAES
CN	239	231L1239	RU2002232/RU2002150	LG	LAES
CN	240	231L1240	RU2002232/RU2002150	LG	LAES
CN	241	231L1241	RU2002232/RU2002150	LG	LAES
CN	242	231L1242	RU2002232/RU2002150	LG	LAES
CN	243	231L1243	RU2002232/RU2002150	LG	LAES
CN	244	231L1244	RU2002232/RU2002150	LG	LAES
CN	245	231L1245	RU2002232/RU2002150	LG	LAES
CN	246	231L1246	RU2002232/RU2002150	LG	LAES
CN	247	231L1247	RU2002232/RU2002150	LG	LAES
CN	248	231L1248	RU2002232/RU2002150	LG	LAES
CN	249	231L1249	RU2002232/RU2002150	LG	LAES
CN	250	231L1250	RU2002232/RU2002150	LG	LAES
CN	251	231L1251	RU2002232/RU2002150	LG	LAES
CN	252	231L1252	RU2002232/RU2002150	LG	LAES
CN	253	231L1253	RU2002232/RU2002150	LG	LAES
CN	254	231L1254	RU2002232/RU2002150	LG	LAES
CN	255	231L1255	RU2002232/RU2002150	LG	LAES
CN	256	231L1256	RU2002232/RU2002150	LG	LAES
CN	257	231L1257	RU2002232/RU2002150	LG	LAES
CN	258	231L1258	RU2002232/RU2002150	LG	LAES
CN	259	231L1259	RU2002232/RU2002150	LG	LAES
CN	260	231L1260	RU2002232/RU2002150	LG	LAES
CN	261	231L1261	RU2002232/RU2002150	LG	LAES
CN	262	231L1262	CL153/AddiJo	LG	LAES
CN	263	231L1263	CL153/AddiJo	LG	LAES
CN	264	231L1264	CL153/AddiJo	LG	LAES
CN	265	231L1265	CL153/AddiJo	LG	LAES
CN	266	231L1266	RU2002190/RU1602195	LG	LAES
CN	267	231L1267	RU2002190/RU1602195	LG	LAES
CN	268	231L1268	RU2002190/RU1602195	LG	LAES
CN	269	231L1269	RU2002190/RU1602195	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type†	Source‡
CN	270	231L1270	RU2002190/RU1602195	LG	LAES
CN	271	231L1271	RU2002190/RU1602195	LG	LAES
CN	272	231L1272	Cheniere/RU2002114	LG	LAES
CN	273	231L1273	Cheniere/RU2002114	LG	LAES
CN	274	231L1274	Cheniere/RU2002114	LG	LAES
CN	275	231L1275	Cheniere/RU2002114	LG	LAES
CN	276	231L1276	Cheniere/RU2002114	LG	LAES
CN	277	231L1277	Cheniere/RU2002114	LG	LAES
CN	278	231L1278	Cheniere/RU2002114	LG	LAES
CN	279	231L1279	Cheniere/RU2002114	LG	LAES
CN	280	231L1280	Cheniere/RU2002114	LG	LAES
Seg	281	231L1281	CLL19/Avant	LG	LAES
Seg	282	231L1282	CLL19/Avant	LG	LAES
Seg	283	231L1283	CLL19/Avant	LG	LAES
Seg	284	231L1284	CLL19/Avant	LG	LAES
Seg	285	231L1285	CLL19/Avant	LG	LAES
Seg	286	231L1286	CLL19/Avant	LG	LAES
Seg	287	231L1287	RU2002190/RU2002114	LG	LAES
CN	288	231L1288	Mermentau/RU1902207	LG	LAES
CN	289	231L1289	Mermentau/RU1902207	LG	LAES
CN	290	231L1290	Mermentau/RU1902207	LG	LAES
CN	291	231L1291	Mermentau/RU1902207	LG	LAES
CN	292	231L1292	Mermentau/RU1902207	LG	LAES
CN	293	231L1293	Mermentau/RU1902207	LG	LAES
CN	294	Avant	Trenasse//Cocodrie/Jefferson/3/Ahrent/Cocodrie//Cocodrie/LaGrue	LG	LAES
CL	295	CLL19	Wells/CL161//Drew/CL161/3/Cheniere//Cocodrie/Jefferson	LG	LAES
CN	296	Cheniere	Newbonnet/Katy/3/L202/Lemont//L202	HI	LAES
CN	297	RU1902207	Catahoula/Mermentau	LG	LAES
CN	298	AddiJo	Thad/Catahoula	HI	LAES
CN	299	DG263L		HI	Nutrien
CN	300	Mermentau	Ahrent/Cocodrie//Cocodrie/Lagrue	LG	LAES
CN	1	231M1001	RU1902178/M105	MG	LAES
CN	2	231M1002	RU1902178/Titan	MG	LAES
CN	3	231M1003	RU1702165/Titan	MG	LAES
CN	4	231M1004	RU1902178/Titan	MG	LAES
CN	5	231M1005	M206/RU1702165	MG	LAES
CN	6	231M1006	RU2002094/RU1801211	MG	LAES
CN	7	231M1007	RU2002090/RU1902227	MG	LAES
CN	8	231M1008	Jupiter/RU1902227	MG	LAES
CN	9	231M1009	RU2002094/Taurus	MG	LAES
CN	10	231M1010	RU2002094/Taurus	MG	LAES
CN	11	231M1011	RU2002090/RU1801211	MG	LAES
CN	12	231M1012	RU2002094/BBC17-1	MG	LAES
CN	13	231M1013	BBC17-1/RU1802174	MG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CN	14	231M1014	Jupiter/BBC17-1	MG	LAES
CN	15	231M1015	BBC35-1/Taurus	MG	LAES
CN	16	231M1016	BBC17-1/RU2002090	MG	LAES
CN	17	231M1017	BBC17-1/Taurus	MG	LAES
CN	18	231M1018	BBC17-1/181M1740	MG	LAES
CN	19	231M1019	BBC35-1/Jupiter	MG	LAES
CN	20	231M1020	BBC35-1/Lynx	MG	LAES
CN	21	231M1021	BBC35-1/RU2002094	MG	LAES
CN	22	231M1022	RU2002090/BBC35-1	MG	LAES
CN	23	231M1023	RU2002090/BBC35-1	MG	LAES
CN	24	231M1024	181M1740/BBC35-1	MG	LAES
CN	25	231M1025	181M1740/BBC35-1	MG	LAES
CN	26	231M1026	RU2002094/M206	MG	LAES
CN	27	231M1027	Jupiter/M206	MG	LAES
CN	28	231M1028	Titan/RU2002094	MG	LAES
CN	29	231M1029	Titan/RU2002094	MG	LAES
CN	30	231M1030	Titan/RU2002094	MG	LAES
CN	31	231M1031	Titan/RU2002094	MG	LAES
CN	32	231M1032	Titan/RU2002094	MG	LAES
CN	33	231M1033	Titan/RU2002094	MG	LAES
CN	34	231M1034	Titan/RU2002094	MG	LAES
CN	36	231M1036	RU1902227/RU2002094	MG	LAES
CN	37	231M1037	RU1902227/RU2002094	MG	LAES
CN	38	231M1038	RU1902227/RU2002094	MG	LAES
CN	39	231M1039	RU1902227/RU2002094	MG	LAES
CN	41	231M1041	RU1902227/RU2002094	MG	LAES
CN	42	231M1042	RU1902227/RU2002094	MG	LAES
CN	43	231M1043	RU1902227/RU2002094	MG	LAES
CN	44	231M1044	RU1902227/RU2002094	MG	LAES
CN	45	231M1045	RU2002094/Jupiter	MG	LAES
CN	46	231M1046	RU2002094/Jupiter	MG	LAES
CN	47	231M1047	RU2002094/Jupiter	MG	LAES
CN	48	231M1048	RU2002094/Jupiter	MG	LAES
CN	49	231M1049	RU2002094/Jupiter	MG	LAES
CN	50	231M1050	RU2002094/Jupiter	MG	LAES
CN	51	231M1051	RU1902227/RU1801211	MG	LAES
CN	52	231M1052	RU1902227/RU1801211	MG	LAES
CN	53	231M1053	RU1902227/RU1801211	MG	LAES
CN	54	231M1054	RU1902227/RU1801211	MG	LAES
CN	55	231M1055	RU1902227/RU1801211	MG	LAES
CN	56	231M1056	RU1902227/RU1801211	MG	LAES
CN	57	231M1057	RU1902227/RU1801211	MG	LAES
CN	58	231M1058	RU1902227/RU1801211	MG	LAES
CN	59	231M1059	Titan/RU2002090	MG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CN	60	231M1060	Titan/RU2002090	MG	LAES
CN	61	231M1061	Titan/RU2002090	MG	LAES
CN	62	231M1062	Titan/RU2002090	MG	LAES
CN	63	231M1063	Titan/RU2002090	MG	LAES
CN	64	231M1064	RU1902227/RU1802174	MG	LAES
CN	65	231M1065	RU1902227/RU1802174	MG	LAES
CN	66	231M1066	RU2002094/Lynx	MG	LAES
CN	67	231M1067	RU2002094/Lynx	MG	LAES
CN	68	231M1068	RU2002094/Lynx	MG	LAES
CN	69	231M1069	RU2002094/Lynx	MG	LAES
CN	70	231M1070	RU2002094/Lynx	MG	LAES
CN	71	231M1071	RU2002094/Lynx	MG	LAES
CN	72	231M1072	RU2002094/Lynx	MG	LAES
CN	73	231M1073	RU2002094/Lynx	MG	LAES
CN	74	231M1074	Lynx/RU2002090	MG	LAES
CN	75	231M1075	Lynx/RU2002090	MG	LAES
CN	76	231M1076	Lynx/RU2002090	MG	LAES
CN	77	231M1077	Lynx/RU2002090	MG	LAES
CN	78	231M1078	Lynx/RU2002090	MG	LAES
CN	79	231M1079	RU1802174/RU2002090	MG	LAES
CN	80	231M1080	RU1802174/RU2002090	MG	LAES
CN	81	231M1081	RU1802174/RU2002090	MG	LAES
CN	82	231M1082	RU1802174/RU2002090	MG	LAES
CN	83	231M1083	RU2002094/181M1740	MG	LAES
CN	84	231M1084	RU2002094/181M1740	MG	LAES
CN	85	231M1085	RU2002094/181M1740	MG	LAES
CN	86	231M1086	RU2002094/181M1740	MG	LAES
CN	87	231M1087	RU2002094/181M1740	MG	LAES
CN	88	231M1088	RU2002094/181M1740	MG	LAES
CN	90	231M1090	RU2002094/181M1740	MG	LAES
CN	91	231M1091	181M1740/RU1902227	MG	LAES
CN	92	231M1092	181M1740/RU1902227	MG	LAES
CN	93	231M1093	181M1740/RU1902227	MG	LAES
CN	94	231M1094	181M1740/RU1902227	MG	LAES
CN	96	231M1096	181M1740/RU1902227	MG	LAES
CN	97	231M1097	181M1740/RU1902227	MG	LAES
CN	98	231M1098	181M1740/RU1902227	MG	LAES
CN	100	231M1100	Titan/RU1801211	MG	LAES
CN	101	231M1101	Titan/RU1801211	MG	LAES
CN	102	231M1102	Titan/RU1801211	MG	LAES
CN	103	231M1103	Titan/RU1801211	MG	LAES
CN	104	231M1104	Titan/RU1801211	MG	LAES
CN	105	231M1105	Titan/RU1801211	MG	LAES
CN	106	231M1106	Titan/RU1801211	MG	LAES
CN	107	231M1107	Titan/RU1801211	MG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CN	108	231M1108	Titan/RU1801211	MG	LAES
CN	109	231M1109	RU1902174/M402	MG	LAES
CN	110	231M1110	RU1902174/M206	MG	LAES
CN	111	231M1111	181M1740/RU1801211	MG	LAES
CN	112	231M1112	181M1740/Titan	MG	LAES
CN	113	231M1113	181M1740/Titan	MG	LAES
Seg	114	231M1114	BBC17-1/RU1902227	MG	LAES
Seg	115	231M1115	RU1802174/BBC35-1	MG	LAES
CN	116	231M1116	Jupiter/Titan	MG	LAES
CN	117	231M1117	Jupiter/Titan	MG	LAES
CN	118	231M1118	Lynx/Titan	MG	LAES
CN	119	231M1119	Jupiter/Taurus	MG	LAES
CN	120	231M1120	RU2002090/Jupiter	MG	LAES
CN	121	231M1121	RU2002090/Jupiter	MG	LAES
CN	122	231M1122	RU2002090/RU2002094	MG	LAES
CN	123	Titan	M206/STG99F507118//Jupiter	MG	AAES
CN	124	Jupiter	Bengal/Rico1/3/Bengal//Mercury/Rico1	MG	LAES
CN	125	Taurus	Rico1/Bengal//RU0602162/RU0502031	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-Dixiebelle type

[‡] LAES – H. Rouse Caffey Rice Research Station, Louisiana Agricultural Experiment Station, LSU AgCenter, Rayne, LA; AAES – Arkansas Agricultural Experiment Station, Stuttgart, AR; and Nutrien Ag Solutions, El Campo, TX.

Table 3. Grain and milling yields and agronomic performance of entries in the 2023 Conventional Preliminary Yield Long-Grain trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
205	231L1205	1.0	96.0	90.0	57.9	70.9	25.5	10928.8	4256.7
252	231L1252	5.0	99.0	92.0	56.1	70.7	30.2	10190.9	3996.2
181	231L1181	3.0	96.0	83.0	55.2	69.0	21.5	9957.6	3015.0
241	231L1241	3.0	96.0	90.0	53.4	70.3	29.0	9956.5	3145.6
158	231L1158	3.0	100.0	89.0	60.2	71.1	28.3	9863.8	2967.3
94	231L1094	5.0	97.0	85.0	61.3	72.4	27.9	9840.1	3509.6
209	231L1209	5.0	100.0	85.0	58.6	71.3	31.2	9822.2	4037.0
275	231L1275	5.0	98.0	91.0	56.4	70.4	26.4	9744.5	3493.1
207	231L1207	5.0	99.0	86.0	59.0	70.3	25.4	9670.0	2910.8
257	231L1257	5.0	97.0	89.0	50.4	69.6	41.9	9621.5	2046.5
88	231L1088	3.0	93.0	88.0	59.0	72.1	22.1	9561.7	3129.2
299	DG263L	3.0	104.0	80.0	57.4	67.5	32.9	9556.9	1071.3
99	231L1099	3.0	97.0	95.0	47.2	70.2	23.8	9500.9	3156.6
295	CLL19	5.0	95.0	88.0	55.0	68.5	34.8	9484.9	2901.6
114	231L1114	3.0	96.0	88.0	60.8	72.0	24.0	9483.3	3257.4
261	231L1261	5.0	98.0	91.0	48.3	69.8	32.9	9448.9	2747.3
49	231L1049	5.0	96.0	85.0	60.9	71.1	30.7	9431.4	3549.2
271	231L1271	5.0	95.0	92.0	46.1	69.1	37.7	9414.7	3139.1
243	231L1243	5.0	99.0	95.0	57.4	71.8	32.7	9390.1	3339.5
242	231L1242	5.0	97.0	89.0	45.6	69.1	36.0	9370.4	3243.4
55	231L1055	5.0	95.0	86.0	56.4	71.0	33.2	9369.6	3201.2
196	231L1196	3.0	100.0	84.0	48.4	69.8	30.5	9363.6	2532.3
146	231L1146	5.0	98.0	82.0	59.6	72.3	32.5	9357.5	2752.6
86	231L1086	5.0	94.0	89.0	59.6	71.0	22.8	9354.1	4067.9
103	231L1103	5.0	97.0	88.0	58.5	72.2	29.3	9341.2	3802.2
71	231L1071	5.0	95.0	93.0	54.6	71.0	33.8	9331.1	4266.0
120	231L1120	3.0	95.0	86.0	48.6	68.5	45.6	9319.1	3227.5
82	231L1082	5.0	98.0	92.0	61.5	73.6	24.7	9318.8	2721.6
266	231L1266	5.0	99.0	86.0	57.8	70.7	42.5	9282.0	3259.0
256	231L1256	1.0	96.0	87.0	45.6	70.1	32.4	9237.3	2560.8
151	231L1151	3.0	99.0	87.0	59.9	71.2	18.4	9219.3	3931.9
294	Avant	3.0	91.0	78.0	57.3	69.7	25.8	9206.0	4208.4
179	231L1179	5.0	98.0	85.0	50.7	69.8	25.1	9187.2	2313.5
57	231L1057	5.0	98.0	86.0	58.5	71.2	27.7	9182.0	2810.0
204	231L1204	5.0	98.0	97.0	57.5	69.8	28.4	9176.1	3143.6
84	231L1084	5.0	97.0	89.0	57.9	72.1	25.8	9168.7	4143.8
39	231L1039	5.0	101.0	103.0	52.5	68.9	29.1	9167.6	5333.3
290	231L1290	5.0	97.0	88.0	61.9	72.9	43.2	9162.2	3648.4
228	231L1228	5.0	100.0	85.0	57.9	70.9	28.3	9145.5	3112.6
225	231L1225	5.0	98.0	86.0	52.3	71.4	39.0	9138.2	2759.6
171	231L1171	3.0	100.0	99.0	63.5	73.0	32.7	9135.1	3630.9

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
96	231L1096	5.0	97.0	89.0	51.4	71.2	26.8	9121.5	3621.3
253	231L1253		101.0	92.0	56.5	71.6	24.3	9115.2	3133.9
182	231L1182	3.0	98.0	85.0	50.7	68.4	20.2	9065.5	2824.1
83	231L1083	5.0	95.0	85.0	54.2	71.1	19.0	9063.6	3534.4
193	231L1193	5.0	96.0	79.0	49.2	69.0	33.1	9057.1	2074.8
109	231L1109	5.0	92.0	88.0	-	-	-	9053.4	3464.6
167	231L1167	5.0	99.0	91.0	59.2	72.2	29.5	9052.5	3754.3
58	231L1058	5.0	101.0	84.0	54.4	69.7	29.5	9024.5	4002.8
115	231L1115	5.0	98.0	85.0	64.4	73.2	28.8	9022.9	3251.4
148	231L1148	3.0	100.0	85.0	56.1	70.1	22.3	8992.5	3064.7
130	231L1130	5.0	95.0	86.0	53.7	71.2	28.7	8985.5	2649.6
110	231L1110	5.0	98.0	84.0	54.1	70.1	27.4	8980.3	3467.1
281	231L1281	5.0	96.0	81.0	50.9	68.2	21.5	8976.0	3697.7
216	231L1216	3.0	97.0	83.0	58.1	71.3	30.7	8974.8	3349.6
173	231L1173	5.0	97.0	89.0	49.3	70.8	39.1	8971.5	3990.5
202	231L1202	5.0	95.0	90.0	52.1	67.7	29.8	8942.4	3279.1
268	231L1268	5.0	98.0	89.0	52.2	70.4	37.8	8937.2	4060.5
85	231L1085	5.0	97.0	98.0	54.2	71.4	25.2	8936.9	2933.3
245	231L1245	5.0	98.0	85.0	53.0	70.9	30.2	8934.6	2565.5
25	231L1025	5.0	94.0	89.0	50.6	69.3	26.0	8924.8	3860.9
262	231L1262	3.0	104.0	85.0	61.5	69.8	24.3	8923.5	4040.8
59	231L1059	5.0	100.0	99.0	53.3	71.0	20.9	8919.0	3527.3
285	231L1285	5.0	97.0	82.0	46.4	66.2	24.9	8915.2	3094.0
147	231L1147	3.0	100.0	81.0	56.4	71.1	26.6	8912.0	3257.4
89	231L1089	5.0	95.0	91.0	53.9	63.5	24.1	8911.8	2823.1
291	231L1291	5.0	101.0	86.0	60.6	72.3	33.6	8910.1	3420.7
119	231L1119	5.0	96.0	84.0	61.9	72.6	33.6	8909.0	3166.9
16	231L1016	5.0	96.0	80.0	42.3	67.6	41.8	8874.0	3294.7
100	231L1100	5.0	104.0	89.0	55.4	69.5	30.6	8857.0	4084.5
80	231L1080	5.0	97.0	85.0	44.7	67.6	25.6	8844.1	3833.1
250	231L1250	3.0	99.0	73.0	-	-	-	8843.8	2690.3
200	231L1200	5.0	95.0	82.0	51.2	68.4	28.9	8842.3	2550.4
298	AddiJo	3.0	102.0	88.0	53.3	68.9	32.8	8838.1	3295.2
180	231L1180	5.0	98.0	79.0	44.5	68.3	25.0	8825.3	2039.6
121	231L1121	5.0	96.0	83.0	57.2	70.5	41.1	8815.3	3655.1
251	231L1251	5.0	98.0	79.0	49.5	68.4	26.1	8810.6	2820.8
208	231L1208	5.0	102.0	90.0	54.7	68.7	25.3	8801.2	3284.5
21	231L1021	5.0	104.0	82.0	65.7	72.5	31.7	8796.6	3126.3
132	231L1132	5.0	95.0	91.0	56.7	70.6	36.0	8787.5	2971.3
175	231L1175	5.0	96.0	96.0	51.9	70.1	40.0	8771.4	2461.8
48	231L1048	5.0	94.0	83.0	58.7	69.9	28.2	8759.8	2227.0
176	231L1176	5.0	98.0	95.0	49.3	70.2	38.4	8753.8	2778.8

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
185	231L1185	5.0	101.0	88.0	62.2	72.4	23.8	8737.8	1808.6
155	231L1155	3.0	96.0	91.0	51.6	70.5	26.8	8734.6	2904.5
93	231L1093	7.0	101.0	89.0	60.0	72.2	20.1	8722.0	2801.8
30	231L1030	5.0	96.0	89.0	54.2	70.2	36.4	8717.3	3273.2
149	231L1149	5.0	98.0	90.0	52.6	69.0	37.5	8711.8	2204.3
192	231L1192	5.0	103.0	83.0	53.1	67.3	20.8	8708.0	2665.9
195	231L1195	5.0	101.0	88.0	56.0	70.9	24.6	8707.5	2590.1
244	231L1244	5.0	99.0	92.0	43.2	70.1	32.4	8696.7	2055.2
215	231L1215	5.0	96.0	89.0	40.3	68.9	31.2	8693.7	2768.5
280	231L1280	5.0	100.0	103.0	64.1	73.4	22.5	8687.8	2873.8
29	231L1029	5.0	93.0	78.0	57.6	71.0	30.5	8679.8	3186.3
279	231L1279	3.0	100.0	93.0	48.9	68.5	35.4	8676.1	3019.9
107	231L1107	5.0	99.0	90.0	59.3	71.7	28.7	8671.3	3078.4
20	231L1020	5.0	100.0	104.0	47.6	68.2	27.8	8665.5	4166.5
255	231L1255	5.0	99.0	82.0	56.9	71.2	24.3	8665.5	2225.7
27	231L1027	5.0	94.0	90.0	56.5	69.3	26.0	8664.7	3002.3
91	231L1091	5.0	95.0	91.0	55.2	70.8	32.3	8659.6	2476.5
287	231L1287	3.0	95.0	91.0	33.2	67.3	35.6	8635.1	3047.0
254	231L1254	5.0	97.0	76.0	54.4	70.6	30.3	8627.0	2628.2
260	231L1260	3.0	96.0	76.0	54.1	70.8	33.4	8623.0	2650.7
283	231L1283	5.0	96.0	69.0	53.0	69.5	29.4	8616.4	2468.0
139	231L1139	3.0	97.0	94.0	57.9	69.5	26.5	8614.8	2788.6
159	231L1159	5.0	97.0	86.0	55.4	70.1	29.6	8612.0	1891.2
263	231L1263	5.0	104.0	101.0	54.4	67.5	19.1	8605.3	4824.7
26	231L1026	5.0	96.0	81.0	47.9	68.4	24.6	8597.7	3367.2
125	231L1125	5.0	97.0	84.0	46.7	69.4	30.5	8596.8	2930.5
219	231L1219	3.0	104.0	90.0	62.6	70.4	19.7	8590.6	3389.6
227	231L1227	5.0	97.0	90.0	43.9	69.4	43.3	8585.4	2877.7
60	231L1060	5.0	94.0	88.0	51.9	70.1	28.2	8573.7	2672.0
61	231L1061	5.0	99.0	91.0	52.6	69.3	24.5	8570.8	3257.2
201	231L1201	5.0	100.0	92.0	56.4	70.3	29.5	8565.5	3103.5
265	231L1265	5.0	102.0	93.0	52.5	67.1	32.1	8558.7	3392.2
293	231L1293	5.0	103.0	86.0	57.3	68.9	36.5	8553.1	2335.0
194	231L1194	5.0	101.0	83.0	57.4	71.4	27.6	8547.0	1707.2
45	231L1045	5.0	98.0	86.0	55.0	71.8	39.8	8532.0	3600.0
206	231L1206	5.0	102.0	89.0	59.5	69.8	19.5	8527.8	2752.3
284	231L1284	5.0	97.0	75.0	57.3	69.0	24.8	8512.3	3544.5
136	231L1136	5.0	99.0	89.0	53.6	70.8	43.9	8504.9	3669.2
19	231L1019	5.0	99.0	78.0	48.2	66.0	28.1	8499.5	2778.1
249	231L1249	5.0	98.0	88.0	51.8	69.4	27.1	8490.7	2083.5
277	231L1277	7.0	102.0	99.0	51.8	67.0	23.6	8482.4	2439.0
168	231L1168	5.0	95.0	94.0	52.7	70.3	35.4	8478.4	3132.8

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
123	231L1123	5.0	99.0	93.0	52.7	70.2	34.8	8477.0	3938.5
111	231L1111	5.0	102.0	78.0	66.1	74.7	26.3	8475.7	2906.4
32	231L1032	5.0	96.0	81.0	57.1	70.8	23.7	8471.0	2906.3
70	231L1070	5.0	103.0	104.0	59.2	69.5	31.1	8439.6	4950.0
90	231L1090	5.0	95.0	101.0	45.3	67.8	37.9	8439.5	3939.8
81	231L1081	5.0	95.0	89.0	58.2	70.8	24.7	8437.8	2760.7
153	231L1153	3.0	97.0	89.0	50.3	68.8	19.5	8436.7	3203.4
199	231L1199	3.0	97.0	92.0	59.9	70.4	15.2	8431.0	2881.4
18	231L1018	5.0	101.0	82.0	59.8	70.3	21.5	8430.5	2805.4
126	231L1126	5.0	96.0	83.0	47.0	69.5	37.5	8430.5	3069.1
292	231L1292	3.0	102.0	89.0	56.4	69.6	45.1	8423.7	2962.0
174	231L1174	5.0	96.0	80.0	52.1	71.3	34.3	8420.6	3090.4
246	231L1246	5.0	99.0	84.0	57.0	70.3	30.1	8407.4	2172.3
296	Cheniere	3.0	98.0	86.0	61.5	72.0	17.4	8404.2	4074.7
156	231L1156	3.0	97.0	88.0	42.6	68.5	25.5	8391.3	3572.5
106	231L1106	5.0	101.0	86.0	53.0	69.7	24.9	8385.5	2525.9
187	231L1187	5.0	97.0	77.0	56.7	71.7	34.5	8377.7	1913.0
282	231L1282	5.0	94.0	86.0	54.7	69.7	24.6	8373.5	3873.9
5	231L1005	5.0	101.0	94.0	41.3	67.0	21.1	8372.6	4228.7
42	231L1042	5.0	100.0	84.0	53.1	70.5	28.4	8369.7	3945.4
77	231L1077	7.0	102.0	92.0	50.4	68.2	22.8	8356.2	2831.6
188	231L1188	5.0	104.0	84.0	62.6	71.4	25.9	8343.7	2005.8
98	231L1098	3.0	97.0	96.0	57.5	70.0	21.5	8343.6	4569.2
31	231L1031	5.0	93.0	96.0	52.6	70.5	-	8332.8	3010.9
166	231L1166	7.0	98.0	88.0	49.1	68.9	33.3	8327.1	2617.1
273	231L1273	7.0	103.0	89.0	61.8	71.7	24.7	8322.9	2252.2
128	231L1128	5.0	99.0	93.0	47.2	67.3	29.4	8320.6	3624.2
112	231L1112	5.0	98.0	86.0	59.2	72.2	23.8	8319.8	3711.8
276	231L1276	3.0	101.0	93.0	61.3	72.1	19.5	8299.5	4645.2
135	231L1135	3.0	99.0	88.0	55.5	70.5	36.7	8299.4	2780.0
118	231L1118	5.0	103.0	87.0	61.6	69.9	21.4	8288.4	2462.2
54	231L1054	5.0	97.0	82.0	51.0	70.4	49.2	8285.0	1963.6
40	231L1040	5.0	104.0	85.0	44.9	68.8	21.7	8282.8	4636.8
267	231L1267	7.0	100.0	88.0	53.2	66.6	39.5	8263.2	2894.3
3	231L1003	3.0	97.0	97.0	38.3	67.6	29.4	8256.6	3638.6
213	231L1213	3.0	96.0	87.0	31.6	68.5	31.4	8246.6	2491.7
226	231L1226	5.0	96.0	90.0	36.1	69.1	47.4	8246.1	2394.3
87	231L1087	5.0	96.0	86.0	57.0	70.1	20.6	8233.1	2568.4
79	231L1079	5.0	98.0	94.0	53.6	68.6	31.5	8226.6	3967.0
237	231L1237	5.0	101.0	93.0	49.9	70.2	30.5	8214.9	2609.2
161	231L1161	5.0	98.0	106.0	50.8	70.0	40.5	8213.0	2729.0
11	231L1011	5.0	102.0	91.0	61.3	71.7	27.7	8207.1	3742.5

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
289	231L1289	5.0	103.0	88.0	62.5	71.5	34.6	8201.2	2666.6
218	231L1218	5.0	96.0	86.0	50.5	68.9	25.6	8194.9	3610.8
95	231L1095	5.0	92.0	99.0	45.9	68.8	34.4	8192.2	3030.0
56	231L1056	5.0	100.0	96.0	56.4	68.9	34.2	8186.5	2868.1
177	231L1177	5.0	95.0	91.0	55.9	71.7	27.7	8185.8	3392.2
2	231L1002	5.0	99.0	93.0	38.8	63.3	28.1	8173.8	3508.9
63	231L1063	5.0	98.0	85.0	41.6	68.2	30.6	8172.4	2936.8
223	231L1223	5.0	100.0	93.0	39.2	67.7	41.5	8162.9	2258.2
52	231L1052	5.0	102.0	83.0	49.6	67.4	31.5	8161.2	2926.2
43	231L1043	5.0	98.0	85.0	43.9	67.7	30.2	8153.0	4491.8
264	231L1264	5.0	100.0	102.0	57.0	70.3	21.0	8150.0	3938.6
278	231L1278	5.0	98.0	83.0	57.5	71.0	23.8	8129.9	3574.5
12	231L1012	5.0	97.0	94.0	51.5	70.8	27.7	8100.9	3266.6
239	231L1239	5.0	102.0	89.0	59.0	71.8	27.7	8084.8	1816.0
274	231L1274	5.0	102.0	88.0	63.4	73.9	30.1	8082.9	2198.5
163	231L1163	5.0	96.0	99.0	49.9	70.6	37.2	8073.9	2590.8
145	231L1145	5.0	103.0	84.0	66.2	73.7	26.8	8064.2	3094.0
92	231L1092	5.0	95.0	93.0	59.0	68.1	21.0	8053.2	2960.0
28	231L1028	5.0	96.0	92.0	49.3	67.6	21.9	8049.9	3435.3
53	231L1053	5.0	101.0	84.0	55.8	69.8	35.1	8047.3	3111.6
172	231L1172	5.0	97.0	87.0	50.9	70.2	30.7	8046.8	2742.2
247	231L1247	5.0	95.0	87.0	-	-	-	8036.3	2349.7
35	231L1035	5.0	105.0	85.0	59.2	71.6	25.5	8034.3	3683.8
232	231L1232	5.0	100.0	93.0	45.5	69.9	45.6	7995.0	2694.6
186	231L1186	5.0	100.0	90.0	57.5	70.2	23.8	7993.6	2858.2
97	231L1097	5.0	101.0	90.0	46.8	67.0	30.4	7993.2	3933.2
162	231L1162	5.0	98.0	92.0	50.2	71.8	35.5	7980.8	2248.6
133	231L1133	5.0	94.0	89.0	47.6	70.1	34.3	7977.3	2672.7
178	231L1178	5.0	102.0	93.0	58.2	70.2	28.8	7975.4	2308.9
154	231L1154	5.0	96.0	78.0	53.2	70.6	33.4	7968.4	2659.1
169	231L1169	5.0	104.0	100.0	56.0	68.0	41.3	7965.9	2923.8
134	231L1134	5.0	98.0	95.0	56.4	71.1	35.1	7964.9	3137.0
10	231L1010	5.0	98.0	98.0	49.6	68.7	21.4	7960.0	3231.4
183	231L1183	5.0	101.0	94.0	61.2	70.8	27.8	7949.7	2758.0
152	231L1152	3.0	97.0	85.0	52.5	70.5	31.5	7946.7	2428.5
191	231L1191	5.0	103.0	84.0	61.1	71.8	24.1	7944.9	2025.4
76	231L1076	5.0	96.0	90.0	58.7	70.5	32.2	7917.9	3362.0
17	231L1017	5.0	97.0	94.0	56.8	67.8	27.8	7908.8	3089.6
122	231L1122	5.0	95.0	91.0	35.0	66.5	46.7	7903.8	2373.6
50	231L1050	5.0	101.0	93.0	47.9	68.0	32.3	7898.0	2014.2
69	231L1069	5.0	95.0	82.0	43.5	67.9	26.9	7897.3	2598.8
222	231L1222	5.0	104.0	88.0	63.0	70.6	27.3	7893.6	3606.4

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
140	231L1140	5.0	103.0	88.0	63.0	70.4	24.0	7893.1	2421.5
297	RU1902207	5.0	101.0	91.0	53.3	70.0	32.5	7881.9	2989.7
62	231L1062	7.0	98.0	87.0	54.3	69.8	40.8	7877.9	2794.7
102	231L1102	5.0	101.0	85.0	52.0	68.9	23.9	7874.2	3481.8
124	231L1124	5.0	96.0	92.0	54.7	70.7	36.0	7872.2	3295.8
74	231L1074	3.0	97.0	87.0	46.0	66.3	20.6	7869.9	4360.5
160	231L1160	5.0	100.0	89.0	57.1	68.3	26.3	7851.2	3406.0
6	231L1006	5.0	104.0	94.0	48.5	67.3	25.7	7843.9	2515.7
138	231L1138	7.0	102.0	81.0	58.9	68.8	22.6	7829.9	3026.8
189	231L1189	5.0	95.0	92.0	50.3	69.0	24.0	7814.3	2720.8
34	231L1034	5.0	99.0	94.0	52.5	63.6	42.6	7787.1	2555.7
116	231L1116	5.0	94.0	85.0	54.1	68.5	40.1	7781.8	2587.9
47	231L1047	5.0	98.0	90.0	60.2	70.0	27.5	7774.8	3968.2
101	231L1101	5.0	101.0	82.0	56.6	70.2	33.3	7765.7	3311.8
233	231L1233	5.0	100.0	96.0	52.8	70.2	33.5	7754.2	2442.1
22	231L1022	5.0	102.0	89.0	48.0	66.8	26.5	7750.4	2783.7
157	231L1157	5.0	97.0	94.0	49.8	69.4	27.9	7745.7	3087.9
184	231L1184	5.0	97.0	95.0	56.2	70.0	23.5	7738.4	3240.2
164	231L1164	5.0	94.0	91.0	42.3	68.4	37.4	7727.3	2638.0
51	231L1051	5.0	98.0	85.0	40.1	66.7	43.8	7722.1	1822.5
105	231L1105	5.0	96.0	76.0	53.5	69.3	23.2	7721.1	2837.5
4	231L1004	5.0	98.0	110.0	51.0	66.3	32.1	7698.6	3851.7
190	231L1190	5.0	104.0	77.0	59.6	70.0	26.3	7685.2	2315.7
214	231L1214	5.0	101.0	94.0	41.8	70.2	37.9	7676.2	1774.4
113	231L1113	5.0	102.0	88.0	60.3	72.1	26.8	7676.1	4233.3
66	231L1066	5.0	95.0	85.0	40.0	59.5	25.4	7665.1	2498.5
141	231L1141	5.0	104.0	99.0	61.8	70.4	23.9	7658.9	2540.4
258	231L1258	5.0	98.0	97.0	51.5	70.1	32.6	7648.7	2795.1
212	231L1212	5.0	102.0	94.0	48.4	71.3	36.5	7614.1	2162.5
68	231L1068	3.0	95.0	83.0	49.3	68.7	20.9	7599.1	2881.9
1	231L1001	5.0	103.0	95.0	32.9	62.1	65.2	7576.5	3539.0
211	231L1211	5.0	96.0	85.0	26.4	65.3	30.7	7558.5	2660.8
236	231L1236	5.0	100.0	90.0	44.5	69.5	44.5	7549.2	2025.6
72	231L1072	5.0	104.0	93.0	62.6	72.4	28.4	7545.4	4271.8
78	231L1078	5.0	98.0	81.0	26.9	63.8	48.8	7538.1	2190.3
229	231L1229	5.0	102.0	96.0	53.2	71.2	36.0	7527.8	2170.0
41	231L1041	5.0	98.0	79.0	67.0	73.4	13.3	7526.7	3442.7
65	231L1065	3.0	96.0	85.0	52.5	70.7	31.7	7514.0	2631.5
220	231L1220	5.0	106.0	91.0	62.5	70.2	19.7	7512.3	3663.6
104	231L1104	5.0	96.0	75.0	55.8	70.2	23.6	7469.6	3808.6
217	231L1217	3.0	102.0	91.0	52.2	67.8	14.9	7456.5	3941.4
240	231L1240	5.0	97.0	82.0	52.1	69.8	30.6	7411.3	2556.2

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
137	231L1137	5.0	102.0	96.0	65.2	72.4	22.5	7399.5	2739.5
144	231L1144	5.0	101.0	84.0	65.8	73.0	24.5	7376.6	2724.9
210	231L1210	5.0	100.0	82.0	65.0	71.5	18.3	7367.7	3149.0
8	231L1008	5.0	100.0	98.0	54.7	68.9	16.5	7366.0	2941.2
33	231L1033	5.0	101.0	85.0	47.9	68.3	32.3	7358.7	3556.3
64	231L1064	5.0	96.0	89.0	54.8	71.2	20.9	7330.5	2671.8
67	231L1067	5.0	100.0	95.0	52.7	68.7	26.4	7325.1	3015.9
13	231L1013	5.0	98.0	93.0	57.0	70.9	24.0	7308.5	3701.0
224	231L1224	5.0	100.0	99.0	43.6	70.5	41.9	7304.0	1459.8
14	231L1014	7.0	95.0	85.0	60.0	68.4	31.3	7276.2	2238.9
129	231L1129	7.0	100.0	85.0	49.0	68.4	36.6	7264.5	2435.2
117	231L1117	5.0	97.0	82.0	57.6	70.9	36.8	7241.0	2223.1
73	231L1073	5.0	101.0	89.0	56.8	68.5	15.2	7217.4	3191.9
235	231L1235	7.0	99.0	96.0	47.0	68.3	29.9	7213.1	2720.3
248	231L1248	5.0	98.0	94.0	51.8	69.0	26.4	7208.8	2412.4
36	231L1036	3.0	99.0	82.0	57.0	70.7	22.9	7200.3	3337.3
198	231L1198	5.0	101.0	80.0	62.7	70.9	19.8	7191.9	2717.7
203	231L1203	5.0	97.0	92.0	51.5	69.0	16.9	7187.9	2942.7
165	231L1165	5.0	96.0	105.0	42.6	67.9	38.3	7153.3	2038.9
221	231L1221	5.0	97.0	91.0	58.1	70.2	27.4	7147.9	2348.9
150	231L1150	5.0	103.0	81.0	46.3	59.1	22.7	7137.2	2779.6
259	231L1259	5.0	96.0	87.0	39.2	67.3	29.0	7111.8	2996.3
300	Mermentau	3.0	96.0	91.0	59.7	70.9	36.8	7100.1	2826.5
234	231L1234	5.0	103.0	91.0	58.4	70.7	28.4	7068.8	3649.4
46	231L1046	5.0	97.0	86.0	60.7	72.0	35.3	7060.3	1718.1
270	231L1270	3.0	99.0	90.0	44.1	67.3	15.0	7034.5	3312.8
272	231L1272	7.0	102.0	86.0	63.8	72.7	19.0	7024.5	3242.9
288	231L1288	5.0	98.0	84.0	59.3	69.8	38.6	7014.0	2193.7
44	231L1044	7.0	103.0	79.0	58.1	71.0	24.9	6998.6	3130.4
238	231L1238	7.0	96.0	100.0	33.1	66.0	39.1	6978.2	2521.7
143	231L1143	5.0	97.0	91.0	64.3	72.8	17.9	6975.4	3036.4
108	231L1108	5.0	102.0	93.0	56.5	71.4	37.3	6951.5	2619.3
38	231L1038	7.0	103.0	88.0	48.7	70.6	35.3	6942.4	2198.4
170	231L1170	5.0	102.0	91.0	64.1	72.5	28.8	6892.8	3536.4
286	231L1286	5.0	98.0	74.0	50.7	69.1	15.9	6845.3	2769.4
127	231L1127	5.0	104.0	94.0	58.2	69.6	36.7	6836.0	2057.1
24	231L1024	5.0	105.0	93.0	65.5	72.7	26.4	6830.0	2820.7
231	231L1231	5.0	100.0	90.0	49.9	69.4	33.1	6829.0	2112.8
37	231L1037	5.0	103.0	92.0	58.6	70.7	33.5	6810.6	2465.9
75	231L1075	5.0	98.0	91.0	49.6	68.9	33.7	6796.1	3163.2
131	231L1131	5.0	104.0	85.0	54.6	70.1	40.2	6687.9	2177.4
9	231L1009	5.0	99.0	92.0	61.8	70.0	26.8	6606.7	2578.4

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
23	231L1023	5.0	99.0	91.0	60.8	70.6	37.7	6501.8	2589.9
197	231L1197	5.0	102.0	87.0	55.1	71.4	20.1	6480.1	3194.8
269	231L1269	5.0	97.0	90.0	46.5	67.7	32.8	6473.2	2944.4
7	231L1007	5.0	101.0	89.0	54.1	68.5	20.9	6438.1	2678.8
230	231L1230	5.0	101.0	91.0	55.8	70.1	36.3	6012.0	2620.3
15	231L1015	5.0	103.0	78.0	59.8	67.0	37.1	5764.3	3425.3
142	231L1142	5.0	103.0	88.0	62.4	70.1	23.7	5213.3	2475.2

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

Table 4. Grain and milling yields and agronomic performance of entries in the 2023 Conventional Preliminary Yield Long-Grain trial – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
82	231L1082	5.0	69.0	103.0	61.2	69.8	16.6	9831.2	4074.2
208	231L1208	5.0	74.0	99.0	62.1	69.6	26.7	9791.4	3378.4
201	231L1201	5.0	72.0	97.0	62.6	69.2	20.3	9756.8	3574.9
202	231L1202	3.0	71.0	107.0	61.1	68.9	21.5	9719.4	2892.5
100	231L1100	5.0	78.0	98.0	57.3	69.2	27.9	9602.6	2695.1
85	231L1085	5.0	72.0	105.0	61.2	70.5	22.5	9593.3	2878.6
93	231L1093	5.0	74.0	101.0	62.9	70.9	19.2	9591.1	3498.4
277	231L1277	5.0	76.0	104.0	66.7	73.4	18.7	9522.0	2497.3
48	231L1048	3.0	71.0	98.0	59.0	67.9	27.2	9482.1	2721.6
252	231L1252	5.0	75.0	100.0	64.9	72.1	28.3	9438.0	2731.2
256	231L1256	5.0	74.0	100.0	60.0	70.3	24.1	9364.7	4172.8
81	231L1081	3.0	71.0	101.0	59.9	70.2	19.2	9338.4	3712.4
205	231L1205	3.0	72.0	104.0	63.1	71.2	25.2	9331.1	3059.0
103	231L1103	3.0	72.0	98.0	61.6	71.6	26.9	9309.2	2409.4
84	231L1084	5.0	73.0	102.0	63.4	71.9	25.1	9305.7	3004.2
91	231L1091	3.0	72.0	99.0	56.3	69.2	22.6	9302.5	1921.5
49	231L1049	3.0	71.0	102.0	64.0	71.1	23.8	9300.6	3834.4
61	231L1061	5.0	76.0	106.0	62.9	71.0	22.7	9244.8	2695.3
116	231L1116	5.0	71.0	95.0	58.7	68.6	29.5	9209.9	2807.3
14	231L1014	5.0	77.0	96.0	62.0	68.9	30.3	9189.7	2377.4
55	231L1055	3.0	73.0	98.0	56.9	69.0	26.6	9177.4	2477.4
209	231L1209	5.0	73.0	103.0	63.0	70.2	30.4	9141.8	2932.0
121	231L1121	5.0	71.0	100.0	63.8	70.5	28.6	9126.6	3790.9
191	231L1191	5.0	77.0	97.0	62.4	69.3	16.7	9078.2	3051.7
292	231L1292	3.0	74.0	100.0	61.6	70.1	30.7	9058.5	3167.8
115	231L1115	3.0	72.0	99.0	60.5	69.8	22.5	9052.1	4251.6
261	231L1261	5.0	74.0	104.0	57.6	69.1	23.9	9026.1	3072.7
126	231L1126	5.0	74.0	107.0	58.8	69.6	26.8	9024.4	3064.8
147	231L1147	5.0	74.0	100.0	59.8	69.7	19.5	9005.7	3092.8
228	231L1228	3.0	76.0	104.0	59.4	70.3	20.5	9005.6	3107.3
204	231L1204	5.0	72.0	101.0	62.2	70.8	24.4	8996.4	3773.8
160	231L1160	5.0	74.0	101.0	62.3	70.2	20.2	8993.2	4104.3
94	231L1094	5.0	72.0	100.0	63.0	71.0	24.3	8983.5	2733.2
89	231L1089	5.0	71.0	103.0	61.6	70.3	15.5	8971.2	3802.1
117	231L1117	3.0	72.0	96.0	62.1	69.4	25.8	8954.2	3638.0
27	231L1027	5.0	70.0	105.0	59.8	69.0	21.8	8941.4	3096.0
175	231L1175	5.0	74.0	105.0	58.0	68.3	20.3	8919.4	3342.7
176	231L1176	5.0	74.0	105.0	57.5	68.3	19.4	8918.4	3029.3
275	231L1275	5.0	71.0	94.0	60.7	71.0	17.1	8917.2	2702.6
249	231L1249	5.0	71.0	101.0	62.1	70.5	23.9	8913.9	2946.6
102	231L1102	5.0	76.0	90.0	64.4	72.7	22.4	8898.2	2201.2

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
241	231L1241	5.0	74.0	102.0	59.5	69.5	21.7	8862.5	3681.3
294	Avant	3.0	70.0	93.0	62.6	70.9	21.5	8862.4	3631.9
169	231L1169	5.0	77.0	103.0	63.0	70.8	31.5	8837.4	2845.8
207	231L1207	3.0	71.0	105.0	59.8	68.9	19.2	8828.7	4539.8
172	231L1172	5.0	76.0	103.0	61.7	71.1	21.8	8781.7	3105.9
267	231L1267	5.0	76.0	107.0	54.8	68.5	27.0	8751.5	3556.0
259	231L1259	5.0	75.0	102.0	56.4	68.8	21.6	8741.5	3563.9
243	231L1243	5.0	74.0	102.0	60.3	70.3	23.8	8738.5	2956.8
106	231L1106	5.0	75.0	94.0	64.4	72.6	22.9	8732.9	2349.2
295	CLL19	5.0	71.0	97.0	60.6	69.7	23.3	8698.0	2830.4
257	231L1257	3.0	70.0	94.0	62.7	71.5	27.3	8683.7	2762.4
188	231L1188	3.0	75.0	91.0	62.8	69.5	19.5	8671.4	3215.1
86	231L1086	3.0	71.0	98.0	60.4	69.7	15.6	8657.3	3481.8
216	231L1216	5.0	74.0	101.0	60.6	69.9	19.9	8654.9	3146.1
39	231L1039	3.0	74.0	107.0	59.9	70.4	30.7	8648.7	3307.9
247	231L1247	5.0	73.0	104.0	59.1	69.4	21.4	8631.6	3139.2
167	231L1167	5.0	72.0	95.0	63.5	71.5	18.4	8626.2	2630.1
101	231L1101	5.0	74.0	95.0	62.1	70.8	26.8	8621.0	3326.3
30	231L1030	5.0	69.0	96.0	56.9	69.5	27.0	8617.4	3324.1
11	231L1011	5.0	77.0	103.0	63.1	70.1	23.0	8615.8	3464.9
50	231L1050	5.0	76.0	95.0	58.9	68.8	27.1	8614.8	3284.4
46	231L1046	3.0	71.0	104.0	61.7	70.7	29.0	8604.4	2616.1
118	231L1118	5.0	74.0	94.0	62.7	70.2	22.7	8599.0	2818.0
145	231L1145	3.0	75.0	97.0	64.8	71.1	32.0	8599.0	2718.9
83	231L1083	3.0	71.0	102.0	62.6	71.6	19.4	8583.2	3875.2
244	231L1244	3.0	72.0	92.0	61.8	70.2	24.8	8563.7	3444.9
136	231L1136	5.0	73.0	96.0	59.9	71.2	28.2	8550.2	2995.2
279	231L1279	5.0	72.0	101.0	57.1	68.6	29.6	8546.6	3416.6
185	231L1185	5.0	74.0	94.0	62.4	70.4	16.6	8542.2	2920.6
59	231L1059	5.0	71.0	81.0	63.3	71.8	22.8	8526.6	3408.6
130	231L1130	5.0	74.0	101.0	59.3	69.6	17.7	8523.4	3107.8
206	231L1206	5.0	72.0	99.0	62.4	69.0	15.6	8511.6	3172.0
242	231L1242	5.0	73.0	100.0	58.3	71.2	28.3	8506.7	4667.5
171	231L1171	3.0	78.0	105.0	61.8	70.1	26.4	8499.4	3275.2
109	231L1109	3.0	70.0	98.0	60.3	71.6	24.1	8494.3	3459.3
248	231L1248	3.0	75.0	111.0	59.6	69.1	23.6	8483.9	2974.2
232	231L1232	5.0	76.0	100.0	52.8	67.9	27.5	8475.4	2937.8
163	231L1163	5.0	74.0	104.0	58.8	69.2	22.5	8466.8	3563.3
283	231L1283	5.0	70.0	78.0	61.4	69.7	22.4	8466.0	3242.5
97	231L1097	5.0	71.0	99.0	48.8	66.6	25.6	8455.0	3483.7
196	231L1196	5.0	77.0	95.0	62.9	70.9	23.1	8441.2	3270.1
282	231L1282	3.0	69.0	94.0	58.1	70.6	21.5	8405.3	3395.5

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
120	231L1120	3.0	70.0	100.0	57.2	68.0	29.7	8403.8	3064.7
197	231L1197	5.0	76.0	97.0	62.2	69.3	13.8	8400.3	4458.6
173	231L1173	5.0	72.0	101.0	56.2	68.7	19.9	8391.3	2983.5
251	231L1251	5.0	74.0	90.0	62.4	70.2	18.7	8383.7	3724.4
154	231L1154	5.0	71.0	96.0	60.7	72.1	25.9	8343.0	3356.3
210	231L1210	3.0	73.0	101.0	63.2	69.8	15.6	8315.5	3710.4
229	231L1229	5.0	77.0	100.0	58.0	70.2	21.8	8313.3	2779.7
245	231L1245	5.0	73.0	87.0	54.0	68.6	20.4	8306.1	2759.1
99	231L1099	5.0	72.0	103.0	51.5	69.6	22.9	8301.0	2527.3
300	Mermentau	5.0	75.0	101.0	63.1	71.0	30.0	8277.8	2701.7
288	231L1288	3.0	74.0	95.0	59.3	69.3	26.2	8272.6	2947.9
153	231L1153	5.0	74.0	100.0	61.1	69.8	18.6	8264.6	3429.7
149	231L1149	5.0	74.0	94.0	56.1	68.1	26.2	8263.8	3227.9
271	231L1271	5.0	73.0	104.0	53.1	68.6	23.8	8251.0	3297.5
227	231L1227	3.0	76.0	95.0	57.2	68.8	25.7	8232.9	2712.8
165	231L1165	3.0	71.0	118.0	51.8	68.9	30.5	8231.5	2776.6
107	231L1107	3.0	75.0	101.0	62.6	70.4	24.7	8221.7	3319.9
6	231L1006	5.0	74.0	100.0	54.0	66.0	23.5	8213.5	3187.9
190	231L1190	5.0	79.0	90.0	64.9	72.1	21.1	8213.5	3141.1
20	231L1020	5.0	77.0	115.0	52.9	66.8	21.5	8207.5	2736.2
132	231L1132	7.0	75.0	104.0	61.8	69.4	24.9	8205.1	2997.7
179	231L1179	3.0	74.0	96.0	59.6	69.0	15.9	8199.1	3340.1
140	231L1140	5.0	77.0	102.0	65.3	71.4	22.4	8189.9	3374.3
200	231L1200	5.0	71.0	94.0	62.1	70.7	17.3	8189.0	2541.0
269	231L1269	7.0	73.0	99.0	54.9	67.8	21.6	8187.8	3689.7
122	231L1122	5.0	71.0	100.0	50.7	69.0	39.4	8176.1	2978.1
253	231L1253	5.0	74.0	94.0	62.8	69.8	16.1	8170.9	3622.0
47	231L1047	3.0	75.0	107.0	63.6	70.0	23.7	8158.1	3674.5
281	231L1281	3.0	71.0	99.0	58.3	69.2	24.0	8134.8	3450.3
177	231L1177	3.0	71.0	99.0	57.8	70.6	24.4	8128.6	3177.2
88	231L1088	3.0	70.0	99.0	61.2	70.5	14.6	8112.1	3372.0
187	231L1187	5.0	73.0	85.0	62.9	71.1	21.3	8108.0	2989.2
272	231L1272	7.0	74.0	101.0	61.2	69.6	14.5	8107.9	2650.5
186	231L1186	5.0	74.0	99.0	60.1	68.9	19.3	8103.9	3008.1
18	231L1018	5.0	75.0	100.0	60.9	69.0	17.2	8103.8	3034.9
239	231L1239	5.0	74.0	92.0	62.3	70.0	18.3	8101.5	3248.3
95	231L1095	3.0	71.0	110.0	49.6	68.2	33.4	8084.0	2444.5
158	231L1158	5.0	74.0	99.0	58.3	68.6	22.6	8082.9	2510.1
45	231L1045	5.0	74.0	95.0	60.9	71.3	29.2	8082.5	2608.3
285	231L1285	3.0	72.0	97.0	55.6	67.2	21.7	8080.3	4222.7
258	231L1258	5.0	76.0	94.0	60.2	69.4	21.6	8079.3	2840.8
56	231L1056	3.0	74.0	115.0	56.1	67.6	26.2	8067.9	2852.7

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
246	231L1246	5.0	73.0	92.0	61.4	70.5	20.4	8067.0	3388.6
162	231L1162	5.0	73.0	100.0	56.4	68.3	18.0	8066.8	3320.9
181	231L1181	5.0	74.0	96.0	63.7	70.9	19.9	8046.6	1855.9
51	231L1051	3.0	71.0	94.0	52.1	68.4	28.0	8035.0	2616.0
22	231L1022	5.0	74.0	99.0	62.8	71.0	25.3	8002.7	4018.6
146	231L1146	7.0	72.0	88.0	61.9	70.5	19.9	7997.5	2720.7
223	231L1223	5.0	75.0	104.0	51.7	69.0	26.8	7996.8	3337.1
131	231L1131	5.0	75.0	106.0	58.8	70.3	28.1	7993.8	2755.6
211	231L1211	3.0	74.0	104.0	48.5	67.8	21.6	7990.5	3001.5
255	231L1255	7.0	74.0	90.0	62.6	70.5	18.5	7974.3	4169.2
155	231L1155	5.0	72.0	99.0	56.7	68.4	20.9	7970.2	3187.2
234	231L1234	3.0	77.0	108.0	57.3	67.9	22.7	7962.4	3353.9
114	231L1114	5.0	72.0	100.0	62.7	71.2	17.7	7962.1	2774.8
260	231L1260	3.0	71.0	99.0	58.0	68.1	20.2	7961.0	3081.4
52	231L1052	5.0	76.0	91.0	58.9	68.1	18.2	7957.7	3398.5
274	231L1274	5.0	76.0	106.0	62.6	70.5	18.4	7945.4	2998.0
25	231L1025	3.0	69.0	109.0	58.7	69.0	20.5	7938.4	3897.1
92	231L1092	5.0	71.0	111.0	62.8	72.3	23.1	7936.4	2401.7
238	231L1238	3.0	73.0	100.0	52.2	68.3	22.3	7901.2	3097.5
4	231L1004	3.0	74.0	112.0	58.0	66.0	31.0	7898.4	4104.5
42	231L1042	5.0	73.0	99.0	60.6	69.9	21.9	7897.9	3198.6
60	231L1060	5.0	71.0	105.0	59.3	69.3	23.9	7894.2	3079.5
79	231L1079	5.0	76.0	99.0	48.4	64.4	25.5	7893.6	3117.8
152	231L1152	5.0	75.0	95.0	62.8	70.9	29.6	7893.6	2941.1
290	231L1290	3.0	73.0	104.0	61.3	70.9	30.5	7893.3	2875.6
141	231L1141	5.0	76.0	109.0	62.3	70.1	18.9	7892.0	2896.2
195	231L1195	5.0	76.0	103.0	62.3	69.7	17.1	7888.6	3061.7
87	231L1087	5.0	70.0	95.0	61.0	70.0	11.6	7854.4	3111.8
161	231L1161	3.0	73.0	100.0	54.1	68.8	26.0	7853.9	3329.8
170	231L1170	5.0	76.0	105.0	61.3	68.7	15.7	7853.8	3913.7
54	231L1054	5.0	73.0	104.0	57.4	68.1	27.4	7850.8	3176.5
214	231L1214	5.0	74.0	101.0	50.6	68.4	22.4	7848.1	2664.2
110	231L1110	5.0	73.0	101.0	62.7	72.9	25.2	7828.2	2869.8
166	231L1166	5.0	76.0	99.0	59.7	70.3	22.0	7819.9	3725.4
98	231L1098	5.0	71.0	102.0	59.5	69.1	22.3	7812.8	3410.3
183	231L1183	5.0	74.0	101.0	62.8	70.0	19.5	7810.6	3371.5
293	231L1293	3.0	74.0	100.0	59.9	69.7	30.0	7809.9	2963.0
148	231L1148	5.0	72.0	94.0	60.9	69.5	18.8	7809.1	3414.9
96	231L1096	5.0	74.0	107.0	48.4	67.9	21.1	7796.4	2339.4
189	231L1189	5.0	71.0	97.0	55.9	69.7	21.2	7756.9	2166.2
221	231L1221	7.0	75.0	100.0	59.9	69.3	16.0	7750.8	2441.0
104	231L1104	5.0	74.0	97.0	66.0	73.6	22.7	7750.8	3151.4

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
26	231L1026	5.0	69.0	88.0	63.1	70.9	19.7	7723.2	2863.0
67	231L1067	5.0	74.0	94.0	57.9	68.8	16.6	7716.5	3193.2
192	231L1192	5.0	77.0	97.0	60.1	68.2	16.5	7705.9	2551.0
57	231L1057	5.0	72.0	95.0	56.5	68.6	19.3	7683.2	2857.5
250	231L1250	3.0	74.0	92.0	56.2	69.9	21.8	7674.6	2727.4
134	231L1134	3.0	74.0	105.0	59.1	67.3	18.7	7672.7	3269.1
151	231L1151	5.0	76.0	86.0	64.7	71.1	14.1	7668.5	3074.7
194	231L1194	5.0	74.0	99.0	59.4	70.2	21.1	7657.2	2018.3
254	231L1254	5.0	73.0	95.0	64.0	70.7	21.1	7657.0	3504.9
156	231L1156	5.0	75.0	99.0	55.7	69.6	-	7636.8	3581.7
222	231L1222	5.0	81.0	101.0	63.3	69.9	29.8	7636.7	3102.2
128	231L1128	5.0	77.0	105.0	60.3	70.1	24.2	7632.5	2342.8
127	231L1127	5.0	77.0	103.0	56.8	68.4	27.7	7627.9	3113.7
119	231L1119	5.0	71.0	92.0	64.2	72.2	33.3	7626.1	2287.4
138	231L1138	5.0	78.0	102.0	60.1	68.0	18.0	7610.8	2671.4
236	231L1236	3.0	73.0	100.0	54.5	68.5	22.4	7609.2	3173.3
123	231L1123	5.0	75.0	106.0	55.9	68.8	27.8	7603.4	3220.5
235	231L1235	5.0	75.0	96.0	58.4	69.7	22.0	7598.3	3787.8
193	231L1193	5.0	72.0	91.0	62.5	70.7	23.1	7598.2	2654.3
164	231L1164	5.0	71.0	105.0	46.9	67.1	31.9	7577.1	2879.5
12	231L1012	5.0	74.0	90.0	51.8	68.4	17.8	7559.5	3311.3
299	DG263L	3.0	71.0	101.0	59.3	67.7	27.8	7551.9	763.2
230	231L1230	5.0	76.0	105.0	56.4	68.8	22.9	7551.5	3178.6
3	231L1003	5.0	71.0	111.0	41.8	64.7	15.3	7534.6	3484.8
231	231L1231	5.0	74.0	90.0	60.8	70.7	22.6	7529.6	3021.8
135	231L1135	3.0	76.0	99.0	62.6	69.8	20.8	7508.8	2439.6
29	231L1029	3.0	68.0	98.0	59.1	68.9	25.9	7476.9	3936.4
168	231L1168	5.0	76.0	96.0	56.8	68.7	25.7	7453.5	3196.1
174	231L1174	5.0	77.0	100.0	60.7	71.4	22.9	7453.2	2678.6
150	231L1150	5.0	78.0	93.0	66.0	72.0	20.6	7446.1	3535.7
280	231L1280	5.0	75.0	99.0	64.2	71.8	15.5	7441.0	1600.6
237	231L1237	5.0	75.0	110.0	54.7	68.9	20.6	7438.4	3126.1
10	231L1010	5.0	71.0	107.0	56.1	66.7	19.7	7435.6	3799.1
233	231L1233	5.0	71.0	95.0	50.1	68.2	19.8	7427.2	3100.3
180	231L1180	5.0	75.0	94.0	60.5	69.5	17.1	7420.3	2976.3
125	231L1125	5.0	76.0	102.0	56.6	69.2	19.4	7416.1	2530.7
182	231L1182	5.0	74.0	90.0	62.4	70.3	15.8	7401.1	3159.3
143	231L1143	5.0	74.0	96.0	64.9	71.5	12.3	7397.9	2778.7
5	231L1005	5.0	75.0	98.0	49.4	64.2	19.9	7385.3	3609.6
298	AddiJo	3.0	82.0	100.0	48.6	66.4	25.2	7336.1	3184.6
273	231L1273	5.0	75.0	99.0	61.8	70.4	14.7	7324.8	2193.5
219	231L1219	5.0	80.0	96.0	60.3	68.9	16.4	7316.1	2807.6

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
124	231L1124	5.0	73.0	106.0	56.1	67.3	23.5	7292.0	3536.3
224	231L1224	5.0	75.0	106.0	49.6	68.4	22.4	7288.9	2485.1
297	RU1902207	5.0	77.0	100.0	61.2	70.8	26.7	7285.8	3005.1
71	231L1071	5.0	73.0	100.0	61.2	72.8	29.5	7281.3	2752.0
77	231L1077	7.0	74.0	100.0	50.5	67.0	24.2	7273.4	3410.9
184	231L1184	5.0	77.0	103.0	58.9	68.2	19.3	7266.8	3625.8
19	231L1019	5.0	75.0	94.0	61.3	69.7	17.2	7264.5	2158.0
263	231L1263	5.0	83.0	108.0	51.4	66.0	24.2	7247.3	3917.9
53	231L1053	5.0	76.0	98.0	60.4	68.9	25.5	7239.8	3202.7
240	231L1240	5.0	75.0	96.0	57.8	69.3	20.5	7238.4	4008.8
268	231L1268	3.0	75.0	100.0	54.6	67.0	16.9	7236.2	3312.0
291	231L1291	5.0	75.0	92.0	61.0	70.0	26.3	7223.9	3071.6
159	231L1159	7.0	75.0	99.0	60.0	70.5	25.2	7220.8	2611.2
213	231L1213	5.0	74.0	105.0	48.8	68.8	21.4	7220.3	3107.8
276	231L1276	5.0	73.0	100.0	63.0	71.6	19.0	7216.1	2456.2
23	231L1023	5.0	78.0	98.0	63.9	70.4	29.8	7215.9	3014.4
133	231L1133	5.0	74.0	101.0	57.3	68.1	24.8	7198.1	3294.6
64	231L1064	5.0	70.0	92.0	58.7	67.9	9.2	7186.3	3883.3
105	231L1105	5.0	71.0	94.0	61.0	70.3	16.0	7185.9	2975.3
31	231L1031	5.0	69.0	105.0	54.7	67.1	28.4	7175.8	3274.7
218	231L1218	5.0	74.0	99.0	59.2	70.2	29.7	7170.9	3180.1
36	231L1036	5.0	79.0	96.0	59.7	70.4	20.5	7113.7	3768.4
178	231L1178	5.0	75.0	106.0	56.1	68.1	20.8	7112.0	3095.1
265	231L1265	5.0	74.0	108.0	55.1	67.3	28.2	7107.4	2741.5
40	231L1040	3.0	76.0	90.0	55.0	68.7	19.5	7104.8	3448.3
72	231L1072	5.0	76.0	97.0	55.4	68.4	20.3	7103.2	3649.4
139	231L1139	5.0	74.0	99.0	58.6	68.9	17.1	7083.3	2799.3
112	231L1112	5.0	81.0	100.0	65.0	71.9	17.7	7077.2	2551.8
225	231L1225	5.0	74.0	100.0	51.5	67.9	24.7	7075.0	3016.9
212	231L1212	5.0	77.0	104.0	53.1	69.4	23.9	7040.5	2996.6
21	231L1021	5.0	81.0	89.0	61.2	68.9	32.2	7028.9	3055.3
137	231L1137	7.0	76.0	100.0	61.6	69.9	18.5	7025.8	1791.5
270	231L1270	5.0	75.0	94.0	58.7	68.9	17.0	7022.0	3388.1
28	231L1028	5.0	71.0	102.0	57.1	68.0	24.5	7020.9	2711.1
70	231L1070	5.0	81.0	106.0	52.9	67.4	39.6	7018.3	3110.4
37	231L1037	5.0	76.0	86.0	61.8	70.2	19.2	7009.6	3352.2
111	231L1111	5.0	74.0	94.0	64.0	71.6	18.6	7000.0	2885.1
62	231L1062	5.0	73.0	92.0	58.5	69.2	21.2	6984.4	2965.5
203	231L1203	5.0	74.0	100.0	60.6	69.4	13.2	6972.8	3244.8
289	231L1289	3.0	76.0	99.0	59.6	68.0	24.6	6969.7	3180.1
73	231L1073	5.0	77.0	97.0	57.0	68.1	14.3	6962.3	3192.6
32	231L1032	3.0	71.0	95.0	55.1	67.7	17.5	6961.9	2680.7

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
284	231L1284	3.0	72.0	85.0	64.1	70.8	22.0	6954.3	3773.2
80	231L1080	7.0	71.0	93.0	49.1	65.8	24.1	6953.1	3979.2
108	231L1108	5.0	73.0	100.0	57.9	69.6	28.2	6950.4	3006.9
34	231L1034	5.0	76.0	91.0	60.1	70.1	21.1	6924.4	3783.1
90	231L1090	3.0	70.0	99.0	58.9	68.7	15.2	6923.5	3779.0
144	231L1144	5.0	76.0	91.0	64.0	70.7	15.3	6904.6	2553.3
74	231L1074	5.0	75.0	100.0	52.6	66.2	20.4	6890.4	3409.0
35	231L1035	3.0	80.0	102.0	60.2	69.5	25.0	6856.3	3170.0
264	231L1264	5.0	75.0	103.0	54.5	65.8	19.0	6850.6	3008.1
266	231L1266	5.0	75.0	103.0	61.2	69.3	32.9	6842.0	3221.1
296	Cheniere	5.0	77.0	94.0	65.4	72.0	12.8	6779.0	2560.7
69	231L1069	5.0	71.0	105.0	52.5	68.8	16.4	6773.1	2842.3
157	231L1157	3.0	74.0	98.0	58.6	68.8	20.1	6752.5	2363.3
226	231L1226	5.0	74.0	101.0	39.4	65.7	27.2	6749.5	2211.6
38	231L1038	5.0	75.0	92.0	60.5	70.6	20.7	6722.3	3324.1
278	231L1278	5.0	70.0	92.0	61.8	70.1	17.8	6719.1	2936.0
129	231L1129	5.0	73.0	99.0	58.1	68.3	22.7	6706.1	3638.0
1	231L1001	5.0	77.0	95.0	30.9	61.5	67.5	6646.2	2566.0
63	231L1063	5.0	71.0	94.0	59.1	70.3	15.5	6604.3	3500.0
199	231L1199	5.0	73.0	104.0	61.4	68.4	11.3	6590.8	3871.3
287	231L1287	3.0	70.0	98.0	41.7	65.1	28.3	6585.1	2465.8
9	231L1009	5.0	78.0	96.0	62.0	69.5	20.4	6583.7	3697.2
58	231L1058	5.0	74.0	97.0	55.4	67.7	22.6	6574.4	2267.3
75	231L1075	5.0	77.0	102.0	59.8	70.4	29.5	6568.7	2720.6
217	231L1217	5.0	78.0	95.0	60.3	67.8	12.0	6526.1	2913.8
215	231L1215	5.0	76.0	103.0	44.0	67.0	24.2	6518.1	2749.2
220	231L1220	5.0	79.0	94.0	60.1	68.8	21.7	6497.7	3568.0
43	231L1043	7.0	76.0	94.0	56.0	70.0	22.2	6438.7	3656.2
113	231L1113	7.0	79.0	100.0	65.1	73.8	19.6	6412.6	2081.5
142	231L1142	5.0	78.0	85.0	60.9	68.8	18.5	6400.7	1960.9
198	231L1198	5.0	72.0	90.0	62.0	68.9	14.8	6392.4	3978.8
15	231L1015	5.0	76.0	91.0	59.4	68.2	24.4	6374.6	2463.5
41	231L1041	3.0	71.0	97.0	64.6	71.6	14.9	6340.5	3772.5
13	231L1013	5.0	76.0	102.0	54.2	66.0	15.6	6190.1	3713.6
66	231L1066	5.0	70.0	88.0	59.9	70.8	15.4	6084.8	3433.7
68	231L1068	5.0	74.0	96.0	54.0	67.8	13.6	6080.0	2544.7
2	231L1002	5.0	73.0	110.0	37.9	61.7	29.7	6021.9	3322.1
8	231L1008	5.0	74.0	113.0	56.1	66.5	12.8	6017.9	3100.4
7	231L1007	5.0	74.0	106.0	54.7	65.5	11.8	5928.4	2363.3
76	231L1076	5.0	74.0	100.0	56.7	67.3	25.1	5907.1	2909.3
78	231L1078	5.0	74.0	90.0	44.4	66.5	29.3	5868.8	2618.5
262	231L1262	3.0	83.0	100.0	54.1	66.0	24.2	5813.5	3434.6

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
17	231L1017	5.0	72.0	94.0	58.6	66.1	26.3	5679.3	3976.9
24	231L1024	5.0	76.0	97.0	62.2	69.2	19.9	5642.9	2979.8
16	231L1016	5.0	71.0	82.0	50.9	67.1	25.3	5601.6	2649.3
286	231L1286	5.0	71.0	86.0	61.1	68.3	9.1	5570.5	4590.0
65	231L1065	5.0	70.0	102.0	57.4	69.3	19.0	5377.0	3071.2
33	231L1033	5.0	76.0	90.0	52.2	66.2	20.0	5044.9	2721.2
44	231L1044	5.0	74.0	87.0	58.9	70.2	13.3	4587.4	3163.2

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

Table 5. Grain and milling yields and agronomic performance of entries in the 2023 Conventional Preliminary Yield Medium-Grain trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
10	231M1010	3.0	96.0	95.0	53.8	67.3	7.1	9871.1	2743.0
118	231M1118	3.0	98.0	89.0	60.9	66.5	20.6	9752.6	1844.1
74	231M1074	3.0	97.0	94.0	59.0	66.6	11.8	9664.7	2843.9
86	231M1086	3.0	98.0	92.0	49.9	67.4	4.6	9581.0	2120.2
77	231M1077	3.0	97.0	90.0	55.8	68.4	8.7	9535.2	2734.9
105	231M1105	3.0	94.0	90.0	48.0	64.8	19.0	9440.7	3111.6
6	231M1006	3.0	95.0	99.0	50.6	67.9	10.9	9375.8	2989.9
124	Jupiter	3.0	101.0	86.0	57.7	65.9	15.4	9284.2	2000.4
56	231M1056	3.0	99.0	94.0	58.2	68.8	9.2	9263.1	3129.8
75	231M1075	3.0	97.0	94.0	51.6	63.7	17.6	9179.9	1784.1
83	231M1083	1.0	94.0	96.0	39.5	67.2	8.6	9104.0	2753.7
96	231M1096	3.0	99.0	89.0	48.2	66.3	17.6	9022.6	2314.9
70	231M1070	3.0	95.0	86.0	48.2	67.5	12.1	9012.2	2255.8
60	231M1060	3.0	99.0	87.0	50.6	68.3	9.0	8998.8	2488.0
125	Taurus	3.0	96.0	81.0	53.2	68.5	6.9	8993.0	2513.6
76	231M1076	3.0	99.0	96.0	56.3	68.1	5.9	8971.0	3837.8
57	231M1057	3.0	101.0	94.0	54.7	68.7	7.4	8964.0	3418.1
58	231M1058	3.0	98.0	93.0	55.0	70.0	2.7	8950.4	2880.3
65	231M1065	3.0	99.0	88.0	54.8	68.2	10.8	8937.7	2595.1
33	231M1033	3.0	97.0	97.0	49.5	69.1	6.6	8931.0	3701.3
110	231M1110	3.0	91.0	92.0	63.7	68.5	13.6	8903.1	2575.3
11	231M1011	3.0	99.0	87.0	59.6	67.8	12.3	8855.4	2773.3
68	231M1068	3.0	96.0	91.0	59.1	68.8	9.5	8840.2	3033.9
66	231M1066	3.0	96.0	84.0	48.5	69.6	7.5	8837.5	1975.8
15	231M1015	3.0	96.0	78.0	47.7	68.1	4.9	8834.4	2485.9
67	231M1067	1.0	98.0	94.0	49.7	63.0	8.6	8831.8	2368.3
24	231M1024	3.0	98.0	87.0	43.0	66.8	15.6	8807.6	1380.4
102	231M1102	3.0	96.0	88.0	46.2	66.2	7.7	8802.3	3181.6
53	231M1053	3.0	99.0	89.0	39.8	68.6	9.3	8751.8	2599.8
51	231M1051	3.0	97.0	99.0	42.4	68.5	6.4	8748.3	3211.4
108	231M1108	3.0	97.0	95.0	57.3	67.3	17.3	8691.6	2500.5
46	231M1046	1.0	101.0	97.0	45.5	67.9	5.1	8665.9	3036.9
103	231M1103	3.0	95.0	94.0	52.8	67.5	12.7	8651.0	3349.0
36	231M1036	1.0	95.0	96.0	34.6	66.2	9.9	8646.9	3545.4
59	231M1059	3.0	98.0	94.0	39.7	66.4	13.3	8639.2	3020.8
62	231M1062	3.0	98.0	92.0	59.9	67.6	18.5	8633.2	2955.8
121	231M1121	3.0	99.0	83.0	59.7	66.4	12.6	8625.2	2872.2
107	231M1107	3.0	95.0	93.0	48.0	66.6	11.5	8570.8	3768.4
39	231M1039	3.0	97.0	83.0	42.0	66.6	11.6	8562.6	1768.1
50	231M1050	3.0	99.0	91.0	62.3	66.2	19.6	8553.7	3020.4
9	231M1009	3.0	96.0	92.0	55.5	68.8	7.4	8550.7	3457.9

Continued.

Table 5. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
119	231M1119	5.0	99.0	86.0	58.0	66.6	16.3	8550.6	3466.5
84	231M1084	3.0	97.0	96.0	46.7	67.9	10.6	8548.6	2637.8
17	231M1017	3.0	94.0	83.0	48.8	66.3	8.9	8545.2	2598.1
45	231M1045	3.0	98.0	90.0	53.4	67.6	10.8	8537.6	2737.0
78	231M1078	3.0	97.0	95.0	56.4	67.0	14.6	8525.6	1247.8
2	231M1002	3.0	97.0	91.0	51.8	68.4	11.9	8511.4	1267.1
63	231M1063	3.0	99.0	90.0	51.4	63.0	15.3	8505.1	3319.2
37	231M1037	1.0	96.0	90.0	45.3	66.4	12.8	8502.2	1995.9
49	231M1049	3.0	100.0	89.0	52.6	66.5	15.4	8499.9	3815.8
41	231M1041	3.0	95.0	93.0	41.4	66.9	9.4	8496.1	2721.2
94	231M1094	3.0	96.0	86.0	39.4	66.5	10.4	8493.0	2322.7
122	231M1122	3.0	97.0	94.0	51.3	65.5	12.1	8484.4	3053.4
90	231M1090	1.0	97.0	86.0	32.1	65.8	5.2	8477.4	2313.7
81	231M1081	3.0	99.0	76.0	60.6	68.8	13.7	8469.3	1866.9
7	231M1007	3.0	101.0	81.0	52.9	67.0	16.6	8415.4	2825.0
52	231M1052	3.0	99.0	83.0	50.9	68.9	7.0	8342.1	3334.1
98	231M1098	1.0	99.0	93.0	42.8	68.4	10.0	8339.2	3678.7
71	231M1071	3.0	96.0	98.0	51.9	68.3	6.1	8296.9	2974.7
106	231M1106	3.0	96.0	99.0	46.7	65.7	10.2	8273.2	4033.2
55	231M1055	3.0	99.0	87.0	44.5	67.9	7.6	8266.0	2882.3
42	231M1042	3.0	98.0	89.0	43.7	67.1	9.2	8262.5	2630.1
72	231M1072	1.0	99.0	93.0	49.3	65.5	12.2	8257.5	3231.9
91	231M1091	3.0	97.0	84.0	39.2	65.7	17.3	8200.5	2409.9
28	231M1028	3.0	99.0	86.0	60.8	66.4	14.6	8192.6	3786.3
120	231M1120	5.0	99.0	82.0	58.5	67.1	17.3	8189.5	2604.6
8	231M1008	5.0	101.0	90.0	55.3	68.8	11.2	8179.0	1991.3
85	231M1085	3.0	99.0	80.0	41.4	65.6	10.0	8178.6	3069.9
29	231M1029	3.0	99.0	86.0	59.7	67.7	10.6	8164.8	2333.8
116	231M1116	3.0	99.0	86.0	47.1	66.8	11.5	8153.0	2304.5
100	231M1100	3.0	97.0	91.0	48.7	66.3	13.0	8117.6	1782.0
54	231M1054	3.0	98.0	93.0	39.3	68.0	5.9	8112.9	1818.1
27	231M1027	3.0	98.0	90.0	57.4	65.4	17.1	8089.8	2383.2
14	231M1014	3.0	100.0	91.0	63.7	70.2	5.9	8060.0	3083.5
4	231M1004	3.0	96.0	86.0	52.8	68.8	10.1	8035.0	2834.5
97	231M1097	3.0	101.0	91.0	47.9	67.7	7.1	7903.3	2118.4
113	231M1113	3.0	97.0	87.0	24.1	67.2	10.0	7875.1	2204.7
73	231M1073	3.0	95.0	92.0	41.8	66.8	9.9	7856.1	1994.7
44	231M1044	3.0	99.0	87.0	44.6	68.4	5.6	7852.4	3272.1
48	231M1048	1.0	99.0	89.0	64.2	69.9	19.4	7815.5	3356.8
123	Titan	3.0	94.0	91.0	54.0	66.5	10.7	7814.7	3383.5
25	231M1025	3.0	99.0	91.0	30.6	64.8	11.3	7793.1	1328.4
34	231M1034	3.0	98.0	100.0	58.2	69.5	6.8	7773.0	1999.2

Continued.

Table 5. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
80	231M1080	3.0	100.0	86.0	58.9	68.9	12.8	7765.9	2074.8
61	231M1061	3.0	99.0	90.0	55.1	66.2	16.6	7747.4	1915.7
47	231M1047	3.0	99.0	91.0	48.3	68.6	8.0	7698.2	2013.3
82	231M1082	5.0	99.0	86.0	60.1	68.4	8.7	7673.4	2903.2
30	231M1030	3.0	97.0	89.0	25.7	66.6	14.3	7665.0	1634.7
43	231M1043	1.0	99.0	87.0	50.5	66.4	11.2	7664.5	2439.7
22	231M1022	1.0	95.0	94.0	23.2	64.3	10.8	7623.6	1695.9
69	231M1069	3.0	95.0	82.0	41.8	64.7	12.5	7616.1	1997.6
23	231M1023	3.0	99.0	77.0	28.2	64.9	10.1	7610.8	1922.0
117	231M1117	3.0	99.0	84.0	53.6	67.7	11.8	7577.8	2029.4
104	231M1104	3.0	93.0	97.0	42.8	66.3	14.4	7561.9	2401.2
101	231M1101	3.0	97.0	94.0	54.8	66.5	15.1	7544.8	2826.7
112	231M1112	1.0	94.0	83.0	42.9	67.1	5.5	7534.2	1865.3
111	231M1111	3.0	95.0	94.0	38.0	68.0	4.4	7461.6	1365.3
21	231M1021	3.0	94.0	88.0	33.3	65.9	9.1	7448.9	1589.1
92	231M1092	3.0	98.0	85.0	43.6	66.8	6.2	7441.0	2360.4
3	231M1003	1.0	94.0	89.0	48.5	67.8	5.8	7432.3	2371.4
38	231M1038	3.0	98.0	91.0	33.9	66.2	9.6	7393.6	1704.1
88	231M1088	3.0	98.0	88.0	46.1	67.8	5.3	7329.9	2880.6
20	231M1020	3.0	92.0	92.0	24.3	64.9	6.2	7168.1	2190.5
13	231M1013	3.0	98.0	91.0	38.8	65.3	13.0	7138.7	2315.8
5	231M1005	3.0	92.0	93.0	57.0	68.2	4.3	7136.5	1751.5
26	231M1026	1.0	90.0	86.0	49.8	66.5	7.9	7005.2	2411.4
109	231M1109	3.0	96.0	75.0	50.3	68.1	9.7	6976.1	1767.2
31	231M1031	3.0	96.0	96.0	49.4	66.9	11.3	6877.9	3308.9
32	231M1032	3.0	99.0	88.0	58.4	66.3	14.7	6754.7	2608.8
64	231M1064	3.0	98.0	85.0	47.4	68.5	6.2	6717.5	3005.8
18	231M1018	3.0	99.0	95.0	40.4	63.0	29.4	6612.2	1057.3
115	231M1115	3.0	98.0	79.0	44.5	67.1	5.4	6585.1	1844.0
79	231M1079	3.0	98.0	78.0	58.6	69.2	11.7	6571.5	2273.4
1	231M1001	3.0	90.0	95.0	65.2	69.6	4.4	6503.8	4146.7
93	231M1093	3.0	98.0	81.0	39.7	66.8	11.0	6503.3	2708.4
19	231M1019	3.0	88.0	93.0	33.6	67.3	4.9	6502.3	2316.2
114	231M1114	3.0	98.0	78.0	33.0	65.8	5.6	6398.7	2047.1
87	231M1087	5.0	99.0	102.0	42.7	67.1	3.6	6372.1	2020.0
16	231M1016	3.0	97.0	94.0	35.9	66.3	8.7	6062.6	1822.0
12	231M1012	3.0	95.0	88.0	26.2	66.0	11.7	4952.5	1331.5

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

Table 6. Grain and milling yields and agronomic performance of entries in the 2023 Conventional Preliminary Yield Medium-Grain trial – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
79	231M1079	3.0	74.0	90.0	65.1	69.1	6.3	9526.1	3222.2
57	231M1057	5.0	75.0	93.0	48.9	68.0	4.7	9164.6	4198.4
125	Taurus	3.0	70.0	84.0	48.1	67.1	2.6	9022.3	2974.2
53	231M1053	3.0	73.0	90.0	46.4	68.1	2.8	8698.2	3769.5
58	231M1058	3.0	71.0	96.0	56.1	69.7	2.4	8515.9	4936.7
108	231M1108	3.0	73.0	95.0	58.6	68.0	14.9	8394.9	2946.1
106	231M1106	3.0	70.0	93.0	51.9	66.4	4.9	8347.3	3708.5
119	231M1119	3.0	73.0	83.0	62.0	67.6	9.8	8346.9	3163.2
6	231M1006	9.0	71.0	89.0	46.2	67.7	4.6	8303.7	5266.9
2	231M1002	3.0	70.0	100.0	53.0	68.2	5.8	8258.8	2169.0
75	231M1075	5.0	73.0	94.0	59.2	65.7	16.8	8166.2	3483.9
71	231M1071	3.0	70.0	90.0	47.8	67.2	4.7	8164.6	4121.5
11	231M1011	3.0	76.0	88.0	63.5	68.2	10.6	8145.4	3340.7
66	231M1066	3.0	72.0	87.0	50.8	68.3	3.1	8015.5	3281.6
86	231M1086	3.0	71.0	86.0	40.8	65.4	5.0	7985.6	3725.1
10	231M1010	3.0	71.0	86.0	51.8	67.0	7.6	7975.9	3421.2
51	231M1051	3.0	72.0	90.0	39.3	68.3	8.9	7974.4	3021.9
88	231M1088	3.0	73.0	80.0	37.8	67.3	5.8	7911.6	3450.3
76	231M1076	3.0	75.0	97.0	48.3	66.3	3.5	7900.0	4712.9
56	231M1056	3.0	73.0	92.0	55.7	68.8	5.4	7856.1	3025.4
103	231M1103	3.0	71.0	89.0	59.1	67.6	8.8	7832.6	4650.5
29	231M1029	3.0	74.0	92.0	58.9	67.4	3.5	7767.5	3241.8
84	231M1084	3.0	70.0	95.0	40.8	66.5	12.8	7733.5	4036.3
97	231M1097	3.0	73.0	89.0	34.4	66.8	5.5	7727.1	4009.5
22	231M1022	3.0	72.0	94.0	23.8	63.5	2.9	7713.2	2463.0
90	231M1090	3.0	70.0	81.0	24.2	64.5	5.4	7683.3	3542.7
7	231M1007	3.0	75.0	91.0	47.1	67.0	3.7	7674.2	3616.8
102	231M1102	3.0	69.0	86.0	50.7	66.7	5.2	7655.1	3202.5
17	231M1017	3.0	73.0	88.0	52.3	66.3	7.8	7593.6	2484.0
47	231M1047	3.0	72.0	86.0	45.1	67.5	5.4	7557.7	4711.5
13	231M1013	3.0	73.0	83.0	30.2	65.3	10.3	7546.4	3725.6
104	231M1104	3.0	69.0	86.0	51.1	66.9	6.3	7541.4	4006.1
14	231M1014	3.0	74.0	79.0	60.0	70.1	4.9	7519.1	2906.6
111	231M1111	3.0	69.0	80.0	28.7	66.8	5.1	7499.7	3662.2
42	231M1042	3.0	75.0	87.0	46.2	66.6	5.7	7460.9	3968.9
87	231M1087	3.0	72.0	101.0	30.7	66.5	4.6	7442.9	3996.3
78	231M1078	3.0	72.0	94.0	49.7	66.5	10.3	7422.9	3261.0
55	231M1055	3.0	73.0	79.0	38.1	68.0	2.3	7402.7	3896.5
21	231M1021	9.0	72.0	88.0	45.4	66.0	6.5	7393.5	3021.1
107	231M1107	3.0	70.0	95.0	53.2	70.4	8.2	7389.9	2953.9
9	231M1009	3.0	71.0	85.0	51.0	67.8	5.1	7370.7	4870.8

Continued.

Table 6. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
44	231M1044	3.0	74.0	90.0	42.8	68.2	4.5	7366.6	5319.7
46	231M1046	3.0	75.0	93.0	32.6	65.8	6.2	7353.9	4951.5
27	231M1027	3.0	75.0	102.0	60.7	67.7	12.2	7324.8	3950.8
60	231M1060	3.0	76.0	92.0	42.1	67.4	3.9	7315.8	5175.6
54	231M1054	3.0	72.0	81.0	32.3	68.2	3.0	7305.6	4860.9
80	231M1080	3.0	76.0	84.0	60.0	68.3	8.2	7264.3	3527.6
77	231M1077	3.0	73.0	99.0	56.0	67.2	5.7	7255.9	3667.4
15	231M1015	3.0	72.0	80.0	43.3	69.2	2.8	7254.4	3643.6
118	231M1118	3.0	74.0	81.0	58.5	66.4	15.2	7245.5	2457.1
64	231M1064	3.0	72.0	86.0	43.0	68.6	5.5	7242.7	3300.7
98	231M1098	3.0	74.0	96.0	31.6	67.7	6.3	7141.1	3793.9
65	231M1065	3.0	73.0	95.0	52.5	68.8	4.8	7060.5	2551.3
36	231M1036	3.0	71.0	90.0	32.6	66.2	6.4	6992.4	4860.9
52	231M1052	3.0	73.0	92.0	47.2	67.5	5.4	6971.7	3992.0
68	231M1068	3.0	72.0	96.0	50.4	66.6	5.7	6894.9	3926.3
83	231M1083	3.0	70.0	103.0	32.1	65.5	4.9	6894.1	3855.7
82	231M1082	3.0	76.0	98.0	61.3	69.1	5.7	6841.0	3287.0
34	231M1034	3.0	73.0	84.0	57.9	67.8	2.8	6826.7	3319.1
122	231M1122	3.0	71.0	94.0	55.5	66.4	11.4	6813.4	3644.2
74	231M1074	3.0	72.0	85.0	58.8	66.2	10.8	6804.3	3597.9
94	231M1094	3.0	71.0	87.0	38.9	66.4	4.8	6767.5	4560.5
3	231M1003	3.0	71.0	100.0	40.1	65.7	4.3	6759.1	4626.4
96	231M1096	3.0	73.0	92.0	42.2	65.8	8.8	6728.4	4393.1
31	231M1031	3.0	74.0	91.0	46.4	65.8	5.6	6682.8	2907.1
37	231M1037	3.0	71.0	97.0	49.8	67.9	8.7	6647.5	3105.0
72	231M1072	3.0	75.0	85.0	47.4	63.6	11.8	6607.6	3623.1
38	231M1038	3.0	73.0	84.0	37.8	67.2	3.5	6588.8	4326.6
69	231M1069	3.0	73.0	84.0	39.8	66.4	10.5	6574.7	3634.4
63	231M1063	3.0	74.0	88.0	56.6	65.8	11.5	6570.9	3653.4
61	231M1061	3.0	75.0	76.0	54.6	66.9	13.2	6552.7	3947.2
41	231M1041	5.0	69.0	89.0	47.1	67.5	4.0	6526.2	3117.9
116	231M1116	3.0	76.0	88.0	44.0	66.1	6.0	6506.2	3533.7
43	231M1043	3.0	73.0	85.0	43.3	66.9	5.1	6496.2	5108.3
105	231M1105	5.0	71.0	80.0	51.8	66.7	14.1	6463.4	4401.9
67	231M1067	3.0	73.0	95.0	48.1	66.4	5.8	6455.5	3680.6
24	231M1024	3.0	72.0	88.0	37.7	64.8	7.7	6425.4	3041.1
100	231M1100	3.0	73.0	88.0	58.0	67.0	6.4	6400.6	4889.4
62	231M1062	3.0	74.0	89.0	54.8	66.2	8.5	6380.4	4010.2
81	231M1081	5.0	73.0	83.0	52.3	68.2	4.2	6233.6	3849.9
115	231M1115	3.0	75.0	85.0	37.0	65.7	2.9	6202.1	2889.3
33	231M1033	3.0	73.0	89.0	41.5	67.4	3.7	6151.6	4336.9
39	231M1039	3.0	72.0	80.0	39.9	66.2	4.7	6123.2	3387.5

Continued.

Table 6. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
20	231M1020	3.0	71.0	80.0	22.0	63.3	7.0	6114.0	3491.6
4	231M1004	3.0	73.0	83.0	47.1	66.6	3.7	6075.8	3069.9
120	231M1120	3.0	76.0	77.0	58.8	68.0	8.8	6047.7	3122.7
30	231M1030	3.0	72.0	93.0	22.3	65.0	4.9	6008.2	2863.9
8	231M1008	5.0	75.0	86.0	45.3	67.1	6.2	5893.9	3525.7
73	231M1073	3.0	72.0	95.0	35.0	65.3	7.0	5860.5	3470.5
32	231M1032	3.0	74.0	92.0	55.9	65.7	8.1	5845.6	3030.4
117	231M1117	3.0	77.0	72.0	52.6	68.2	5.2	5834.3	3631.4
93	231M1093	3.0	72.0	87.0	35.2	68.3	3.3	5831.5	2935.1
59	231M1059	3.0	74.0	85.0	31.2	65.4	3.1	5799.2	3971.0
70	231M1070	3.0	71.0	90.0	41.9	66.8	11.0	5747.8	3802.2
91	231M1091	3.0	72.0	78.0	42.4	65.9	4.7	5743.1	4158.9
48	231M1048	3.0	77.0	83.0	59.4	65.5	17.4	5673.4	3315.8
19	231M1019	3.0	69.0	92.0	31.3	64.7	2.2	5666.9	4502.2
23	231M1023	3.0	75.0	88.0	29.5	63.1	4.4	5664.3	3908.2
121	231M1121	3.0	76.0	75.0	61.3	66.7	8.1	5647.8	3256.3
28	231M1028	3.0	74.0	82.0	55.6	65.5	12.3	5644.4	3815.8
123	Titan	3.0	71.0	88.0	53.6	65.7	5.5	5606.7	3585.2
109	231M1109	5.0	70.0	89.0	48.1	66.7	9.4	5603.7	3190.2
1	231M1001	3.0	67.0	95.0	65.2	70.2	4.5	5578.5	5520.6
101	231M1101	3.0	73.0	85.0	57.8	66.4	11.5	5512.1	3347.7
92	231M1092	3.0	73.0	83.0	41.1	66.8	4.3	5484.4	3396.8
49	231M1049	3.0	77.0	94.0	45.6	63.8	12.9	5460.3	1641.5
124	Jupiter	5.0	76.0	85.0	62.2	67.5	14.8	5351.1	4425.5
85	231M1085	3.0	73.0	80.0	40.2	65.8	8.7	5328.6	5218.8
25	231M1025	3.0	73.0	79.0	31.5	62.9	4.3	5300.9	3000.8
50	231M1050	3.0	77.0	95.0	61.6	66.9	19.8	5284.7	2531.0
18	231M1018	3.0	73.0	87.0	45.6	63.5	25.7	5193.8	2046.3
110	231M1110	3.0	68.0	96.0	63.6	69.7	3.9	5063.5	2345.1
12	231M1012	3.0	71.0	105.0	29.3	65.6	6.0	4998.6	3253.5
45	231M1045	3.0	73.0	81.0	54.0	66.3	10.3	4933.1	3460.8
113	231M1113	3.0	71.0	88.0	20.3	65.9	5.8	4899.2	2158.3
5	231M1005	5.0	69.0	85.0	56.8	67.1	2.0	4843.9	3229.0
16	231M1016	3.0	75.0	90.0	40.3	66.6	4.3	4683.9	4285.4
26	231M1026	3.0	69.0	100.0	47.3	64.9	4.8	4235.5	2928.7
114	231M1114	5.0	74.0	75.0	33.1	66.1	5.5	4199.0	4017.5
112	231M1112	3.0	70.0	89.0	39.6	66.4	4.7	3508.3	2834.3

[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 and ratoon crops, 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 complete randomized design with one replication was applied to arrange test entries. The plot size was 4.66 x 16.5 ft. Seeding rate was 75 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 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 2023 Clearfield Preliminary Yield trials.

Location	Trial	Planting	Harvesting
HRCRRS	CLPYL	3/1	7/25
	CLPYL – Late Planting	4/18	8/16
	CLPYM	3/1	7/28
	CLPYM – Late Planting	4/18	8/18

Table 2. Entry number, pedigree, grain type, and source information for entries in the 2023 Clearfield Preliminary Yield trials.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CL	1	232L1001	Thad/CL111	HI	LAES
CL	2	232L1002	Thad/CL111	HI	LAES
CL	3	232L1003	Lakast/CL163	HI	LAES
CL	4	232L1004	Lakast/CL163	HI	LAES
CL	5	232L1005	Lakast/CL163	HI	LAES
CL	6	232L1006	Lakast/CL163	HI	LAES
CL	7	232A1007	RU1902170/CL111	AL	LAES
CL	8	232A1008	RU1902170/RU1801169	AL	LAES
CL	9	232A1009	RU1902170/RU1902014	AL	LAES
CL	10	232A1010	RU1902170/CLL17	AL	LAES
CL	11	232A1011	RU1902170/CLL17	AL	LAES
CL	12	232A1012	RU1702183/RU1902170	AL	LAES
CL	13	232A1013	RU1702183/RU1902170	AL	LAES
CL	14	232A1014	RU1602195/RU1902170	AL	LAES
CL	15	232A1015	182L2166/RU1902170	AL	LAES
CL	16	232A1016	CLJ01/RU1702140	AL	LAES
CL	17	232A1017	181L2002/CLJ01	AL	LAES
CL	18	232A1018	181L2002/RU1902170	AL	LAES
CL	19	232A1019	181L2002/RU1902170	AL	LAES
CL	20	232A1020	181L2002/RU1902170	AL	LAES
CL	21	232A1021	181L2002/RU1902170	AL	LAES
CL	22	232A1022	RU1902122/CLJ01	AL	LAES
CL	23	232A1023	RU1902122/CLJ01	AL	LAES
CL	24	232L1024	RU1902162/RU2002122	LG	LAES
CL	25	232L1025	RU1902162/RU2002122	LG	LAES
CL	26	232L1026	RU2002122/CL111	HI	LAES
CL	27	232L1027	RU2002122/CL111	HI	LAES
CL	28	232L1028	BBC02-1/CLL19	LG	LAES
CL	29	232L1029	BBC02-1/CLL19	LG	LAES
CL	30	232L1030	BBC02-1/CLL19	LG	LAES
CL	31	232L1031	RU1902207/RU1702183	LG	LAES
CL	32	232L1032	RU1902207/RU1702183	LG	LAES
CL	33	232L1033	RU1902207/RU1702183	LG	LAES
CL	34	232L1034	RU1902207/RU1702183	LG	LAES
CL	35	232L1035	RU1902207/RU1702183	LG	LAES
CL	36	232L1036	RU1902207/RU1702183	LG	LAES
CL	37	232L1037	RU1902207/RU1702183	LG	LAES
CL	38	232L1038	RU1902034/RU2002222	LG	LAES
CL	39	232L1039	CLL17/Diamond	LG	LAES
CL	40	232L1040	171L1786/CL153	LG	LAES
CL	41	232L1041	171L1786/CL153	LG	LAES
CL	42	232L1042	171L1786/CL153	LG	LAES
CL	43	232L1043	RU1702183/CL111	LG	LAES
CL	44	232L1044	RU1702183/CL111	LG	LAES
CL	45	232L1045	RU1702183/CL111	LG	LAES
CL	46	232L1046	RU1702183/CL111	LG	LAES
CL	47	232L1047	RU1702183/CL111	LG	LAES
CL	48	232L1048	RU1702183/CL111	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CL	49	232L1049	RU1902014/RU1602195	LG	LAES
CL	50	232L1050	RU1902014/RU1602195	LG	LAES
CL	51	232L1051	RU1902014/RU1602195	LG	LAES
CL	52	232L1052	RU1902014/RU1602195	LG	LAES
CL	53	232L1053	RU1902014/RU1602195	LG	LAES
CL	54	232L1054	RU1902014/RU1602195	LG	LAES
CL	55	232L1055	RU1902122/CLL17	LG	LAES
CL	56	232L1056	RU1902122/CLL17	LG	LAES
CL	57	232L1057	RU1902122/CLL17	LG	LAES
CL	58	232L1058	RU1902122/CLL17	LG	LAES
CL	59	232L1059	RU1902122/CLL17	LG	LAES
CL	60	232L1060	RU1902122/CLL17	LG	LAES
CL	61	232L1061	RU1902146/182L2195	LG	LAES
CL	62	232L1062	RU1902146/182L2195	LG	LAES
CL	63	232L1063	RU1902126/182L1278	LG	LAES
CL	64	232L1064	RU1902126/182L1278	HI	LAES
CL	65	232L1065	RU1902126/182L1278	HI	LAES
CL	66	232L1066	RU1902126/182L1278	LG	LAES
CL	67	232L1067	RU1902126/182L1278	LG	LAES
CL	68	232L1068	RU1902126/182L1278	LG	LAES
CL	69	232L1069	RU1602195/CL153	LG	LAES
CL	70	232L1070	RU1602195/CL153	LG	LAES
CL	71	232L1071	RU1602195/CL153	LG	LAES
CL	72	232L1072	RU1602195/CL153	LG	LAES
CL	73	232L1073	RU1902126/RU2002114	LG	LAES
CL	74	232L1074	RU1902126/RU2002114	HI	LAES
CL	75	232L1075	RU1902126/RU2002114	HI	LAES
CL	76	232L1076	RU1902126/RU2002114	LG	LAES
CL	77	232L1077	CLL17/182L2166	LG	LAES
CL	78	232L1078	CLL17/182L2166	LG	LAES
CL	79	232L1079	CLL17/182L2166	LG	LAES
CL	80	232L1080	CLL17/182L2166	LG	LAES
CL	81	232L1081	CL151/182L1278	LG	LAES
CL	82	232L1082	RU1902122/CL111	LG	LAES
CL	83	232L1083	RU1902142/CL151	LG	LAES
CL	84	232L1084	RU1902142/CL151	LG	LAES
CL	85	232L1085	RU1902142/CL151	LG	LAES
CL	86	232L1086	RU1902142/CL151	LG	LAES
CL	87	232L1087	RU1902142/CL151	LG	LAES
CL	88	232L1088	RU1902142/CL151	LG	LAES
CL	89	232L1089	RU1702183/CLL17	LG	LAES
CL	90	232L1090	RU1702183/CLL17	LG	LAES
CL	91	232L1091	RU1702183/CLL17	LG	LAES
CL	92	232L1092	RU1702183/CLL17	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CL	92	232L1092	RU1702183/CLL17	LG	LAES
CL	93	232L1093	RU1702183/CLL17	LG	LAES
CL	94	232L1094	RU1702183/CLL17	LG	LAES
CL	95	232L1095	RU1702183/CLL17	LG	LAES
CL	96	232L1096	RU1702183/CLL17	LG	LAES
CL	97	232L1097	RU2002114/RU1801169	LG	LAES
CL	98	232L1098	RU2002114/RU1801169	LG	LAES
CL	99	232L1099	RU2002114/RU1801169	LG	LAES
CL	100	232L1100	RU2002114/RU1801169	LG	LAES
CL	101	232L1101	RU2002114/RU1801169	LG	LAES
CL	102	232L1102	RU2002114/RU1801169	LG	LAES
CL	103	232L1103	RU2002114/RU1801169	LG	LAES
CL	104	232L1104	CLL15/RU2002114	LG	LAES
CL	105	232L1105	CLL15/RU2002114	LG	LAES
CL	106	232L1106	CLL15/RU2002114	LG	LAES
CL	107	232L1107	CLL15/RU2002114	LG	LAES
CL	108	232L1108	CLL15/RU2002114	LG	LAES
CL	109	232L1109	CLL15/RU2002114	LG	LAES
CL	110	232L1110	RU1902126/182L2166	LG	LAES
CL	111	232L1111	RU1902126/182L2166	HI	LAES
CL	112	232L1112	RU1902126/182L2166	HI	LAES
CL	113	232L1113	RU1602195/CL151	LG	LAES
CL	114	232L1114	RU1602195/CL151	LG	LAES
CL	115	232L1115	182L1278/CL111	LG	LAES
CL	116	232L1116	182L1278/CL111	LG	LAES
CL	117	232L1117	182L1278/CL111	LG	LAES
CL	118	232L1118	RU1902126/CL111	LG	LAES
CL	119	232L1119	RU1902126/CL111	LG	LAES
CL	120	232L1120	RU1902126/CL111	LG	LAES
CL	121	232L1121	182L2166/RU1902014	LG	LAES
CL	122	232L1122	182L1278/CLL17	LG	LAES
CL	123	232L1123	182L1278/CLL17	LG	LAES
CL	124	232L1124	182L1278/CLL17	LG	LAES
CL	125	232L1125	182L1278/CLL17	LG	LAES
CL	126	232L1126	182L1278/CLL17	LG	LAES
CL	127	232L1127	CL151/RU2002114	LG	LAES
CL	128	232L1128	CL111/182L2195	LG	LAES
CL	129	232L1129	CL111/182L2195	LG	LAES
CL	130	232L1130	Avant/CL111	LG	LAES
CL	131	232L1131	Avant/CL111	LG	LAES
CL	132	232L1132	Avant/CL111	LG	LAES
CL	133	232L1133	Avant/CL111	LG	LAES
CL	134	232L1134	Avant/CL111	LG	LAES
CL	135	232L1135	Avant/CL111	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type†	Source‡
CL	136	232L1136	Avant/CL111	LG	LAES
CL	137	232L1137	Avant/CL111	LG	LAES
CL	138	232L1138	Diamond/RU1902146	LG	LAES
CL	139	232L1139	Diamond/RU1902146	LG	LAES
CL	140	232L1140	Diamond/RU1902146	LG	LAES
CL	141	232L1141	Diamond/RU1902146	LG	LAES
CL	142	232L1142	Diamond/RU1902146	LG	LAES
CL	143	232L1143	RU1702140/RU1602195	LG	LAES
CL	144	232L1144	RU1702140/RU1602195	LG	LAES
CL	145	232L1145	RU1702140/RU1602195	LG	LAES
CL	146	232L1146	RU1702140/RU1602195	LG	LAES
CL	147	232L1147	RU1902142/RU1702140	LG	LAES
CL	148	232L1148	RU1902142/RU1702140	LG	LAES
CL	149	232L1149	RU1702140/CL111	LG	LAES
CL	150	232L1150	RU1702140/CL111	LG	LAES
CL	151	232L1151	RU1702140/CL111	LG	LAES
CL	152	232L1152	RU1702140/CL111	LG	LAES
CL	153	232L1153	RU1902162/Avant	LG	LAES
CL	154	232L1154	RU1902162/Avant	LG	LAES
CL	155	232L1155	RU1902162/Avant	LG	LAES
CL	156	232L1156	RU1902162/Avant	LG	LAES
CL	157	232L1157	RU1902162/Avant	LG	LAES
CL	158	232L1158	RU1902162/Avant	LG	LAES
CL	159	232L1159	Avant/CL151	LG	LAES
CL	160	232L1160	Avant/CL151	LG	LAES
CL	161	232L1161	CL151/181L2002	LG	LAES
CL	162	232L1162	CL151/181L2002	LG	LAES
CL	163	232L1163	CL151/181L2002	LG	LAES
CL	164	232L1164	CL151/181L2002	LG	LAES
CL	165	232L1165	182L1278/Cheniere	LG	LAES
CL	166	232L1166	182L1278/Cheniere	LG	LAES
CL	167	232L1167	RU1902194/RU1902126	LG	LAES
CL	168	232L1168	RU1902194/RU1902126	LG	LAES
CL	169	232L1169	RU1902194/RU1902126	LG	LAES
CL	170	232L1170	RU1902194/RU1902126	HI	LAES
CL	171	232L1171	RU1902194/RU1902126	HI	LAES
CL	172	232L1172	RU1902186/182L2195	LG	LAES
CL	173	232L1173	RU1902186/182L2195	LG	LAES
CL	174	232L1174	RU1902186/182L2195	LG	LAES
CL	175	232L1175	Catahoula/RU1902146	LG	LAES
CL	176	232L1176	Catahoula/RU1902146	LG	LAES
CL	177	232L1177	Catahoula/RU1902146	LG	LAES
CL	178	232L1178	Catahoula/RU1902146	LG	LAES
CL	179	232L1179	Catahoula/RU1902146	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CL	180	232L1180	RU2002114/Cheniere	LG	LAES
CL	181	232L1181	RoyJ/CL153	LG	LAES
CL	182	232L1182	RoyJ/CL153	LG	LAES
CL	183	232L1183	RoyJ/CL153	LG	LAES
CL	184	232L1184	RoyJ/CL153	LG	LAES
CL	185	232L1185	RoyJ/CL153	LG	LAES
CL	186	232L1186	CL111/RU2002217	LG	LAES
CL	187	232L1187	CL111/RU2002217	LG	LAES
CL	188	232L1188	CL111/RU2002217	LG	LAES
CL	189	232L1189	CL111/RU2002217	LG	LAES
CL	190	232L1190	CL111/RU2002217	LG	LAES
CL	191	232L1191	CL111/RU2002217	LG	LAES
CL	192	232L1192	CL111/RU2002217	LG	LAES
CL	193	232L1193	CL111/RU2002217	LG	LAES
CL	194	232L1194	CL111/RU2002217	LG	LAES
CL	195	232L1195	Avant/RU1902162	LG	LAES
CL	196	232L1196	Avant/RU1902162	LG	LAES
CL	197	232L1197	RU1902034/CLL16	LG	LAES
CL	198	232L1198	RU1902034/CLL16	LG	LAES
CL	199	232L1199	RU1902034/CLL16	LG	LAES
CL	200	232L1200	RU1902034/CLL16	LG	LAES
CL	201	232L1201	RU1902034/CLL16	LG	LAES
CL	202	232L1202	CLL16/CLL19	LG	LAES
CL	203	232L1203	CLL16/CLL19	LG	LAES
CL	204	232L1204	CLL16/CLL19	LG	LAES
CL	205	232L1205	CLL16/CLL19	LG	LAES
CL	206	232L1206	CLL16/CLL19	LG	LAES
CL	207	232L1207	RU1702183/Avant	LG	LAES
CL	208	232L1208	RU1702183/Avant	LG	LAES
CL	209	232L1209	RU1702183/Avant	LG	LAES
CL	210	232L1210	RU1702183/Avant	LG	LAES
CL	211	232L1211	RU1702183/Avant	LG	LAES
CL	212	232L1212	RU1702183/Avant	LG	LAES
CL	213	232L1213	RU1702183/Avant	LG	LAES
CL	214	232L1214	RU1702183/Avant	LG	LAES
CL	215	232L1215	RU1702183/Avant	LG	LAES
CL	216	232L1216	RU1702183/Avant	LG	LAES
CL	217	232L1217	RU1702183/Avant	LG	LAES
CL	218	232L1218	RU1702183/Avant	LG	LAES
CL	219	232L1219	RU1702183/Avant	LG	LAES
CL	220	232L1220	RU1702183/Avant	LG	LAES
CL	221	232L1221	RU1702183/Avant	LG	LAES
CL	222	232L1222	RU1702183/Avant	LG	LAES
CL	223	232L1223	RU1702183/Avant	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CL	224	232L1224	RU1702183/Avant	LG	LAES
CL	225	232L1225	RU1702183/Avant	LG	LAES
CL	226	232L1226	CLL16/RU1702183	LG	LAES
CL	227	232L1227	CLL16/RU1702183	LG	LAES
CL	228	232L1228	CLL16/RU1702183	LG	LAES
CL	229	232L1229	CLL16/RU1702183	LG	LAES
CL	230	232L1230	Cheniere/RU1801221	LG	LAES
CL	231	232L1231	Cheniere/RU1801221	LG	LAES
CL	232	232L1232	RU2002146/CL111	LG	LAES
CL	233	232L1233	RU2002146/CL111	LG	LAES
CL	234	232L1234	RU2002146/CL111	LG	LAES
CL	235	232L1235	RU1702140/RU1901121	LG	LAES
CL	236	232L1236	RU1702140/RU1901121	LG	LAES
CL	237	232L1237	Mermentau/RU1801101	LG	LAES
CL	238	232L1238	Mermentau/RU1801101	LG	LAES
CL	239	232L1239	Mermentau/RU1801101	LG	LAES
CL	240	232L1240	Mermentau/RU1801101	LG	LAES
CL	241	232L1241	Mermentau/RU1801101	LG	LAES
CL	242	232L1242	Mermentau/RU1801101	LG	LAES
CL	243	232L1243	Mermentau/RU1801101	LG	LAES
CL	244	232L1244	Mermentau/RU1801101	LG	LAES
CL	245	232L1245	Mermentau/RU1801101	LG	LAES
CL	246	232L1246	RU1902034/RU1702140	LG	LAES
CL	247	232L1247	RU1902034/RU1702140	LG	LAES
CL	248	232L1248	RU1902034/RU1702140	LG	LAES
CL	249	232L1249	RU1902034/RU1702140	LG	LAES
CL	250	232L1250	RU1902034/RU1702140	LG	LAES
CL	251	232L1251	RU1902034/RU1702140	LG	LAES
CL	252	232L1252	RU1902034/RU1702140	LG	LAES
CL	253	232L1253	Mermentau/RU2002114	LG	LAES
CL	254	232L1254	Mermentau/RU2002114	LG	LAES
CL	255	232L1255	Mermentau/RU2002114	LG	LAES
CL	256	232L1256	Mermentau/RU2002114	LG	LAES
CL	257	232L1257	CL151/19-53006	LG	LAES
CL	258	232L1258	CL151/19-53006	LG	LAES
CL	259	232L1259	CL151/19-53006	LG	LAES
CL	260	232L1260	CL151/19-53006	LG	LAES
CL	261	232L1261	CLL19/RU2002122	LG	LAES
CL	262	232L1262	CLL19/RU2002122	HI	LAES
CL	263	232L1263	CLL19/RU2002122	HI	LAES
CL	264	232L1264	CLL19/RU2002122	LG	LAES
CL	265	232L1265	CLL19/RU2002122	LG	LAES
CL	266	232L1266	CLL19/RU2002122	LG	LAES
CL	267	232L1267	CLL19/RU2002122	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type†	Source‡
CL	268	232L1268	CLL19/RU2002122	LG	LAES
CL	269	232L1269	CLL19/RU2002122	LG	LAES
CL	270	232L1270	CLL19/RU2002122	LG	LAES
CL	271	232L1271	CL153/AddiJo	LG	LAES
CL	272	232L1272	CL153/AddiJo	LG	LAES
CL	273	232L1273	CL153/AddiJo	LG	LAES
CL	274	232L1274	CL153/AddiJo	LG	LAES
CL	275	232L1275	CL153/AddiJo	LG	LAES
CL	276	232L1276	CL153/AddiJo	LG	LAES
CL	277	232L1277	CL153/AddiJo	LG	LAES
CL	278	232L1278	CL153/AddiJo	HI	LAES
CL	279	232L1279	CL153/AddiJo	HI	LAES
CL	280	232L1280	CL153/AddiJo	HI	LAES
CL	281	232L1281	CL153/AddiJo	LG	LAES
CL	282	232L1282	RU2002150/CLL19	LG	LAES
CL	283	232L1283	RU2002150/CLL19	LG	LAES
CL	284	232L1284	RU2002150/CLL19	LG	LAES
CL	285	232L1285	RU2002150/CLL19	LG	LAES
CL	286	232L1286	RU2002150/CLL19	LG	LAES
CL	287	232L1287	RU2002186/RU1902034	LG	LAES
CL	288	232L1288	Cheniere/CL153	LG	LAES
CL	289	232L1289	RU2002190/CLL17	LG	LAES
CL	290	232L1290	RU2002190/CLL17	LG	LAES
CL	291	232A1291	RU1902170/RU1801221	AL	LAES
CL	292	232A1292	RU1902170/RU1801221	AL	LAES
CL	293	232A1293	RU1902170/RU1801221	AL	LAES
CL	294	232L1294	CLL17/RU2002114	LG	LAES
CL	295	232L1295	CLL17/RU2002114	LG	LAES
CL	296	CLL19	Wells/CL161//Drew/CL161/3/Cheniere//Cocodrie/Jefferson	LG	LAES
CL	297	CLL18	RoyJ/CL142AR	LG	AAES
CL	298	CLL16	248WE16I5/Taggart/7/248Drew16C13/6/LaGrue//Katy/ Starbonnet/5/Newbonnet/Katy//RA73/Lemont/4/Lebonnet/ 71CR5038/3/Dawn/STG653888//Starbonnet	LG	AAES
CL	299	CLL17	CL131/Trenasse	LG	LAES
CL	300	CL153	RU9502008A//Ahrent/Cocodrie/3/CFX26/RU9702128/4/ Cheniere	LG	LAES
CL	1	232M1001	RU2002090/BBC35-1	MG	LAES
CL	2	232M1002	RU2002090/BBC35-1	MG	LAES
CL	3	232M1003	RU2002090/BBC35-1	MG	LAES
CL	4	232M1004	RU2002090/BBC35-1	MG	LAES
CL	5	232M1005	BBC17-1/CLM04	MG	LAES
CL	6	232M1006	RU1801211/BBC35-1	MG	LAES
CL	7	232M1007	RU1801211/BBC35-1	MG	LAES
CL	8	232M1008	RU1801211/BBC35-1	MG	LAES
CL	9	232M1009	BBC17-1/RU1902174	MG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CL	10	232M1010	BBC17-1/RU1902174	MG	LAES
CL	11	232M1011	BBC17-1/RU1902174	MG	LAES
CL	12	232M1012	BBC17-1/RU1902174	MG	LAES
CL	13	232M1013	BBC17-1/Taurus	MG	LAES
CL	14	232M1014	BBC17-1/Taurus	MG	LAES
CL	15	232M1015	BBC17-1/181M1740	MG	LAES
CL	16	232M1016	BBC35-1/Taurus	MG	LAES
CL	17	232M1017	BBC35-1/Taurus	MG	LAES
CL	18	232M1018	BBC35-1/Taurus	MG	LAES
CL	19	232M1019	BBC35-1/Taurus	MG	LAES
CL	20	232M1020	BBC35-1/Lynx	MG	LAES
CL	21	232M1021	BBC35-1/Lynx	MG	LAES
CL	22	232M1022	BBC35-1/RU2002094	MG	LAES
CL	23	232M1023	BBC35-1/RU2002094	MG	LAES
CL	24	232M1024	BBC35-1/RU2002094	MG	LAES
CL	25	232M1025	181M1740/BBC35-1	MG	LAES
CL	26	232M1026	CL272/RU1902182	MG	LAES
CL	27	232M1027	BBC35-1/Titan	MG	LAES
CL	28	232M1028	RU2002094/BBC17-1	MG	LAES
CL	29	232M1029	RU2002094/BBC17-1	MG	LAES
CL	30	232M1030	CL272/RU1801211	MG	LAES
CL	31	232M1031	RU1801211/BBC17-1	MG	LAES
CL	32	232M1032	RU1702165/RU1902174	MG	LAES
CL	33	232M1033	RU1702165/RU1902174	MG	LAES
CL	34	232M1034	Jupiter/BBC17-1	MG	LAES
CL	35	232M1035	BBC17-1/RU2002090	MG	LAES
CL	36	232M1036	BBC17-1/RU2002090	MG	LAES
CL	37	232M1037	BBC17-1/RU2002090	MG	LAES
CL	38	232M1038	BBC35-1/Jupiter	MG	LAES
CL	39	232M1039	BBC35-1/Jupiter	MG	LAES
CL	40	232M1040	CLM04/RU1902174	MG	LAES
CL	41	232M1041	CLM04/RU1902174	MG	LAES
CL	42	232M1042	CLM04/RU1902174	MG	LAES
CL	43	232M1043	RU1902174/RU2002090	MG	LAES
CL	44	232M1044	RU1902174/Lynx	MG	LAES
CL	45	232M1045	RU1902174/Lynx	MG	LAES
CL	46	232M1046	RU1902174/Lynx	MG	LAES
CL	47	232M1047	RU1902174/Lynx	MG	LAES
CL	48	232M1048	RU1902174/Lynx	MG	LAES
CL	49	232M1049	RU1902174/Lynx	MG	LAES
CL	50	232M1050	RU1902174/Lynx	MG	LAES
CL	51	232M1051	RU1902174/Lynx	MG	LAES
CL	52	232M1052	RU1902174/Lynx	MG	LAES
CL	53	232M1053	RU1902174/Lynx	MG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CL	54	232M1054	RU1902174/Lynx	MG	LAES
CL	55	232M1055	RU1902174/Lynx	MG	LAES
CL	56	232M1056	CLM04/RU1802174	MG	LAES
CL	57	232M1057	CLM04/RU1802174	MG	LAES
CL	58	232M1058	181M1740/RU1902174	MG	LAES
CL	59	232M1059	181M1740/RU1902174	MG	LAES
CL	60	232M1060	181M1740/RU1902174	MG	LAES
CL	61	232M1061	181M1740/RU1902174	MG	LAES
CL	62	232M1062	181M1740/RU1902174	MG	LAES
CL	63	232M1063	181M1740/RU1902174	MG	LAES
CL	64	232M1064	181M1740/RU1902174	MG	LAES
CL	65	232M1065	181M1740/RU1902174	MG	LAES
CL	66	232M1066	181M1740/RU1902174	MG	LAES
CL	67	232M1067	181M1740/CLM04	MG	LAES
CL	68	232M1068	181M1740/CLM04	MG	LAES
CL	69	232M1069	RU1902174/RU1801211	MG	LAES
CL	70	232M1070	RU1902174/RU1801211	MG	LAES
CL	71	232M1071	RU1902174/RU1801211	MG	LAES
CL	72	232M1072	RU1902174/RU1801211	MG	LAES
CL	73	232M1073	RU1902174/RU1801211	MG	LAES
CL	74	232M1074	RU1902174/RU1801211	MG	LAES
CL	75	232M1075	RU1902174/RU1801211	MG	LAES
CL	76	232M1076	RU1902174/RU1801211	MG	LAES
CL	77	232M1077	RU1902174/RU1801211	MG	LAES
CL	78	232M1078	RU1902174/RU1801211	MG	LAES
CL	79	232M1079	RU2002094/CLM04	MG	LAES
CL	80	232M1080	RU2002094/CLM04	MG	LAES
CL	81	232M1081	RU1902174/RU1902227	MG	LAES
CL	82	232M1082	RU1902174/RU1902227	MG	LAES
CL	83	232M1083	RU1902174/RU1902227	MG	LAES
CL	84	232M1084	RU1902174/RU1902227	MG	LAES
CL	85	232M1085	RU1902174/RU1902227	MG	LAES
CL	86	232M1086	RU1902174/RU1902227	MG	LAES
CL	87	232M1087	RU1902174/RU1902227	MG	LAES
CL	88	232M1088	RU1902174/RU1902227	MG	LAES
CL	89	232M1089	RU1902174/Jupiter	MG	LAES
CL	90	232M1090	RU1902174/Jupiter	MG	LAES
CL	91	232M1091	RU1902174/Jupiter	MG	LAES
CL	92	232M1092	RU1902174/Jupiter	MG	LAES
CL	93	232M1093	RU1902174/Jupiter	MG	LAES
CL	94	232M1094	RU1902174/Jupiter	MG	LAES
CL	95	232M1095	RU1902174/Jupiter	MG	LAES
CL	96	232M1096	RU1902174/Jupiter	MG	LAES
CL	97	232M1097	RU1902174/Jupiter	MG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CL	98	232M1098	RU1902174/Jupiter	MG	LAES
CL	99	232M1099	RU1902174/RU2002094	MG	LAES
CL	100	232M1100	RU1902174/RU2002094	MG	LAES
CL	101	232M1101	RU1902174/RU2002094	MG	LAES
CL	102	232M1102	RU1902174/RU2002094	MG	LAES
CL	103	232M1103	RU1902174/RU2002094	MG	LAES
CL	104	232M1104	RU1902174/RU2002094	MG	LAES
CL	105	232M1105	RU1902174/RU2002094	MG	LAES
CL	106	232M1106	RU1902174/RU2002094	MG	LAES
CL	107	232M1107	RU1902174/RU2002094	MG	LAES
CL	108	232M1108	RU1902174/RU2002094	MG	LAES
CL	109	232M1109	RU1902174/RU1802174	MG	LAES
CL	110	232M1110	RU1902174/RU1802174	MG	LAES
CL	111	232M1111	RU1902174/RU1802174	MG	LAES
CL	112	232M1112	RU1902174/RU1802174	MG	LAES
CL	113	232M1113	Taurus/CLM04	MG	LAES
CL	114	232M1114	Taurus/CLM04	MG	LAES
CL	115	232M1115	Taurus/CLM04	MG	LAES
CL	116	232M1116	BBC17-1/RU1802174	MG	LAES
CL	117	232M1117	BBC17-1/RU1802174	MG	LAES
CL	118	232M1118	BBC17-1/RU1802174	MG	LAES
CL	119	CLM04	RU1202168/Jupiter	MG	AAES
CL	120	CL272	Neptune//Bengal/CL161	MG	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, LA; and AAES – Arkansas Agricultural Experiment Station, Stuttgart, AR.

Table 3. Grain and milling yields and agronomic performance of entries in the 2023 Clearfield Preliminary Yield Long-Grain trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
268	232L1268	3.0	97.0	90.0	48.2	66.2	37.9	10668.3	2140.1
74	232L1074	3.0	99.0	99.0	60.7	70.2	20.9	10539.9	1955.8
187	232L1187	3.0	97.0	90.0	52.4	68.2	31.7	10451.5	3060.3
297	CLL18	3.0	98.0	92.0	48.2	65.0	40.8	10288.6	2088.5
62	232L1062	3.0	97.0	99.0	59.0	68.9	23.5	10227.6	1835.7
75	232L1075	3.0	99.0	87.0	58.8	68.9	24.4	10221.1	3112.8
211	232L1211	3.0	93.0	86.0	62.2	70.8	25.0	10162.5	2485.0
131	232L1131	3.0	95.0	94.0	63.2	71.7	22.5	10160.5	2500.9
61	232L1061	3.0	96.0	104.0	53.3	67.9	31.4	10154.5	1656.6
259	232L1259	5.0	95.0	104.0	51.3	67.8	60.0	10149.7	2810.0
218	232L1218	3.0	95.0	95.0	61.9	70.2	31.4	10149.0	2832.7
224	232L1224	3.0	94.0	93.0	62.6	70.4	21.6	10145.3	3903.1
244	232L1244	3.0	97.0	98.0	59.3	68.6	31.0	10112.0	1570.1
119	232L1119	3.0	97.0	99.0	52.5	67.5	31.9	10091.8	2161.2
148	232L1148	3.0	96.0	97.0	61.2	69.3	38.7	10074.5	2979.9
176	232L1176	3.0	94.0	105.0	44.8	68.9	32.4	10024.8	1724.9
233	232L1233	3.0	96.0	95.0	60.2	70.5	33.7	10020.3	2653.5
71	232L1071	3.0	97.0	93.0	61.3	69.7	25.3	9968.3	3115.3
246	232L1246	3.0	97.0	100.0	63.3	71.3	24.8	9935.9	1681.4
78	232L1078	3.0	99.0	103.0	57.9	67.2	25.0	9935.3	2199.5
210	232L1210	3.0	96.0	86.0	58.3	69.0	23.3	9927.7	3653.0
194	232L1194	3.0	97.0	103.0	50.8	66.7	20.5	9915.9	3260.8
271	232L1271	3.0	95.0	101.0	40.2	65.8	45.5	9910.5	3051.1
225	232L1225	3.0	94.0	77.0	61.0	69.6	22.8	9893.6	4057.0
73	232L1073	3.0	97.0	96.0	59.2	69.9	32.0	9878.0	2007.3
293	232A1293	3.0	97.0	102.0	66.9	72.2	16.2	9855.6	3551.9
260	232L1260	3.0	97.0	98.0	54.7	67.4	39.3	9826.3	2913.8
47	232L1047	3.0	95.0	93.0	60.5	69.7	20.9	9824.4	2911.3
240	232L1240	3.0	95.0	102.0	62.5	70.3	28.6	9814.2	3226.7
43	232L1043	3.0	99.0	96.0	58.7	68.9	19.9	9803.1	3473.0
294	232L1294	3.0	96.0	95.0	58.1	67.7	28.5	9763.0	3610.3
299	CLL17	1.0	98.0	97.0	59.8	68.1	30.5	9761.8	1717.3
295	232L1295	3.0	101.0	91.0	64.8	70.3	24.6	9749.7	2258.0
215	232L1215	3.0	92.0	96.0	60.8	70.6	31.8	9745.8	2235.8
41	232L1041	3.0	97.0	96.0	61.4	68.9	22.9	9733.4	3375.7
161	232L1161	3.0	95.0	96.0	54.7	69.4	31.7	9721.7	3156.9
159	232L1159	3.0	96.0	97.0	56.7	69.6	27.4	9707.4	2932.5
101	232L1101	3.0	97.0	94.0	58.9	68.9	20.2	9705.3	3488.6
219	232L1219	3.0	96.0	90.0	61.0	69.8	27.4	9670.1	3332.5
254	232L1254	3.0	95.0	94.0	64.5	71.0	32.0	9642.6	2041.1
32	232L1032	3.0	96.0	98.0	53.7	70.3	25.6	9634.1	4017.1

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
127	232L1127	3.0	97.0	96.0	62.4	68.9	21.3	9630.6	3814.7
91	232L1091	3.0	96.0	91.0	60.7	70.3	17.4	9617.5	3391.8
33	232L1033	3.0	97.0	100.0	60.2	68.3	29.6	9615.3	976.9
49	232L1049	3.0	97.0	98.0	53.6	68.9	30.3	9593.7	2232.3
94	232L1094	3.0	97.0	88.0	63.8	70.9	18.2	9590.2	3101.5
34	232L1034	3.0	96.0	96.0	55.5	68.9	26.5	9589.2	2409.4
93	232L1093	3.0	94.0	82.0	55.7	68.1	26.6	9579.2	2980.0
217	232L1217	1.0	96.0	90.0	62.5	71.1	33.0	9574.0	1785.1
235	232L1235	3.0	96.0	105.0	57.7	71.0	22.0	9560.1	2961.9
102	232L1102	3.0	97.0	92.0	60.2	68.3	20.8	9559.5	2615.7
125	232L1125	3.0	96.0	101.0	59.7	68.1	20.6	9541.1	3032.9
1	232L1001	3.0	95.0	101.0	58.1	70.4	18.6	9535.9	3903.5
72	232L1072	3.0	98.0	90.0	64.2	65.7	21.2	9529.4	2706.2
37	232L1037	3.0	96.0	101.0	60.0	71.1	31.4	9528.0	1918.1
145	232L1145	3.0	97.0	90.0	61.9	70.4	31.2	9519.7	2980.0
242	232L1242	3.0	95.0	92.0	57.7	69.2	32.7	9498.7	1338.2
226	232L1226	3.0	97.0	87.0	58.9	68.4	26.3	9498.6	3698.8
234	232L1234	3.0	97.0	96.0	61.1	69.9	31.4	9484.6	3340.4
296	CLL19	3.0	96.0	82.0	51.3	67.0	29.7	9483.6	2030.1
65	232L1065	3.0	98.0	103.0	58.1	68.3	26.1	9481.6	1704.8
17	232A1017	5.0	99.0	91.0	66.1	70.9	14.6	9479.3	2611.9
278	232L1278	5.0	100.0	97.0	57.5	66.9	18.7	9472.4	2903.9
36	232L1036	3.0	100.0	101.0	58.1	67.9	24.4	9468.9	2558.2
190	232L1190	3.0	100.0	90.0	59.6	69.0	17.6	9468.1	3519.3
223	232L1223	5.0	96.0	90.0	61.8	70.2	27.4	9467.1	1496.7
228	232L1228	3.0	97.0	89.0	58.9	67.3	23.4	9460.3	2284.2
12	232A1012	3.0	96.0	98.0	64.5	72.2	22.9	9457.9	2549.2
112	232L1112	3.0	99.0	100.0	59.3	68.6	13.6	9453.1	4241.4
221	232L1221	3.0	96.0	76.0	60.9	69.5	28.5	9448.8	3202.5
220	232L1220	3.0	96.0	80.0	57.7	68.7	25.5	9443.6	2420.8
89	232L1089	5.0	96.0	95.0	56.8	68.6	23.8	9438.4	2302.2
214	232L1214	3.0	95.0	90.0	55.9	69.7	27.2	9437.8	3104.5
170	232L1170	3.0	99.0	98.0	61.1	69.0	18.4	9423.0	3389.6
209	232L1209	3.0	96.0	89.0	62.3	70.5	23.5	9414.5	3533.1
123	232L1123	3.0	97.0	100.0	62.5	70.1	23.9	9395.9	2294.3
90	232L1090	5.0	92.0	83.0	57.2	68.9	26.4	9395.7	2565.8
287	232L1287	3.0	93.0	89.0	54.6	68.4	40.3	9369.9	2195.7
181	232L1181	3.0	97.0	92.0	54.4	67.7	28.3	9367.7	3458.0
229	232L1229	3.0	99.0	91.0	61.1	69.0	24.2	9361.8	2098.9
265	232L1265	3.0	94.0	95.0	35.7	64.4	39.6	9355.8	2693.4
58	232L1058	3.0	96.0	98.0	55.2	68.6	31.2	9354.6	2882.7
118	232L1118	3.0	97.0	98.0	59.7	69.0	22.9	9346.2	2559.0

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
44	232L1044	5.0	96.0	95.0	57.0	68.4	27.7	9343.3	3460.8
163	232L1163	3.0	97.0	95.0	68.7	75.7	32.0	9341.4	1485.0
64	232L1064	1.0	96.0	93.0	63.7	71.5	24.0	9309.9	2384.4
86	232L1086	3.0	97.0	87.0	55.9	68.8	21.6	9302.5	3121.5
83	232L1083	3.0	97.0	90.0	59.9	69.0	29.2	9298.2	1607.9
185	232L1185	5.0	98.0	89.0	58.5	68.7	25.8	9296.1	1533.8
85	232L1085	5.0	99.0	89.0	60.6	69.2	26.3	9293.9	1883.0
183	232L1183	3.0	96.0	95.0	58.8	69.6	21.2	9286.0	2953.1
50	232L1050	3.0	97.0	103.0	58.9	69.6	30.3	9281.1	2153.8
200	232L1200	3.0	97.0	90.0	54.8	68.3	23.2	9277.8	4009.9
95	232L1095	3.0	96.0	88.0	60.2	69.7	28.2	9276.9	2202.4
213	232L1213	3.0	96.0	85.0	61.8	69.7	25.6	9263.2	2992.3
171	232L1171	3.0	99.0	97.0	58.3	67.7	13.2	9259.5	3161.4
192	232L1192	3.0	98.0	95.0	54.0	69.7	20.5	9257.2	3420.9
84	232L1084	3.0	99.0	89.0	62.3	63.1	28.8	9235.4	2037.4
27	232L1027	3.0	98.0	95.0	51.0	68.3	43.6	9230.6	2001.3
59	232L1059	3.0	96.0	82.0	61.1	70.2	33.5	9226.8	2787.3
262	232L1262	3.0	98.0	84.0	53.7	66.7	32.8	9217.6	2918.7
26	232L1026	3.0	96.0	100.0	56.6	68.7	23.0	9209.9	1989.6
279	232L1279	3.0	98.0	100.0	59.1	69.5	31.6	9207.4	3927.3
77	232L1077	3.0	101.0	106.0	62.1	69.0	23.8	9207.4	906.6
251	232L1251	3.0	95.0	90.0	61.0	70.1	21.0	9203.0	2952.1
207	232L1207	3.0	96.0	90.0	61.0	70.4	29.0	9201.9	2149.6
67	232L1067	3.0	99.0	96.0	60.3	68.3	24.0	9187.7	1100.9
135	232L1135	3.0	97.0	97.0	60.5	70.3	29.3	9186.5	3203.6
172	232L1172	3.0	97.0	95.0	51.9	67.1	37.2	9185.1	3679.3
150	232L1150	3.0	99.0	95.0	61.5	69.5	23.7	9182.8	1973.7
81	232L1081	3.0	97.0	96.0	55.6	67.2	29.4	9181.0	727.4
68	232L1068	3.0	98.0	94.0	60.7	68.8	23.8	9165.5	1163.2
298	CLL16	3.0	104.0	103.0	48.8	64.2	23.6	9160.7	1255.2
128	232L1128	3.0	99.0	100.0	61.8	70.8	24.1	9155.2	1067.9
186	232L1186	3.0	98.0	105.0	56.4	67.6	26.6	9151.4	3054.8
31	232L1031	1.0	97.0	87.0	56.9	69.0	24.3	9147.8	2479.3
132	232L1132	3.0	95.0	101.0	59.7	70.4	35.6	9142.8	2614.1
16	232A1016	3.0	97.0	96.0	66.2	71.2	20.1	9125.7	4062.1
164	232L1164	3.0	96.0	100.0	62.1	69.6	35.7	9118.3	1072.3
270	232L1270	3.0	95.0	100.0	51.5	67.9	31.9	9112.7	3375.6
184	232L1184	3.0	98.0	81.0	60.6	70.2	37.8	9111.1	2165.6
243	232L1243	3.0	95.0	93.0	60.5	69.4	26.9	9101.0	2671.4
256	232L1256	3.0	96.0	87.0	60.4	69.5	27.7	9097.5	3170.6
167	232L1167	3.0	98.0	96.0	61.1	69.3	27.3	9090.7	2837.0
283	232L1283	3.0	97.0	101.0	59.8	69.3	29.1	9069.4	1955.2

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
227	232L1227	3.0	97.0	75.0	57.9	68.9	18.0	9057.4	3337.4
97	232L1097	5.0	97.0	97.0	60.3	69.5	29.9	9055.6	2819.2
96	232L1096	3.0	93.0	83.0	58.4	68.8	23.6	9055.1	2842.7
111	232L1111	3.0	99.0	96.0	57.8	68.9	11.4	9054.8	2873.1
252	232L1252	3.0	94.0	95.0	55.4	69.1	22.8	9049.8	1733.2
149	232L1149	3.0	99.0	93.0	60.9	70.8	27.5	9049.1	3124.4
87	232L1087	5.0	97.0	89.0	55.3	67.9	25.2	9048.7	2078.4
69	232L1069	3.0	97.0	90.0	56.3	67.8	23.6	9045.7	2997.7
100	232L1100	5.0	97.0	90.0	64.6	71.1	22.4	9043.3	2705.5
282	232L1282	3.0	97.0	88.0	49.9	68.2	40.0	9040.0	1854.8
250	232L1250	3.0	97.0	102.0	60.5	70.4	25.6	9035.0	2806.5
79	232L1079	5.0	96.0	92.0	60.5	69.2	24.5	9023.0	2757.7
203	232L1203	3.0	94.0	89.0	46.2	65.1	27.9	9019.2	2482.2
57	232L1057	3.0	97.0	99.0	58.6	68.3	23.2	9006.9	2367.5
45	232L1045	3.0	97.0	100.0	63.3	71.7	29.5	9004.2	2254.4
267	232L1267	3.0	97.0	93.0	57.1	68.6	30.9	9000.0	3995.2
136	232L1136	3.0	95.0	96.0	58.3	69.1	26.9	8999.0	3734.5
133	232L1133	3.0	97.0	92.0	61.2	68.6	24.0	8989.9	2912.9
39	232L1039	3.0	99.0	93.0	57.9	68.3	26.3	8988.5	2857.3
236	232L1236	3.0	99.0	93.0	59.7	69.4	18.8	8988.0	1504.3
60	232L1060	3.0	97.0	93.0	60.1	70.9	26.2	8987.5	3635.3
66	232L1066	3.0	98.0	95.0	59.5	69.0	17.2	8987.3	1118.2
232	232L1232	3.0	96.0	95.0	60.7	69.9	32.9	8975.8	2266.8
25	232L1025	3.0	100.0	96.0	58.8	69.1	18.6	8956.6	4245.3
208	232L1208	3.0	92.0	89.0	59.3	69.8	24.4	8938.9	3417.0
110	232L1110	3.0	98.0	96.0	62.4	69.9	14.3	8935.9	4145.1
98	232L1098	3.0	97.0	89.0	58.5	68.4	20.6	8928.6	3148.3
292	232A1292	3.0	96.0	93.0	65.5	71.3	16.8	8920.6	2939.6
237	232L1237	3.0	96.0	95.0	62.6	70.4	23.6	8917.6	3530.8
222	232L1222	3.0	94.0	82.0	64.5	71.3	23.5	8917.0	3301.5
38	232L1038	5.0	96.0	97.0	43.7	67.2	29.3	8908.0	2126.8
46	232L1046	3.0	96.0	92.0	56.4	70.6	31.5	8902.4	2717.4
24	232L1024	3.0	96.0	101.0	54.8	69.2	21.2	8891.4	2426.0
88	232L1088	3.0	97.0	88.0	57.2	68.3	24.9	8873.8	2356.6
245	232L1245	3.0	96.0	98.0	63.4	70.8	25.8	8872.0	3521.6
253	232L1253	3.0	96.0	91.0	60.4	68.9	29.9	8871.8	3525.9
124	232L1124	3.0	98.0	106.0	59.3	67.9	20.9	8871.3	2703.6
70	232L1070	3.0	99.0	88.0	59.8	68.8	26.9	8863.1	2803.0
277	232L1277	3.0	101.0	96.0	58.3	68.3	25.4	8854.5	3985.0
249	232L1249	3.0	98.0	100.0	61.2	69.6	25.5	8854.3	3053.0
141	232L1141	3.0	97.0	94.0	60.7	69.2	24.3	8834.0	3070.5
204	232L1204	3.0	97.0	83.0	53.9	66.6	28.2	8832.4	3219.4

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
274	232L1274	3.0	104.0	109.0	56.5	67.3	28.0	8827.2	3443.6
290	232L1290	3.0	97.0	103.0	56.2	69.2	32.0	8826.7	2961.7
288	232L1288	3.0	99.0	95.0	64.5	72.7	17.1	8826.3	3698.3
35	232L1035	3.0	99.0	97.0	61.5	68.9	21.1	8822.4	2316.5
115	232L1115	3.0	99.0	96.0	68.9	70.2	34.9	8809.7	666.9
261	232L1261	5.0	98.0	98.0	52.5	66.4	25.6	8809.0	2915.1
257	232L1257	3.0	96.0	95.0	57.2	68.6	33.1	8804.7	2852.8
199	232L1199	3.0	96.0	93.0	52.0	66.2	31.8	8801.0	2090.4
109	232L1109	3.0	95.0	96.0	54.3	68.6	29.2	8784.4	4101.7
80	232L1080	3.0	96.0	91.0	62.5	69.0	26.0	8775.3	4105.5
82	232L1082	3.0	97.0	90.0	62.4	70.9	21.3	8769.0	2457.9
300	CL153	3.0	99.0	86.0	59.7	68.6	19.6	8761.9	3036.8
134	232L1134	1.0	96.0	90.0	60.6	70.3	26.2	8753.3	3357.1
7	232A1007	3.0	97.0	95.0	66.9	71.8	9.7	8747.8	2306.7
121	232L1121	3.0	97.0	92.0	52.4	69.1	32.9	8739.7	3831.7
22	232A1022	3.0	97.0	90.0	64.1	71.3	21.7	8720.2	3574.2
137	232L1137	3.0	95.0	93.0	58.0	69.8	27.8	8713.0	2397.3
52	232L1052	3.0	97.0	92.0	50.9	68.0	28.9	8677.5	3156.9
216	232L1216	3.0	95.0	92.0	56.0	68.9	28.2	8668.1	2089.3
122	232L1122	3.0	97.0	99.0	61.8	69.9	28.0	8649.5	2030.5
151	232L1151	5.0	97.0	95.0	58.7	70.2	24.5	8642.4	2830.3
289	232L1289	3.0	97.0	95.0	56.5	70.0	22.8	8641.7	2719.1
291	232A1291	3.0	96.0	92.0	60.8	69.9	19.0	8637.7	2688.0
196	232L1196	3.0	97.0	89.0	53.2	69.1	21.0	8636.5	3694.2
284	232L1284	3.0	97.0	94.0	53.4	67.5	32.6	8636.5	2245.6
195	232L1195	3.0	96.0	89.0	53.2	69.1	27.3	8634.8	3179.0
280	232L1280	3.0	105.0	95.0	60.4	68.6	22.0	8626.7	3322.3
182	232L1182	3.0	100.0	84.0	60.4	67.2	19.2	8612.1	3149.9
189	232L1189	3.0	92.0	98.0	48.9	68.7	19.9	8610.0	3851.9
264	232L1264	3.0	97.0	96.0	60.2	68.6	21.2	8591.8	4076.1
212	232L1212	3.0	92.0	88.0	57.7	68.6	18.4	8589.2	2843.2
197	232L1197	3.0	99.0	81.0	55.0	64.7	20.7	8577.4	3222.5
206	232L1206	3.0	97.0	82.0	56.7	68.2	30.7	8576.9	2677.5
76	232L1076	5.0	102.0	92.0	62.1	68.7	15.0	8569.2	2789.8
5	232L1005	3.0	99.0	86.0	50.9	67.1	26.2	8556.8	4022.6
231	232L1231	3.0	99.0	89.0	62.3	71.1	15.9	8547.9	2324.1
120	232L1120	5.0	99.0	95.0	61.0	69.4	26.7	8545.8	2865.6
263	232L1263	3.0	99.0	96.0	61.9	69.2	23.7	8543.2	2911.5
155	232L1155	3.0	98.0	91.0	62.9	69.8	23.2	8535.7	2621.8
201	232L1201	3.0	97.0	100.0	48.4	68.2	15.2	8531.0	4447.6
56	232L1056	3.0	96.0	95.0	56.9	68.6	22.6	8510.1	3208.7
30	232L1030	3.0	95.0	83.0	59.2	69.0	27.7	8509.6	2683.9

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
158	232L1158	3.0	99.0	91.0	63.8	70.2	18.8	8460.1	2975.2
281	232L1281	3.0	100.0	99.0	56.1	67.9	20.6	8439.6	3073.1
143	232L1143	3.0	97.0	97.0	61.1	70.0	26.3	8439.2	2793.1
130	232L1130	3.0	97.0	82.0	59.7	69.7	30.1	8433.0	3041.8
193	232L1193	3.0	97.0	98.0	52.0	67.5	23.5	8419.3	3389.9
140	232L1140	3.0	98.0	95.0	62.0	68.1	29.2	8415.9	4365.2
10	232A1010	5.0	104.0	92.0	59.0	68.3	26.9	8411.5	558.5
276	232L1276	3.0	104.0	104.0	53.7	66.4	20.3	8406.4	3512.0
153	232L1153	5.0	100.0	96.0	56.6	69.1	11.7	8374.1	3128.0
156	232L1156	3.0	100.0	103.0	62.4	69.4	15.5	8369.5	2405.7
188	232L1188	3.0	97.0	90.0	57.1	67.4	21.9	8350.8	1907.2
165	232L1165	3.0	97.0	98.0	61.0	69.1	17.2	8346.6	2975.4
162	232L1162	5.0	98.0	90.0	57.8	68.4	38.0	8331.2	2486.1
191	232L1191	3.0	97.0	97.0	55.2	68.2	21.9	8329.7	3471.1
13	232A1013	5.0	95.0	102.0	65.4	71.0	20.7	8327.3	3004.1
166	232L1166	3.0	96.0	96.0	49.5	67.4	38.7	8312.3	3171.6
55	232L1055	3.0	97.0	96.0	61.6	69.9	22.9	8311.1	3433.5
117	232L1117	3.0	97.0	95.0	62.8	71.5	27.6	8306.7	2519.2
157	232L1157	3.0	100.0	91.0	66.1	72.3	20.7	8294.4	2955.7
116	232L1116	5.0	97.0	95.0	60.0	69.3	29.0	8288.7	3109.1
92	232L1092	3.0	97.0	102.0	55.4	67.6	33.3	8284.5	2085.9
54	232L1054	3.0	97.0	96.0	51.0	68.3	19.7	8278.9	3884.1
19	232A1019	3.0	98.0	92.0	65.3	71.9	20.9	8271.6	2830.0
40	232L1040	3.0	98.0	99.0	59.7	68.7	16.5	8265.1	3976.2
3	232L1003	3.0	97.0	91.0	52.8	65.5	46.5	8243.4	3336.4
11	232A1011	3.0	98.0	95.0	64.5	70.8	14.2	8239.6	3756.7
48	232L1048	3.0	95.0	93.0	56.0	68.4	22.0	8238.5	2912.6
174	232L1174	3.0	100.0	95.0	62.6	70.5	24.9	8231.9	2631.6
105	232L1105	3.0	97.0	87.0	60.6	68.8	29.6	8222.8	3709.8
108	232L1108	3.0	99.0	91.0	61.6	69.3	27.5	8219.5	3763.3
179	232L1179	3.0	98.0	100.0	62.0	69.9	23.8	8207.5	3385.7
272	232L1272	3.0	96.0	95.0	54.5	67.6	43.0	8199.7	3660.3
146	232L1146	3.0	99.0	90.0	65.2	71.3	31.0	8188.5	3930.2
144	232L1144	3.0	99.0	97.0	65.4	71.7	21.4	8187.5	2694.2
168	232L1168	3.0	100.0	94.0	61.1	69.7	18.6	8170.6	1889.8
198	232L1198	3.0	99.0	80.0	54.7	67.3	30.7	8169.5	3573.1
169	232L1169	3.0	98.0	90.0	59.9	69.9	21.5	8152.6	2970.8
241	232L1241	3.0	96.0	88.0	62.0	69.3	20.4	8147.3	2958.3
103	232L1103	3.0	95.0	79.0	57.8	69.5	23.8	8130.6	3466.8
285	232L1285	3.0	99.0	83.0	51.6	66.7	50.4	8114.0	2303.8
147	232L1147	3.0	99.0	94.0	60.6	70.1	37.3	8105.3	2615.9
28	232L1028	3.0	92.0	83.0	51.4	68.9	21.3	8092.1	2662.3

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
258	232L1258	3.0	98.0	101.0	60.4	69.2	18.0	8072.1	4229.8
51	232L1051	3.0	100.0	95.0	66.7	71.9	19.5	8064.2	2865.9
126	232L1126	3.0	98.0	98.0	61.7	68.1	19.5	8051.3	2890.6
152	232L1152	3.0	100.0	91.0	62.7	70.3	23.6	8034.3	3067.9
99	232L1099	3.0	97.0	89.0	61.8	69.6	24.2	8030.6	3248.8
6	232L1006	3.0	99.0	94.0	56.9	69.4	30.3	7972.7	3368.7
4	232L1004	3.0	99.0	93.0	61.9	70.1	21.8	7952.3	3207.2
230	232L1230	3.0	98.0	94.0	64.6	71.9	17.1	7946.1	4099.2
142	232L1142	3.0	98.0	92.0	56.8	65.9	24.3	7906.9	3467.6
239	232L1239	3.0	97.0	86.0	63.6	71.5	21.2	7900.9	3253.6
154	232L1154	3.0	101.0	92.0	62.7	70.7	16.9	7892.4	3136.0
139	232L1139	3.0	104.0	90.0	61.1	68.7	21.5	7841.5	3997.7
180	232L1180	3.0	95.0	88.0	62.7	70.7	16.5	7825.6	3994.2
107	232L1107	3.0	100.0	88.0	61.4	68.2	23.5	7824.9	3534.6
114	232L1114	3.0	97.0	92.0	55.7	67.8	21.4	7819.1	3572.4
129	232L1129	3.0	97.0	93.0	58.0	69.2	14.9	7805.6	3342.3
286	232L1286	3.0	97.0	87.0	58.0	70.0	35.6	7766.1	2531.7
175	232L1175	3.0	98.0	89.0	56.2	69.5	32.6	7741.5	2107.5
248	232L1248	3.0	99.0	94.0	60.7	68.4	28.6	7735.3	2506.9
202	232L1202	3.0	100.0	76.0	59.9	68.0	22.2	7726.0	3833.4
2	232L1002	3.0	97.0	91.0	54.2	68.3	25.3	7723.9	3009.3
177	232L1177	3.0	97.0	97.0	58.1	68.6	27.3	7707.2	3156.7
63	232L1063	3.0	99.0	95.0	50.5	66.3	39.3	7692.0	3035.6
138	232L1138	3.0	103.0	97.0	59.2	66.8	29.7	7625.1	3260.6
275	232L1275	3.0	100.0	93.0	58.3	67.9	19.1	7621.8	3694.6
113	232L1113	3.0	97.0	95.0	56.0	67.2	28.4	7594.8	2704.7
269	232L1269	3.0	100.0	86.0	56.9	66.6	27.7	7530.0	3288.8
205	232L1205	5.0	100.0	75.0	62.4	69.3	18.4	7508.6	3795.6
15	232A1015	3.0	100.0	84.0	65.8	70.4	20.2	7471.4	2985.2
20	232A1020	3.0	97.0	94.0	64.6	70.7	14.7	7457.8	3039.2
266	232L1266	5.0	99.0	92.0	62.1	69.8	24.1	7441.0	3223.8
273	232L1273	3.0	101.0	99.0	58.8	68.5	23.2	7431.5	3291.0
173	232L1173	3.0	99.0	98.0	59.5	68.9	27.3	7365.5	2202.4
104	232L1104	5.0	100.0	84.0	61.6	68.7	22.4	7315.4	2901.4
106	232L1106	3.0	97.0	83.0	53.9	66.3	19.9	7305.5	2196.7
255	232L1255	3.0	99.0	88.0	59.4	69.1	20.7	7242.8	2927.0
9	232A1009	5.0	99.0	96.0	65.5	70.7	16.7	7219.0	3832.5
238	232L1238	3.0	99.0	95.0	63.3	69.6	22.6	7071.9	3446.1
42	232L1042	5.0	99.0	96.0	63.2	69.1	16.0	7012.2	3379.2
8	232A1008	5.0	98.0	94.0	67.5	71.5	11.8	6989.4	4157.8
21	232A1021	3.0	98.0	95.0	66.6	72.8	14.0	6958.4	2278.7
23	232A1023	5.0	99.0	95.0	64.2	70.4	15.5	6871.3	3130.7

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
53	232L1053	5.0	102.0	93.0	63.1	69.5	23.2	6854.1	2993.6
29	232L1029	3.0	95.0	83.0	51.4	69.9	36.4	6830.8	1721.0
178	232L1178	3.0	98.0	95.0	57.8	66.8	22.3	6672.0	2926.4
160	232L1160	3.0	97.0	89.0	60.8	68.8	27.7	6528.1	2546.7
18	232A1018	5.0	99.0	85.0	62.8	70.7	10.6	6447.7	3741.9
14	232A1014	3.0	98.0	93.0	61.4	68.9	10.1	6120.7	3230.6
247	232L1247	3.0	100.0	86.0	64.3	70.6	18.2	4142.5	2399.6

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

Table 4. Grain and milling yields and agronomic performance of entries in the 2023 Clearfield Preliminary Yield Long-Grain trial – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
242	232L1242	-	68.0	96.0	63.8	70.0	22.4	9943.7	2795.8
194	232L1194	-	74.0	105.0	61.2	70.3	20.9	9773.3	3105.6
297	CLL18	-	74.0	97.0	58.8	69.2	35.4	9650.9	1965.1
215	232L1215	-	67.0	100.0	62.8	69.4	22.3	9463.1	2423.8
217	232L1217	-	69.0	94.0	64.3	70.2	24.9	9458.1	2376.3
163	232L1163	-	73.0	90.0	63.5	69.7	25.1	9254.7	2922.2
213	232L1213	-	71.0	92.0	68.2	72.9	21.1	9135.1	4018.4
245	232L1245	-	71.0	108.0	65.6	71.1	21.9	9065.9	3134.5
221	232L1221	-	71.0	98.0	67.8	73.4	24.2	9033.0	3252.0
34	232L1034	-	71.0	102.0	62.6	69.9	19.0	8841.5	3345.1
244	232L1244	-	71.0	104.0	62.0	69.8	26.7	8832.8	2630.3
210	232L1210	-	71.0	84.0	63.5	70.1	19.6	8785.4	3786.2
167	232L1167	-	74.0	99.0	65.0	71.0	18.9	8711.6	2974.2
65	232L1065	-	72.0	89.0	63.3	70.8	23.4	8694.4	2634.0
252	232L1252	-	69.0	99.0	63.1	72.2	20.3	8633.3	3034.8
135	232L1135	-	71.0	94.0	65.5	71.2	27.9	8620.0	2666.2
74	232L1074	-	72.0	90.0	58.3	68.4	17.1	8603.1	2861.7
73	232L1073	-	71.0	96.0	62.0	69.8	26.5	8600.3	2924.3
233	232L1233	-	68.0	100.0	63.5	70.6	29.8	8584.3	3755.0
189	232L1189	-	67.0	108.0	65.3	72.0	25.1	8570.0	4181.8
132	232L1132	-	71.0	101.0	63.2	69.7	25.5	8551.7	2341.5
77	232L1077	-	75.0	106.0	61.8	68.1	21.3	8535.9	1359.6
112	232L1112	-	74.0	103.0	61.1	69.9	10.7	8514.3	3625.3
39	232L1039	-	74.0	96.0	68.4	74.2	24.9	8498.8	3418.5
214	232L1214	-	68.0	95.0	64.0	70.0	20.0	8485.2	3735.6
35	232L1035	-	73.0	91.0	64.8	69.9	15.9	8467.9	2124.8
298	CLL16	-	80.0	107.0	51.9	65.0	28.7	8454.9	1101.2
278	232L1278	-	79.0	105.0	57.8	67.0	20.2	8451.0	2112.1
211	232L1211	-	70.0	96.0	65.0	70.3	18.8	8426.9	3506.1
283	232L1283	-	74.0	104.0	61.1	68.6	19.9	8416.6	3455.2
279	232L1279	-	79.0	108.0	56.3	67.0	23.4	8415.9	1797.6
259	232L1259	-	67.0	104.0	58.8	68.7	48.1	8406.4	4291.1
268	232L1268	-	71.0	93.0	56.4	66.9	27.0	8366.4	3718.5
75	232L1075	-	74.0	83.0	63.0	68.9	14.6	8360.0	3432.0
239	232L1239	-	71.0	104.0	62.7	69.1	18.5	8337.0	3878.5
195	232L1195	-	70.0	88.0	66.0	72.4	23.3	8336.2	3665.9
220	232L1220	-	69.0	88.0	65.3	70.7	18.1	8292.3	3187.9
144	232L1144	-	74.0	103.0	65.7	70.9	18.3	8288.4	3170.1
295	232L1295	-	74.0	100.0	64.0	69.2	19.7	8275.4	2439.5
191	232L1191	-	70.0	90.0	61.6	69.8	21.6	8266.0	3201.4
187	232L1187	-	72.0	99.0	59.4	67.9	21.4	8258.3	3973.0

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
184	232L1184	-	72.0	91.0	62.7	69.5	29.2	8258.1	2352.7
182	232L1182	-	75.0	92.0	60.7	68.1	20.1	8233.4	2926.3
240	232L1240	-	69.0	93.0	66.0	71.2	21.4	8198.5	3496.4
208	232L1208	-	69.0	88.0	62.1	69.0	18.5	8194.3	3727.2
223	232L1223	-	68.0	90.0	67.5	72.6	27.0	8193.9	2948.5
235	232L1235	-	71.0	94.0	60.8	68.4	13.6	8193.9	3679.5
101	232L1101	-	70.0	96.0	64.7	71.0	20.7	8191.9	2883.4
32	232L1032	-	69.0	93.0	63.6	70.7	23.2	8149.7	4487.8
69	232L1069	-	74.0	100.0	62.5	68.1	18.2	8146.7	3361.0
171	232L1171	-	74.0	93.0	64.6	71.4	17.4	8133.8	3103.7
70	232L1070	-	74.0	97.0	63.8	69.8	21.8	8105.1	3179.5
43	232L1043	-	69.0	105.0	61.7	68.2	15.2	8084.6	3264.7
218	232L1218	-	67.0	91.0	62.5	69.5	21.1	8047.1	3058.9
159	232L1159	-	68.0	90.0	61.7	70.3	24.0	8045.4	4893.7
119	232L1119	-	71.0	110.0	58.6	67.9	21.3	8044.3	3492.2
192	232L1192	-	71.0	103.0	59.1	70.3	25.7	8036.9	3144.6
36	232L1036	-	72.0	104.0	61.2	68.4	25.3	8024.3	3996.5
111	232L1111	-	76.0	94.0	56.7	68.3	16.6	8007.4	2884.9
258	232L1258	-	74.0	106.0	65.7	70.6	21.5	8006.0	3705.2
95	232L1095	-	69.0	95.0	62.4	69.7	21.2	7995.0	2652.6
96	232L1096	-	69.0	105.0	63.0	69.1	19.9	7981.3	3379.5
56	232L1056	-	70.0	99.0	61.5	70.4	21.8	7970.4	4223.2
33	232L1033	-	71.0	97.0	59.4	68.5	26.2	7967.3	2436.5
207	232L1207	-	68.0	94.0	62.5	69.5	14.9	7961.4	3666.3
37	232L1037	-	69.0	102.0	66.4	72.0	24.4	7954.1	3781.4
58	232L1058	-	71.0	103.0	62.0	68.8	23.6	7931.4	3964.2
49	232L1049	-	72.0	101.0	61.6	68.5	20.4	7920.6	2603.4
81	232L1081	-	71.0	107.0	56.8	67.2	24.9	7914.2	2411.9
201	232L1201	-	71.0	104.0	61.2	70.7	16.5	7905.6	4159.7
186	232L1186	-	71.0	105.0	60.8	70.5	32.6	7904.2	3366.8
131	232L1131	-	68.0	89.0	63.9	69.7	17.2	7902.2	3993.6
22	232A1022	-	71.0	105.0	65.9	72.6	19.9	7897.1	4777.7
150	232L1150	-	74.0	96.0	64.1	70.7	23.8	7891.2	3362.9
226	232L1226	-	72.0	93.0	58.8	67.4	23.1	7867.1	2568.9
185	232L1185	-	72.0	94.0	58.1	68.0	21.6	7860.6	2742.1
164	232L1164	-	68.0	104.0	61.0	68.8	22.5	7857.8	2355.5
225	232L1225	-	69.0	85.0	63.6	68.6	12.6	7854.2	3862.9
237	232L1237	-	71.0	95.0	63.9	69.4	15.7	7854.2	3933.4
183	232L1183	-	72.0	97.0	61.2	69.5	14.5	7847.9	2801.2
173	232L1173	-	74.0	98.0	60.0	67.5	17.8	7847.6	3508.3
41	232L1041	-	74.0	96.0	62.6	68.6	20.6	7841.9	3536.4
12	232A1012	-	71.0	95.0	65.3	73.1	14.7	7838.5	1922.6

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
248	232L1248	-	72.0	89.0	62.4	68.8	22.4	7831.0	3571.9
232	232L1232	-	71.0	98.0	65.0	72.4	30.4	7825.9	3060.3
76	232L1076	-	74.0	92.0	65.2	71.4	14.7	7825.3	3289.3
128	232L1128	-	72.0	97.0	62.2	69.6	19.9	7816.2	2352.5
243	232L1243	-	70.0	102.0	63.8	69.6	22.5	7814.1	2394.9
97	232L1097	-	68.0	93.0	65.0	71.9	22.4	7811.9	2888.0
166	232L1166	-	71.0	97.0	57.8	67.3	28.8	7810.0	3453.6
251	232L1251	-	71.0	99.0	66.4	72.5	14.4	7800.2	4179.9
161	232L1161	-	69.0	93.0	61.0	68.6	25.1	7791.2	3546.9
31	232L1031	-	71.0	99.0	61.1	69.1	20.1	7788.4	3816.6
157	232L1157	-	78.0	97.0	67.6	73.0	14.3	7777.6	2509.6
236	232L1236	-	74.0	91.0	61.8	69.1	15.7	7757.1	2442.7
17	232A1017	-	74.0	92.0	64.3	68.6	9.2	7747.7	3178.5
261	232L1261	-	75.0	100.0	54.9	67.6	27.0	7745.7	2177.1
61	232L1061	-	69.0	104.0	60.1	67.6	23.0	7744.0	3739.0
193	232L1193	-	67.0	94.0	63.7	70.8	26.0	7732.2	3352.4
246	232L1246	-	72.0	91.0	63.8	70.3	17.0	7731.4	3863.3
66	232L1066	-	72.0	97.0	63.2	70.9	14.6	7728.5	3467.0
42	232L1042	-	73.0	103.0	65.9	70.8	18.1	7719.1	3746.7
219	232L1219	-	69.0	96.0	64.2	69.4	15.2	7713.3	4902.2
44	232L1044	-	71.0	101.0	59.6	68.8	23.0	7710.1	3904.5
123	232L1123	-	71.0	97.0	64.2	70.7	23.9	7700.2	3149.8
145	232L1145	-	72.0	92.0	63.3	69.8	23.3	7694.5	3525.9
290	232L1290	-	72.0	107.0	60.1	68.5	24.9	7681.0	3611.0
216	232L1216	-	67.0	94.0	63.2	69.6	19.6	7680.4	2902.2
147	232L1147	-	73.0	102.0	58.3	69.6	28.5	7666.6	3233.8
4	232L1004	-	78.0	96.0	62.1	68.4	18.6	7664.2	2552.6
174	232L1174	-	79.0	102.0	62.5	68.8	20.5	7664.2	2797.8
93	232L1093	-	68.0	94.0	64.3	70.4	22.5	7657.2	3102.1
67	232L1067	-	72.0	90.0	62.1	70.5	21.2	7643.0	3249.4
154	232L1154	-	76.0	93.0	61.1	70.7	12.8	7641.1	2050.4
271	232L1271	-	68.0	102.0	50.7	68.0	44.5	7639.3	3341.3
153	232L1153	-	75.0	107.0	60.9	71.0	12.2	7635.5	3158.2
203	232L1203	-	71.0	93.0	59.3	69.2	21.6	7632.6	3708.4
254	232L1254	-	68.0	97.0	63.5	68.9	20.6	7631.5	4107.9
118	232L1118	-	71.0	95.0	63.0	69.3	12.9	7617.2	4133.0
84	232L1084	-	72.0	93.0	63.2	68.4	17.2	7617.1	3447.1
228	232L1228	-	74.0	91.0	62.1	69.1	18.6	7604.2	2454.1
170	232L1170	-	75.0	95.0	63.0	69.9	17.6	7594.9	2543.7
169	232L1169	-	72.0	104.0	62.1	69.5	13.3	7589.1	3755.5
83	232L1083	-	71.0	92.0	63.1	68.6	17.5	7588.7	4043.4
263	232L1263	-	78.0	106.0	62.0	69.6	29.3	7581.0	2220.7

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
116	232L1116	-	74.0	100.0	63.8	68.8	24.9	7579.5	4260.9
125	232L1125	-	70.0	100.0	62.1	68.9	19.8	7572.8	2594.1
134	232L1134	-	70.0	92.0	67.3	71.6	19.8	7570.9	4868.7
156	232L1156	-	74.0	98.0	63.1	69.8	16.8	7569.6	2706.2
40	232L1040	-	72.0	104.0	59.9	68.4	15.6	7569.3	3550.0
143	232L1143	-	71.0	95.0	67.3	71.8	23.9	7567.4	3408.4
222	232L1222	-	69.0	93.0	61.8	68.8	19.8	7565.6	3779.5
234	232L1234	-	71.0	90.0	60.3	68.2	20.9	7562.4	3277.3
103	232L1103	-	70.0	91.0	69.5	74.7	22.9	7554.7	2672.9
47	232L1047	-	67.0	102.0	64.7	72.3	24.5	7548.6	3904.0
287	232L1287	-	71.0	86.0	60.2	69.2	20.4	7548.6	3613.1
300	CL153	-	74.0	105.0	60.2	68.4	12.7	7543.9	4436.0
90	232L1090	-	69.0	93.0	61.2	69.0	18.3	7538.9	3718.4
296	CLL19	-	70.0	90.0	58.7	67.4	16.8	7508.7	4146.6
85	232L1085	-	69.0	93.0	62.4	69.5	18.8	7497.2	3528.4
3	232L1003	-	76.0	101.0	59.3	66.9	32.1	7487.2	3532.7
200	232L1200	-	68.0	101.0	58.4	68.2	22.5	7481.1	3402.6
151	232L1151	-	71.0	97.0	67.4	72.0	19.5	7478.0	3692.1
288	232L1288	-	72.0	102.0	64.4	70.8	15.1	7477.7	3198.3
238	232L1238	-	76.0	108.0	60.7	72.3	20.7	7471.9	3897.0
71	232L1071	-	73.0	95.0	63.7	69.5	18.7	7466.2	4318.0
72	232L1072	-	74.0	95.0	66.5	71.4	19.7	7466.2	4049.3
142	232L1142	-	76.0	88.0	61.6	68.8	29.6	7460.5	3213.7
227	232L1227	-	73.0	76.0	61.2	70.3	18.2	7450.0	2103.9
280	232L1280	-	82.0	99.0	58.6	69.4	33.2	7449.4	1207.5
294	232L1294	-	69.0	92.0	60.4	68.2	23.9	7423.5	3268.4
45	232L1045	-	67.0	96.0	63.5	70.8	22.3	7400.1	3246.2
99	232L1099	-	70.0	102.0	63.7	70.5	19.1	7400.0	2813.4
168	232L1168	-	76.0	103.0	62.4	70.0	14.6	7398.2	1498.7
100	232L1100	-	68.0	84.0	62.1	68.4	14.8	7381.1	3230.5
51	232L1051	-	78.0	100.0	64.9	69.4	17.7	7375.8	2848.8
88	232L1088	-	71.0	93.0	62.5	68.2	16.3	7373.9	3003.5
140	232L1140	-	74.0	95.0	64.5	69.5	29.4	7369.2	3526.0
130	232L1130	-	71.0	88.0	65.1	70.8	22.3	7353.9	4189.4
197	232L1197	-	77.0	95.0	64.7	70.1	25.5	7336.7	2128.2
224	232L1224	-	69.0	92.0	65.4	70.8	19.8	7336.3	3883.9
87	232L1087	-	73.0	84.0	62.8	68.5	18.7	7334.7	3058.6
260	232L1260	-	71.0	107.0	62.6	70.2	34.4	7334.7	3079.9
291	232A1291	-	71.0	105.0	63.5	69.9	14.4	7314.9	3408.4
102	232L1102	-	69.0	91.0	61.8	68.9	15.8	7298.7	3659.4
289	232L1289	-	72.0	94.0	66.6	72.5	19.6	7276.2	3822.2
52	232L1052	-	74.0	93.0	63.2	69.2	20.9	7273.0	3294.8

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
64	232L1064	-	71.0	101.0	61.2	69.8	15.5	7264.4	3990.5
241	232L1241	-	71.0	97.0	62.7	68.7	13.0	7261.4	3960.3
109	232L1109	-	69.0	100.0	64.6	71.1	28.3	7254.8	3757.9
89	232L1089	-	70.0	99.0	62.4	69.0	12.2	7244.9	4779.7
62	232L1062	-	72.0	96.0	65.7	72.0	32.7	7223.8	3285.5
121	232L1121	-	68.0	101.0	60.2	68.7	26.3	7219.4	4653.4
148	232L1148	-	71.0	90.0	64.4	70.6	28.3	7219.4	2674.1
50	232L1050	-	72.0	101.0	61.8	68.7	20.7	7211.1	3072.4
86	232L1086	-	71.0	92.0	62.6	68.3	14.7	7208.6	4086.7
11	232A1011	-	72.0	108.0	66.7	72.5	11.4	7198.1	3316.0
212	232L1212	-	67.0	94.0	65.9	71.4	23.5	7187.5	3487.4
199	232L1199	-	71.0	98.0	55.2	67.1	30.8	7184.6	3425.8
63	232L1063	-	75.0	95.0	56.1	68.4	30.2	7174.7	2643.2
107	232L1107	-	75.0	93.0	63.2	68.9	22.6	7162.7	4113.9
38	232L1038	-	72.0	94.0	63.0	69.7	22.9	7145.0	2771.5
26	232L1026	-	74.0	103.0	62.1	70.0	16.2	7133.3	3538.5
13	232A1013	-	66.0	103.0	64.2	69.2	10.8	7132.1	3356.3
92	232L1092	-	68.0	110.0	58.8	68.0	28.6	7123.6	2572.1
133	232L1133	-	67.0	97.0	66.3	71.2	23.3	7123.6	3875.9
82	232L1082	-	70.0	93.0	61.9	68.6	14.5	7122.8	3334.4
165	232L1165	-	73.0	100.0	59.7	68.2	12.4	7106.6	2402.1
59	232L1059	-	72.0	81.0	67.2	71.6	25.8	7102.5	3863.2
262	232L1262	-	76.0	102.0	58.3	68.1	29.4	7102.3	3280.5
122	232L1122	-	72.0	97.0	63.1	69.3	23.2	7086.0	3387.3
250	232L1250	-	71.0	105.0	63.5	70.5	19.3	7084.4	2700.0
177	232L1177	-	72.0	93.0	65.5	72.3	22.9	7082.7	4061.9
249	232L1249	-	72.0	100.0	61.0	67.5	16.6	7056.6	2792.6
48	232L1048	-	67.0	100.0	59.7	68.1	18.5	7051.6	3496.5
209	232L1209	-	69.0	90.0	63.8	69.9	15.1	7049.4	3753.4
54	232L1054	-	73.0	103.0	62.2	69.7	19.4	7040.9	3597.1
78	232L1078	-	72.0	94.0	59.5	67.7	21.8	7018.3	3531.3
196	232L1196	-	73.0	95.0	63.5	70.4	22.0	7013.0	3194.1
286	232L1286	-	72.0	90.0	62.0	68.6	26.1	7007.7	3425.2
137	232L1137	-	67.0	90.0	63.5	70.2	22.3	7003.4	4512.6
293	232A1293	-	74.0	107.0	64.2	70.2	18.2	7003.2	3225.0
275	232L1275	-	77.0	103.0	55.5	67.0	22.7	7002.7	3351.4
106	232L1106	-	73.0	89.0	59.9	66.9	18.4	7001.4	3938.9
272	232L1272	-	70.0	105.0	62.0	69.3	38.0	6986.5	3981.7
60	232L1060	-	73.0	88.0	66.2	71.3	19.5	6984.5	4213.4
46	232L1046	-	69.0	99.0	60.1	69.1	21.1	6981.7	3084.6
129	232L1129	-	73.0	103.0	64.1	70.0	15.5	6972.0	3781.9
138	232L1138	-	78.0	93.0	61.5	69.8	30.5	6969.6	3362.9

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
172	232L1172	-	71.0	101.0	59.3	69.2	29.8	6961.1	2986.2
53	232L1053	-	78.0	94.0	66.3	71.6	22.8	6953.1	3232.1
267	232L1267	-	72.0	93.0	58.3	67.8	28.0	6946.5	3836.4
98	232L1098	-	69.0	89.0	59.3	68.6	15.9	6939.1	3461.0
124	232L1124	-	71.0	110.0	65.5	70.1	23.3	6938.3	3615.3
108	232L1108	-	74.0	94.0	65.9	72.0	25.0	6938.0	3299.2
16	232A1016	-	71.0	101.0	63.9	69.9	10.0	6931.4	4191.8
1	232L1001	-	70.0	103.0	64.7	70.4	12.3	6928.2	3973.0
190	232L1190	-	76.0	88.0	65.3	72.1	19.6	6894.1	2379.3
149	232L1149	-	76.0	104.0	64.5	70.2	20.1	6884.8	3087.8
155	232L1155	-	76.0	89.0	62.0	67.8	11.0	6879.0	2638.1
110	232L1110	-	74.0	99.0	62.8	70.3	12.9	6870.6	4110.4
25	232L1025	-	71.0	96.0	60.3	69.2	12.0	6863.6	4675.5
206	232L1206	-	72.0	84.0	60.3	69.4	26.9	6849.8	2938.3
274	232L1274	-	82.0	106.0	42.0	62.9	30.4	6846.1	2615.7
158	232L1158	-	72.0	94.0	61.4	68.4	15.8	6836.7	3842.5
284	232L1284	-	72.0	90.0	60.4	68.6	24.4	6832.5	4138.8
285	232L1285	-	73.0	84.0	58.8	69.2	45.1	6825.4	3182.2
281	232L1281	-	82.0	113.0	46.1	64.2	23.4	6820.2	1564.0
256	232L1256	-	69.0	92.0	59.7	68.9	18.4	6791.2	3572.5
15	232A1015	-	73.0	90.0	66.1	71.4	19.0	6786.5	2824.8
202	232L1202	-	78.0	78.0	62.0	69.0	18.0	6778.2	2555.8
7	232A1007	-	67.0	98.0	66.3	71.1	8.2	6754.9	3940.9
253	232L1253	-	69.0	84.0	64.5	69.6	23.6	6740.5	3680.1
5	232L1005	-	73.0	89.0	53.4	68.5	26.1	6706.1	2128.2
176	232L1176	-	68.0	100.0	60.1	70.9	27.5	6704.2	3229.1
80	232L1080	-	71.0	102.0	61.6	67.7	19.5	6700.1	4288.0
105	232L1105	-	71.0	90.0	62.0	68.3	18.2	6655.8	3375.1
229	232L1229	-	73.0	82.0	59.4	68.7	17.8	6647.6	2986.8
204	232L1204	-	71.0	84.0	57.2	67.2	25.5	6639.1	3155.8
276	232L1276	-	75.0	101.0	54.1	68.7	36.0	6626.2	2442.3
255	232L1255	-	70.0	105.0	60.3	69.0	18.0	6613.5	2817.7
152	232L1152	-	75.0	100.0	63.8	69.9	17.4	6599.1	4004.4
9	232A1009	-	73.0	96.0	67.3	71.1	13.5	6583.1	3479.7
146	232L1146	-	75.0	88.0	64.1	70.4	19.2	6582.8	3286.6
57	232L1057	-	71.0	97.0	62.5	68.7	17.8	6581.2	4866.6
264	232L1264	-	74.0	97.0	60.2	67.9	18.3	6556.6	3651.8
68	232L1068	-	71.0	99.0	60.2	68.4	17.0	6555.8	3056.6
141	232L1141	-	71.0	84.0	62.5	70.6	30.3	6551.9	4518.1
205	232L1205	-	74.0	80.0	65.1	70.1	16.1	6550.1	3796.6
117	232L1117	-	72.0	98.0	64.6	70.1	11.7	6547.9	3358.7
282	232L1282	-	71.0	90.0	56.7	68.1	26.8	6546.8	3821.2

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
292	232A1292	-	71.0	93.0	66.6	72.0	10.1	6531.9	2727.9
126	232L1126	-	71.0	99.0	61.5	67.2	15.4	6530.6	4278.6
277	232L1277	-	76.0	106.0	51.4	65.9	29.3	6528.2	2900.3
136	232L1136	-	71.0	95.0	63.6	70.1	18.3	6513.7	3976.1
178	232L1178	-	73.0	87.0	64.2	70.5	26.2	6510.2	3336.4
27	232L1027	-	71.0	97.0	54.8	68.4	36.3	6507.6	2997.0
231	232L1231	-	75.0	90.0	65.1	71.7	11.0	6469.6	3565.9
24	232L1024	-	69.0	98.0	62.2	69.8	17.2	6469.3	3082.8
299	CLL17	-	74.0	95.0	62.9	68.6	18.5	6455.1	2581.7
115	232L1115	-	74.0	98.0	61.4	68.6	21.1	6444.9	3284.8
266	232L1266	-	80.0	110.0	61.1	69.6	39.2	6398.5	1694.7
113	232L1113	-	71.0	95.0	59.0	66.8	17.7	6382.6	3929.9
181	232L1181	-	72.0	90.0	59.8	68.6	21.9	6376.7	3567.5
270	232L1270	-	68.0	96.0	55.5	67.3	23.8	6371.7	3841.1
28	232L1028	-	67.0	91.0	63.6	69.7	16.5	6354.4	3403.6
79	232L1079	-	71.0	96.0	62.1	68.4	20.2	6347.3	3495.9
2	232L1002	-	73.0	95.0	58.3	69.0	18.0	6322.4	3653.2
127	232L1127	-	72.0	95.0	63.7	69.7	21.4	6313.2	2565.5
139	232L1139	-	78.0	97.0	63.8	72.2	23.5	6291.4	3487.4
162	232L1162	-	74.0	91.0	62.8	70.2	32.9	6285.5	2169.2
104	232L1104	-	75.0	97.0	62.0	68.6	18.2	6257.3	3663.4
257	232L1257	-	71.0	99.0	58.9	67.3	26.3	6256.1	2852.8
273	232L1273	-	75.0	102.0	60.6	69.2	28.3	6106.4	2488.5
265	232L1265	-	71.0	97.0	54.3	67.6	33.4	6074.4	3569.8
179	232L1179	-	71.0	105.0	61.3	68.8	20.6	6045.3	4122.9
175	232L1175	-	71.0	100.0	59.9	69.1	26.4	5887.0	2204.3
91	232L1091	-	69.0	87.0	65.4	71.2	11.4	5830.3	4219.2
10	232A1010	-	76.0	89.0	61.1	69.2	20.5	5825.4	1088.2
8	232A1008	-	74.0	95.0	66.5	71.1	11.3	5786.9	3733.4
160	232L1160	-	68.0	101.0	66.9	71.7	24.1	5754.5	3553.5
114	232L1114	-	73.0	101.0	59.0	68.7	16.2	5745.3	3996.6
14	232A1014	-	73.0	93.0	63.9	69.5	11.2	5695.7	3892.5
180	232L1180	-	70.0	84.0	66.0	71.1	11.2	5660.6	3711.8
6	232L1006	-	80.0	84.0	58.8	68.6	35.8	5659.9	1823.4
198	232L1198	-	78.0	89.0	54.5	67.2	30.0	5635.6	2125.5
94	232L1094	-	70.0	80.0	62.1	69.4	9.7	5614.8	4588.7
269	232L1269	-	78.0	93.0	58.2	67.2	33.6	5606.2	1970.0
230	232L1230	-	74.0	111.0	68.5	72.6	13.1	5534.9	3904.6
23	232A1023	-	72.0	92.0	63.6	69.5	10.5	5460.6	3551.2
30	232L1030	-	69.0	90.0	61.0	68.3	22.7	5448.2	2453.6
20	232A1020	-	71.0	92.0	65.0	70.4	10.4	5294.2	3352.2
120	232L1120	-	74.0	96.0	61.3	67.8	19.0	5287.1	4815.0

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
19	232A1019	-	71.0	96.0	61.9	69.1	10.1	5198.4	3659.1
21	232A1021	-	71.0	97.0	63.6	71.0	9.5	5120.3	2691.1
188	232L1188	-	73.0	87.0	60.2	68.0	12.3	5007.3	4104.2
55	232L1055	-	70.0	89.0	60.6	69.3	12.3	4977.6	4317.2
18	232A1018	-	73.0	88.0	64.0	69.5	5.6	4830.1	2962.5
247	232L1247	-	74.0	93.0	64.7	70.0	15.8	4769.8	3102.3
29	232L1029	-	68.0	83.0	52.2	68.1	17.3	3651.2	3525.1

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

Table 5. Grain and milling yields and agronomic performance of entries in the 2023 Clearfield Preliminary Yield Medium-Grain trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
97	232M1097	3.0	100.0	94.0	62.3	67.6	5.5	11053.3	3624.8
44	232M1044	3.0	100.0	98.0	64.6	68.7	10.3	10875.6	4003.9
41	232M1041	3.0	98.0	103.0	62.3	68.8	9.1	10601.2	4146.7
70	232M1070	3.0	97.0	100.0	56.3	67.9	9.9	10426.5	2198.4
114	232M1114	3.0	99.0	101.0	52.2	66.3	5.6	10388.3	2071.4
63	232M1063	3.0	97.0	92.0	52.5	65.1	10.1	10276.1	4198.1
86	232M1086	3.0	97.0	96.0	64.7	69.5	9.3	10127.0	3766.3
69	232M1069	5.0	97.0	92.0	56.2	68.9	6.6	10007.4	3185.2
51	232M1051	3.0	101.0	89.0	62.2	69.1	8.2	9985.2	3931.5
73	232M1073	3.0	97.0	86.0	47.2	67.1	8.1	9975.9	3609.8
46	232M1046	3.0	100.0	94.0	65.4	70.5	10.3	9935.7	3743.6
17	232M1017	1.0	95.0	88.0	38.7	66.7	7.3	9888.5	2622.4
106	232M1106	3.0	97.0	98.0	56.8	68.8	9.0	9882.8	2966.0
2	232M1002	3.0	96.0	88.0	51.2	66.9	11.6	9869.6	1335.9
64	232M1064	1.0	98.0	102.0	56.8	68.7	7.8	9832.9	3914.6
81	232M1081	3.0	100.0	97.0	63.1	69.2	6.5	9801.5	2916.4
115	232M1115	1.0	97.0	92.0	49.7	69.1	4.4	9714.6	3467.7
43	232M1043	1.0	98.0	93.0	55.1	68.4	11.4	9692.7	2621.6
119	CLM04	1.0	98.0	92.0	61.9	69.7	6.5	9683.1	2344.7
48	232M1048	3.0	102.0	91.0	64.1	68.3	8.2	9637.3	3064.0
71	232M1071	3.0	97.0	93.0	59.7	69.5	8.7	9590.6	4682.8
101	232M1101	1.0	99.0	94.0	60.7	70.2	8.0	9589.4	4055.2
33	232M1033	1.0	97.0	105.0	51.7	69.8	9.5	9588.2	3885.5
52	232M1052	3.0	102.0	90.0	-	-	-	9583.9	3691.3
110	232M1110	3.0	101.0	94.0	63.7	68.8	5.8	9517.1	4118.7
54	232M1054	3.0	100.0	94.0	60.0	65.2	13.4	9483.4	3175.1
47	232M1047	3.0	101.0	97.0	61.5	69.8	5.2	9481.6	4130.5
55	232M1055	3.0	101.0	101.0	61.7	68.1	10.0	9451.5	2192.0
49	232M1049	3.0	100.0	99.0	61.6	68.5	7.1	9445.5	2694.6
102	232M1102	1.0	98.0	96.0	51.3	67.8	9.2	9433.5	3570.7
40	232M1040	1.0	97.0	99.0	58.9	69.5	6.8	9398.9	4502.2
53	232M1053	3.0	100.0	93.0	56.6	69.1	7.8	9368.2	3741.7
113	232M1113	3.0	97.0	88.0	50.8	68.0	7.5	9354.3	2769.1
107	232M1107	3.0	99.0	100.0	55.2	69.2	7.3	9334.8	3629.9
14	232M1014	5.0	97.0	88.0	58.0	66.6	14.3	9333.9	2660.2
68	232M1068	3.0	97.0	90.0	65.3	70.0	3.3	9323.8	2824.1
120	CL272	3.0	97.0	90.0	49.6	69.2	9.9	9320.8	2033.4
87	232M1087	3.0	102.0	94.0	64.4	68.6	10.3	9313.3	4350.8
104	232M1104	3.0	99.0	93.0	59.8	69.5	5.5	9310.7	3402.4
91	232M1091	3.0	98.0	91.0	58.8	67.0	11.2	9295.8	2790.7
78	232M1078	3.0	97.0	95.0	45.6	68.2	4.6	9287.4	3651.5
22	232M1022	3.0	97.0	86.0	35.4	65.6	14.7	9277.6	1917.6

Continued.

Table 5. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
80	232M1080	1.0	97.0	93.0	49.9	68.9	11.5	9261.9	2473.2
19	232M1019	1.0	95.0	85.0	30.0	65.1	6.6	9248.0	2562.8
24	232M1024	1.0	97.0	94.0	40.2	65.3	12.0	9240.8	1768.7
79	232M1079	3.0	97.0	92.0	56.3	69.2	7.5	9196.9	3010.1
67	232M1067	3.0	97.0	96.0	55.3	69.0	8.0	9186.8	2046.2
92	232M1092	3.0	98.0	94.0	59.3	66.8	16.1	9154.5	4382.1
1	232M1001	1.0	94.0	87.0	44.4	67.2	4.9	9119.1	2530.2
16	232M1016	3.0	95.0	82.0	39.1	65.9	6.0	9096.2	2192.0
84	232M1084	5.0	99.0	88.0	64.2	69.0	6.4	9084.9	3820.5
18	232M1018	1.0	95.0	86.0	30.6	65.7	8.6	9074.1	2105.7
77	232M1077	3.0	97.0	95.0	57.6	68.7	8.9	9061.3	3095.0
95	232M1095	3.0	100.0	99.0	61.6	67.3	11.2	9020.2	3585.9
30	232M1030	1.0	97.0	93.0	38.9	67.8	5.7	9014.3	2242.8
42	232M1042	1.0	100.0	94.0	62.1	68.5	6.8	8956.7	4570.3
32	232M1032	3.0	97.0	95.0	54.6	68.1	8.2	8950.1	3107.8
89	232M1089	3.0	99.0	93.0	61.6	67.4	6.7	8934.2	4760.2
66	232M1066	3.0	100.0	87.0	64.8	68.2	6.2	8926.9	3367.0
8	232M1008	3.0	93.0	87.0	27.7	64.9	8.5	8915.9	2564.6
83	232M1083	3.0	97.0	96.0	59.0	70.1	3.2	8902.7	3776.3
108	232M1108	1.0	98.0	90.0	59.3	67.5	11.7	8873.2	2418.5
118	232M1118	1.0	94.0	88.0	40.7	64.2	18.7	8863.4	1428.2
112	232M1112	3.0	100.0	88.0	68.3	72.5	4.9	8863.0	3152.0
45	232M1045	3.0	101.0	96.0	61.6	68.8	8.1	8857.6	3030.3
94	232M1094	3.0	101.0	94.0	61.8	67.4	9.3	8816.3	3712.4
61	232M1061	3.0	98.0	91.0	58.5	69.9	6.1	8812.3	3126.1
59	232M1059	1.0	100.0	86.0	58.4	69.4	4.2	8751.8	3968.2
39	232M1039	3.0	97.0	81.0	43.2	65.1	14.3	8723.8	2209.3
38	232M1038	3.0	97.0	84.0	48.4	64.9	12.3	8723.6	2184.3
65	232M1065	1.0	98.0	97.0	58.1	70.3	5.4	8680.7	3270.2
100	232M1100	3.0	97.0	83.0	60.6	69.6	8.5	8661.9	3514.0
85	232M1085	3.0	98.0	96.0	54.6	69.3	4.8	8660.7	3602.2
26	232M1026	1.0	99.0	87.0	52.6	67.9	10.7	8656.3	2869.8
62	232M1062	3.0	100.0	85.0	58.2	69.1	5.8	8630.1	3044.7
90	232M1090	3.0	100.0	91.0	63.3	67.5	8.0	8619.9	4379.6
3	232M1003	3.0	95.0	81.0	28.1	64.8	6.0	8585.2	1769.3
23	232M1023	3.0	97.0	97.0	39.8	66.8	8.9	8569.0	2149.8
88	232M1088	3.0	96.0	89.0	61.4	70.8	6.9	8556.1	3089.4
56	232M1056	3.0	98.0	86.0	54.1	69.3	8.6	8541.0	2992.0
50	232M1050	3.0	101.0	91.0	64.8	69.7	9.1	8484.4	4042.9
75	232M1075	1.0	100.0	100.0	60.1	69.7	5.7	8481.7	3657.8
5	232M1005	3.0	97.0	95.0	49.2	67.2	10.5	8430.1	2746.7
58	232M1058	1.0	99.0	88.0	62.7	68.7	6.6	8402.6	3666.5

Continued.

Table 5. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
20	232M1020	1.0	92.0	91.0	31.4	64.4	10.9	8395.5	1990.8
60	232M1060	1.0	97.0	90.0	60.0	68.4	5.4	8386.5	3433.7
93	232M1093	3.0	99.0	86.0	62.0	68.2	8.7	8354.4	2851.7
28	232M1028	1.0	94.0	90.0	40.9	67.9	8.8	8323.7	2061.0
111	232M1111	3.0	100.0	87.0	65.3	69.3	8.7	8303.4	3653.0
105	232M1105	3.0	98.0	92.0	57.6	69.3	6.0	8292.8	2935.5
27	232M1027	3.0	98.0	91.0	55.2	66.8	12.5	8277.2	2535.5
82	232M1082	3.0	97.0	92.0	52.9	68.6	2.9	8262.3	2885.8
21	232M1021	1.0	92.0	85.0	35.0	67.7	9.5	8262.2	2615.7
109	232M1109	3.0	98.0	89.0	59.0	69.8	3.7	8216.6	2576.8
103	232M1103	3.0	98.0	82.0	54.7	67.8	12.1	8185.4	2719.4
35	232M1035	3.0	97.0	81.0	40.4	66.3	7.4	8177.5	2837.5
72	232M1072	5.0	97.0	99.0	43.3	67.2	8.0	8168.9	2947.4
4	232M1004	3.0	93.0	90.0	31.7	66.2	2.6	8134.0	2220.1
74	232M1074	3.0	99.0	86.0	53.8	68.0	6.4	8101.9	3685.0
13	232M1013	3.0	97.0	90.0	-	-	-	8086.4	2538.8
25	232M1025	3.0	98.0	83.0	42.4	66.0	5.8	8059.1	1755.3
6	232M1006	3.0	95.0	82.0	26.0	66.2	4.2	8012.3	1987.2
76	232M1076	3.0	98.0	95.0	47.5	67.4	9.4	7971.3	3373.1
29	232M1029	1.0	95.0	86.0	42.6	67.2	6.4	7908.1	2246.6
96	232M1096	5.0	100.0	83.0	59.0	66.8	8.3	7775.5	3698.3
10	232M1010	3.0	97.0	83.0	62.8	68.2	12.4	7771.6	2254.4
117	232M1117	1.0	96.0	98.0	43.8	65.6	11.6	7747.0	1576.9
116	232M1116	3.0	95.0	90.0	42.9	66.6	10.3	7733.4	2283.9
7	232M1007	3.0	94.0	85.0	37.1	64.6	9.5	7700.9	1782.4
34	232M1034	3.0	100.0	77.0	63.0	69.4	14.1	7697.2	2696.4
9	232M1009	3.0	97.0	87.0	56.0	65.0	13.8	7465.4	3843.2
98	232M1098	3.0	101.0	96.0	63.8	68.4	12.1	7278.8	3583.5
31	232M1031	3.0	97.0	97.0	44.8	64.9	16.8	7224.7	2170.9
11	232M1011	3.0	99.0	87.0	58.7	67.0	6.2	7209.8	3128.4
36	232M1036	3.0	97.0	87.0	39.7	66.5	11.1	7196.5	1961.2
37	232M1037	1.0	95.0	80.0	31.8	65.1	6.4	7173.7	2362.8
99	232M1099	1.0	99.0	87.0	52.2	68.3	9.0	6938.2	4080.1
57	232M1057	3.0	99.0	88.0	64.1	69.7	1.9	6909.8	3919.1
15	232M1015	5.0	98.0	86.0	32.4	63.6	12.5	6186.2	2020.4
12	232M1012	5.0	97.0	88.0	49.0	66.3	8.0	5883.3	1927.0

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

Table 6. Grain and milling yields and agronomic performance of entries in the 2023 Clearfield Preliminary Yield Medium-Grain trial – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
41	232M1041	3.0	74.0	94.0	63.4	69.3	7.9	9802.3	3926.5
114	232M1114	3.0	75.0	100.0	47.6	67.3	5.6	9761.5	2840.5
44	232M1044	3.0	75.0	96.0	61.5	67.7	5.9	9703.6	5409.9
81	232M1081	3.0	77.0	89.0	60.1	69.3	4.6	9631.8	3664.3
112	232M1112	3.0	77.0	85.0	62.9	69.5	3.7	9571.5	4353.7
55	232M1055	3.0	76.0	92.0	57.5	65.6	11.9	9497.5	4826.0
48	232M1048	3.0	77.0	82.0	59.9	66.4	7.3	9287.3	5100.5
70	232M1070	3.0	73.0	90.0	45.6	66.5	7.2	9207.3	4345.5
47	232M1047	3.0	76.0	89.0	56.2	68.8	4.0	9182.7	3856.9
46	232M1046	5.0	76.0	86.0	57.1	68.4	11.4	9119.1	3121.1
49	232M1049	3.0	77.0	89.0	56.8	67.3	7.1	9016.1	3882.3
51	232M1051	5.0	77.0	82.0	52.9	66.0	6.9	8833.3	2865.2
53	232M1053	3.0	76.0	89.0	49.0	66.9	5.5	8815.5	3838.9
97	232M1097	3.0	75.0	92.0	60.1	66.2	4.3	8815.0	2743.9
101	232M1101	3.0	74.0	83.0	48.1	67.6	4.1	8714.7	2447.9
33	232M1033	3.0	73.0	91.0	49.1	68.6	4.4	8621.9	4145.9
59	232M1059	3.0	77.0	87.0	52.4	67.1	3.3	8601.4	4861.1
64	232M1064	3.0	73.0	93.0	53.1	66.9	5.1	8561.5	4942.8
104	232M1104	3.0	75.0	90.0	51.6	67.6	3.4	8531.6	3338.8
85	232M1085	3.0	73.0	92.0	47.8	68.2	4.2	8514.0	3327.2
110	232M1110	3.0	77.0	91.0	64.0	69.0	5.2	8476.8	4766.0
18	232M1018	3.0	71.0	87.0	34.5	64.8	6.4	8424.7	4179.6
68	232M1068	3.0	77.0	91.0	59.5	68.9	2.7	8422.5	4071.2
73	232M1073	3.0	76.0	92.0	48.6	67.2	3.5	8417.7	4406.4
42	232M1042	3.0	77.0	91.0	56.8	67.9	6.5	8336.6	3737.8
71	232M1071	3.0	74.0	86.0	59.2	67.5	3.1	8330.5	4239.6
69	232M1069	3.0	73.0	86.0	52.4	67.6	6.1	8313.9	4223.9
61	232M1061	3.0	74.0	79.0	46.8	68.3	5.1	8273.3	3968.1
54	232M1054	3.0	75.0	89.0	59.3	66.6	11.0	8264.0	4127.7
50	232M1050	3.0	76.0	83.0	56.2	67.9	7.9	8252.2	4017.1
72	232M1072	3.0	73.0	97.0	43.8	68.0	5.2	8235.5	5219.4
62	232M1062	3.0	74.0	78.0	53.4	67.3	3.1	8214.4	2899.1
77	232M1077	3.0	71.0	93.0	54.8	67.5	9.3	8188.7	4895.2
58	232M1058	3.0	75.0	92.0	58.0	66.7	3.8	8176.8	3728.5
106	232M1106	3.0	74.0	93.0	51.6	67.2	6.0	8175.5	4549.6
115	232M1115	3.0	73.0	91.0	43.0	66.8	5.5	8149.2	4749.1
63	232M1063	3.0	71.0	85.0	56.5	65.7	8.7	8130.2	4349.7
107	232M1107	3.0	73.0	93.0	38.4	66.4	3.3	8120.9	4109.9
52	232M1052	3.0	77.0	91.0	48.3	67.9	5.3	8000.4	4414.8
78	232M1078	3.0	73.0	88.0	36.3	65.1	3.1	7970.6	4947.6
75	232M1075	3.0	75.0	96.0	50.2	66.8	6.3	7958.6	2804.8

Continued.

Table 6. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
67	232M1067	3.0	71.0	79.0	39.1	67.6	3.8	7767.3	4510.3
17	232M1017	3.0	71.0	84.0	36.0	64.1	2.0	7672.7	3894.4
95	232M1095	3.0	75.0	95.0	57.3	66.3	6.9	7665.0	4100.2
60	232M1060	3.0	71.0	86.0	58.5	67.2	4.6	7629.9	4065.2
66	232M1066	3.0	74.0	84.0	58.7	66.1	5.3	7588.3	5154.4
65	232M1065	3.0	71.0	85.0	50.6	67.9	3.8	7573.3	3827.2
91	232M1091	3.0	73.0	76.0	56.7	67.3	11.2	7567.4	3339.3
43	232M1043	3.0	75.0	80.0	52.5	68.5	3.0	7501.1	5132.2
32	232M1032	3.0	74.0	85.0	55.1	66.7	6.5	7468.2	3555.0
88	232M1088	3.0	71.0	91.0	49.1	68.1	4.8	7423.4	4515.5
92	232M1092	3.0	74.0	88.0	59.6	67.2	11.0	7373.7	4152.1
74	232M1074	3.0	76.0	89.0	55.5	68.4	5.5	7341.8	5250.5
109	232M1109	3.0	73.0	85.0	53.4	67.8	2.4	7334.7	4788.8
82	232M1082	3.0	73.0	87.0	48.6	67.6	3.4	7313.1	4673.6
119	CLM04	3.0	77.0	94.0	56.0	68.1	6.7	7292.9	4866.5
83	232M1083	3.0	72.0	93.0	47.4	67.5	4.3	7287.3	5121.5
40	232M1040	3.0	74.0	96.0	56.1	67.8	5.8	7279.5	5161.9
45	232M1045	3.0	75.0	84.0	56.2	67.7	10.3	7277.2	3077.8
120	CL272	3.0	75.0	77.0	41.9	66.9	5.2	7260.6	4799.4
102	232M1102	3.0	73.0	86.0	43.3	67.0	4.6	7211.1	6249.6
30	232M1030	3.0	74.0	87.0	34.3	65.1	3.1	7162.8	5284.0
21	232M1021	3.0	71.0	87.0	27.8	66.3	5.8	7056.5	4040.7
5	232M1005	3.0	77.0	97.0	51.4	65.5	8.9	6981.5	3865.1
87	232M1087	3.0	78.0	89.0	65.1	70.5	5.6	6958.9	4257.4
86	232M1086	3.0	74.0	88.0	63.7	68.7	3.8	6882.0	5263.5
26	232M1026	3.0	78.0	80.0	47.2	66.3	8.4	6835.2	3981.1
105	232M1105	3.0	73.0	88.0	55.7	67.4	2.3	6831.3	4425.2
10	232M1010	5.0	74.0	86.0	58.7	67.0	9.0	6805.4	2586.5
24	232M1024	3.0	71.0	96.0	36.2	65.1	9.9	6757.0	4039.0
113	232M1113	3.0	73.0	85.0	42.0	66.2	5.3	6732.0	4160.1
79	232M1079	3.0	71.0	90.0	45.6	66.2	6.1	6704.5	5793.9
90	232M1090	3.0	77.0	88.0	59.1	65.9	9.3	6702.9	3883.2
118	232M1118	3.0	70.0	88.0	36.1	64.2	8.3	6625.5	3481.1
19	232M1019	3.0	73.0	80.0	34.7	63.5	6.4	6591.7	4406.4
93	232M1093	5.0	75.0	81.0	55.2	65.9	6.0	6532.2	3789.6
1	232M1001	3.0	72.0	85.0	39.4	64.7	5.1	6506.2	3410.8
76	232M1076	3.0	75.0	87.0	44.1	67.0	6.5	6474.8	5271.0
4	232M1004	3.0	71.0	85.0	30.1	65.4	2.5	6471.2	3058.3
15	232M1015	3.0	73.0	70.0	35.8	64.4	10.5	6455.4	6513.5
94	232M1094	3.0	77.0	87.0	61.2	67.0	10.5	6453.7	3938.3
108	232M1108	3.0	75.0	86.0	53.2	65.2	8.0	6403.8	4157.5
100	232M1100	3.0	74.0	81.0	58.8	69.3	4.2	6397.4	3943.2

Continued.

Table 6. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
89	232M1089	3.0	75.0	85.0	57.5	65.3	6.3	6381.4	5099.4
38	232M1038	3.0	76.0	88.0	47.3	63.6	10.2	6354.2	4468.3
84	232M1084	3.0	74.0	85.0	63.3	68.9	5.7	6324.6	4166.8
103	232M1103	3.0	75.0	84.0	55.0	67.8		6318.7	5802.0
22	232M1022	3.0	75.0	78.0	27.6	63.3	9.9	6314.2	3551.9
111	232M1111	3.0	76.0	75.0	63.6	68.3	5.7	6268.1	3988.0
8	232M1008	3.0	69.0	84.0	34.4	64.6	3.4	6198.6	4624.8
99	232M1099	3.0	74.0	86.0	38.6	66.2	3.9	6153.0	4670.8
11	232M1011	3.0	77.0	85.0	55.8	65.1	5.6	6080.9	4475.1
96	232M1096	3.0	76.0	86.0	59.3	65.8	7.2	6030.4	3778.6
13	232M1013	3.0	70.0	84.0	24.8	65.0	9.7	6012.5	5079.9
2	232M1002	3.0	73.0	77.0	44.7	62.8	4.5	6012.2	5161.3
80	232M1080	3.0	74.0	80.0	44.7	66.8	8.6	5977.6	3876.4
117	232M1117	3.0	71.0	92.0	37.9	64.7	6.0	5921.8	4307.7
39	232M1039	3.0	75.0	73.0	45.0	65.2	6.1	5837.3	3217.9
14	232M1014	5.0	72.0	83.0	57.2	66.1	10.3	5815.8	3642.3
23	232M1023	3.0	73.0	76.0	35.4	64.7	7.6	5765.2	2945.0
3	232M1003	3.0	72.0	71.0	33.4	64.3	5.1	5701.4	3151.5
34	232M1034	3.0	74.0	75.0	60.4	67.2	10.3	5594.0	4002.4
16	232M1016	3.0	72.0	82.0	42.4	63.1	3.4	5577.5	3296.1
98	232M1098	3.0	77.0	80.0	59.6	66.6	7.1	5565.6	4651.7
28	232M1028	3.0	71.0	87.0	39.3	67.2	6.2	5551.7	4172.2
20	232M1020	3.0	71.0	82.0	32.2	63.8	6.6	5544.4	3847.1
116	232M1116	3.0	71.0	89.0	35.4	65.5	5.5	5427.8	5343.0
29	232M1029	3.0	72.0	86.0	45.6	65.4	4.8	5384.0	3948.6
35	232M1035	3.0	73.0	81.0	31.3	63.7	3.6	5289.8	3915.5
27	232M1027	3.0	74.0	94.0	47.2	62.7	7.3	5206.9	4097.9
57	232M1057	3.0	77.0	88.0	61.8	69.0	6.5	5175.6	3906.8
56	232M1056	3.0	78.0	84.0	43.1	66.3	5.1	5161.1	4623.4
12	232M1012	3.0	73.0	85.0	54.5	65.7	7.5	5143.5	3693.2
25	232M1025	3.0	75.0	75.0	42.5	62.9	2.9	5018.8	3622.2
7	232M1007	3.0	73.0	78.0	45.6	64.1	2.3	5012.9	3735.8
6	232M1006	3.0	71.0	81.0	28.3	65.3	2.1	4917.9	2896.8
9	232M1009	3.0	77.0	83.0	58.2	65.6	7.5	4822.9	4343.2
37	232M1037	3.0	71.0	83.0	32.2	64.1	2.8	4817.0	3302.4
31	232M1031	3.0	74.0	77.0	49.6	66.0	9.8	4393.3	3449.9
36	232M1036	3.0	70.0	79.0	38.2	66.3	6.7	4248.4	2167.3

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

PROVISIA PRELIMINARY YIELD TRIAL

The Provisia Preliminary Yield (PVPY) 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 and ratoon crops, and disease resistance.

Trials were 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 14 and May 11 to the PVPY and PVPY-Late trials, respectively. A complete randomized design was applied to arrange test entries. The plot size was 4.66 x 16.5 ft. Seeding rate was 75 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 2023 Provisia Preliminary Yield trial.

Location	Trial	Planting	Harvesting
HRCRRS	PVPY	2/28	7/24
	PVPY – Late Planting	4/14	8/15

Table 2. Entry number, pedigree, grain type, and source information for entries in the 2023 Provisia Preliminary Yield trial.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
PV	1	233L1001	PVL01/Lakast	LG	LAES
PV	2	233L1002	PVL01/Lakast	LG	LAES
PV	3	233L1003	PVL01/Lakast	LG	LAES
PV	4	233L1004	PVL01/Lakast	LG	LAES
PV	5	233L1005	PVL01/Lakast	LG	LAES
PV	6	233L1006	RU1502115/PVL01	LG	LAES
PV	7	233L1007	CL111/183L2070	LG	LAES
PV	8	233L1008	CL111/183L2070	LG	LAES
PV	9	233L1009	CL111/183L2070	LG	LAES
PV	10	233L1010	CL111/183L2070	LG	LAES
PV	11	233L1011	CL111/183L2070	LG	LAES
PV	12	233L1012	CL111/183L2070	LG	LAES
PV	13	233L1013	CL111/183L2070	LG	LAES
PV	14	233L1014	182L1278/PVL02	LG	LAES
PV	15	233L1015	183L2070/182L1278	LG	LAES
PV	16	233L1016	183L2070/182L1278	LG	LAES
PV	17	233L1017	183L2070/182L1278	LG	LAES
PV	18	233L1018	183L2070/182L1278	LG	LAES
PV	19	233L1019	183L2070/182L1278	LG	LAES
PV	20	233L1020	183L2070/182L1278	LG	LAES
PV	21	233L1021	RU1902126/PVL01	LG	LAES
PV	22	233L1022	RU1902126/PVL01	LG	LAES
PV	23	233L1023	RU1902126/PVL01	LG	LAES
PV	24	233L1024	PVL03/RoyJ	LG	LAES
PV	25	233L1025	PVL03/RoyJ	LG	LAES
PV	26	233L1026	PVL03/RoyJ	LG	LAES
PV	27	233L1027	PVL03/RoyJ	LG	LAES
PV	28	233L1028	PVL03/RoyJ	LG	LAES
PV	29	233L1029	PVL03/RoyJ	LG	LAES
PV	30	233L1030	PVL03/RoyJ	LG	LAES
PV	31	233L1031	PVL03/RoyJ	LG	LAES
PV	32	233L1032	PVL03/Cheniere	LG	LAES
PV	33	233L1033	PVL03/Cheniere	LG	LAES
PV	34	233L1034	PVL03/Cheniere	LG	LAES
PV	35	233L1035	PVL03/Cheniere	LG	LAES
PV	36	233L1036	PVL03/Cheniere	LG	LAES
PV	37	233L1037	PV17TA76/171L1772	LG	LAES
PV	38	233L1038	PV17TA75/RoyJ	LG	LAES
PV	39	233L1039	PV17TA75/RoyJ	LG	LAES
PV	40	233L1040	PV17TA75/RoyJ	LG	LAES
PV	41	233L1041	PV17TA75/RoyJ	LG	LAES
PV	42	233L1042	PV17TA75/RoyJ	LG	LAES
PV	43	233L1043	PV17TA75/RoyJ	LG	LAES
PV	44	233L1044	PV17TA75/Lakast	LG	LAES
PV	45	233L1045	PV17TA75/Lakast	LG	LAES
PV	46	233L1046	PV17TA75/RU1702140	LG	LAES
PV	47	233L1047	PV17TA75/RU1702140	LG	LAES
PV	48	233L1048	183L2070/RU2002150	LG	LAES
PV	49	233L1049	183L2070/RU2002150	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type†	Source‡
PV	50	233L1050	183L2070/RU2002150	LG	LAES
PV	51	233L1051	183L2070/RU2002150	LG	LAES
PV	52	233L1052	183L2070/RU2002150	LG	LAES
PV	53	233L1053	183L2070/RU2002150	LG	LAES
PV	54	233L1054	183L2070/RU2002150	LG	LAES
PV	55	233L1055	183L2070/RU2002150	LG	LAES
PV	56	233L1056	Diamond/183L2070	LG	LAES
PV	57	233L1057	Diamond/183L2070	LG	LAES
PV	58	233L1058	Diamond/183L2070	LG	LAES
PV	59	233L1059	Diamond/183L2070	LG	LAES
PV	60	233L1060	Diamond/183L2070	LG	LAES
PV	61	233L1061	Diamond/183L2070	LG	LAES
PV	62	233L1062	Diamond/183L2070	LG	LAES
PV	63	233L1063	Diamond/183L2070	LG	LAES
PV	64	233L1064	183L1227/RU1902194	LG	LAES
PV	65	233L1065	183L1227/RU1902194	LG	LAES
PV	66	233L1066	183L1227/RU1902194	LG	LAES
PV	67	233L1067	183L2070/RU1902186	LG	LAES
PV	68	233L1068	183L2070/RU1902186	LG	LAES
PV	69	233L1069	183L2070/RU1902186	LG	LAES
PV	70	233L1070	183L2070/RU1902186	LG	LAES
PV	71	233L1071	183L2070/RU1902186	LG	LAES
PV	72	233L1072	183L2070/RU1902186	LG	LAES
PV	73	233L1073	PVL03/RU1902194	LG	LAES
PV	74	233L1074	PVL03/RU1902194	LG	LAES
PV	75	233L1075	PVL03/Diamond	LG	LAES
PV	76	233L1076	PVL03/Diamond	LG	LAES
PV	77	233L1077	PVL03/Diamond	LG	LAES
PV	78	233L1078	PVL03/Diamond	LG	LAES
PV	79	233L1079	PVL03/Diamond	LG	LAES
PV	80	233L1080	PVL03/Diamond	LG	LAES
PV	81	233L1081	PVL03/Diamond	LG	LAES
PV	82	233L1082	PVL03/Diamond	LG	LAES
PV	83	233L1083	PVL03/RU2002222	LG	LAES
PV	84	233L1084	PVL03/RU2002222	LG	LAES
PV	85	233L1085	PVL03/RU2002222	LG	LAES
PV	86	233L1086	PVL03/RU2002222	LG	LAES
PV	87	233L1087	PVL03/RU2002222	LG	LAES
PV	88	233L1088	PVL03/RU2002222	LG	LAES
PV	89	233L1089	RU2002070/RU2002232	LG	LAES
PV	90	233L1090	RU2002070/RU2002232	LG	LAES
PV	91	233L1091	RU2002070/RU2002232	LG	LAES
PV	92	233L1092	RU2002070/RU2002232	LG	LAES
PV	93	233L1093	RU2002070/RU2002232	LG	LAES
PV	94	233L1094	RU2002070/RU2002232	LG	LAES
PV	95	233L1095	RU2002070/RU2002232	LG	LAES
PV	96	233L1096	RU2002178/RU1702140	LG	LAES
PV	97	233L1097	RU2002178/RU1702140	LG	LAES
PV	98	233L1098	RU2002178/RU1702140	LG	LAES
PV	99	233L1099	RU2002178/RU1702140	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
PV	100	233L1100	RU2002178/RU1702140	LG	LAES
PV	101	233L1101	RU2002178/RU1702140	LG	LAES
PV	102	233L1102	RU2002178/RU1702140	LG	LAES
PV	103	233L1103	RU2002174/RU1902207	LG	LAES
PV	104	233L1104	RU2002174/RU1902207	LG	LAES
PV	105	233L1105	RU2002174/RU1902207	LG	LAES
PV	106	233L1106	RU2002174/RU1902207	LG	LAES
PV	107	233L1107	RU2002174/RU1902207	LG	LAES
PV	108	233L1108	RU2002174/RU1902207	LG	LAES
PV	109	233L1109	RU2002174/RU1902207	LG	LAES
PV	110	233L1110	RU2002174/RU1902207	LG	LAES
PV	111	233L1111	RU2002174/RU1902207	LG	LAES
PV	112	233L1112	RU2002174/RU1902207	LG	LAES
PV	113	233L1113	RU2002174/RU1902207	LG	LAES
PV	114	233L1114	RU2002174/RU1902207	LG	LAES
PV	115	233L1115	RU2002174/RU1902207	LG	LAES
PV	116	233L1116	RU2002174/RU1902207	LG	LAES
PV	117	233L1117	RU2002174/RU1902207	LG	LAES
PV	118	233L1118	RU2002174/RU1902207	LG	LAES
PV	119	233L1119	RU2002174/RU1902207	LG	LAES
PV	120	233L1120	RU2002174/RU1902207	LG	LAES
PV	121	233L1121	19T262-F2-P2/RU2002232	LG	LAES
PV	122	233L1122	19T262-F2-P2/RU2002232	LG	LAES
PV	123	233L1123	19T262-F2-P2/RU2002232	LG	LAES
PV	124	233L1124	19T262-F2-P2/RU2002232	LG	LAES
PV	125	233L1125	19T262-F2-P2/RU2002232	LG	LAES
PV	126	233L1126	19T262-F2-P2/RU2002232	LG	LAES
PV	127	233L1127	Catahoula/19T262-F2-P1	LG	LAES
PV	128	233L1128	Catahoula/19T262-F2-P1	LG	LAES
PV	129	233L1129	Catahoula/19T262-F2-P1	LG	LAES
PV	130	233L1130	Catahoula/19T262-F2-P1	LG	LAES
PV	131	233L1131	Catahoula/19T262-F2-P1	LG	LAES
PV	132	233L1132	Catahoula/19T262-F2-P1	LG	LAES
PV	133	233L1133	Catahoula/19T262-F2-P1	LG	LAES
PV	134	233L1134	182L1278/PVL02	LG	LAES
PV	135	233L1135	182L1278/PVL02	LG	LAES
PV	136	233L1136	183L2070/182L1278	LG	LAES
PV	137	233L1137	Catahoula/183L2070	LG	LAES
PV	138	233L1138	RU2002186/PVL03	LG	LAES
PV	139	233L1139	RU2002186/PVL03	LG	LAES
PV	140	233L1140	RU2002186/PVL03	LG	LAES
PV	141	233L1141	RU2002186/PVL03	LG	LAES
PV	142	233L1142	RU2002186/PVL03	LG	LAES
PV	143	233L1143	RU2002186/PVL03	LG	LAES
PV	144	233L1144	PVL03/PVL01	LG	LAES
PV	145	233L1145	PVL03/PVL01	LG	LAES
PV	146	233L1146	PVL03/PVL01	LG	LAES
PV	147	233L1147	RU2002070/Della2	AI	LAES
PV	148	233L1148	RU2002070/Della2	AI	LAES
PV	149	233L1149	RU2002070/Della2	AI	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
PV	150	233L1150	RU2002070/Della2	AI	LAES
PV	151	233L1151	RU2002070/RU2002150	LG	LAES
PV	152	233L1152	RU2002070/RU2002150	LG	LAES
PV	153	233L1153	RU2002070/RU2002150	LG	LAES
PV	154	233L1154	RU2002070/RU2002150	LG	LAES
PV	155	233L1155	RU2002070/RU2002186	LG	LAES
PV	156	233L1156	RU2002070/RU2002186	LG	LAES
PV	157	233L1157	RU2002070/RU2002186	LG	LAES
PV	158	233L1158	RU2002070/RU2002186	LG	LAES
PV	159	233L1159	RU2002070/RU2002186	LG	LAES
PV	160	233L1160	RU2002070/RU2002186	LG	LAES
PV	161	233L1161	RU2002070/RU2002186	LG	LAES
PV	162	233L1162	PVL03/Catahoula	LG	LAES
PV	163	233L1163	PVL03/Catahoula	LG	LAES
PV	164	233L1164	RU2002070/RU1602195	LG	LAES
PV	165	233L1165	CLL19/RU2002178	LG	LAES
PV	166	233L1166	CLL19/RU2002070	LG	LAES
PV	167	233L1167	CLL19/RU2002070	LG	LAES
PV	168	233L1168	CLL19/RU2002070	LG	LAES
PV	169	233L1169	CLL19/RU2002070	LG	LAES
PV	170	233L1170	CLL19/RU2002070	LG	LAES
PV	171	233L1171	CLL19/RU2002070	LG	LAES
PV	172	233L1172	CLL19/RU2002070	LG	LAES
PV	173	233L1173	CLL19/RU2002070	LG	LAES
PV	174	233L1174	CLL19/RU2002070	LG	LAES
PV	175	233L1175	CLL19/RU2002070	LG	LAES
PV	176	233L1176	PVL03/CLL19	LG	LAES
PV	177	233L1177	RU2002174/RU1602195	LG	LAES
PV	178	233L1178	RU2002174/RU1602195	LG	LAES
PV	179	233L1179	RU2002174/RU1602195	LG	LAES
PV	180	233L1180	RU2002174/RU1602195	LG	LAES
PV	181	233L1181	RU2002174/RU1602195	LG	LAES
PV	182	233L1182	RU2002174/RU1602195	LG	LAES
PV	183	233L1183	RU2002174/RU1602195	LG	LAES
PV	184	233L1184	RU2002174/RU1602195	LG	LAES
PV	185	233L1185	RU2002122/PVL01	LG	LAES
PV	186	233L1186	PVL03/RU1804067	LG	LAES
PV	187	233L1187	PVL03/RU1804067	LG	LAES
PV	188	233L1188	183L1231/RU1804067	LG	LAES
PV	189	233L1189	183L1231/RU1804067	LG	LAES
PV	190	233L1190	PVL03/AddiJo	LG	LAES
PV	191	233L1191	PVL03/AddiJo	LG	LAES
PV	192	233L1192	PVL03/AddiJo	LG	LAES
PV	193	233L1193	PVL03/AddiJo	LG	LAES
PV	194	233L1194	PVL03/AddiJo	LG	LAES
PV	195	233L1195	PVL03/AddiJo	LG	LAES
PV	196	233L1196	PVL03/AddiJo	LG	LAES
PV	197	233L1197	PVL03/Cheniere	LG	LAES
PV	198	233L1198	PVL03/Cheniere	LG	LAES
PV	199	233L1199	CL111/183L2070	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type†	Source‡
PV	200	233L1200	CL111/183L2070	LG	LAES
PV	201	233L1201	CL111/183L2070	LG	LAES
PV	202	233L1202	CL111/183L2070	LG	LAES
PV	203	233L1203	CL111/183L2070	LG	LAES
PV	204	233L1204	RU2002070/AddiJo	HI	LAES
PV	205	233L1205	RU2002070/AddiJo	LG	LAES
PV	206	233L1206	RU2002070/AddiJo	HI	LAES
PV	207	233L1207	RU2002070/AddiJo	LG	LAES
PV	208	233L1208	RU2002178/AddiJo	LG	LAES
PV	209	233L1209	RU2002178/AddiJo	LG	LAES
PV	210	233L1210	RU2002178/AddiJo	LG	LAES
PV	211	233L1211	RU2002178/AddiJo	LG	LAES
PV	212	233L1212	RU2002178/AddiJo	LG	LAES
PV	213	233L1213	RU2002178/AddiJo	LG	LAES
PV	214	233L1214	Catahoula/19T262-F2-P3	LG	LAES
PV	215	233L1215	Catahoula/19T262-F2-P3	LG	LAES
PV	216	233L1216	Catahoula/19T262-F2-P3	LG	LAES
PV	217	233L1217	Catahoula/19T262-F2-P3	LG	LAES
PV	218	233L1218	Catahoula/19T262-F2-P3	LG	LAES
PV	219	233L1219	Catahoula/19T262-F2-P3	LG	LAES
PV	220	233L1220	Catahoula/19T262-F2-P3	LG	LAES
PV	221	233L1221	Catahoula/19T262-F2-P3	LG	LAES
PV	222	233L1222	Catahoula/19T262-F2-P3	LG	LAES
PV	223	233L1223	Catahoula/19T262-F2-P3	LG	LAES
PV	224	233L1224	Catahoula/19T262-F2-P3	LG	LAES
PV	225	233L1225	19T262-F2-P2/RU2002122	HI	LAES
PV	226	233L1226	19T262-F2-P2/RU2002122	LG	LAES
PV	227	233L1227	19T262-F2-P2/RU2002122	HI	LAES
PV	228	233L1228	19T262-F2-P2/RU2002122	LG	LAES
PV	229	233L1229	19T262-F2-P2/RU2002122	LG	LAES
PV	230	233L1230	19T262-F2-P2/RU2002122	LG	LAES
PV	231	233L1231	19T262-F2-P2/RU2002122	LG	LAES
PV	232	233L1232	19T262-F2-P2/RU2002122	HI	LAES
PV	233	233L1233	19T262-F2-P2/RU2002122	LG	LAES
PV	234	233L1234	19T262-F2-P2/RU2002122	LG	LAES
PV	235	233L1235	19T262-F2-P2/RU2002122	LG	LAES
PV	236	233L1236	19T262-F2-P2/RU2002122	LG	LAES
PV	237	233L1237	RU2002070/RU2002146	HI	LAES
PV	238	233L1238	RU2002070/RU2002146	LG	LAES
PV	239	233L1239	RU2002070/RU2002146	LG	LAES
PV	240	233L1240	RU2002070/RU2002146	LG	LAES
PV	241	233L1241	RU2002070/RU2002146	LG	LAES
PV	242	233L1242	RU2002070/RU2002146	LG	LAES
PV	243	233L1243	RU2002070/RU2002146	LG	LAES
PV	244	233L1244	RU2002070/RU2002146	LG	LAES
PV	245	233L1245	RU2002070/RU2002146	LG	LAES
PV	246	233L1246	RU2002070/RU2002146	LG	LAES
PV	247	233L1247	RU2002070/RU2002146	LG	LAES
PV	248	233L1248	PVL03/RU2002150	LG	LAES
PV	249	233L1249	PVL03/RU2002150	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type†	Source‡
PV	250	233L1250	PVL03/RU2002150	LG	LAES
PV	251	233L1251	PVL03/RU2002150	LG	LAES
PV	252	233L1252	PVL03/RU2002150	LG	LAES
PV	253	233L1253	PVL03/RU2002150	LG	LAES
PV	254	233L1254	PVL03/RU2002150	LG	LAES
PV	255	233L1255	PVL03/RU2002150	LG	LAES
PV	256	233L1256	PVL03/RU2002150	LG	LAES
PV	257	233L1257	PVL03/RU2002150	LG	LAES
PV	258	233L1258	PVL03/RU2002150	LG	LAES
PV	259	233L1259	PVL03/RU2002150	LG	LAES
PV	260	233L1260	PVL03/RU2002150	LG	LAES
PV	261	233L1261	PVL03/RU2002150	LG	LAES
PV	262	233L1262	PVL03/RU1902207	LG	LAES
PV	263	233L1263	PVL03/RU1902207	LG	LAES
PV	264	233L1264	PVL03/RU1902207	LG	LAES
PV	265	233L1265	PVL03/RU1902207	LG	LAES
PV	266	233L1266	PVL03/RU1902207	LG	LAES
PV	267	233L1267	PVL03/RU1902207	LG	LAES
PV	268	233L1268	PVL03/RU1902207	LG	LAES
PV	269	233L1269	PVL03/RU1902207	LG	LAES
PV	270	233L1270	PVL03/RU1902207	LG	LAES
PV	271	233L1271	PVL03/RU1902207	LG	LAES
PV	272	233L1272	19T262-F2-P1/RU2002190	LG	LAES
PV	273	233L1273	19T262-F2-P1/RU2002190	LG	LAES
PV	274	233L1274	19T262-F2-P1/RU2002190	LG	LAES
PV	275	233L1275	19T262-F2-P1/RU2002190	LG	LAES
PV	276	233L1276	19T262-F2-P1/RU2002190	LG	LAES
PV	277	233L1277	19T262-F2-P1/RU2002190	LG	LAES
PV	278	233L1278	19T262-F2-P1/RU2002190	LG	LAES
PV	279	233L1279	19T262-F2-P1/RU2002190	LG	LAES
PV	280	233L1280	19T262-F2-P1/RU2002190	LG	LAES
PV	281	233L1281	19T262-F2-P1/RU1902207	LG	LAES
PV	282	233L1282	19T262-F2-P1/RU1902207	LG	LAES
PV	283	233L1283	19T262-F2-P1/RU1902207	LG	LAES
PV	284	233L1284	19T262-F2-P1/RU1902207	LG	LAES
PV	285	233L1285	19T262-F2-P1/RU1902207	LG	LAES
PV	286	233L1286	19T262-F2-P1/RU1902207	LG	LAES
PV	287	233L1287	19T262-F2-P1/RU1902207	LG	LAES
PV	288	233L1288	19T262-F2-P1/RU1902207	LG	LAES
PV	289	233L1289	19T262-F2-P1/RU1902207	LG	LAES
PV	290	233L1290	19T262-F2-P1/RU1902207	LG	LAES
PV	291	233L1291	19T262-F2-P1/RU1902207	LG	LAES
PV	292	233L1292	19T262-F2-P1/RU1902207	LG	LAES
PV	293	233L1293	RU2002070/RU2002122	LG	LAES
PV	294	233L1294	RU2002070/RU2002122	HI	LAES
PV	295	233L1295	RU2002070/RU2002122	LG	LAES
PV	296	233L1296	RU2002070/RU2002122	LG	LAES
PV	297	233L1297	PVL01/RU2002232	LG	LAES
PV	298	PVL03	PVL01/Catahoula	LG	LAES
PV	299	RU2102186	PVL01/Catahoula	HI	LAES

Continued.

Table 2. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
PV	300	213L1140	PVL01/Catahoula	HI	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, LA.

Table 3. Grain and milling yields and agronomic performance of entries in the 2023 Provisia Preliminary Yield trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
60	233L1060	1.0	99.0	84.0	35.7	62.0	34.7	11014.5	2308.5
95	233L1095	3.0	93.0	93.0	45.9	68.2	19.3	10338.2	3608.5
296	233L1296	1.0	97.0	93.0	43.5	65.6	25.4	10267.7	2199.9
63	233L1063	3.0	100.0	90.0	43.9	63.6	33.2	10188.9	3269.3
123	233L1123	3.0	94.0	84.0	54.6	69.8	25.5	10163.2	2126.3
235	233L1235	3.0	93.0	83.0	33.3	64.6	46.6	10020.1	3138.7
208	233L1208	3.0	99.0	102.0	39.2	66.8	54.9	10018.1	4180.0
209	233L1209	3.0	97.0	91.0	36.1	63.6	40.8	9956.2	1954.1
88	233L1088	3.0	95.0	96.0	52.0	68.8	34.7	9923.5	2572.6
22	233L1022	3.0	101.0	98.0	55.1	68.5	20.2	9881.6	2995.3
75	233L1075	3.0	98.0	94.0	51.7	68.9	24.4	9875.1	3421.3
233	233L1233	3.0	97.0	92.0	40.5	67.4	48.8	9755.5	3675.1
227	233L1227	5.0	98.0	96.0	52.8	69.3	26.5	9745.4	3804.0
299	RU2102186	3.0	98.0	97.0	59.2	70.8	25.8	9721.9	2320.8
229	233L1229	5.0	98.0	92.0	42.5	67.6	54.4	9713.3	3744.5
241	233L1241	3.0	98.0	94.0	56.9	68.6	24.2	9713.0	3546.6
125	233L1125	3.0	95.0	85.0	50.7	68.9	19.9	9694.3	2711.3
300	213L1140	5.0	99.0	89.0	47.0	66.6	22.1	9675.9	2271.8
237	233L1237	3.0	95.0	91.0	47.4	65.5	28.4	9646.7	2279.8
81	233L1081	3.0	96.0	94.0	43.4	67.2	27.6	9643.7	3450.3
58	233L1058	1.0	99.0	98.0	41.4	65.3	22.0	9620.2	3244.7
84	233L1084	3.0	97.0	92.0	48.3	68.5	30.6	9616.7	2077.0
31	233L1031	3.0	96.0	97.0	35.4	68.3	30.4	9570.9	3588.8
262	233L1262	3.0	93.0	93.0	45.7	68.5	36.8	9562.2	2134.6
57	233L1057	3.0	102.0	97.0	53.9	68.7	21.2	9560.3	1681.6
62	233L1062	1.0	104.0	102.0	55.8	67.9	19.4	9552.1	3240.4
89	233L1089	3.0	96.0	87.0	52.6	69.2	22.9	9539.2	2382.8
274	233L1274	3.0	95.0	95.0	40.9	67.8	29.6	9535.5	2168.8
93	233L1093	3.0	97.0	99.0	51.0	69.1	31.3	9481.8	2824.7
35	233L1035	3.0	93.0	89.0	56.5	70.2	26.7	9478.0	2485.3
61	233L1061	3.0	100.0	81.0	56.3	67.0	27.7	9466.9	1739.4
8	233L1008	3.0	100.0	103.0	58.4	71.8	20.0	9432.9	3660.1
239	233L1239	3.0	98.0	94.0	55.3	68.2	28.7	9423.8	2756.2
59	233L1059	3.0	100.0	97.0	50.3	67.8	27.2	9406.1	3722.0
152	233L1152	3.0	96.0	88.0	51.1	68.0	34.6	9395.5	2424.3
286	233L1286	3.0	97.0	93.0	50.7	67.4	43.1	9391.1	3217.4
90	233L1090	3.0	97.0	95.0	55.9	70.4	25.5	9386.8	2717.5
23	233L1023	3.0	103.0	99.0	49.8	66.6	16.9	9378.3	3655.8
236	233L1236	3.0	94.0	90.0	42.1	66.6	38.1	9374.1	2724.0
254	233L1254	3.0	96.0	90.0	43.0	67.5	33.4	9354.5	2094.0
228	233L1228	3.0	97.0	90.0	50.1	67.6	29.3	9343.7	2936.8
283	233L1283	3.0	97.0	98.0	47.3	67.8	35.1	9341.3	2636.6

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
270	233L1270	3.0	94.0	89.0	51.1	68.5	29.6	9339.3	2328.9
226	233L1226	3.0	97.0	85.0	42.9	67.7	39.1	9330.5	2522.9
79	233L1079	3.0	98.0	91.0	50.6	68.2	31.4	9315.8	3364.6
83	233L1083	3.0	93.0	97.0	51.1	68.2	18.5	9314.4	2372.4
82	233L1082	3.0	98.0	90.0	60.3	69.6	18.0	9302.1	3744.8
153	233L1153	5.0	98.0	93.0	51.9	69.2	33.7	9278.5	1945.5
206	233L1206	3.0	100.0	95.0	59.8	70.5	24.6	9278.1	3713.9
273	233L1273	3.0	94.0	96.0	35.5	67.1	34.6	9260.9	1894.3
293	233L1293	3.0	99.0	101.0	50.9	66.4	20.5	9247.3	4251.1
91	233L1091	3.0	97.0	92.0	58.2	70.6	15.1	9239.7	3071.3
14	233L1014	3.0	99.0	100.0	59.6	67.2	11.3	9235.4	4022.0
140	233L1140	3.0	100.0	100.0	56.5	69.3	21.5	9224.6	3318.8
37	233L1037	1.0	96.0	97.0	45.5	68.4	37.3	9212.7	2583.7
98	233L1098	3.0	96.0	89.0	46.4	67.3	28.9	9193.9	3142.5
85	233L1085	3.0	97.0	93.0	51.7	70.7	27.2	9192.6	2375.2
20	233L1020	1.0	101.0	96.0	62.8	70.6	26.2	9190.6	2883.7
27	233L1027	3.0	96.0	94.0	54.5	69.7	20.5	9189.6	2666.6
124	233L1124	3.0	93.0	86.0	49.1	68.7	31.5	9188.4	2153.5
77	233L1077	3.0	99.0	103.0	42.5	66.6	18.8	9171.1	3912.7
220	233L1220	3.0	97.0	101.0	43.6	66.6	32.4	9155.3	2604.5
217	233L1217	5.0	98.0	94.0	51.5	67.9	33.5	9153.1	3203.9
231	233L1231	5.0	97.0	89.0	41.2	65.5	57.2	9132.0	3016.7
55	233L1055	3.0	101.0	98.0	62.9	71.1	15.5	9125.3	3774.6
97	233L1097	3.0	98.0	98.0	47.5	66.8	26.1	9116.9	3739.7
199	233L1199	5.0	98.0	91.0	57.8	70.1	23.0	9115.5	3525.1
285	233L1285	3.0	98.0	91.0	48.9	67.7	35.2	9114.7	1644.0
7	233L1007	3.0	99.0	96.0	46.2	69.8	27.4	9106.1	2593.4
121	233L1121	3.0	96.0	95.0	46.7	70.2	24.5	9083.2	2682.4
30	233L1030	3.0	99.0	86.0	37.4	66.5	20.8	9078.4	2883.1
247	233L1247	3.0	93.0	95.0	44.3	64.2	22.4	9066.9	2353.4
4	233L1004	3.0	101.0	92.0	55.2	69.5	19.0	9021.1	3313.3
107	233L1107	3.0	100.0	92.0	57.2	70.8	31.6	9018.1	2794.9
143	233L1143	3.0	99.0	83.0	39.2	66.3	24.9	9007.7	1926.5
139	233L1139	3.0	98.0	94.0	51.3	69.5	21.3	9000.6	3123.8
108	233L1108	3.0	99.0	91.0	57.3	70.0	27.5	8995.5	3253.5
56	233L1056	5.0	101.0	90.0	63.4	71.2	16.5	8969.6	3998.1
298	PVL03	1.0	97.0	95.0	39.6	67.1	31.1	8967.0	2511.7
260	233L1260	3.0	94.0	93.0	37.5	65.3	41.4	8959.9	2263.1
210	233L1210	3.0	99.0	100.0	44.3	66.2	36.9	8942.3	2115.5
207	233L1207	3.0	100.0	92.0	59.1	69.7	21.1	8938.6	3043.0
70	233L1070	3.0	100.0	84.0	52.1	67.5	40.8	8935.2	3004.6
204	233L1204	3.0	100.0	100.0	44.0	65.4	38.8	8933.3	3450.3

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
193	233L1193	3.0	99.0	96.0	41.3	66.3	46.0	8924.8	2874.2
243	233L1243	3.0	98.0	90.0	58.8	70.4	34.6	8922.7	2950.9
192	233L1192	3.0	99.0	92.0	51.7	67.3	23.3	8910.2	2898.8
191	233L1191	3.0	98.0	92.0	54.4	69.5	29.0	8904.5	2938.3
214	233L1214	3.0	98.0	89.0	44.8	66.3	33.0	8896.7	2624.5
245	233L1245	3.0	96.0	87.0	61.2	71.6	33.4	8894.9	2637.1
49	233L1049	3.0	105.0	96.0	65.2	72.8	13.6	8890.1	3176.8
113	233L1113	3.0	98.0	95.0	60.9	70.4	18.9	8886.6	4315.8
101	233L1101	3.0	98.0	94.0	42.1	66.8	36.8	8879.9	2011.3
154	233L1154	3.0	97.0	91.0	36.4	65.3	34.1	8879.5	1598.2
28	233L1028	1.0	94.0	88.0	48.3	68.0	26.1	8877.3	1697.5
9	233L1009	1.0	101.0	99.0	59.3	71.0	21.1	8865.6	3729.1
76	233L1076	3.0	98.0	100.0	45.3	66.8	15.0	8851.2	3018.6
32	233L1032	3.0	96.0	91.0	45.1	67.1	14.3	8846.0	2896.0
92	233L1092	3.0	97.0	93.0	50.2	69.5	33.8	8822.9	2939.2
200	233L1200	3.0	97.0	101.0	61.2	71.0	23.2	8819.0	4296.4
24	233L1024	3.0	100.0	87.0	45.4	67.6	22.9	8799.6	3528.7
87	233L1087	3.0	97.0	96.0	50.0	68.7	35.8	8795.7	2487.0
295	233L1295	3.0	101.0	97.0	56.4	68.9	18.2	8795.7	3454.9
225	233L1225	3.0	98.0	90.0	59.0	69.6	31.9	8794.4	2568.6
268	233L1268	3.0	98.0	95.0	56.4	70.7	32.5	8791.6	2300.8
36	233L1036	3.0	100.0	96.0	54.4	69.3	20.0	8789.4	3283.0
266	233L1266	3.0	97.0	91.0	49.7	68.5	37.4	8785.2	2258.9
281	233L1281	3.0	97.0	93.0	53.0	68.6	32.7	8784.5	3142.7
17	233L1017	3.0	97.0	102.0	52.1	69.3	27.3	8768.5	2685.8
288	233L1288	5.0	98.0	90.0	50.1	67.7	30.7	8767.1	2454.0
94	233L1094	3.0	97.0	84.0	54.6	69.9	27.3	8760.9	2859.9
78	233L1078	3.0	98.0	102.0	42.9	67.1	23.7	8750.6	3351.6
234	233L1234	3.0	90.0	86.0	38.7	66.9	26.8	8747.6	2703.0
74	233L1074	3.0	94.0	84.0	58.2	70.9	34.8	8733.1	2827.6
223	233L1223	3.0	97.0	84.0	48.4	67.3	31.4	8729.5	2458.0
292	233L1292	3.0	98.0	83.0	52.3	70.2	33.0	8722.4	2951.3
156	233L1156	3.0	100.0	92.0	54.7	67.8	26.4	8722.2	2727.2
289	233L1289	3.0	98.0	93.0	47.1	65.7	30.1	8719.1	2860.2
176	233L1176	1.0	96.0	92.0	39.5	66.2	30.1	8713.4	2608.8
249	233L1249	3.0	93.0	83.0	44.1	67.0	33.1	8697.1	2461.4
232	233L1232	3.0	94.0	90.0	43.5	67.3	35.7	8696.3	3388.4
144	233L1144	3.0	101.0	95.0	55.2	69.7	23.8	8694.2	2823.4
187	233L1187	3.0	93.0	85.0	46.1	68.0	10.6	8677.5	3336.4
116	233L1116	3.0	100.0	88.0	60.7	71.6	21.0	8675.8	3250.4
122	233L1122	3.0	96.0	85.0	41.9	68.5	34.8	8665.6	2007.0
190	233L1190	3.0	99.0	89.0	54.5	68.0	20.2	8663.8	2682.5
250	233L1250	3.0	98.0	101.0	49.5	68.2	25.5	8660.8	3268.7

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
194	233L1194	5.0	100.0	92.0	46.0	67.2	34.5	8650.8	3214.7
244	233L1244	3.0	98.0	97.0	60.5	70.1	19.5	8642.6	3603.7
106	233L1106	3.0	98.0	94.0	50.1	69.4	24.5	8640.9	3705.4
102	233L1102	5.0	100.0	94.0	55.8	69.5	39.2	8630.1	3533.7
126	233L1126	3.0	97.0	91.0	46.7	66.7	25.5	8621.1	2448.6
148	233L1148	3.0	100.0	87.0	56.8	69.1	28.8	8616.8	2762.7
269	233L1269	5.0	98.0	92.0	54.9	70.8	30.7	8612.0	2765.8
161	233L1161	3.0	102.0	93.0	60.2	69.0	20.7	8611.6	3126.7
196	233L1196	3.0	99.0	94.0	60.0	69.9	27.9	8610.8	3899.0
282	233L1282	5.0	98.0	89.0	54.1	68.7	36.4	8607.6	4065.9
216	233L1216	3.0	97.0	96.0	44.6	68.2	23.9	8584.2	3411.4
18	233L1018	3.0	100.0	97.0	59.4	69.5	20.3	8583.9	3773.3
271	233L1271	3.0	98.0	98.0	57.8	70.7	26.8	8578.2	2720.9
197	233L1197	3.0	100.0	90.0	56.7	70.6	21.6	8577.9	2585.9
166	233L1166	3.0	97.0	94.0	49.2	68.0	29.6	8569.6	2660.3
142	233L1142	3.0	98.0	93.0	49.8	68.5	26.8	8567.2	2847.2
155	233L1155	5.0	98.0	92.0	46.7	67.7	34.8	8552.2	2339.6
151	233L1151	3.0	94.0	88.0	30.0	65.2	40.0	8542.8	1671.9
16	233L1016	3.0	101.0	98.0	67.3	72.6	24.0	8539.9	4285.9
29	233L1029	3.0	100.0	91.0	45.4	66.5	27.7	8531.6	4155.5
221	233L1221	3.0	98.0	89.0	50.4	67.7	28.0	8531.4	3790.3
215	233L1215	3.0	98.0	88.0	45.1	65.4	36.4	8527.2	3407.4
86	233L1086	3.0	93.0	87.0	54.4	68.3	24.2	8517.3	2587.2
279	233L1279	3.0	98.0	84.0	47.6	67.9	32.6	8507.5	2528.0
69	233L1069	3.0	101.0	85.0	59.3	70.0	15.1	8496.4	2660.3
257	233L1257	3.0	98.0	87.0	50.9	68.3	29.6	8492.1	1577.8
195	233L1195	3.0	100.0	93.0	52.2	69.3	36.7	8491.0	2874.6
114	233L1114	3.0	99.0	87.0	52.0	69.6	27.6	8489.3	3728.6
40	233L1040	3.0	99.0	94.0	47.8	66.2	17.0	8483.7	2692.7
25	233L1025	5.0	100.0	84.0	42.6	65.4	35.6	8470.6	3586.5
131	233L1131	3.0	98.0	94.0	50.0	68.8	24.4	8470.6	3248.2
246	233L1246	3.0	98.0	82.0	58.2	70.4	39.1	8466.0	2170.4
211	233L1211	3.0	101.0	88.0	34.7	62.7	36.5	8464.7	1630.3
72	233L1072	3.0	101.0	88.0	60.1	70.1	15.7	8432.2	3725.6
149	233L1149	3.0	98.0	88.0	45.6	66.0	14.5	8414.4	2798.6
264	233L1264	3.0	97.0	97.0	56.1	69.8	31.5	8411.6	2384.8
253	233L1253	3.0	98.0	94.0	51.7	68.2	30.5	8408.0	2461.4
212	233L1212	3.0	102.0	91.0	43.8	64.5	40.7	8399.2	3162.9
178	233L1178	3.0	97.0	98.0	49.4	69.1	42.3	8397.7	3043.3
68	233L1068	1.0	101.0	102.0	54.0	68.8	27.7	8392.4	2460.1
39	233L1039	3.0	100.0	96.0	46.5	63.3	18.4	8384.3	1989.5
259	233L1259	3.0	98.0	91.0	49.7	68.1	22.4	8382.8	2606.5
54	233L1054	3.0	100.0	83.0	62.7	71.0	21.7	8379.3	3327.7

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
272	233L1272	3.0	95.0	77.0	34.6	65.5	28.0	8369.3	1828.8
10	233L1010	3.0	99.0	93.0	49.2	68.8	43.4	8356.5	3135.4
105	233L1105	3.0	100.0	95.0	62.7	71.8	23.0	8350.2	2994.0
186	233L1186	3.0	93.0	87.0	50.0	65.8	17.8	8349.4	3141.8
71	233L1071	3.0	100.0	92.0	56.8	70.4	28.7	8348.5	3407.4
287	233L1287	3.0	98.0	96.0	49.9	67.8	24.3	8337.2	2485.3
179	233L1179	1.0	100.0	100.0	61.7	71.8	19.6	8333.5	4010.9
64	233L1064	5.0	100.0	92.0	53.3	67.6	23.9	8325.2	2984.7
240	233L1240	5.0	98.0	85.0	56.2	66.8	28.6	8325.2	3128.0
263	233L1263	3.0	94.0	81.0	49.0	68.2	30.5	8320.5	1970.4
203	233L1203	1.0	98.0	90.0	58.6	69.6	19.5	8317.4	3425.9
238	233L1238	5.0	100.0	89.0	59.6	70.1	27.3	8316.0	2514.1
145	233L1145	5.0	101.0	92.0	62.2	70.9	17.1	8313.8	4271.2
248	233L1248	3.0	96.0	92.0	51.6	68.9	29.6	8313.6	2540.9
112	233L1112	3.0	98.0	97.0	56.8	70.3	24.9	8303.9	3993.2
275	233L1275	3.0	97.0	89.0	42.0	67.9	33.0	8300.2	2140.6
52	233L1052	3.0	102.0	84.0	60.0	70.3	21.0	8296.3	2697.0
276	233L1276	3.0	98.0	93.0	48.5	67.3	23.4	8286.7	2226.9
258	233L1258	3.0	97.0	94.0	47.4	68.2	30.6	8278.5	1648.8
189	233L1189	3.0	98.0	100.0	56.9	69.5	32.8	8278.3	3865.1
119	233L1119	3.0	100.0	99.0	57.3	71.5	30.4	8271.9	3256.9
277	233L1277	3.0	97.0	83.0	31.6	64.4	28.5	8264.8	2051.1
183	233L1183	3.0	98.0	96.0	41.3	68.9	29.2	8259.4	3240.1
118	233L1118	3.0	100.0	95.0	65.0	72.6	21.7	8249.7	3737.8
205	233L1205	3.0	103.0	86.0	53.6	68.7	27.8	8249.6	2236.9
267	233L1267	3.0	97.0	91.0	49.2	68.6	37.2	8236.2	1891.6
222	233L1222	3.0	98.0	92.0	42.5	69.1	35.0	8233.4	2509.3
251	233L1251	3.0	97.0	87.0	42.8	67.0	29.4	8220.8	1915.5
255	233L1255	3.0	97.0	91.0	41.3	66.2	38.1	8212.2	2505.7
1	233L1001	5.0	98.0	85.0	41.3	65.1	39.9	8204.3	4107.1
129	233L1129	3.0	97.0	92.0	50.8	69.1	11.5	8195.7	3147.4
284	233L1284	3.0	98.0	92.0	54.8	69.4	30.0	8193.3	2437.9
218	233L1218	3.0	100.0	91.0	63.5	71.0	23.8	8184.9	3528.2
163	233L1163	5.0	98.0	84.0	46.7	68.3	30.3	8170.2	2127.7
168	233L1168	3.0	96.0	88.0	49.0	68.4	24.2	8166.6	2240.1
280	233L1280	3.0	97.0	89.0	35.9	66.3	27.1	8163.0	1783.8
19	233L1019	3.0	103.0	97.0	64.9	71.3	17.4	8150.4	3711.8
201	233L1201	3.0	96.0	99.0	50.2	67.6	31.7	8146.3	2685.0
294	233L1294	3.0	101.0	83.0	54.5	68.1	22.1	8139.9	3020.2
11	233L1011	3.0	98.0	94.0	61.8	71.1	23.4	8136.9	3398.7
127	233L1127	3.0	100.0	98.0	47.3	68.0	15.6	8135.2	2350.7
252	233L1252	3.0	98.0	88.0	55.8	69.4	20.5	8135.0	2453.7
111	233L1111	3.0	100.0	97.0	62.9	73.1	19.7	8123.5	3951.3

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
141	233L1141	3.0	99.0	93.0	53.3	69.3	25.9	8098.5	3474.1
13	233L1013	3.0	100.0	98.0	48.1	67.6	30.4	8094.8	2695.3
188	233L1188	3.0	97.0	101.0	48.9	67.6	22.9	8084.1	3568.3
174	233L1174	3.0	99.0	93.0	46.6	67.4	23.8	8078.8	3504.3
242	233L1242	3.0	97.0	86.0	59.1	68.6	28.3	8076.1	3254.2
38	233L1038	3.0	99.0	98.0	47.1	67.1	16.2	8056.1	2346.2
219	233L1219	3.0	99.0	84.0	50.1	68.5	30.9	8055.8	2452.3
43	233L1043	3.0	100.0	97.0	51.2	65.1	24.3	8051.9	2796.3
261	233L1261	3.0	98.0	94.0	51.3	67.5	25.6	8042.7	2669.4
21	233L1021	3.0	101.0	94.0	56.9	70.0	16.8	8039.1	1597.8
278	233L1278	3.0	98.0	96.0	44.5	67.0	28.1	8034.8	2126.7
202	233L1202	3.0	97.0	94.0	54.9	69.1	22.6	8029.1	2542.9
265	233L1265	3.0	97.0	92.0	47.0	68.4	23.1	8015.7	2353.4
177	233L1177	3.0	98.0	95.0	46.3	69.4	38.2	8009.9	2785.6
73	233L1073	3.0	97.0	89.0	56.7	69.6	33.6	7996.6	3733.6
182	233L1182	3.0	100.0	94.0	58.7	70.8	26.7	7996.0	3158.4
297	233L1297	5.0	100.0	80.0	56.1	69.1	21.6	7995.1	3292.0
3	233L1003	3.0	99.0	88.0	53.6	68.0	31.7	7990.4	3985.5
33	233L1033	5.0	99.0	94.0	46.9	67.7	25.5	7990.4	4454.2
158	233L1158	1.0	102.0	96.0	57.5	69.2	19.8	7988.3	2889.4
138	233L1138	3.0	97.0	79.0	43.2	66.9	20.3	7978.4	2925.3
67	233L1067	3.0	98.0	97.0	57.5	70.1	31.0	7968.2	2989.9
224	233L1224	3.0	98.0	92.0	56.0	69.5	27.7	7968.2	2807.7
230	233L1230	3.0	90.0	81.0	38.4	66.5	34.4	7958.8	1764.4
104	233L1104	3.0	99.0	91.0	59.8	70.0	31.5	7952.3	3651.5
110	233L1110	3.0	98.0	91.0	42.7	68.8	39.2	7939.1	2671.8
120	233L1120	3.0	99.0	91.0	60.4	72.2	26.1	7929.6	2965.1
115	233L1115	3.0	100.0	101.0	61.4	72.7	32.7	7927.0	3064.8
171	233L1171	3.0	100.0	84.0	55.6	68.5	25.3	7893.6	2537.9
117	233L1117	3.0	99.0	102.0	51.1	69.2	34.6	7873.1	3548.1
26	233L1026	3.0	98.0	92.0	48.4	66.8	34.8	7855.4	2830.3
175	233L1175	3.0	98.0	92.0	60.4	70.1	18.7	7841.8	2392.0
150	233L1150	3.0	99.0	92.0	46.0	67.4	21.7	7840.8	2850.5
173	233L1173	1.0	98.0	89.0	55.1	68.2	24.5	7789.1	1555.5
12	233L1012	3.0	104.0	88.0	63.9	71.5	20.2	7785.2	2473.7
15	233L1015	3.0	101.0	93.0	63.7	70.9	19.9	7745.6	3487.4
290	233L1290	3.0	100.0	88.0	55.9	68.8	19.1	7733.8	2928.7
170	233L1170	3.0	99.0	89.0	53.9	69.2	26.7	7711.9	2698.3
256	233L1256	3.0	98.0	93.0	54.9	68.1	17.0	7694.5	2604.5
66	233L1066	3.0	97.0	98.0	58.7	70.3	18.9	7690.9	2464.9
146	233L1146	5.0	104.0	82.0	60.1	70.3	30.0	7679.6	2289.3
132	233L1132	3.0	96.0	85.0	53.4	69.2	24.6	7677.3	1138.3
291	233L1291	3.0	94.0	88.0	39.9	66.5	39.0	7676.6	1436.4

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
53	233L1053	5.0	106.0	100.0	39.1	66.0	18.4	7672.5	4542.5
185	233L1185	3.0	100.0	88.0	54.1	69.1	14.0	7671.3	3134.4
162	233L1162	5.0	99.0	95.0	44.0	67.2	26.8	7630.8	2198.6
136	233L1136	3.0	100.0	91.0	59.7	69.1	22.1	7623.2	3233.6
103	233L1103	3.0	100.0	88.0	51.4	69.3	26.2	7610.9	2808.3
164	233L1164	3.0	98.0	94.0	51.6	66.6	27.5	7597.2	1971.6
96	233L1096	3.0	102.0	94.0	55.0	70.0	25.4	7594.4	1283.0
48	233L1048	3.0	101.0	88.0	57.0	68.9	29.3	7583.3	2081.0
213	233L1213	3.0	103.0	98.0	52.3	68.1	33.0	7544.8	1302.7
160	233L1160	5.0	104.0	84.0	60.9	69.8	26.0	7535.2	2749.2
169	233L1169	3.0	99.0	95.0	60.6	70.3	17.5	7534.3	3352.8
198	233L1198	3.0	95.0	94.0	55.1	69.2	17.8	7528.4	3132.0
109	233L1109	5.0	100.0	94.0	60.1	71.0	27.1	7521.1	3380.4
135	233L1135	3.0	98.0	98.0	62.7	70.3	19.3	7509.4	3275.4
165	233L1165	3.0	94.0	86.0	31.5	65.7	33.6	7488.0	2070.4
180	233L1180	5.0	98.0	99.0	52.9	69.5	36.6	7465.3	2272.6
65	233L1065	3.0	98.0	83.0	46.9	64.3	32.2	7457.7	2333.2
41	233L1041	3.0	102.0	100.0	53.5	66.5	20.3	7454.8	2554.2
100	233L1100	3.0	100.0	94.0	40.0	66.3	33.0	7393.4	1937.1
80	233L1080	3.0	101.0	101.0	54.9	67.4	17.7	7393.0	3102.4
130	233L1130	3.0	97.0	87.0	43.3	66.9	27.6	7385.3	1251.9
167	233L1167	3.0	102.0	86.0	57.3	69.9	30.2	7348.1	2646.7
133	233L1133	5.0	98.0	84.0	41.9	67.5	19.8	7334.2	3004.7
47	233L1047	3.0	94.0	91.0	50.2	67.5	14.2	7334.1	2717.1
159	233L1159	3.0	103.0	87.0	60.9	69.5	24.4	7303.7	1693.7
184	233L1184	3.0	98.0	92.0	45.4	67.7	37.1	7290.3	2632.8
46	233L1046	3.0	98.0	91.0	40.7	68.2	11.3	7266.9	3431.6
6	233L1006	5.0	106.0	94.0	58.5	69.2	11.2	7257.9	3226.7
128	233L1128	3.0	98.0	87.0	49.2	67.9	20.5	7243.1	1947.5
42	233L1042	3.0	102.0	86.0	49.4	64.5	22.1	7239.9	2528.2
134	233L1134	3.0	97.0	91.0	64.4	70.3	8.8	7228.1	3312.7
172	233L1172	3.0	98.0	86.0	50.1	67.7	26.1	7225.1	1764.1
50	233L1050	3.0	100.0	94.0	54.2	68.2	13.6	7126.0	2678.9
157	233L1157	5.0	102.0	88.0	53.9	65.6	11.8	7046.9	3368.6
34	233L1034	3.0	97.0	94.0	47.5	69.4	14.0	6973.3	2297.4
51	233L1051	3.0	101.0	96.0	62.1	69.9	17.6	6972.3	2998.2
181	233L1181	3.0	102.0	94.0	55.2	67.8	21.4	6904.5	3233.1
2	233L1002	3.0	101.0	86.0	58.0	69.0	27.0	6844.2	3027.5
99	233L1099	3.0	101.0	103.0	52.4	68.2	21.5	6707.7	1868.2
5	233L1005	3.0	103.0	82.0	53.2	68.9	29.0	6344.8	2761.9
147	233L1147	3.0	101.0	88.0	58.3	69.1	27.0	6159.8	2928.7
137	233L1137	5.0	103.0	92.0	61.6	70.6	21.9	6134.0	2491.1

Continued.

Table 3. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
44	233L1044	3.0	101.0	96.0	57.3	67.8	29.7	5999.3	3047.5
45	233L1045	3.0	97.0	108.0	44.7	64.5	22.8	5791.5	1336.0

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

Table 4. Grain and milling yields and agronomic performance of entries in the 2023 Provisia Preliminary Yield trial – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
64	233L1064	3.0	75.0	102.0	59.1	70.5	21.5	10092.8	3297.2
127	233L1127	3.0	78.0	102.0	59.8	71.2	14.9	9831.4	2075.2
83	233L1083	3.0	69.0	107.0	63.2	71.8	15.7	9822.7	3064.9
20	233L1020	3.0	77.0	108.0	61.8	71.5	24.2	9747.1	665.8
124	233L1124	3.0	68.0	98.0	62.0	70.9	23.9	9674.3	2450.8
95	233L1095	3.0	70.0	90.0	62.2	72.1	15.4	9673.1	2599.8
57	233L1057	3.0	78.0	102.0	58.5	69.8	19.9	9628.0	964.2
153	233L1153	1.0	70.0	100.0	62.7	71.6	22.6	9598.7	1899.8
155	233L1155	3.0	73.0	100.0	60.7	71.1	23.5	9547.4	1124.5
91	233L1091	3.0	72.0	106.0	68.9	74.4	15.7	9526.1	3886.1
108	233L1108	3.0	74.0	101.0	63.9	71.7	20.5	9518.3	2883.5
70	233L1070	3.0	76.0	91.0	61.7	71.4	30.2	9488.4	963.7
300	213L1140	3.0	74.0	99.0	47.7	66.2	11.3	9452.7	1399.0
176	233L1176	1.0	70.0	108.0	51.4	67.7	25.7	9450.1	3036.9
93	233L1093	3.0	70.0	101.0	60.7	70.6	23.9	9428.1	246.1
239	233L1239	3.0	73.0	101.0	56.0	68.9	22.1	9424.1	2184.5
286	233L1286	3.0	73.0	104.0	60.7	70.2	27.7	9421.0	1186.2
282	233L1282	3.0	70.0	100.0	59.4	69.9	27.0	9408.2	2103.4
205	233L1205	3.0	77.0	98.0	58.5	70.3	18.5	9403.4	3599.8
116	233L1116	3.0	76.0	104.0	66.9	73.6	15.0	9384.2	1190.0
228	233L1228	3.0	71.0	101.0	62.4	71.5	19.6	9352.5	1307.8
10	233L1010	3.0	75.0	104.0	60.1	71.2	25.5	9352.2	2158.3
81	233L1081	3.0	71.0	102.0	60.5	70.5	14.6	9352.2	3961.7
275	233L1275	3.0	71.0	109.0	59.5	71.8	21.0	9337.0	2888.0
285	233L1285	3.0	70.0	105.0	59.1	69.8	25.5	9324.2	2075.9
264	233L1264	3.0	70.0	100.0	58.7	69.9	19.7	9320.8	4498.5
69	233L1069	3.0	78.0	97.0	63.6	71.7	13.8	9315.0	811.1
199	233L1199	3.0	73.0	95.0	58.2	69.6	15.6	9307.4	2198.6
90	233L1090	1.0	70.0	104.0	61.6	71.2	17.9	9302.6	3246.9
168	233L1168	1.0	69.0	104.0	60.4	69.8	19.4	9302.6	3852.8
18	233L1018	3.0	78.0	99.0	63.2	70.9	18.6	9299.8	705.4
268	233L1268	3.0	73.0	107.0	64.3	72.4	23.2	9270.5	1665.9
270	233L1270	3.0	69.0	100.0	59.7	71.5	25.4	9265.3	1920.1
244	233L1244	5.0	72.0	105.0	66.2	72.4	18.1	9247.6	4295.9
125	233L1125	5.0	70.0	96.0	65.2	73.2	14.9	9244.9	1239.5
74	233L1074	3.0	68.0	97.0	66.9	73.6	25.8	9241.5	4373.7
145	233L1145	3.0	76.0	105.0	65.3	73.1	15.2	9197.2	1645.7
22	233L1022	3.0	76.0	101.0	57.0	68.2	11.0	9187.3	1528.1
243	233L1243	3.0	70.0	95.0	64.1	72.3	22.6	9166.5	2285.0
271	233L1271	3.0	71.0	106.0	64.5	72.4	20.9	9166.4	2932.7
123	233L1123	3.0	68.0	103.0	63.4	71.8	23.3	9160.6	1792.0
162	233L1162	3.0	71.0	105.0	59.7	70.1	15.9	9154.1	3373.8

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
178	233L1178	3.0	72.0	110.0	57.8	69.3	27.6	9143.4	1631.9
48	233L1048	3.0	79.0	101.0	59.8	69.9	20.5	9126.2	1931.5
296	233L1296	1.0	71.0	96.0	50.2	68.2	16.8	9102.1	2152.3
214	233L1214	3.0	70.0	107.0	60.7	70.9	28.6	9101.1	2399.1
73	233L1073	3.0	70.0	95.0	65.8	73.7	25.8	9078.1	3469.8
163	233L1163	3.0	71.0	101.0	60.5	70.3	18.8	9073.9	2672.2
218	233L1218	3.0	75.0	102.0	63.4	70.7	19.3	9065.7	3586.6
195	233L1195	3.0	75.0	96.0	61.3	71.2	19.1	9056.9	1282.1
216	233L1216	3.0	72.0	100.0	61.8	71.4	23.9	9026.7	2577.3
272	233L1272	3.0	69.0	95.0	52.6	68.2	16.8	9012.6	3322.2
269	233L1269	1.0	70.0	103.0	58.4	70.1	18.8	9010.2	2842.0
88	233L1088	1.0	68.0	108.0	60.2	70.6	21.7	8984.1	1904.9
130	233L1130	3.0	71.0	104.0	59.9	71.0	21.4	8979.9	3396.5
98	233L1098	3.0	71.0	95.0	60.1	70.8	24.1	8976.0	3064.7
27	233L1027	3.0	71.0	108.0	54.8	68.1	15.7	8973.8	1560.2
129	233L1129	3.0	71.0	102.0	61.8	71.0	12.4	8969.6	2275.5
293	233L1293	3.0	75.0	105.0	48.6	66.3	14.4	8967.6	1562.2
4	233L1004	5.0	79.0	98.0	56.6	69.7	15.1	8967.4	506.4
49	233L1049	3.0	83.0	103.0	63.3	72.3	10.0	8954.2	2131.6
150	233L1150	3.0	74.0	100.0	58.7	70.2	14.7	8943.1	3363.6
292	233L1292	3.0	71.0	103.0	61.5	71.6	25.3	8925.5	3130.5
279	233L1279	3.0	71.0	98.0	58.9	70.7	20.0	8924.2	2221.8
225	233L1225	3.0	77.0	104.0	60.8	70.8	24.3	8915.9	867.2
250	233L1250	3.0	72.0	104.0	63.1	71.8	20.4	8907.4	2035.3
220	233L1220	3.0	69.0	97.0	54.1	69.5	24.7	8900.7	1626.1
102	233L1102	3.0	75.0	95.0	60.0	70.5	18.0	8874.5	1726.0
151	233L1151	1.0	70.0	106.0	53.3	68.7	27.2	8861.5	2380.2
291	233L1291	3.0	68.0	105.0	54.7	69.9	26.9	8854.2	2509.3
121	233L1121	3.0	72.0	96.0	62.4	72.3	21.2	8850.8	1266.3
208	233L1208	3.0	75.0	110.0	53.9	69.2	40.9	8848.7	2305.6
298	PVL03	3.0	72.0	108.0	60.7	71.0	20.5	8820.6	2468.4
84	233L1084	3.0	70.0	101.0	58.5	71.0	17.5	8803.9	864.0
266	233L1266	3.0	69.0	97.0	61.9	71.9	29.2	8798.3	1881.5
277	233L1277	3.0	72.0	106.0	57.5	69.0	14.5	8795.2	2377.3
72	233L1072	3.0	75.0	100.0	61.6	71.1	13.5	8783.3	807.6
7	233L1007	3.0	74.0	112.0	65.0	74.4	20.0	8760.3	3904.3
299	RU2102186	3.0	72.0	103.0	58.3	71.2	24.1	8759.3	1164.0
66	233L1066	5.0	71.0	99.0	65.6	71.7	15.7	8754.3	4576.8
144	233L1144	3.0	77.0	106.0	57.9	70.3	19.8	8753.7	2007.5
248	233L1248	3.0	71.0	105.0	64.0	72.3	20.3	8748.3	2860.3
200	233L1200	3.0	71.0	105.0	61.3	70.1	13.9	8748.0	3862.8
61	233L1061	3.0	75.0	83.0	58.2	68.2	18.2	8732.7	379.9
207	233L1207	3.0	77.0	100.0	60.2	70.4	17.0	8726.3	528.8

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
152	233L1152	1.0	71.0	95.0	55.0	68.1	27.4	8719.0	1087.1
232	233L1232	3.0	70.0	102.0	60.4	71.1	24.5	8706.5	1584.2
92	233L1092	3.0	70.0	98.0	61.4	71.5	21.4	8703.3	1460.0
235	233L1235	5.0	68.0	99.0	50.5	70.0	34.7	8693.8	1094.7
87	233L1087	3.0	70.0	108.0	59.8	70.9	19.6	8684.1	3392.2
100	233L1100	3.0	73.0	95.0	52.9	69.8	31.8	8680.1	626.9
111	233L1111	3.0	76.0	104.0	66.3	73.2	18.1	8661.4	2732.2
126	233L1126	3.0	71.0	103.0	58.2	68.9	16.8	8661.1	3213.4
274	233L1274	3.0	70.0	106.0	57.1	71.1	21.6	8661.1	1330.8
54	233L1054	3.0	77.0	95.0	62.0	69.8	16.1	8644.3	1839.5
71	233L1071	3.0	75.0	102.0	60.2	72.6	30.1	8638.9	2456.6
156	233L1156	1.0	74.0	105.0	54.1	67.6	21.3	8625.2	2171.2
58	233L1058	3.0	78.0	97.0	56.6	70.0	19.8	8624.6	980.4
154	233L1154	1.0	71.0	101.0	55.6	68.8	20.7	8624.0	2548.0
206	233L1206	3.0	79.0	94.0	55.8	69.9	20.5	8617.2	2107.9
273	233L1273	3.0	69.0	100.0	52.1	70.7	22.7	8617.0	1424.9
284	233L1284	3.0	70.0	97.0	59.4	69.9	20.2	8617.0	4659.9
120	233L1120	3.0	75.0	99.0	69.5	75.1	23.7	8611.4	4536.4
31	233L1031	3.0	75.0	91.0	60.9	71.8	19.0	8607.7	2169.1
224	233L1224	3.0	71.0	97.0	62.3	71.4	22.5	8607.2	2160.1
17	233L1017	3.0	72.0	107.0	57.0	70.9	23.7	8602.1	2633.8
283	233L1283	3.0	71.0	104.0	61.9	72.2	30.9	8600.8	1460.0
122	233L1122	3.0	69.0	96.0	52.5	70.2	22.5	8598.0	1018.0
19	233L1019	3.0	79.0	103.0	67.6	73.3	19.0	8592.6	201.1
297	233L1297	3.0	76.0	94.0	60.4	71.4	20.8	8566.5	1926.2
177	233L1177	3.0	72.0	103.0	61.6	72.1	25.2	8564.5	3149.9
106	233L1106	3.0	72.0	105.0	63.1	72.4	22.7	8561.2	3971.3
104	233L1104	3.0	75.0	106.0	67.3	74.5	24.8	8557.3	3168.1
276	233L1276	3.0	73.0	101.0	57.3	68.8	15.9	8548.9	3343.1
113	233L1113	3.0	73.0	107.0	65.6	73.1	18.3	8523.1	4118.0
281	233L1281	3.0	70.0	96.0	58.6	70.3	25.1	8513.1	2312.2
115	233L1115	3.0	73.0	106.0	62.6	72.2	20.0	8506.6	4130.1
85	233L1085	1.0	69.0	102.0	58.1	70.6	14.3	8503.3	1391.1
118	233L1118	3.0	76.0	101.0	67.3	73.9	16.5	8501.6	1708.4
201	233L1201	1.0	68.0	104.0	57.1	70.0	22.5	8496.9	3679.2
231	233L1231	3.0	72.0	96.0	53.7	69.5	43.2	8476.3	1790.3
159	233L1159	3.0	78.0	101.0	56.9	66.9	21.1	8474.7	1994.6
197	233L1197	3.0	75.0	97.0	63.1	71.9	16.6	8473.6	1921.0
103	233L1103	3.0	75.0	98.0	64.3	72.7	21.0	8468.7	3538.6
249	233L1249	3.0	72.0	91.0	58.6	71.1	21.4	8467.3	2682.3
24	233L1024	3.0	79.0	96.0	57.9	69.7	18.2	8463.8	2646.9
140	233L1140	3.0	73.0	105.0	60.7	70.4	18.3	8457.7	787.3
191	233L1191	3.0	75.0	105.0	62.6	71.3	17.5	8455.6	1140.1

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
119	233L1119	3.0	75.0	104.0	56.2	68.8	13.4	8451.9	3463.6
190	233L1190	1.0	74.0	100.0	61.9	70.6	14.7	8437.0	2531.3
217	233L1217	3.0	73.0	97.0	58.9	70.2	25.7	8430.1	2328.6
75	233L1075	3.0	73.0	104.0	62.8	70.9	16.3	8424.3	4576.6
79	233L1079	3.0	72.0	94.0	56.5	69.8	19.1	8422.5	3347.9
23	233L1023	3.0	79.0	96.0	51.1	66.8	14.9	8419.3	1648.6
28	233L1028	1.0	70.0	99.0	54.9	68.2	18.5	8418.0	1024.7
35	233L1035	5.0	68.0	101.0	57.9	71.1	20.9	8412.0	1032.3
97	233L1097	3.0	74.0	97.0	61.0	72.5	27.3	8411.8	1139.0
226	233L1226	3.0	70.0	95.0	56.3	70.1	29.1	8411.3	1461.4
253	233L1253	3.0	74.0	101.0	59.8	69.8	15.1	8405.3	2927.0
60	233L1060	3.0	74.0	97.0	56.5	67.6	26.1	8404.6	2182.6
107	233L1107	3.0	73.0	99.0	63.2	72.3	19.4	8396.3	3019.7
9	233L1009	3.0	79.0	100.0	62.0	72.2	17.5	8393.9	1011.5
68	233L1068	3.0	79.0	106.0	60.0	70.4	27.0	8377.1	2072.3
237	233L1237	3.0	71.0	94.0	62.3	71.1	21.7	8371.2	1191.4
254	233L1254	3.0	71.0	97.0	53.1	69.6	18.0	8356.7	2341.5
101	233L1101	3.0	74.0	97.0	47.4	66.3	30.1	8353.2	1349.2
142	233L1142	3.0	72.0	100.0	61.9	71.2	19.8	8346.1	2678.0
246	233L1246	3.0	76.0	90.0	60.1	71.5	26.3	8344.6	2250.3
222	233L1222	3.0	73.0	100.0	61.3	72.1	21.7	8343.7	2089.7
234	233L1234	3.0	68.0	98.0	56.9	71.2	19.5	8337.8	3715.5
171	233L1171	3.0	77.0	103.0	61.1	69.6	20.1	8311.0	2803.0
11	233L1011	1.0	76.0	96.0	62.4	70.9	17.3	8307.5	4246.0
52	233L1052	3.0	82.0	97.0	64.0	72.6	14.8	8299.1	2964.5
259	233L1259	3.0	71.0	97.0	62.6	70.7	15.5	8293.5	3421.5
229	233L1229	3.0	72.0	102.0	48.6	67.9	35.0	8284.1	2130.8
110	233L1110	3.0	71.0	98.0	59.0	71.7	24.2	8274.7	4870.2
241	233L1241	3.0	74.0	94.0	60.8	69.7	24.5	8270.8	2729.0
105	233L1105	3.0	75.0	102.0	67.2	75.1	25.5	8254.3	2070.2
37	233L1037	3.0	71.0	99.0	58.3	71.0	28.3	8250.6	4511.2
26	233L1026	3.0	76.0	94.0	57.4	70.3	31.5	8247.6	3792.3
8	233L1008	3.0	75.0	111.0	63.3	72.3	16.9	8240.4	4748.5
219	233L1219	3.0	75.0	104.0	65.6	72.9	20.7	8229.1	2274.1
287	233L1287	3.0	71.0	106.0	55.4	69.0	13.9	8226.5	3114.8
63	233L1063	3.0	78.0	94.0	52.7	67.3	27.9	8226.0	4285.9
86	233L1086	3.0	70.0	105.0	63.1	73.0	25.0	8224.1	2890.3
186	233L1186	3.0	72.0	93.0	61.7	69.7	11.4	8211.1	4014.7
221	233L1221	3.0	71.0	105.0	56.9	68.3	13.4	8194.0	5391.2
166	233L1166	3.0	74.0	104.0	60.3	69.2	22.8	8186.5	4141.6
233	233L1233	3.0	71.0	105.0	54.0	70.0	30.8	8179.0	2766.1
114	233L1114	3.0	71.0	101.0	62.7	72.5	21.3	8176.7	3313.5
295	233L1295	3.0	77.0	102.0	56.7	70.1	14.9	8172.5	1369.3

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
133	233L1133	3.0	75.0	97.0	57.5	70.8	18.2	8159.2	2090.3
136	233L1136	3.0	74.0	109.0	62.5	72.0	19.3	8152.8	1514.5
183	233L1183	3.0	71.0	101.0	56.6	70.7	19.3	8152.8	2350.5
132	233L1132	3.0	71.0	96.0	61.5	71.8	19.3	8143.2	1478.3
59	233L1059	3.0	80.0	93.0	59.8	70.7	30.8	8130.1	991.4
258	233L1258	3.0	71.0	95.0	61.2	70.4	22.2	8121.1	3824.4
1	233L1001	5.0	77.0	92.0	59.6	70.7	35.1	8107.8	2249.5
193	233L1193	3.0	73.0	101.0	56.3	68.1	21.3	8091.5	2937.6
170	233L1170	3.0	73.0	96.0	61.4	70.4	17.8	8079.7	4554.9
263	233L1263	3.0	69.0	92.0	61.5	70.9	21.3	8076.1	2476.3
174	233L1174	3.0	75.0	101.0	55.8	67.6	18.6	8070.1	3921.7
290	233L1290	3.0	75.0	97.0	57.5	68.5	13.0	8063.7	3192.4
245	233L1245	3.0	69.0	100.0	63.2	71.0	18.1	8063.5	2820.4
257	233L1257	3.0	72.0	97.0	60.5	69.4	14.6	8050.2	3245.1
289	233L1289	3.0	71.0	94.0	60.5	70.3	27.1	8044.6	2611.0
30	233L1030	3.0	78.0	94.0	48.0	68.2	17.5	8040.6	2821.0
25	233L1025	5.0	76.0	101.0	49.2	66.7	30.3	8032.2	2535.5
242	233L1242	3.0	71.0	102.0	62.4	69.5	16.3	8031.3	3367.2
148	233L1148	3.0	78.0	101.0	63.6	71.1	18.9	8029.6	4457.1
288	233L1288	3.0	71.0	99.0	57.7	69.1	17.5	8016.2	3024.3
117	233L1117	1.0	76.0	109.0	54.0	68.3	18.5	8012.7	4029.7
161	233L1161	3.0	79.0	95.0	59.1	68.7	22.5	8009.6	1293.9
15	233L1015	3.0	78.0	100.0	60.0	70.2	14.6	8009.1	389.4
227	233L1227	3.0	73.0	95.0	59.2	71.0	14.8	7999.5	1382.9
203	233L1203	3.0	73.0	97.0	67.6	74.0	15.5	7976.9	3269.5
51	233L1051	3.0	79.0	94.0	66.8	72.3	18.8	7969.7	961.6
265	233L1265	3.0	71.0	103.0	57.5	70.7	18.0	7967.0	3197.4
131	233L1131	3.0	73.0	94.0	60.6	71.0	25.1	7965.1	3438.9
252	233L1252	3.0	72.0	91.0	61.1	70.2	13.0	7961.9	3009.3
77	233L1077	3.0	72.0	110.0	51.6	67.7	11.1	7960.2	3358.8
76	233L1076	3.0	74.0	97.0	60.7	70.1	17.0	7953.2	3909.1
165	233L1165	3.0	71.0	100.0	54.4	68.4	18.9	7951.3	4659.0
223	233L1223	3.0	69.0	88.0	56.1	69.9	24.2	7937.9	2196.8
256	233L1256	3.0	75.0	102.0	60.8	69.9	13.5	7920.7	4149.1
280	233L1280	3.0	70.0	102.0	59.1	70.5	20.0	7907.2	3434.3
240	233L1240	3.0	72.0	98.0	58.9	68.9	14.5	7898.4	2596.5
78	233L1078	3.0	71.0	103.0	51.4	66.0	14.3	7894.6	1897.9
50	233L1050	3.0	76.0	101.0	58.9	70.1	10.6	7890.2	3330.6
204	233L1204	3.0	80.0	108.0	33.6	61.4	30.1	7889.1	1380.4
82	233L1082	3.0	74.0	98.0	60.3	69.2	12.3	7873.3	5218.9
141	233L1141	3.0	74.0	101.0	56.5	68.5	11.3	7869.7	2508.2
238	233L1238	3.0	74.0	94.0	63.8	71.6	17.1	7852.9	3545.7
89	233L1089	3.0	71.0	98.0	54.9	68.4	10.5	7827.7	2417.5

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
179	233L1179	3.0	76.0	104.0	64.0	71.9	14.7	7819.8	4061.6
139	233L1139	3.0	72.0	97.0	57.5	69.3	12.3	7816.4	2071.3
194	233L1194	3.0	74.0	97.0	55.3	67.8	14.3	7796.8	4674.0
14	233L1014	3.0	76.0	101.0	62.4	71.0	14.5	7795.8	1624.4
157	233L1157	3.0	79.0	103.0	57.5	68.1	16.4	7782.1	2331.4
215	233L1215	3.0	71.0	100.0	50.9	66.9	24.2	7777.0	2559.2
16	233L1016	3.0	78.0	102.0	65.7	72.9	16.0	7758.2	3485.2
278	233L1278	3.0	71.0	105.0	53.2	69.0	16.2	7751.4	3901.5
230	233L1230	3.0	68.0	96.0	63.1	72.5	24.7	7749.5	3815.3
94	233L1094	3.0	73.0	91.0	64.7	72.1	23.6	7743.6	3482.8
251	233L1251	3.0	72.0	93.0	59.0	69.9	14.6	7727.5	3148.7
62	233L1062	3.0	82.0	108.0	56.0	70.2	21.1	7725.9	-
173	233L1173	3.0	75.0	95.0	60.9	69.5	17.8	7717.2	3768.2
96	233L1096	3.0	78.0	93.0	57.8	69.9	19.5	7715.4	-
29	233L1029	5.0	79.0	95.0	48.6	67.3	24.3	7697.8	3121.6
262	233L1262	1.0	69.0	105.0	50.3	67.6	22.7	7691.8	2225.0
138	233L1138	5.0	72.0	87.0	61.4	71.3	15.0	7689.4	3098.7
202	233L1202	3.0	70.0	108.0	57.5	70.3	15.0	7688.0	3895.9
158	233L1158	1.0	75.0	102.0	58.5	68.7	18.0	7682.1	771.6
67	233L1067	3.0	71.0	105.0	53.0	67.3	16.0	7676.9	2911.3
255	233L1255	3.0	71.0	97.0	55.3	68.1	19.4	7672.8	2853.2
128	233L1128	3.0	72.0	95.0	60.7	70.0	18.5	7672.7	2908.9
112	233L1112	3.0	72.0	106.0	63.4	72.6	18.7	7669.4	4715.4
56	233L1056	1.0	82.0	102.0	55.0	66.4	11.3	7663.6	1918.5
134	233L1134	3.0	71.0	100.0	66.7	72.6	6.9	7589.2	2214.2
167	233L1167	3.0	82.0	103.0	62.0	69.4	21.2	7588.6	1043.9
143	233L1143	3.0	75.0	97.0	51.0	66.2	13.9	7584.6	2244.0
294	233L1294	3.0	76.0	100.0	58.6	69.4	13.6	7558.2	3017.7
109	233L1109	3.0	74.0	98.0	62.3	71.6	20.0	7550.2	4184.7
236	233L1236	3.0	70.0	101.0	54.6	68.6	21.3	7521.1	1591.5
160	233L1160	3.0	82.0	90.0	62.8	71.9	24.2	7520.8	1885.7
36	233L1036	3.0	77.0	102.0	62.3	71.2	15.1	7520.1	1839.8
53	233L1053	3.0	84.0	102.0	56.4	70.6	16.9	7504.3	942.2
247	233L1247	3.0	68.0	97.0	57.9	69.7	22.1	7495.2	2957.2
21	233L1021	3.0	84.0	105.0	60.9	74.1	18.7	7488.9	558.6
32	233L1032	3.0	70.0	99.0	51.6	67.4	8.4	7443.4	4879.1
185	233L1185	3.0	77.0	96.0	54.5	67.1	9.3	7389.1	3215.1
149	233L1149	1.0	73.0	103.0	53.9	65.4	10.7	7371.4	3800.6
33	233L1033	3.0	73.0	100.0	51.4	68.7	22.5	7363.6	866.4
212	233L1212	3.0	77.0	97.0	41.8	63.5	28.7	7353.2	1274.9
213	233L1213	3.0	81.0	110.0	46.1	66.2	24.3	7347.7	664.4
188	233L1188	5.0	70.0	95.0	59.8	70.4	12.7	7309.3	3621.6
261	233L1261	3.0	72.0	99.0	52.3	66.3	15.9	7305.2	2175.4

Continued.

Table 4. Continued.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
169	233L1169	3.0	77.0	98.0	62.0	70.4	19.5	7249.3	3316.6
3	233L1003	5.0	78.0	90.0	56.7	69.2	33.3	7230.0	2522.5
47	233L1047	3.0	71.0	93.0	57.1	68.6	10.7	7221.0	2488.3
182	233L1182	3.0	74.0	103.0	64.6	71.7	23.2	7192.1	3429.3
137	233L1137	3.0	78.0	98.0	62.1	70.7	13.1	7183.4	1312.8
267	233L1267	3.0	71.0	102.0	52.8	67.7	21.2	7162.0	2232.4
192	233L1192	3.0	78.0	89.0	62.6	70.7	16.5	7058.2	2507.9
172	233L1172	3.0	74.0	98.0	66.3	73.0	20.5	7051.6	3144.9
12	233L1012	5.0	78.0	99.0	63.2	71.5	12.7	7032.2	1891.0
41	233L1041	3.0	82.0	103.0	56.1	68.1	16.2	7020.9	1028.7
175	233L1175	3.0	75.0	96.0	63.2	70.0	13.0	7019.6	3219.0
164	233L1164	3.0	72.0	105.0	50.3	64.9	15.7	6950.8	1826.9
187	233L1187	3.0	72.0	95.0	61.4	71.3	6.0	6936.3	4696.2
210	233L1210	3.0	76.0	110.0	50.1	66.7	16.3	6898.4	2655.1
13	233L1013	1.0	77.0	102.0	54.0	68.3	24.2	6895.3	3283.2
6	233L1006	3.0	79.0	104.0	56.6	67.6	6.0	6891.8	1911.7
181	233L1181	3.0	82.0	102.0	58.3	68.9	17.5	6883.4	3203.6
40	233L1040	3.0	78.0	98.0	56.6	67.7	11.6	6870.6	636.4
180	233L1180	3.0	74.0	99.0	50.1	65.4	15.3	6869.2	4236.9
196	233L1196	3.0	76.0	99.0	59.8	70.2	22.8	6858.9	3552.9
146	233L1146	5.0	79.0	94.0	56.8	70.4	15.7	6823.1	1496.6
80	233L1080	3.0	84.0	100.0	53.5	67.1	12.0	6701.9	1336.0
55	233L1055	3.0	80.0	111.0	44.1	62.8	9.7	6679.3	2453.2
65	233L1065	3.0	77.0	90.0	52.3	66.1	22.3	6658.5	3203.0
211	233L1211	3.0	76.0	106.0	36.5	61.1	29.8	6636.5	1592.3
209	233L1209	3.0	75.0	99.0	47.1	66.1	34.0	6525.6	1811.8
2	233L1002	1.0	80.0	96.0	56.7	68.6	20.1	6502.1	1205.3
184	233L1184	3.0	73.0	104.0	59.0	70.1	23.8	6480.3	3910.0
189	233L1189	3.0	74.0	106.0	48.7	64.0	14.6	6346.7	3500.6
260	233L1260	3.0	69.0	100.0	52.8	70.7	26.5	6308.2	1589.3
99	233L1099	1.0	77.0	106.0	53.1	67.9	14.7	6289.1	819.3
43	233L1043	3.0	79.0	103.0	53.8	66.0	18.4	6232.2	1547.3
38	233L1038	3.0	78.0	104.0	55.5	68.3	11.0	6213.1	1500.5
42	233L1042	3.0	84.0	97.0	46.1	66.0	14.1	6207.6	2359.0
198	233L1198	3.0	71.0	91.0	63.4	74.9	12.9	6055.9	3371.6
135	233L1135	3.0	73.0	97.0	66.4	71.9	20.2	6047.5	3928.2
39	233L1039	3.0	83.0	94.0	55.4	68.1	21.0	6009.5	1665.7
5	233L1005	3.0	80.0	84.0	60.4	68.8	29.3	5781.9	2392.1
34	233L1034	3.0	71.0	104.0	52.6	68.0	7.0	5742.4	3931.6
147	233L1147	3.0	80.0	100.0	63.5	71.1	24.9	5571.7	3111.5
46	233L1046	3.0	76.0	95.0	44.5	67.4	10.8	5472.3	4553.4
44	233L1044	3.0	81.0	99.0	53.8	66.3	19.6	5366.1	1816.2

[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.

Trials were conducted using standard agronomic practices (except that no fungicides were applied) at the HRCRRS. A randomized complete-block design was applied to arrange test entries. The plot size was 4.66 x 16.5 ft. Seeding rate was 75 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 3-10, which are arranged across planting dates.

Table 1. Planting and harvesting dates for the 2023 Date of Planting trials.

Location	Trial	Planting	Harvesting
HRCRRS	DOP 1	2/27	7/24
	DOP 2	3/13	7/27
	DOP 3	3/27	7/27
	DOP 4	4/14	8/11
	DOP 5	4/25	8/11
	DOP 6	5/12	9/12
	DOP 7	5/26	9/22
	DOP 8	6/9	9/26

Table 2. Entry number, grain type, and source information for entries in the Date of Planting trials, 2023.

Herbicide Type*	Entry	Line	Pedigree	Grain Type†	Source‡
CL	1	CLL18	RoyJ/CL142AR	LG	AAES
CL	2	CLL19	Wells/CL161//Drew/CL161/3/Cheniere//Cocodrie/Jefferson	LG	LAES
CL	3	RU2102150	CL163/CL153	HI	LAES
CL	4	RU2102217	CL161//Cocodrie/9770532DH2/3/Cypress/Kaybonnet//RU9502008A/4/Catahoula/5/CL172/6/CL172	LG	LAES
CN	5	201L1251	Catahoula/Lakast	LG	LAES
CN	6	Avant	Trenasse//Cocodrie/Jefferson/3/Ahrent/Cocodrie//Cocodrie/LaGrue	LG	LAES
CN	7	Jupiter	Bengal/Rico1/3/Bengal//Mercury/Rico1	MG	LAES
CN	8	RU1902207	Catahoula/Mermentau	LG	LAES
CN	9	RU2002166	Jazzman2/Catahoula	AL	LAES
CN	10	RU2102066	Titan/Jupiter	MG	LAES
CN	11	RU2102070	Titan/Jupiter	MG	LAES
PV	12	203L1104	RU1502115/PVL01	LG	LAES
PV	13	PVL03	PVL01/Catahoula	LG	LAES

* Clearfield = CL, Conventional = CN, 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-Dixiebelle type.

‡ LAES – H. Rouse Caffey Rice Research Station, Louisiana Agricultural Experiment Station, LSU AgCenter, Rayne, LA; and AAES – Arkansas Agricultural Experiment Station, Stuttgart, AR.

Table 3. Grain yields† of 13 rice varieties and experimental lines planted over eight planting dates, 2023. H. Rouse Caffey Rice Research Station, Rayne, LA.

	Planting Date								
Entry	**Feb. 27**	**March 13**	**March 27**	**April 14**	**April 25**	**May 12**	**May 26**	**June 9**	**Mean**
CLL18	11843.9	11418.1	11343.6	11638.8	9937.4	7941.8	7289.9	8092.7	9938.3
CLL19	10071.8	10197.2	9890.7	11869.6	9251.4	8338.1	6647.4	7154.5	9177.6
RU2102150	9560.9	9440.9	9621.5	9948.6	8506.4	7547.4	6106.2	7504.8	8529.6
RU2102217	9662.3	10342.2	10296.7	11475.5	10329.8	7253.0	6805.8	7225.8	9173.9
201L1251	9201.4	9064.3	9188.5	10794.7	8796.9	7076.8	3455.6	6664.2	8030.3
Avant	9893.7	10086.9	9743.8	11070.1	9653.4	8274.0	5896.4	7170.0	8973.5
Jupiter	8723.0	9283.2	7916.1	7239.3	5177.7	6676.9	528.9	3094.3	6079.9
RU1902207	8939.2	8571.9	8254.3	9958.4	8360.9	6373.0	2525.6	5407.6	7298.9
RU2002166	9290.5	7834.9	8559.1	10123.1	7154.1	5249.4	3283.6	4528.2	7002.9
RU2102066	9435.6	8760.7	7826.6	8247.9	5516.8	6823.3	725.3	2583.0	6239.9
RU2102070	9241.0	8984.6	8696.0	9270.6	5856.7	7292.6	767.8	2644.0	6594.2
203L1104	9447.1	8870.4	9426.6	10179.7	9061.2	6972.3	5974.6	6914.0	8355.7
PVL03	8984.9	9122.6	8876.0	9466.7	7981.2	5371.3	3358.4	4161.8	7165.4
Mean	9561.2	9382.9	9203.0	10098.7	8121.9	7014.6	4105.0	5626.5	

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

Table 4. Seedling vigor† of 13 rice varieties and experimental lines planted over eight planting dates, 2023. H. Rouse Caffey Rice Research Station, Rayne, LA.

	Planting Date								
Entry	**Feb. 27**	**March 13**	**March 27**	**April 14**	**April 25**	**May 12**	**May 26**	**June 9**	**Mean**
CLL18	1.0	3.0	-	3.0	-	3.0	1.7	3.0	2.4
CLL19	2.3	3.0	-	3.0	-	3.0	1.7	2.3	2.6
RU2102150	5.0	3.7	-	3.0	-	3.0	3.0	3.0	3.4
RU2102217	3.0	3.7	-	1.0	-	2.3	1.7	3.0	2.4
201L1251	3.7	3.7	-	3.0	-	3.0	3.0	2.3	3.1
Avant	1.7	3.0	-	3.7	-	3.0	1.0	3.0	2.6
Jupiter	2.3	3.7	-	4.3	-	4.3	4.3	3.0	3.7
RU1902207	3.7	4.3	-	2.3	-	3.0	1.0	3.0	2.9
RU2002166	4.3	4.3	-	3.0	-	3.0	2.3	2.3	3.2
RU2102066	3.0	4.3	-	4.3	-	5.0	3.0	4.3	4.0
RU2102070	3.0	4.3	-	3.0	-	4.3	4.3	6.3	4.2
203L1104	3.7	5.0	-	3.7	-	3.0	3.0	3.0	3.6
PVL03	2.3	3.0	-	1.7	-	1.7	1.7	1.7	2.0
Mean	3.0	3.8	NA	3.0	NA	3.2	2.4	3.1	

† 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 13 rice varieties and experimental lines planted over eight planting dates, 2023. H. Rouse Caffey Rice Research Station, Rayne, LA.

	Planting Date								
Entry	**Feb. 27**	**March 13**	**March 27**	**April 14**	**April 25**	**May 12**	**May 26**	**June 9**	**Mean**
CLL18	100.0	80.0	71.0	65.7	67.3	75.0	68.7	66.3	74.3
CLL19	96.3	78.0	69.7	63.0	63.3	70.0	62.3	61.3	70.5
RU2102150	99.3	80.0	73.0	66.0	67.7	72.7	64.3	62.3	73.2
RU2102217	97.3	76.3	67.7	62.3	64.0	69.0	63.0	60.0	70.0
201L1251	102.3	82.0	73.3	66.7	68.3	75.0	64.7	64.3	74.6
Avant	92.3	74.3	65.0	59.0	60.3	68.0	55.7	55.3	66.2
Jupiter	102.3	84.7	78.3	70.0	72.0	77.7	71.0	68.7	78.1
RU1902207	100.0	80.7	72.3	63.3	64.7	71.7	62.7	62.0	72.2
RU2002166	100.7	81.3	71.0	63.3	64.3	72.3	62.7	61.0	72.1
RU2102066	101.0	81.7	73.7	66.7	69.3	73.7	67.3	65.0	74.8
RU2102070	100.0	81.0	72.0	66.0	68.0	72.3	67.0	64.3	73.8
203L1104	104.3	84.7	74.7	69.3	70.3	76.3	69.7	65.7	76.9
PVL03	100.0	79.3	72.3	65.7	67.0	73.0	63.3	64.0	73.1
Mean	99.7	80.3	71.8	65.2	66.7	72.8	64.8	63.1	

† The number of days from plant emergence to 50% heading.

Table 6. Plant height† of 13 rice varieties and experimental lines planted over eight planting dates, 2023. H. Rouse Caffey Rice Research Station, Rayne, LA.

	Planting Date								
Entry	**Feb. 27**	**March 13**	**March 27**	**April 14**	**April 25**	**May 12**	**May 26**	**June 9**	**Mean**
CLL18	95.7	96.3	90.7	100.7	98.3	101.0	93.7	100.3	97.1
CLL19	82.7	85.0	82.3	98.7	93.0	99.7	85.3	92.0	89.8
RU2102150	91.7	93.0	88.0	95.0	94.7	94.0	91.3	93.7	92.7
RU2102217	84.0	83.3	81.3	87.0	90.3	90.0	82.3	88.7	85.9
201L1251	86.0	84.7	86.0	94.0	92.3	92.7	83.3	86.7	88.2
Avant	87.7	89.7	84.7	89.7	92.3	91.7	76.7	86.7	87.4
Jupiter	85.3	86.3	80.7	79.7	82.7	87.7	81.3	81.3	83.1
RU1902207	92.7	91.0	82.3	96.3	99.3	97.7	87.0	96.3	92.8
RU2002166	90.0	85.7	88.3	92.7	95.3	91.7	84.7	96.3	90.6
RU2102066	86.0	84.0	79.0	80.7	80.3	85.3	79.7	82.0	82.1
RU2102070	91.0	90.0	84.3	88.7	82.0	91.7	78.0	86.0	86.5
203L1104	89.3	89.0	82.7	95.3	91.3	91.3	91.0	86.0	89.5
PVL03	93.0	96.3	87.7	99.7	101.3	101.7	88.3	93.0	95.1
Mean	88.8	88.8	84.5	92.2	91.8	93.5	84.8	89.9	

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

Table 7. Whole milling percentage† of 13 rice varieties and experimental lines planted over eight planting dates, 2023. H. Rouse Caffey Rice Research Station, Rayne, LA.

	Planting Date								
Entry	**Feb. 27**	**March 13**	**March 27**	**April 14**	**April 25**	**May 12**	**May 26**	**June 9**	**Mean**
CLL18	49.8	46.5	49.9	55.6	53.5	50.3	54.2	60.1	52.5
CLL19	56.8	52.5	56.0	63.1	61.9	52.1	58.7	58.5	57.5
RU2102150	61.7	61.9	65.2	63.4	60.5	57.0	59.9	61.0	61.3
RU2102217	41.8	32.8	41.3	56.6	58.1	37.1	42.6	47.9	44.8
201L1251	46.8	47.7	55.2	55.5	55.4	41.6	19.8	56.8	47.3
Avant	63.2	59.8	58.4	66.7	65.6	55.1	50.6	53.5	59.1
Jupiter	59.1	62.5	62.5	63.1	60.6	47.8	-	62.9	59.8
RU1902207	58.6	58.9	61.9	65.3	63.8	54.6	48.7	60.6	59.1
RU2002166	63.3	65.9	65.9	65.8	64.6	56.2	46.3	61.5	61.2
RU2102066	64.1	61.6	63.5	63.6	60.9	52.8	15.1	57.6	54.9
RU2102070	62.1	61.5	64.7	64.9	61.0	51.0	15.0	55.9	54.5
203L1104	65.0	65.2	67.0	64.7	63.4	60.6	59.2	66.0	63.9
PVL03	49.2	52.1	57.2	60.3	54.7	50.1	42.9	57.5	53.0
Mean	57.0	56.1	59.1	62.2	60.3	51.3	42.7	58.4	

† 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, 2023. H. Rouse Caffey Rice Research Station, Rayne, LA.

	Planting Date								
Entry	**Feb. 27**	**March 13**	**March 27**	**April 14**	**April 25**	**May 12**	**May 26**	**June 9**	**Mean**
CLL18	66.4	65.9	67.0	66.6	65.5	68.1	70.4	70.1	67.5
CLL19	68.7	68.8	69.5	69.7	68.7	68.4	71.1	69.9	69.3
RU2102150	68.8	69.4	70.6	68.8	67.8	68.2	70.7	69.5	69.2
RU2102217	68.9	68.1	69.1	71.0	70.5	69.3	71.0	69.6	69.7
201L1251	68.8	69.5	70.4	69.3	68.4	69.5	67.8	71.3	69.4
Avant	71.0	70.9	70.4	72.0	71.7	69.0	70.9	70.4	70.8
Jupiter	67.0	67.0	66.6	68.2	66.2	65.9	-	69.1	67.1
RU1902207	70.7	71.2	71.4	72.1	71.0	70.0	69.3	71.7	70.9
RU2002166	70.5	72.2	72.2	71.9	70.7	68.2	70.2	70.6	70.8
RU2102066	68.6	67.2	67.9	68.5	66.6	67.3	67.9	67.3	67.7
RU2102070	67.9	68.1	68.8	69.3	66.2	67.5	66.7	66.7	67.6
203L1104	71.7	71.8	72.2	71.0	70.5	69.8	72.2	72.3	71.4
PVL03	69.9	70.3	70.7	70.0	67.4	69.0	71.8	70.4	69.9
Mean	69.2	69.3	69.7	69.9	68.6	68.5	70.0	69.9	

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

Table 9. Chalk impact† of 13 rice varieties and experimental lines planted over eight planting dates, 2023. H. Rouse Caffey Rice Research Station, Rayne, LA.

	Planting Date								
Entry	**Feb. 27**	**March 13**	**March 27**	**April 14**	**April 25**	**May 12**	**May 26**	**June 9**	**Mean**
CLL18	38.1	37.3	36.8	37.4	33.7	37.6	27.6	19.9	33.5
CLL19	30.8	32.3	31.0	33.4	26.5	32.3	27.4	17.7	28.9
RU2102150	26.2	24.2	24.2	23.4	22.3	30.1	31.1	16.5	24.8
RU2102217	41.5	44.3	42.8	42.7	42.3	45.7	38.7	30.4	41.1
201L1251	32.4	32.4	27.9	29.8	33.4	40.3	43.8	23.0	32.9
Avant	24.5	27.7	29.2	29.8	28.9	32.8	25.0	23.5	27.7
Jupiter	36.5	35.5	36.2	25.3	33.4	33.1	-	14.6	30.6
RU1902207	28.6	30.0	28.6	31.1	31.1	30.0	34.9	23.4	29.7
RU2002166	19.6	20.6	23.3	13.8	15.0	14.6	12.4	7.5	15.9
RU2102066	33.8	34.4	31.7	24.2	31.0	30.9	29.5	13.4	28.6
RU2102070	30.8	31.4	31.6	22.4	30.8	30.3	22.8	14.7	26.9
203L1104	22.3	22.0	22.1	22.1	21.1	32.8	23.8	18.1	23.0
PVL03	29.9	27.3	29.2	26.6	27.1	39.1	37.1	17.3	29.2
Mean	30.4	30.7	30.4	27.8	29.0	33.0	29.5	18.5	

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

Table 10. Ratoon grain yields† of 13 rice varieties and experimental lines planted over eight planting dates, 2023. H. Rouse Caffey Rice Research Station, Rayne, LA.

	Planting Date								
Entry	**Feb. 27**	**March 13**	**March 27**	**April 14**	**April 25**	**May 12**	**May 26**	**June 9**	**Mean**
CLL18	3670.6	3845.3	3628.9	2540.1	2396.0	-	-	-	3216.2
CLL19	4269.0	4408.8	4227.2	4652.2	3455.9	-	-	-	4202.6
RU2102150	4027.6	3999.8	4327.5	3971.3	3094.2	-	-	-	3884.1
RU2102217	4800.0	5275.6	4816.5	3605.3	2945.1	-	-	-	4288.5
201L1251	4689.5	4441.1	4476.6	3749.2	3150.8	-	-	-	4101.4
Avant	4535.9	4095.1	4496.5	4354.9	3251.0	-	-	-	4146.7
Jupiter	3761.7	3361.2	3304.9	4201.0	2831.5	-	-	-	3492.1
RU1902207	3883.3	3947.8	4082.8	4155.1	3260.8	-	-	-	3866.0
RU2002166	3844.8	2668.6	3381.6	3744.1	3578.8	-	-	-	3443.6
RU2102066	4049.9	2950.1	3534.2	4151.4	2286.7	-	-	-	3394.4
RU2102070	4249.1	4131.8	3798.5	4363.9	2767.6	-	-	-	3862.2
203L1104	3953.9	3988.1	4329.1	3986.5	2559.2	-	-	-	3763.4
PVL03	3231.0	3735.4	4150.4	4126.2	3061.5	-	-	-	3660.9
Mean	4074.3	3911.4	4042.7	3969.3	2972.3	NA	NA	NA	

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

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 2023 URRN test included 52 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 was purely for long grains and early maturing varieties. Test 2 consisted of medium grains, later maturing varieties, and hybrids. Seeding rates were 75 lb/A for varieties.

The 2023 URRN results from the HRCRRS will be reported. All plots were drill seeded on March 8. The tests were harvested on August 2. 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 yields and agronomic performance (seedling vigor, days to 50% heading, plant height, whole and total milling, chalk, and yield) of entries in the 2023 URRN at the HRCRRS.

Table 1. Entry number, pedigree, grain type, and source information for entries in the Uniform Regional Rice Nursery, 2023.

Herbicide Type	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CN	1	RU2303001	Cypress/Saber//Madison	LG	TAES
CN	2	RU2303002	Cypress/Saber//Madison	LG	TAES
CN	3	Presidio	Jefferson//Maybelle/Rosemont	LG	TAES
CN	4	RU2003220	043752/0047277/CHEN	LG	TAES
CN	5	RU2103124	Jangseongbyeo/IR 1321-12	LG	TAES
CN	6	RU2203006	Cypress/3/Cyress/Newbonnet/Katy/4/Spring	LG	TAES
CL	7	RU2102150	CL163/CL153	HI	LAES
CN	8	RU1902207	Catahoula/4/Cypress/Kaybonnet//Cocodrie/3/Cocodrie	LG	LAES
CL	9	RU2102217	CL161//Cocodrie/9770532DH2/3/Cypress/Kaybonnet// RU9502008A/4/Catahoula/5/CL172/6/CL172	LG	LAES
PV	10	213L1140	PVL01/Catahoula	LG	LAES
PV	11	203L1104	RU1502115/PVL01	LG	LAES
CN (H)	12	DG3H2007		LG	Nutrien
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)/Rosemont/3/MARS/Newrex//TBNT	LG	MAES
CV	17	RU2104099	RU1301102/Tacuari	LG	MAES
CL	18	CLHA02	Rosemont/3/MARS/Newrex//TBNT/4/CL151	LG	MAES
CL	19	RU2301019	Diamond/RU1601127	LG	AAES
CN	20	RU2301020	Diamond/RU1201111	LG	AAES
PV	21	RU2201021	(RU1102131/RU0903141)*3/HPHI2	LG	AAES
CL	22	RU2301022	FRNS/CL.WLLS/7/FRNS/6/LBNT/9902/3/DAWN/9695// STBN/4/LGRU/5/DREW/8/248FRA16U-21/ 248DREW16C-1-2	LG	AAES
CN	23	RU2301023	19991516/19951094//RNS3/RU9101001/4/GP13416/KATY //PI312777/3/DREW	LG	AAES
CL	24	RU2301024	LAKAST/7/248DREW16C-1-3/6/LGRU//KATY/STBN/5/ NWBT/KATY//RA73/LMNT/4/LBNT/9902/3/DAWN/9695 //STBN	LG	AAES

Continued.

Table 1. Continued.

Herbicide Type	Entry	Line	Pedigree	Grain Type†	Source‡
CL	25	CLL19	Wells/CL161//Drew/CL161/3/Cheniere//Cocodrie/Jefferson	LG	LAES-CK
PV	26	PVL03	PVL01/Catahoula	LG	LAES-CK
CN	27	Ozark	Diamond/Lakast	LG	AAES-CK
CN	228	Cheniere	Newbonnet/Katy/3/L202/Lemont//L202	LG	LAES-CK
CN	29	Trinity	Saber/Cocodrie//Presidio	LG	TAES-CK
CN	30	DG263L		LG	Nutrien-CK
CN	31	RU2303031		LG	TAES
CN	32	RU2303032		LG	TAES
CN	33	RU2103172	TH853	LG	TAES
CN	34	RU2203034	TH172	LG	TAES
CL	35	BBC30-1	CL272/4/CL272/3/CL272//Zhe733/CL272	MG	LAES
CN	36	RU2102066	Titan/Jupiter	MG	LAES
CN (H)	37	DG3H20397		LG	Nutrien
CN (H)	38	DG3H20402		LG	Nutrien
CN	39	RU1904139	Lemont/Jasmine85-220//Francis	MG	MAES
CN	40	RU1904163	Bowman//Bowman/Te Quing	LG	MAES
CN	41	RU2004091	Rex/Cheniere	LG	MAES
CN	42	Leland	Cheniere/Banks	LG	MAES
CL	43	RU2301043	RU1501050/RU1501027	MG	AAES
CN	44	RU2301044	RU1401050/DMND	LG	AAES
CN	45	RU2301045	TGRT/6/91642//KATY/NWBT/5/RU9201176/4/KATY/NWBT/3/LBNT/STBN//NWBT/7/RPG/WLLS//WLLS/3/WLLS/4/WELLS	LG	AAES
CN	46	RU2301046	Jazzman/PI597046//Diamond	AL	AAES
CN	47	RU2306047		LG	USDA
CN	48	RU2306048		LG	USDA
CN	49	DG263L		LG	Nutrien-CK
CL	50	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	51	Jupiter	Bengal/Rico1/3/Bengal//Mercury/Rico1	MG	LAES-CK
CL	52	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-Dixiebelle type

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

Table 2. Grain and milling yields and agronomic performance of entries in the 2023 Uniform Regional Rice Nursery – Test 1. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)
12	DG3H2007	3.0	90.7	110.0	56.5	68.1	35.1	12704.9
23	RU2301023	3.0	92.7	104.0	62.2	69.8	32.2	11724.9
27	Ozark	3.0	92.3	108.3	58.0	69.2	37.4	11327.1
8	RU1902207	3.0	91.0	103.0	67.2	73.0	28.6	11196.6
20	22AR147	3.7	89.7	106.7	61.7	71.1	34.3	11075.9
22	RU2301022	3.0	93.0	104.0	67.3	72.3	30.5	10803.6
10	213L1140	3.7	90.7	106.3	55.2	69.0	17.7	10697.9
13	RU2004071	5.0	94.3	108.3	61.6	68.9	28.2	10676.4
26	PVL03	1.7	90.3	110.0	64.5	71.6	23.7	10603.5
19	RU2301019	3.0	89.7	107.7	60.9	69.9	39.2	10596.8
24	RU2301024	3.0	85.0	111.7	57.4	69.7	26.2	10562.3
18	CLHA02	3.0	91.7	101.3	63.2	70.2	30.0	10487.6
11	203L1104	5.0	95.0	103.3	66.6	72.1	24.0	10427.5
30	DG263L	3.3	91.3	103.7	58.9	67.5	26.0	10198.0
7	CLHA03	3.0	90.3	102.7	64.6	69.9	22.5	10192.8
25	CLL19	3.0	86.7	103.0	64.1	71.0	29.6	10119.4
15	RU2004195	3.0	87.3	115.0	63.3	69.3	29.9	10030.9
4	RU2003220	5.7	94.0	101.3	65.2	71.0	19.9	9972.1
9	RU2102217	3.0	85.0	96.7	60.0	71.3	37.5	9909.0
16	RU2104087	2.3	90.7	114.0	59.5	67.3	35.0	9865.2
14	RU2004191	3.0	87.7	103.3	59.8	68.7	28.6	9618.2
21	PVL04	4.3	93.3	109.7	61.1	70.6	25.8	9387.2
28	Cheniere	6.0	91.5	100.0	68.7	73.6	13.7	9304.8
6	RU2203006	3.0	93.7	98.0	59.2	71.8	23.8	9275.7
17	RU2104099	3.0	91.0	102.0	65.4	71.8	21.7	9101.4
29	Trinity	3.0	94.3	110.0	63.0	68.9	18.4	8861.2
5	RU2103124	5.7	94.7	117.7	61.9	69.2	9.6	8817.2
3	Presidio	3.0	87.0	107.3	61.9	69.8	14.6	8194.5
2	RU2303002	3.0	101.0	108.0	53.4	69.2	17.4	6728.0
1	RU2303001	3.0	100.7	105.3	52.6	68.9	18.1	6313.2

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

Table 3. Grain and milling yields and agronomic performance of entries in the 2023 Uniform Regional Rice Nursery – Test 2. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Name	Vigor[1]	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)
38	DG3H20402	3.0	91.0	105.7	57.6	69.1	27.4	12130.3
37	DG3H20397	3.0	91.3	106.0	57.8	68.7	26.8	11483.7
44	RU2301044	3.0	91.0	100.7	52.9	67.7	32.8	11166.1
41	RU2004091	3.0	94.0	113.3	51.9	67.2	29.8	11032.2
45	RU2301045	3.0	91.7	108.0	48.5	66.1	29.8	10550.8
46	RU2301046	3.0	94.3	105.0	58.9	67.2	47.4	10462.7
52	CLM04	3.0	94.3	107.0	64.0	68.4	17.7	10385.9
42	Leland	3.0	95.7	117.3	62.5	70.9	18.6	10356.8
40	RU1904163	3.0	90.3	103.3	53.3	67.7	36.5	10079.1
50	CLL16	3.0	94.7	110.3	54.4	67.6	23.0	9926.2
35	BBC30-1	3.0	92.3	84.7	62.1	68.5	23.2	9807.8
36	RU2102066	3.0	91.3	90.0	64.2	68.5	25.3	9382.3
43	RU2301043	3.0	95.3	81.7	63.8	68.8	24.1	9277.1
32	RU2303032	6.3	97.0	113.0	58.2	67.9	18.4	9257.2
31	RU2303031	5.7	96.7	103.0	56.3	67.6	25.0	9078.2
34	RU2203034	7.0	94.0	118.7	58.0	67.4	17.9	9045.3
33	RU2103172	7.0	95.7	110.7	54.1	67.5	17.0	9007.8
39	RU1904139	3.0	94.3	110.7	60.9	69.4	26.1	8761.0
48	RU2306048	5.0	100.7	120.3	59.7	68.3	12.5	8523.5
47	RU2306047	5.7	100.0	116.3	62.4	69.3	3.7	8125.5
51	Jupiter	3.0	95.0	84.7	62.3	67.0	31.3	8017.6

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

HIGH-THROUGHPUT DNA MARKER LAB FOR APPLIED BREEDING

B. Angira, A.N. Famoso, J.D. Dartez, Madeline Lejeune, and R.E. Zaunbrecher

A single nucleotide polymorphism (SNP) marker-assisted lab was established in February 2016 through the support of the Louisiana Rice Research Board and the LSU AgCenter at the H. Rouse Caffey Rice Research Station (HRCRRS) as part of the Variety Development Program. The lab facilitates the integration of molecular breeding as a core element to an applied breeding program and offers tangible benefits to our variety development efforts in terms of speed, accuracy, throughput, and uniformity. The lab is fulfilling the objective of research to develop, optimize and implement a comprehensive molecular breeding strategy as an integrated component of rice variety development efforts. The SNP lab also facilitates the necessary scale and inexpensive modern breeding approaches that are incorporated into the variety development efforts.

The molecular breeding lab has SNP markers associated with major rice traits, including blast resistance genes (PITA2, PIZ, Pi9, Pik, Pib and Pi33), Cercospora resistance, aroma (BADH2), amylose, gel temperature, pubescence, grain size (*GS3* and *qGL7.1*), and plant height (*sd1*- deletion and Calrose mutation). In addition to these markers, the lab also has SNP markers for Clearfield and Provisia herbicide resistance genes. These markers were deployed at different stages of the breeding program to improve the accuracy and speed of the program in 2023. To enable gene discovery and validation, a breeding germplasm panel of 384 lines was phenotyped for heading date and purified by using markers and selecting a single source panicle for planting in 2023. This panel was outsourced for whole genome sequencing. The sequencing data is available for the discovery of many important novel genes/genetic regions in the southern U.S. rice germplasm. Newly discovered genetic regions would be used in improving Louisiana rice breeding germplasm and developing improved varieties.

Marker-assisted selection (MAS) was performed on a total of 84 rice breeding populations that included 7,656 individual plants (Table 1). DNA was extracted from these plants, and the appropriate trait SNP markers were run to select the desired number of plants from each population. The selected seedling plants were transplanted into a greenhouse. One panicle was harvested from each plant to be planted as panicle rows in the field. When panicles were used for MAS, selected panicles were threshed and planted as panicle rows in the field. The traits that are focused in the MAS approach are controlled by either one or a few genes, which have large effects. The target of the traits depend on the current needs and breeding objectives. The MAS approach was integrated with the extensive and successful core breeding program, and it improved the speed, accuracy, and uniformity of the Variety Development Program.

In addition to MAS, the Marker Lab has made a significant contribution to genomic selection in the integration of the LSU Rice Breeding Program. In 2023, the Marker Lab processed 6,956 individual samples for genomic selections. These samples were tagged, sampled in DNA plates, outsourced, tracked, and the selection of predicted panicles was performed. The selected panicles were then planted in the field as panicle rows for testing other agronomical traits. These rows will be chosen based on their agronomics for yield testing in the upcoming rice growing season.

Markers are also used to identify purity and heterogeneity of entries in the yield plot test. A set of markers were developed for this purpose. This marker set is surveyed across our yield plots from the different breeding tests to improve the efficiency and accuracy of the program. From the test plots, 6,160 leaf samples were collected (Table 2). All of the developed trait markers were then run on these leaf samples. All entries included in yield plot tests were genotyped and analyzed, except for the RiceTec hybrid entries. The data was analyzed to check the purity of the tests and necessary actions were engaged. In addition to yield plot testing, F_1 populations were also tested to identify true crosses in 2020. Each F_1 population had eight plants with 307 total F_1 populations. All 2,112 plants were sampled and sets of markers were run to identify true breeding crosses.

In previous years, a set of genome-wide (GW) markers were identified, which along with the trait markers, have the ability to purify Louisiana rice varieties. This set has been successful in purifying foundation seed headrows of important Louisiana varieties in the Foundation Seed Program of the LSU AgCenter. In 2023, AddiJo, LA2166, LA2150, LA2207, Mermentau, and Jupiter were purified using the defined molecular SNP marker set in the Foundation Seed Program. An SNP profile of new lines was developed and purified established varieties. The SNP profile will be useful in future purification.

Table 1. Breeding populations utilized for marker-assisted selection for target traits.

Population ID	Leaf Source	23 lab Job No.	No. of Plants	Target Traits*
22T-264	Seedling	1	384	Provisia
22T-265	Seedling	1	384	Provisia
22T-266	Seedling	1	384	Blast-Blast-pita, Provisia
22T-273	Seedling	1	384	Blast-pi9, Provisia
22T-003	Panicle	2	96	Aroma, Blast-pita
22T-018	Panicle	2	192	Aroma
22T-023	Panicle	2	96	Aroma
22T-075	Panicle	2	96	Aroma, Blast-pita
22T-078	Panicle	2	96	Aroma, Blast-pita
22T-084	Panicle	2	96	Aroma
22T-085	Panicle	2	96	Aroma
22T-122	Panicle	2	96	Aroma
22T-167	Panicle	2	48	Blast-Blast-pita
22T-198	Panicle	2	288	Aroma
22T-230	Panicle	2	96	Blast-Blast-pita
22T-245	Panicle	2	96	Blast-Blast-pita
22T-246	Panicle	2	96	Blast-Blast-pita
22T-027	Panicle	2	48	Aroma, Blast-pita
22T-086	Panicle	2	48	Aroma
22T-065	Panicle	2	96	Blast-pib, Blast-Blast-pita
22T-066	Panicle	2	96	Blast-pib, Blast-Blast-pita
22T-124	Panicle	2	96	Blast-pib
22T-157	Panicle	2	192	Blast-pi9
22T-159	Panicle	2	192	Blast-pi9
22T-259	Panicle	2	96	Blast-pib, Blast-Blast-pita
22T-158-CL	Panicle	2	192	Blast-pi42
22T-174-CL	Panicle	2	48	Blast-pi42
22T-001	Seedling	3	384	Glabrous, Amylose, Gel temperature, and Aroma
22T-002	Seedling	3	384	Glabrous, Amylose, Gel temperature, and Aroma
22T-003	Panicle	4	24	Aroma, Blast-pita
22T-024	Panicle	4	24	Clearfield, Aroma, Blast-pita
22T-027-CL	Panicle	4	24	Aroma, Blast-pita
22T-027-CN	Panicle	4	24	Clearfield, Aroma, Blast-pita
20T-049	Panicle	4	24	Aroma
22T-075	Panicle	4	24	Aroma, Blast-pita
22T-078	Panicle	4	24	Aroma, Blast-pita
22T-084	Panicle	4	24	Aroma
22T-264	Seedling	1	384	Provisia
22T-265	Seedling	1	384	Provisia

Continued.

Table 1. Continued.

22T-085	Panicle	4	24	Aroma
22T-086	Panicle	4	24	Aroma
21T-100-CL	Panicle	4	24	Aroma
20T-146	Panicle	4	24	Aroma
20T-150	Panicle	4	24	Amylose
20T-195	Panicle	4	24	Aroma
21T-174	Panicle	4	24	Aroma
22T-122	Panicle	4	24	Aroma, Glabrous, Amylose, Amylose
22T-011	Panicle	4	48	Amylose, Amylose
22T-012	Panicle	4	48	Amylose, Amylose
22T-051-CL	Panicle	4	48	Amylose, Amylose
22T-051-CONV	Panicle	4	48	Clearfield, Amylose, Amylose
22T-052	Panicle	4	48	Amylose, Amylose
22T-054	Panicle	4	48	Amylose, Amylose
22T-057	Panicle	4	48	Amylose, Amylose
22T-059-CL	Panicle	4	48	Amylose, Amylose
22T-063	Panicle	4	48	Amylose, Amylose
22T-064	Panicle	4	48	Amylose, Amylose, Blast-pita
22T-067	Panicle	4	48	Clearfield, Amylose, Amylose
22T-229	Panicle	4	48	Amylose
22T-230	Panicle	4	48	Amylose, Amylose, Blast-pita
22T-260	Panicle	4	48	Amylose
22T-261	Panicle	4	48	Amylose, Amylose
22T-262	Panicle	4	48	Amylose, Amylose, Blast-pita
22T-018	Panicle	4	48	Aroma
22T-022	Panicle	4	48	Clearfield, Aroma
22T-023	Panicle	4	48	Aroma, Amylose, Amylose
22T-080	Panicle	4	48	Aroma, Amylose, Blast-pita
22T-107	Panicle	4	48	Clearfield, Amylose, Blast-pita
22T-198	Panicle	4	48	Aroma, Blast-pita
22T-245	Panicle	4	48	Amylose, Blast-pita
22T-246	Panicle	4	48	Amylose, Blast-pita
22T-073	Panicle	4	48	Gel temperature, Blast-pita
22T-157-CL	Panicle	4	48	Clearfield, Blast-pi9
22T-158-Conv	Panicle	4	48	Clearfield, Blast-pi42
22T-159-CL	Panicle	4	24	Clearfield, Blast-pi9
22T-174-Conv	Panicle	4	24	Clearfield, Blast-pi42

Continued.

Table 1. Continued.

22T-174-CL	Panicle	4	24	Clearfield, Blast-pi42
21T-202	Panicle	4	48	Blast-pita, Blast-pi42
21T-204	Panicle	4	48	Blast-pi42
22T-273	Panicle	4	24	Clearfield, Blast-pi9
21T-308	Panicle	4	48	Blast-pita
22T-059-CN	Panicle	4	24	Amylose, Amylose
22T-070	Panicle	4	24	Clearfield, Amylose, Blast-pita
22T-167-CL	Panicle	4	24	Blast-pita
Total			6888	

* Pita, Pi9, and Pib are rice blast resistance genes

Table 2. Yield plots of breeding tests were screened with molecular markers to validate the desired traits of the test entries.

Test*	Entries	Samples/Entries	Total Samples Collected
23_CLPYL	300	2	600
23_CLPYM	120	2	240
23_PYL	300	2	600
23_DGL	150	2	300
23_PYM	120	2	240
23_PVPY	300	2	600
23_URRN_T1	30	4	212
23_URRN_T2	22	4	212
23_RYT_CL	60	8	480
23_AYT_CL	25	8	200
23_PC	26	8	208
23_AYT_CN	26	8	208
23_RYT_CN	66	8	528
23_MML	50	4	200
23_MP6-8	270	2	540
23_RYT_PV	36	8	288
23_AYT_PV	15	8	120
23_VT	44	4	176
23_WGP_PV	33	2	66
23_HYB_PY-1	29	2	58
23_HYB_PY-2	24	2	48
23_Nutrien_PV	9	4	36
Total	**2,055**		**6,160**

* CLPYL = Clearfield Preliminary Yield Long-grain trial, CLPYM = Clearfield Preliminary Yield Medium-grain trial, PYL = Preliminary Yield Long-grain trial, DGL = Dyna-Gro long grain trial, PYM = Conventional Preliminary Yield Medium-grain trial, PVPY = Provisia Preliminary Yield test, URRN = Uniform Regional Rice Nursery, RYT = Regional Yield trial, AYT = Advance Yield Trial, PC = Pre-commercial trial, MML = Medium grain multilocation yield trial, MP6-8 = multi-parent yield trial, VT = Variety trial, WGP = whole genome prediction trial, HYB = hybrid preliminary yield trial

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

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

Most rice found in markets typically has an average Glycemic Index (GI) value of 73. Developing rice varieties that are suitable for individuals with diabetes or having a low GI could serve as a valuable resource for many people managing diabetes. A staggering 260 million people in rice-consuming nations are currently dealing with diabetes, and this number is expected to increase by 45% by 2045. A meta-analysis, combining data from studies conducted in China, Japan, the U.S., and Australia, revealed that each additional serving of white rice increased the risk of diabetes by 11%. A recent study involving 132,373 participants across 21 countries found a link between higher consumption of white rice and an increased risk of incident diabetes. The strongest association was observed in South Asia, while other regions showed a more modest and nonsignificant correlation. In recent years, there has been a significant rise in public awareness regarding the importance of low-GI rice and related products. Consumers mindful of their carbohydrate intake and healthcare providers can use GI values to make informed choices about their food.

In the United States, diabetes poses a widespread concern, impacting a total of 37.3 million people, which constitutes 11.3% of the population. The period between 2020 and 2021 witnessed a noticeable rise in diabetes prevalence among U.S. adults aged 18 and older. Rice holds a crucial role in the daily consumption of many U.S. residents. However, individuals with a penchant for rice often face challenges in savoring their favorite meals due to diabetes. The introduction of Low GI High Protein rice offers a solution, allowing rice enthusiasts to once again relish this staple while effectively managing their diabetes. The inclusion of this low Glycemic Index (GI) rice can have a crucial impact on diabetes management, especially in areas where rice holds a central place in diets. These regions include Louisiana, Mississippi, Texas, Arkansas, California, and major urban centers with rice-consuming immigrant communities. Louisiana, for example, with its staggering number of over 500,000 people affected by diabetes and ranking fifth highest in diabetes mortality across the nation, stands to experience substantial benefits by integrating low GI rice into local dietary practices.

1. Glycemic Value, Nutritional Characteristic, and Grain Quality Profile of Four Advanced Lines

A total of four advanced lines of low Glycemic Index (GI) entries, 21GIR-184, 21GIR-201, 21GIR-271, and 22GIR-287 were evaluated in the Preliminary Yield (PY) trials for their nutritional and grain quality components. The nutritional characteristics that were evaluated include crude bran fat content, crude fiber, carbohydrates, protein content and cereal chemistry. Yield potential and other agronomic traits were determined based on field evaluations conducted in the 2023 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 21GIR-184, 21GIR-201, 21GIR-271, and 21GIR-287 from the 2023 Preliminary Yield (PY) trials. Cultivar Frontière (FNTR) was included as a check.

TRAIT	FNTR	21GIR-184	21GIR-201	21GIR-271	21GIR-287
Yield (lbs/A) †	5,761	7,502	7,042	7,862	7,039
Crude Fat (g/100g)	0.7	1.4	1.2	1.3	0.9
Crude Fiber (g/100g)	0.8	0.8	1.3	1.8	1.7
Carbs (g/100g)	76	75	74	73	73
Calories (kcal100g)	361	-	-	-	-
Protein (w/w) %	10.72	11.8	11.4	11.3	11.8
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 (ºC)	81.74	80.4	80.1	81.1	80.2
Chalk (%)	9	10.4	9.2	6.2	8.8
Milling Quality (% hulls)	71.2	70.3	72.0	69.6	71.4
Milling yield (% whole kernel	62.1	63.3	59.9	61.0	62.4
Glycemic Index††	41	42	44	43	41

†Averaged over 3 replications, 2023 PY tests.
††Predicted value.

Table 2. Yield and analytical data of grain quality and nutritional profiles of five new GI lines 22GIR-103, 22GIR-187, 22GIR-198, 22GIR-202, and 22GIR-309 from 2023 Preliminary Yield (PY) trials.

TRAIT	22GIR-103	22GIR-187	22GIR-198	22GIR-202	22GIR-309
Yield (lbs/A) †	8,001	7,947	7,912	8,834	8,735
Crude Fat (g/100g)	1.4	1.8	0.9	1.3	2.1
Crude Fiber (g/100g)	0.7	1.5	2.3	2.9	3.4
Carbs (g/100g)	78	75	76	79	71
Calories (kcas/100g)	357	345	351	360	334
Protein (w/w) %	12.2	12.3	12.5	11.8	11.6
Amylose (w/w) %	20.2	20.9	21.3	20.3	20.6
Alkali Spreading	4	4	4	4	5
Gel Temp	Int.	Int.	Int.	Int.	Int.
Pasting Temp (ºC)	78.7	80.3	77.6	79.3	80.2
Chalk (%)	7.9	8.0	9.8	8.2	7.1
Milling Quality (%)	70.2	71.4	70.9	70.2	72.6
Milling yield (% whole kernel)	62.5	64.1	63.7	63.1	63.2
Glycemic Index††	46	43	44	40	46

†Averaged over 3 replications, 2023 PY tests.
††Predicted value.

2. Advanced Lines in the Preliminary Yield Trials

Data on seedling vigor (VIG), heading date (HDT), plant height (HTE), and yield potential (Yield), were collected from samples of selected lines. Additionally, DNA marker data were generated as part of this evaluation. The assessment occurred during replicated Preliminary Yield trials held at the H. Rouse Caffey Rice Research Station (HRCRRS) in Crowley, LA.

Table 3. Performance of advanced marker-assisted breeding lines in the 2023 Preliminary Yield trials at the H. Rouse Caffey Rice Research Station, Crowley, LA.

Entry	Line ID	VIG*	HDT†	HTE†	Yield†	DNA Marker Analysis for Amylose Cont.	DNA Marker Analysis for Amylose ALK
22HUP 001	19MB009	5.0	91.2	91.5	9,090.8	High Amylose	High/Intermediate GT
22HUP 002	19MB022	4.1	85.3	94.2	8,733.2	High Amylose	High/Intermediate GT
22HUP 003	19MB032	4.0	84.2	92.3	7,990.0	High Amylose	High/Intermediate GT
22HUP 004	19MB043	4.5	87.4	92.7	9,195.0	High Amylose	High/Intermediate GT
22HUP 005	19MB055	4.6	83.0	93.0	7,950.1	High Amylose	High/Intermediate GT
22HUP 006	19MB056	4.2	84.5	88.5	8,352.6	High Amylose	High/Intermediate GT
22HUP 007	19MB078	5.0	77.3	90.2	9,079.7	High Amylose	High/Intermediate GT
22HUP 008	19MB080	4.0	88.0	96.9	8,947.0	High Amylose	High/Intermediate GT
22HUP 009	19MB083	4.2	77.5	86.1	9,007.9	High Amylose	High/Intermediate GT
22HUP 010	19MB010	4.2	80.2	93.2	7,979.7	High Amylose	High/Intermediate GT
22HUP 011	19MB093	4.2	90.4	80.3	8,088.5	High Amylose	High/Intermediate GT
22HUP 012	19MB097	4.6	90.1	86.4	9,747.0	High Amylose	High/Intermediate GT
22HUP 013	19MB103	4.0	86.1	84.3	8,814.7	High Amylose	High/Intermediate GT
22HUP 014	19MB162	4.0	84.0	84.2	7,958.5	High Amylose	High/Intermediate GT
22HUP 015	19MB228	4.2	90.5	90.1	8,192.5	High Amylose	High/Intermediate GT
22HUP 016	19MB356	4.3	86.2	80.6	8,072.0	High Amylose	High/Intermediate GT
22HUP 017	19MB369	5.0	80.6	90.8	7,838.2	High Amylose	High/Intermediate GT
22HUP 018	19MB411	5.0	82.5	97.1	7,900.0	High Amylose	High/Intermediate GT
22HUP 019	19MB544	4.2	85.0	88.3	9,143.5	High Amylose	High/Intermediate GT
22HUP 020	19MB676	4.6	92.0	87.9	8,909.3	High Amylose	High/Intermediate GT
Check	Cypress	4.4	92.5	99.4	7,976.0	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 (lbs/A).

3. Performance of Low GI breeding lines for other important traits indicators

In the 2023 growing season, an evaluation was conducted on a total of 3,100 breeding lines of low Glycemic Index (GI) rice. A subset of these lines underwent assessment for resistant starch, bran oil content, and protein content. Additionally, standard amylose content and gel temperature were included in the evaluation. The summarized data from this subset of breeding lines can be found in Table 4.

Table 4. Performance of key trait indicators among breeding lines grown in the 2023 headrows at the HRCRRS.

Entry	Line ID	BOC†	RS††	Pro††	Row Yield†	DNA Marker Analysis for Amylose Cont.	Cooking Quality
22GIR 001	19CG-1-007	0.8	0.8	12.2	751	High Amylose	Intermediate
22GIR 002	19CG-1-009	0.6	1.9	12.2	790	High Amylose	Intermediate
22GIR 003	19CG-1-011	0.9	1.7	12.3	704	High Amylose	Intermediate
22GIR 004	19CG-1-015	0.7	1.8	12.5	749	High Amylose	Intermediate
22GIR 005	19CG-1-017	1.5	2.1	11.8	854	High Amylose	Intermediate
22GIR 006	19CG-1-019	1.8	2.3	11.0	715	High Amylose	Intermediate
22GIR 007	19CG-1-020	0.6	1.8	10.9	755	High Amylose	Intermediate
22GIR 008	19CG-1-024	0.8	2.7	11.2	767	High Amylose	Intermediate
22GIR 009	19CG-1-027	1.9	2.6	11.9	769	High Amylose	Intermediate
22GIR 010	19CG-1-055	1.7	0.8	12.3	808	High Amylose	Intermediate
22GIR 011	19CG-1-061	1.5	2.6	11.8	609	High Amylose	Intermediate
22GIR 012	19CG-2-062	1.4	2.4	12.6	699	High Amylose	Intermediate
22GIR 013	19CG-2-063	0.5	1.8	12.5	806	High Amylose	Intermediate
22GIR 014	19CG-2-071	1.2	2.9	13.1	769	High Amylose	Intermediate
22GIR 015	19CG-2-087	1.4	1.5	12.4	650	High Amylose	Intermediate
22GIR 016	19CG-2-089	1.2	1.8	13.9	910	High Amylose	Intermediate
22GIR 017	19CG-2-103	0.8	2.7	11.5	789	High Amylose	Intermediate
22GIR 018	19CG-2-104	1.9	1.7	12.2	679	High Amylose	Intermediate
22GIR 019	19CG-3-115	0.7	1.9	11.9	861	High Amylose	Intermediate
22GIR 020	19CG-3-125	0.7	2.0	11.6	807	High Amylose	Intermediate
22GIR 021	19CG-3-136	1.2	1.9	11.2	956	High Amylose	Intermediate
22GIR 022	19CG-3-151	0.9	1.2	10.9	976	High Amylose	Intermediate
22GIR 023	19CG-3-166	0.8	2.5	11.8	691	High Amylose	Intermediate
22GIR 024	19CG-3-187	1.4	1.9	12.6	680	High Amylose	Intermediate
22GIR 025	19CG-3-198	0.8	1.1	13.1	870	High Amylose	Intermediate
22GIR 026	19CG-3-199	1.8	1.8	12.6	868	High Amylose	Intermediate
22GIR 027	19CG-3-202	1.2	1.9	12.9	871	High Amylose	Intermediate
22GIR 028	19CG-3-203	1.9	2.9	12.8	790	High Amylose	Intermediate
22GIR 029	19CG-3-216	1.0	1.5	11.9	750	High Amylose	Intermediate
22GIR 030	19CG-3-217	0.8	1.9	12.6	810	High Amylose	Intermediate
22GIR 031	19CG-3-235	0.7	2.1	12.2	803	High Amylose	Intermediate
22GIR 032	19CG-3-236	0.8	2.8	12.7	880	High Amylose	Intermediate
22GIR 033	19CG-3-245	0.6	1.7	11.6	755	High Amylose	Intermediate
22GIR 034	19CG-3-269	0.9	2.8	12.1	746	High Amylose	Intermediate
22GIR 035	19CG-4-271	1.2	1.8	10.6	780	High Amylose	Intermediate
22GIR 036	19CG-4-273	0.9	1.9	12.1	880	High Amylose	Intermediate
22GIR 037	19CG-4-283	1.2	1.9	13.1	767	High Amylose	Intermediate
22GIR 038	19CG-4-284	1.0	2.1	12.7	702	High Amylose	Intermediate
22GIR 039	19CG-4-287	1.9	1.8	12.6	876	High Amylose	Intermediate
22GIR 040	19CG-4-291	1.3	1.7	12.1	780	High Amylose	Intermediate
22GIR 041	19CG-4-292	0.6	2.6	12.8	923	High Amylose	Intermediate
22GIR 042	19CG-4-293	1.8	1.7	12.8	879	High Amylose	Intermediate
22GIR 043	19CG-4-294	1.4	1.8	12.1	799	High Amylose	Intermediate
22GIR 044	19CG-4-297	0.9	2.8	12.7	780	High Amylose	Intermediate
22GIR 045	19CG-4-302	0.8	2.5	11.4	768	High Amylose	Intermediate
22GIR 046	19CG-4-304	0.5	0.9	11.1	790	High Amylose	Intermediate
22GIR 047	19CG-4-315	0.8	1.9	12.2	887	High Amylose	Intermediate
22GIR 048	19CG-4-323	1.2	1.8	13.5	778	High Amylose	Intermediate

Continued.

Table 4. Continued

Entry	Line ID	BOC†	RS††	Pro††	Row Yield†	DNA Marker Analysis for Amylose Cont.	Cooking Quality
22GIR 049	19CG-4-330	1.7	1.2	13.9	866	High Amylose	Intermediate
22GIR 050	19CG-4-331	1.2	1.9	12.3	800	High Amylose	Intermediate
22GIR 051	19CG-5-335	0.8	2.5	12.0	650	High Amylose	Intermediate
22GIR 052	19CG-5-366	0.8	2.3	11.9	875	High Amylose	Intermediate
22GIR 053	19CG-5-367	1.1	-	12.2	809	High Amylose	Intermediate
22GIR 054	19CG-5-375	1.3	-	12.5	978	High Amylose	Intermediate
22GIR 055	19CG-5-376	0.7	-	13.9	788	High Amylose	Intermediate
22GIR 056	19CG-5-387	1.4	-	12.1	807	High Amylose	Intermediate
22GIR 057	19CG-5-394	0.8	-	13.4	965	High Amylose	Intermediate
22GIR 058	19CG-5-397	0.7	-	13.7	681	High Amylose	Intermediate
22GIR 059	19CG-5-398	0.8	-	11.9	609	High Amylose	Intermediate
22GIR 060	19CG-5-403	1.1	-	11.7	891	High Amylose	Intermediate
22GIR 061	19CG-5-405	1.3	-	10.9	777	High Amylose	Intermediate
22GIR 062	19CG-5-409	1.8	-	13.6	867	High Amylose	Intermediate
22GIR 063	19CG-6-503	0.6	-	12.9	540	High Amylose	Intermediate
22GIR 064	19CG-6-505	0.6	-	13.8	770	High Amylose	Intermediate
22GIR 065	19CG-6-512	1.6	-	12.4	608	High Amylose	Intermediate
22GIR 066	19CG-6-521	1.5	-	12.7	882	High Amylose	Intermediate
22GIR 067	19CG-6-522	0.9	-	10.9	637	High Amylose	Intermediate
22GIR 068	19CG-6-525	1.1	-	12.6	790	High Amylose	Intermediate
22GIR 069	19CG-6-527	1.9	-	12.6	811	High Amylose	Intermediate
22GIR 070	19CG-6-532	0.8	-	13.8	756	High Amylose	Intermediate
22GIR 071	19CG-6-553	0.7	-	13.5	803	High Amylose	Intermediate
22GIR 072	19CG-6-565	1.2	-	12.9	911	High Amylose	Intermediate
22GIR 073	19CG-6-571	0.8	-	11.7	792	High Amylose	Intermediate
22GIR 074	19CG-6-574	0.4	-	13.1	856	High Amylose	Intermediate
22GIR 075	19CG-7-587	0.9	-	11.4	768	High Amylose	Intermediate
22GIR 076	19CG-7-601	1.2	-	13.2	995	High Amylose	Intermediate
22GIR 077	19CG-7-605	1.5	-	11.9	844	High Amylose	Intermediate
22GIR 078	19CG-7-606	0.8	-	12.1	742	High Amylose	Intermediate
22GIR 089	19CG-7-607	1.8	-	13.1	846	High Amylose	Intermediate
22GIR 080	19CG-7-610	0.8	-	11.4	831	High Amylose	Intermediate
22GIR 081	19CG-7-616	1.1	-	11.9	837	High Amylose	Intermediate
22GIR 082	19CG-7-622	0.5	-	12.9	763	High Amylose	Intermediate
22GIR 083	19CG-7-625	0.8	-	12.0	948	High Amylose	Intermediate
22GIR 084	19CG-7-626	1.9	-	11.2	818	High Amylose	Intermediate
22GIR 085	19CG-7-732	0.9	-	10.9	884	High Amylose	Intermediate
22GIR 086	19CG-7-733	0.4	-	10.6	780	High Amylose	Intermediate
22GIR 087	19CG-7-739	1.9	-	11.3	670	High Amylose	Intermediate
22GIR 088	19CG-7-740	1.4	-	12.3	756	High Amylose	Intermediate
22GIR 089	19CG-7-751	0.8	-	14.2	789	High Amylose	Intermediate
22GIR 090	19CG-7-752	1.1	-	11.3	887	High Amylose	Intermediate
22GIR 091	19CG-7-755	0.9	-	14.1	888	High Amylose	Intermediate
22GIR 092	19CG-7-761	1.9	-	13.9	923	High Amylose	Intermediate
22GIR 093	19CG-7-767	1.7	-	13.0	849	High Amylose	Intermediate
22GIR 094	19CG-7-818	0.8	-	12.7	726	High Amylose	Intermediate
22GIR 095	19CG-7-828	0.7	-	13.1	876	High Amylose	Intermediate
22GIR 096	19CG-7-841	1.1	-	12.2	728	High Amylose	Intermediate

Continued.

Table 4. Continued.

Entry	Line ID	BOC†	RS††	Pro††	Row Yield†	DNA Marker Analysis for Amylose Cont.	Cooking Quality
22GIR 097	19CG-7-842	0.7	-	13.4	959	High Amylose	Intermediate
22GIR 098	19CG-7-853	1.8	-	11.7	823	High Amylose	Intermediate
22GIR 099	19CG-7-867	1.9	-	11.6	773	High Amylose	Intermediate
22GIR 100	19CG-8-871	0.9	-	12.9	728	High Amylose	Intermediate
CCDR	Check	-	-	7.2	823	High Amylose	High/Intermediate
CPRS	Check	-	-	7.0	782	High Amylose	High/Intermediate

* 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	WaxyExon2	Waxy Hap)	Amylose Content	Gel Temp
1	19CG-1-001	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
2	19CG-1-003	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
3	19CG-1-010	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
4	19CG-1-011	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
5	19CG-1-016	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
6	19CG-1-017	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
7	19CG-1-019	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
8	19CG-1-033	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
9	19CG-1-037	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
10	19CG-1-038	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
11	19CG-1-042	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
12	19CG-1-044	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
13	19CG-1-045	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
14	19CG-1-047	Pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
15	19CG-1-071	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
16	19CG-2-074	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
17	19CG-2-077	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
18	19CG-2-083	Pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
19	19CG-2-088	Pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
20	19CG-2-091	Pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
21	19CG-2-098	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
22	19CG-2-101	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
23	19CG-2-103	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
24	19CG-3-105	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
25	19CG-3-109	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
26	19CG-3-110	Pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
27	19CG-4-112	Pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
28	19CG-4-114	Pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
29	19CG-4-115	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
30	19CG-4-138	Pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
31	19CG-4-139	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
32	19CG-4-152	Pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
33	19CG-4-157	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
34	19CG-4-158	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
35	19CG-4-163	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
36	19CG-4-167	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel

Continued

Table 5. Continued

No.	Plant ID	Blast Genes	Type	ALK	WaxyExon1	WaxyExon2	Waxy Hap)	Amylose Content	Gel Temp
37	19CG-4-154	Pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
38	19CG-5-155	Pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
39	19CG-5-157	Pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
40	19CG-5-158	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
41	19CG-5-159	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
42	19CG-5-165	pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
43	19CG-5-167	Pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
44	19CG-6-169	Pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
45	19CG-6-179	Pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
46	19CG-6-182	Pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
47	19CG-6-187	Pi-ta^2, Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
48	19CG-6-192	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
49	19CG-6-197	pi-ta^2, pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
50	19CG-6-207	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

Uniformity in grain size and the percentage of chalk is a crucial consideration in Marker-Assisted Breeding for the development of low Glycemic Index (GI) rice at the HRCRRS. The assessment involved the evaluation of selected lines, and those demonstrating improvement will be progressed in the upcoming growing season.

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

Entry	Line ID	Grain Type	GH†	% Chalk
22GIR 001	19CG-1-001	L	90.1	7.4
22GIR 002	19CG-1-002	L	92.2	11.5
22GIR 003	19CG-1-008	L	91.2	8.0
22GIR 004	19CG-1-009	L	91.4	8.3
22GIR 005	19CG-1-010	L	92.3	7.4
22GIR 006	19CG-1-011	L	91.1	6.2
22GIR 007	19CG-1-027	L	92.4	4.6
22GIR 008	19CG-1-029	L	93.4	8.3
22GIR 009	19CG-1-030	L	92.7	5.8
22GIR 010	19CG-2-032	L	90.8	5.0
22GIR 011	19CG-2-033	L	91.2	8.0
22GIR 012	19CG-2-049	L	86.3	9.8
22GIR 013	19CG-2-079	L	87.1	8.0
22GIR 014	19CG-2-083	L	90.4	4.3
22GIR 015	19CG-2-095	L	85.5	5.7
22GIR 016	19CG-2-096	L	96.1	7.5
22GIR 017	19CG-2-113	L	91.4	9.8
22GIR 018	19CG-2-116	L	87.3	3.0
22GIR 019	19CG-2-124	L	82.1	11.0
22GIR 020	19CG-2-125	L	90.3	9.0
22GIR 021	19CG-2-132	L	88.2	12.0
22GIR 022	19CG-2-134	L	91.3	8.0
22GIR 023	19CG-2-135	L	90.2	2.7
22GIR 024	19CG-2-144	L	84.1	7.6
22GIR 025	19CG-2-145	L	84.2	14.1

Continued

Table 6. Continued

Entry	Line ID	Grain Type	GH†	% Chalk
22GIR 026	19CG-2-146	L	84.1	8.5
22GIR 027	19CG-2-175	L	91.2	9.8
22GIR 028	19CG-3-178	L	89.2	4.5
22GIR 029	19CG-3-181	L	88.2	3.5
22GIR 030	19CG-3-190	L	91.3	7.4
22GIR 031	19CG-3-191	L	92.5	5.1
22GIR 032	19CG-3-198	L	93.0	4.2
22GIR 033	19CG-3-208	L	90.6	8.7
22GIR 034	19CG-3-209	L	88.1	7.2
22GIR 035	19CG-3-213	L	92.3	6.4
22GIR 036	19CG-4-218	L	88.5	4.4
22GIR 037	19CG-4-219	L	97.7	2.3
22GIR 038	19CG-4-224	L	91.3	5.6
22GIR 039	19CG-4-245	L	92.1	7.2
22GIR 040	19CG-4-247	L	87.1	8.1
22GIR 041	19CG-5-251	L	91.4	2.2
22GIR 042	19CG-5-259	L	91.5	11.2
22GIR 043	19CG-5-268	L	93.2	5.6
22GIR 044	19CG-5-274	L	83.3	7.3
22GIR 045	19CG-5-275	L	94.1	9.0
22GIR 046	19CG-5-279	L	86.4	10.3
22GIR 047	19CG-5-280	L	89.1	8.2
22GIR 048	19CG-5-283	L	85.4	7.5
22GIR 049	19CG-5-287	L	86.1	6.4
22GIR 050	19CG-5-299	L	86.4	8.4
22GIR 051	19CG-5-301	L	91.2	4.6
22GIR 052	19CG-6-302	L	90.4	5.7
22GIR 053	19CG-6-305	L	89.4	5.4
22GIR 054	19CG-6-306	L	91.2	7.3
22GIR 055	19CG-6-307	L	90.4	8.6
22GIR 056	19CG-6-359	L	92.4	8.7
22GIR 057	19CG-6-362	L	88.5	9.8
22GIR 058	19CG-6-366	L	91.4	5.2
22GIR 059	19CG-6-367	L	91.5	11.3
22GIR 060	19CG-6-369	L	90.3	4.3
22GIR 061	19CG-6-370	L	90.4	1.7
22GIR 062	19CG-6-371	L	88.4	2.5
22GIR 063	19CG-6-378	L	94.1	1.3
22GIR 064	19CG-6-380	L	90.8	6.6
22GIR 065	19CG-6-381	L	90.4	9.5
22GIR 066	19CG-6-387	L	96.2	7.8
22GIR 067	19CG-6-398	L	91.8	7.5
22GIR 068	19CG-6-399	L	92.3	11.2
22GIR 069	19CG-6-401	L	94.6	8.4
22GIR 070	19CG-6-463	L	88.7	6.7
22GIR 071	19CG-6-502	L	88.3	11.1
22GIR 072	19CG-7-572	L	89.2	6.2
22GIR 073	19CG-7-601	L	91.8	5.1
22GIR 074	19CG-7-608	L	90.6	5.1
22GIR 075	19CG-7-614	L	90.2	8.4
22GIR 076	19CG-7-615	L	91.3	5.7

Continued.

Table 6. Continued

Entry	Line ID	Grain Type	GH†	% Chalk
22GIR 077	19CG-7-617	L	82.6	3.7
22GIR 078	19CG-7-728	L	81.5	9.2
22GIR 089	19CG-7-743	L	89.3	1.4
22GIR 080	19CG-7-751	L	92.5	1.5
22GIR 081	19CG-7-801	L	92.2	1.7
22GIR 082	19CG-7-814	L	88.7	1.1
22GIR 083	19CG-8-821	L	89.8	8.7
22GIR 084	19CG-8-827	L	98.1	3.7
22GIR 085	19CG-8-855	L	93.4	4.4
22GIR 086	19CG-8-858	L	91.5	7.9
22GIR 087	19CG-8-859	L	93.9	9.5
22GIR 088	19CG-8-862	L	87.3	8.5
22GIR 089	19CG-8-876	L	88.1	4.8
22GIR 090	19CG-8-878	L	89.4	6.1
22GIR 091	19CG-8-878	L	89.9	8.1
22GIR 092	19CG-8-881	L	92.1	4.6
22GIR 093	19CG-8-895	L	96.4	5.8
22GIR 094	19CG-8-898	L	88.9	5.9
22GIR 095	19CG-8-607	L	91.3	7.3
CCDR	Check	L	88.2	9.3
CPRS	Check	L	94.1	8.5

†GH=% Grain Homogeneity.

RICE AGRONOMY

M. Kongchum, J.P. Leonards, J.S. Fluitt, B. Beard, and M.J. Breaux

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, Richland, and Calcasieu parishes. Cultural management studies were conducted at the HRCRRS north and south units.

The year 2023 was a difficult time for field management due to excessive drought throughout the growing season. The results of trials at Northeast Research Station were not included in the report due to it being severely damaged by birds.

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 preflood
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^o angle) and 5 = lodged to ground (90^o 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
Pre-plant	Pre-planting 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
Herbicides			
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 Weathermax	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
Insecticides			
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
Fungicides			
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

M. Kongchum, J.P. Leonards, J.S. Fluitt, B. Beard, 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 this section were analyzed using the ARM Software (GDM Solutions. Inc.). Treatment means with significant differences were identified using LSD at $\alpha = .05$.

Agronomic Response of Drill-Seeded DGM004 to Different Rates of Nitrogen Fertilizer – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-01

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / DGM004
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 1. Agronomic response of drill-seeded DGM004 to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date					7/26/2023	7/27/2023	11/6/2023	
Rating Unit			days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority			Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Urea (lb N/A)	Growth Stage						
1	0	4-5 leaf	108 b	88 b	28.5 b	4043 b	2233 a	6276 b
2	90	4-5 leaf	110 a	90 a	32.3 a	6148 a	1668 b	8123 a
3	120	4-5 leaf	110 a	90 a	32.5 a	5655 a	1727 b	7959 a
4	150	4-5 leaf	110 a	90 a	33.0 a	6376 a	1639 b	8015 a
5	180	4-5 leaf	110 a	90 a	32.3 a	6196 a	1810 b	8326 a
6	210	4-5 leaf	110 a	90 a	32.3 a	6221 a	1760 b	7981 a
LSD P=.05			NA	NA	1.67	1123.0	346.5	1042.1
Standard Deviation			0	0	1.11	745.1	222.6	669.6
CV			0	0	3.49	12.91	12.33	8.61
Treatment F			0	0	8.729	5.607	3.838	5.005
Treatment Prob(F)			1	1	0.0005	0.0041	0.0294	0.0123

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded DGL2065 to Different Rates of Nitrogen Fertilizer – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-03

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / DGL2065
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 2. Agronomic response of drill-seeded DGL2065 to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date					7/26/2023	7/27/2023	11/6/2023	
Rating Unit			days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority			Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Urea (lb N/A)	Growth Stage						
1	0	4-5 leaf	103.0 c	83.0 c	30.5 b	5196 b	3634 a	8830 b
2	90	4-5 leaf	105.8 b	85.8 b	35.5 a	9493 a	2636 b	12129 a
3	120	4-5 leaf	105.8 b	85.8 b	35.8 a	9079 a	2361 bc	11439 a
4	150	4-5 leaf	106.3 ab	86.3 ab	37.0 a	9873 a	2288 bc	12161 a
5	180	4-5 leaf	106.3 ab	86.3 ab	36.5 a	10064 a	1991 c	11740 a
6	210	4-5 leaf	107.0 a	87.0 a	36.8 a	9515 a	2150 bc	11777 a
LSD P=.05			0.84	0.84	2.45	1552.5	538.7	1540.9
Standard Deviation			0.56	0.56	1.62	1030.1	352.6	1008.7
CV			0.53	0.65	4.59	11.61	14.05	8.89
Treatment F			24.643	24.643	9.025	12.65	11.256	6.258
Treatment Prob(F)			0.0001	0.0001	0.0004	0.0001	0.0002	0.0036

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded PVL03 to Different Rates of Nitrogen Fertilizer – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-04

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / PVL03
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 3. Agronomic response of drill-seeded PVL03 to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date					7/26/2023	7/27/2023	11/6/2023	
Rating Unit			days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority			Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Urea (lb N/A)	Growth Stage						
1	0	4-5 leaf	102.0 b	82.0 b	29.8 c	4363 b	3226 a	7589 b
2	90	4-5 leaf	106.5 a	86.5 a	37.8 b	9150 a	2950 a	12100 a
3	120	4-5 leaf	106.8 a	86.8 a	38.8 ab	9719 a	2569 b	12288 a
4	150	4-5 leaf	106.8 a	86.8 a	39.0 ab	9321 a	2109 c	11430 a
5	180	4-5 leaf	107.0 a	87.0 a	39.5 a	9151 a	1954 c	11105 a
6	210	4-5 leaf	107.0 a	87.0 a	39.0 ab	9671 a	1610 d	11026 a
LSD P=.05			0.62	0.62	1.56	1538.0	328.6	1616.8
Standard Deviation			0.41	0.41	1.04	1020.4	216.7	1066.1
CV			0.39	0.47	2.78	11.92.0	9.02	9.76
Treatment F			93.000	93.000	52.039	16.494.0	32.761	10.321
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001.0	0.0001	0.0003

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded CLL16 to Different Rates of Nitrogen Fertilizer – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-05

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / CLL16
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 4. Agronomic response of drill-seeded CLL16 to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date					7/26/2023	7/27/2023	11/6/2023	
Rating Unit			days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority			Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Urea (lb N/A)	Growth Stage						
1	0	4-5 leaf	105.0 d	85.0 d	30.8 c	5267 b	3537	8805
2	90	4-5 leaf	112.0 c	92.0 c	39.8 b	10183 a	1614	12968
3	120	4-5 leaf	113.0 b	93.0 b	40.3 b	10452 a	-	10452
4	150	4-5 leaf	113.0 b	93.0 b	42.8 a	10467 a	-	10467
5	180	4-5 leaf	113.0 b	93.0 b	41.8 ab	9766 a	-	9766
6	210	4-5 leaf	114.0 a	94.0 a	43.0 a	9650 a	-	9650
LSD P=.05			NA	NA	2.23	1293.7.0	NA	NA
Standard Deviation			0	0	1.48	858.3	NA	NA
CV			0	0	3.73	9.23	NA	NA
Treatment F			0.000	0.000	38.158	21.792	NA	NA
Treatment Prob(F)			1.000	1.000	0.0001	0.0001	NA	NA

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded CLL18 to Different Rates of Nitrogen Fertilizer Rate – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-06

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / CLL18
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 5. Agronomic response of drill-seeded CLL18 to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date					7/26/2023	7/27/2023	11/6/2023	
Rating Unit			days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority			Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Urea (lb N/A)	Growth Stage						
1	0	4-5 leaf	102.0 c	82.0 c	31 d	4842 b	3695 a	8536 b
2	90	4-5 leaf	107.0 b	87.0 b	39.3 c	11064 a	2058 b	13122 a
3	120	4-5 leaf	108.0 a	88.0 a	40.3 bc	11596 a	1830 b	13426 a
4	150	4-5 leaf	108.0 a	88.0 a	42.0 a	12463 a	1301 c	14153 a
5	180	4-5 leaf	108.0 a	88.0 a	41.3 ab	12043 a	NA	NA
6	210	4-5 leaf	108.0 a	88.0 a	42.3 a	11514 a	NA	NA
LSD P=.05			NA	NA	1.17	1711.3	458.4	1903.3
Standard Deviation			0.00	0.00	0.77	1135.5	281.2	1167.2
CV			0.0	0.0	1.97	10.73	12.66	9.48
Treatment F			0.000	0.000	119.444	25.286	53.928	19.124
Treatment Prob(F)			1.000	1.000	0.0001	0.0001	0.0001	0.0005

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded CLL19 to Different Rates of Nitrogen Fertilizer – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-07

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / CLL19
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 6. Agronomic response of drill-seeded CLL19 to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date					7/26/2023	7/27/2023	11/6/2023	
Rating Unit			days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority			Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Urea (lb N/A)	Growth Stage						
1	0	4-5 leaf	100.0 d	80.0 d	27.8 e	5566 d	4082 a	9648 c
2	90	4-5 leaf	103.5 c	83.5 c	34.0 d	10857 bc	3549 ab	14406 ab
3	120	4-5 leaf	103.8 bc	83.8 bc	34.8 cd	10846 c	3548 ab	14394 ab
4	150	4-5 leaf	104.5 ab	84.5 ab	35.5 bc	11160 abc	3476 ab	14636 a
5	180	4-5 leaf	105.0 a	85.0 a	37.0 a	11441 a	2985 bc	14425 ab
6	210	4-5 leaf	105.0 a	85.0 a	36.5 ab	11312 ab	2538 c	13850 b
LSD P=.05			0.77	0.77	1.47	459.5	612.2	765.5
Standard Deviation			0.51	0.51	0.98	304.9	406.2	507.9
CV			0.5	0.61	2.85	2.99	12.08	3.75
Treatment F			53.716	53.716	47.512	223.974	6.895	58.003
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0016	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded Addi Jo to Different Rates of Nitrogen Fertilizer – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-08

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / Addi Jo
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 7. Agronomic response of drill-seeded Addi Jo to nitrogen fertilizer rate. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date					7/26/2023	7/27/2023	11/6/2023	
Rating Unit			days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority			Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Urea (lb N/A)	Growth Stage						
1	0	4-5 leaf	107.0 c	87.0 c	31.3 c	4640 b	5186 a	9826 c
2	90	4-5 leaf	110.0 b	90.0 b	36.0 b	8543 a	2800 b	11343 ab
3	120	4-5 leaf	111.0 a	91.0 a	37.0 ab	9125 a	2746 b	11871 a
4	150	4-5 leaf	111.0 a	91.0 a	36.8 ab	8842 a	2214 bc	11055 ab
5	180	4-5 leaf	111.0 a	91.0 a	37.8 a	8460 a	2233 bc	10693 bc
6	210	4-5 leaf	111.0 a	91.0 a	37.0 ab	8378 a	1863 c	10558 bc
LSD P=.05			NA	NA	1.51	1174.2	727.0	1089.9
Standard Deviation			0.00	0.00	1.00	779.1	479.3	718.6
CV			0.0	0.0	2.79	9.74	16.88	6.6
Treatment F			0.000	0.000	22.355	18.338	25.172	3.836
Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001	0.0001	0.0213

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded Avant to Different Rates of Nitrogen Fertilizer – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-09

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / Avant
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 8. Agronomic response of drill-seeded Avant to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date					7/26/2023	7/27/2023	11/6/2023	
Rating Unit			days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority			Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Urea (lb N/A)	Growth Stage						
1	0	4-5 leaf	95.0 e	75.0 e	27.3 b	4306 b	4476 ab	8782 d
2	90	4-5 leaf	101.0 d	81.0 d	32.3 a	9886 a	4597 a	14483 a
3	120	4-5 leaf	101.5 cd	81.5 cd	33.8 a	10166 a	4028 b	14194 ab
4	150	4-5 leaf	101.8 bc	81.8 bc	34.0 a	9843 a	3517 c	13360 abc
5	180	4-5 leaf	102.3 ab	82.3 ab	33.5 a	9580 a	3489 c	13069 bc
6	210	4-5 leaf	102.5 a	82.5 a	34.0 a	9212 a	3140 c	12351 c
LSD P=.05			0.53	0.53	1.86	1022.5	460.6	1187.7
Standard Deviation			0.35	0.35	1.23	678.4	305.6	788.0
CV			0.35	0.43	3.80	7.68	7.89	6.20
Treatment F			261.545	261.545	18.258	43.626	14.770	27.635
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded RU2102150 to Different Rates of Nitrogen Fertilizer – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-10

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / RU2102150
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 9. Agronomic response of drill-seeded RU2102150 to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date					7/26/2023	7/27/2023	11/6/2023	
Rating Unit			days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority			Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Urea (lb N/A)	Growth Stage						
1	0	4-5 leaf	103.0 b	83.0 b	30.3 c	5194 b	4843 a	10037 c
2	90	4-5 leaf	107.0 a	87.0 a	37 ab	10528 a	3290 b	13818 a
3	120	4-5 leaf	107.0 a	87.0 a	36.3 b	10376 a	3304 b	13680 a
4	150	4-5 leaf	107.0 a	87.0 a	37.5 a	10161 a	3267 b	13428 ab
5	180	4-5 leaf	107.0 a	87.0 a	37.5 a	9506 a	2757 c	12263 b
6	210	4-5 leaf	107.0 a	87.0 a	37.0 ab	10428 a	2733 c	13160 ab
LSD P=.05			NA	NA	1.15	1412.2	401.9	1360.7
Standard Deviation			0.00	0.00	0.76	937.0	266.6	902.8
CV			0.0	0.0	2.12	10.0	7.92	7.09
Treatment F			0.000	0.000	54.808	19.643	33.448	10.041
Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001	0.0001	0.0002

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded RU1902207 to Different Rates of Nitrogen Fertilizer – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-11

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / RU1902207
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 10. Agronomic response of drill-seeded RU1902207 to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date					7/26/2023	7/27/2023	11/6/2023	
Rating Unit			days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority			Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Urea (lb N/A)	Growth Stage						
1	0	4-5 leaf	102.0 b	82.0 b	29.8 b	4560 c	3900 a	8460 b
2	90	4-5 leaf	105.0 a	85.0 a	36.8 a	9212 ab	3595 a	12807 a
3	120	4-5 leaf	105.0 a	85.0 a	37.0 a	9535 a	3773 a	13308 a
4	150	4-5 leaf	105.0 a	85.0 a	38.0 a	9229 ab	3393 a	12622 a
5	180	4-5 leaf	105.0 a	85.0 a	36.5 a	9180 ab	3351 a	12531 a
6	210	4-5 leaf	105.0 a	85.0 a	38.0 a	8422 b	3584 a	12006 a
LSD P=.05			NA	NA	1.53	1080.8	647.5	1512.4
Standard Deviation			0.00	0.00	1.02	717.1	429.6	1003.5
CV			0.0	0.0	2.82	8.6	11.94	8.39
Treatment F			0.000	0.000	37.839	27.965	0.976	12.351
Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001	0.4639	0.0001

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded DG3H2007 to Different Rates of Nitrogen Fertilizer – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-24

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / DG3H2007
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 10 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 11. Agronomic response of drill-seeded DG3H2007 to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date					7/26/2023	7/27/2023	11/6/2023	
Rating Unit			days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority			Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Urea (lb N/A)	Growth Stage						
1	0	4-5 leaf	103.0 c	83.0 c	32.5 c	6909 c	3253 a	10161 a
2	90	4-5 leaf	107.0 b	87.0 b	40.3 b	9579 b	1993 a	8502 a
3	120	4-5 leaf	107.0 b	87.0 b	41.5 ab	11075 ab	1953 a	13494 a
4	150	4-5 leaf	107.0 b	87.0 b	40.8 b	12100 a	1848 a	14227 a
5	180	4-5 leaf	108.0 a	88.0 a	43.3 a	11505 ab	2068 a	13893 a
6	210	4-5 leaf	108.0 a	88.0 a	41.8 ab	10813 ab	1780 a	12927 a
LSD P=.05			NA	NA	2.11	2003.5	1184.0	3554.5
Standard Deviation			0.00	0.00	1.40	1329.3	526.1	1579.5
CV			0.0	0.0	3.50	12.9	24.48	12.95
Treatment F			0.000	0.000	29.761	7.955	4.377	8.660
Treatment Prob(F)			1.0000	1.0000	0.0001	0.0008	0.1270	0.0528

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded DGM004 to Different Rates of Nitrogen Fertilizer – Richland Parish

Experiment number ..... : 23-RP-01

Site and design ..... :
- **Location/Cooperator** ..... : Richland Parish / Ashley Dickson
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 2.69
- **pH** ..... : 6.51
- **Extractable nutrients (**ppm) ..... : Ca-2450; Cu-2.75; Mg-590; P-17.5; K-164; Na-109; S-24; Zn-1.7

Crop/Variety ..... : Rice / DGM004
- **Planting method/date** ..... : Drill seeded / May 22
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : June 1
- **Harvest date** ..... : September 27
- **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 ..... : No blanket applications

Water management ..... : Underground irrigation
- **Flush** ..... : NA
- **Flood** ..... : June 23
- **Drain** ..... : *Well problem. The field dried on its own around late soft dough.
- **Ratoon flood** ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1.5 qt/A Glyphosate + 2 oz/A Sharpen + 12.5 oz/A Command + 1 pt/A Crop oil, May 22
  4 qt/A Stam + 1 qt/A Facet, June 6
  4 qt/A Stam + 2.4 qt/A Prowl, June 21
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 12. Agronomic response of drill-seeded DGM004 to nitrogen fertilizer rate. Richland Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					9/27/2023	9/27/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	81.0 d	71.0 d	28.3 d	3103 c
2	90	4-5 leaf	82.3 bcd	72.3 bcd	30.0 cd	4764 b
3	120	4-5 leaf	83.0 abc	73.0 abc	30.5 bcd	5792 ab
4	150	4-5 leaf	83.8 a	73.8 a	32.8 abc	5641 ab
5	180	4-5 leaf	83.5 ab	73.5 ab	33.0 ab	6602 a
6	210	4-5 leaf	82.0 cd	72.0 cd	34.0 a	6692 a
LSD P=.05			1.37	1.37	2.96	1238.4
Standard Deviation			0.91	0.91	1.96	816.5
CV			1.1	1.25	6.24	15.0
Treatment F			5.189	5.189	4.960	10.796
Treatment Prob(F)			0.0058	0.0058	0.0070	0.0002

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded DGL2065 to Different Rates of Nitrogen Fertilizer – Richland Parish

Experiment number ..... : 23-RP-03

Site and design ..... :
- **Location/Cooperator** ..... : Richland Parish / Ashley Dickson
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 2.69
- **pH** ..... : 6.51
- **Extractable nutrients (**ppm) ..... : Ca-2450; Cu-2.75; Mg-590; P-17.5; K-164; Na-109; S-24; Zn-1.7

Crop/Variety ..... : Rice / DGL2065
- **Planting method/date** ..... : Drill seeded / May 22
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : June 1
- **Harvest date** ..... : September 27
- **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 ..... : No blanket applications

Water management ..... : Underground irrigation
- **Flush** ..... : NA
- **Flood** ..... : June 23
- **Drain** ..... : *Well problem. The field dried on its own around late soft dough.

Ratoon flood ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1.5 qt/A Glyphosate + 2 oz/A Sharpen + 12.5 oz/A Command + 1 pt/A Crop oil, May 22
  4 qt/A Stam + 1 qt/A Facet, June 6
  4 qt/A Stam + 2.4 qt/A Prowl, June 21
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 13. Agronomic response of drill-seeded DGL2065 to nitrogen fertilizer rate. Richland Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					9/27/2023	9/27/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	80.3 c	70.3 c	36.0 a	3357 d
2	90	4-5 leaf	81.8 b	71.8 b	32.8 a	5154 c
3	120	4-5 leaf	81.8 b	71.8 b	32.8 a	6687 b
4	150	4-5 leaf	82.8 a	72.8 a	33.8 a	6882 ab
5	180	4-5 leaf	82.5 ab	72.5 ab	33.8 a	7184 ab
6	210	4-5 leaf	82.8 a	72.8 a	34.3 a	7638 a
LSD P=.05			0.84	0.84	3.59	924.6
Standard Deviation			0.56	0.56	2.38	613.5
CV			0.68	0.77	7.04	9.97
Treatment F			11.811	11.811	1.016	27.417
Treatment Prob(F)			0.0001	0.0001	0.4427	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded PVL03 to Different Rates of Nitrogen Fertilizer – Richland Parish

Experiment number ..... : 23-RP-04

Site and design ..... :
- **Location/Cooperator** ..... : Richland Parish / Ashley Dickson
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 2.69
- **pH** ..... : 6.51
- **Extractable nutrients (**ppm) ..... : Ca-2450; Cu-2.75; Mg-590; P-17.5; K-164; Na-109; S-24; Zn-1.7

Crop/Variety ..... : Rice / PVL03
- **Planting method/date** ..... : Drill seeded / May 22
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : June 1
- **Harvest date** ..... : September 27
- **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 ..... : No blanket applications

Water management ..... : Underground irrigation
- **Flush** ..... : NA
- **Flood** ..... : June 23
- **Drain** ..... : *Well problem. The field dried on its own around late soft dough.
- **Ratoon flood** ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1.5 qt/A Glyphosate + 2 oz/A Sharpen + 12.5 oz/A Command + 1 pt/A Crop oil, May 22
  4 qt/A Stam + 1 qt/A Facet, June 6
  4 qt/A Stam + 2.4 qt/A Prowl, June 21
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 14. Agronomic response of drill-seeded PVL03 to nitrogen fertilizer rate. Richland Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					9/27/2023	9/27/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	90.3 d	80.3 d	35.3 a	3612 d
2	90	4-5 leaf	91.3 cd	81.3 cd	35.3 a	5426 c
3	120	4-5 leaf	92.0 c	82.0 c	36.8 a	6339 b
4	150	4-5 leaf	95.0 ab	85.0 ab	36.8 a	6979 ab
5	180	4-5 leaf	94.0 b	84.0 b	37.5 a	7664 a
6	210	4-5 leaf	95.5 a	85.5 a	37.8 a	7675 a
LSD P=.05			1.11	1.11	2.02	794.5
Standard Deviation			0.74	0.74	1.34	527.1
CV			0.79	0.89	3.67	8.39
Treatment F			33.612	33.612	2.583	35.124
Treatment Prob(F)			0.0001	0.0001	0.0707	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded CLL16 to Different Rates of Nitrogen Fertilizer – Richland Parish

Experiment number ..... : 23-RP-05

Site and design ..... :
- **Location/Cooperator** ..... : Richland Parish / Ashley Dickson
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 2.69
- **pH** ..... : 6.51
- **Extractable nutrients (**ppm) ..... : Ca-2450; Cu-2.75; Mg-590; P-17.5; K-164; Na-109; S-24; Zn-1.7

Crop/Variety ..... : Rice / CLL16
- **Planting method/date** ..... : Drill seeded / May 22
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : June 1
- **Harvest date** ..... : September 27
- **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 ..... : No blanket applications

Water management ..... : Underground irrigation
- **Flush** ..... : NA
- **Flood** ..... : June 23
- **Drain** ..... : *Well problem. The field dried on its own around late soft dough.
- **Ratoon flood** ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1.5 qt/A Glyphosate + 2 oz/A Sharpen + 12.5 oz/A Command + 1 pt/A Crop oil, May 22
  4 qt/A Stam + 1 qt/A Facet, June 6
  4 qt/A Stam + 2.4 qt/A Prowl, June 21
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 15. Agronomic response of drill-seeded CLL16 to nitrogen fertilizer rate. Richland Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					9/27/2023	9/27/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	94.0 d	84.0 d	35.3 b	4633 c
2	90	4-5 leaf	94.8 c	84.8 c	38.3 a	7117 b
3	120	4-5 leaf	96.3 b	86.3 b	39.5 a	7882 ab
4	150	4-5 leaf	96.5 b	86.5 b	40.3 a	8523 a
5	180	4-5 leaf	97.5 a	87.5 a	39.5 a	8383 a
6	210	4-5 leaf	98.0 a	88.0 a	39.5 a	8596 a
LSD P=.05			0.69	0.69	2.52	1102.8
Standard Deviation			0.46	0.46	1.67	731.7
CV			0.48	0.53	4.31	9.73
Treatment F			45.316	45.316	4.717	17.237
Treatment Prob(F)			0.0001	0.0001	0.0087	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded CLL18 to Different Rates of Nitrogen Fertilizer – Richland Parish

Experiment number ..... : 23-RP-06

Site and design ..... :
- **Location/Cooperator** ..... : Richland Parish / Ashley Dickson
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 2.69
- **pH** ..... : 6.51
- **Extractable nutrients (**ppm) ..... : Ca-2450; Cu-2.75; Mg-590; P-17.5; K-164; Na-109; S-24; Zn-1.7

Crop/Variety ..... : Rice / CLL18
- **Planting method/date** ..... : Drill seeded / May 22
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : June 1
- **Harvest date** ..... : September 27
- **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 ..... : No blanket applications

Water management ..... : Underground irrigation
- **Flush** ..... : NA
- **Flood** ..... : June 23
- **Drain** ..... : *Well problem. The field dried on its own around late soft dough.
- **Ratoon flood** ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1.5 qt/A Glyphosate + 2 oz/A Sharpen + 12.5 oz/A Command + 1 pt/A Crop oil, May 22
  4 qt/A Stam + 1 qt/A Facet, June 6
  4 qt/A Stam + 2.4 qt/A Prowl, June 21
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 16. Agronomic response of drill-seeded CLL18 to nitrogen fertilizer rate. Richland Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					9/27/2023	9/27/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	81.3 d	71.3 d	31.5 c	4928 d
2	90	4-5 leaf	82.3 cd	72.3 cd	36.0 b	6568 c
3	120	4-5 leaf	82.5 bc	72.5 bc	38.3 a	8477 b
4	150	4-5 leaf	83.5 ab	73.5 ab	37.8 ab	8960 ab
5	180	4-5 leaf	83.8 a	73.8 a	38.5 a	9254 ab
6	210	4-5 leaf	84.5 a	74.5 a	38.5 a	9374 a
LSD P=.05			1.09	1.09	1.84	841.3
Standard Deviation			0.72	0.72	1.22	558.2
CV			0.87	0.99	3.32	7.04
Treatment F			10.668	10.668	20.149	41.242
Treatment Prob(F)			0.0002	0.0002	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded CLL19 to Different Rates of Nitrogen Fertilizer – Richland Parish

Experiment number ..... : 23-RP-07

Site and design ..... :
- **Location/Cooperator** ..... : Richland Parish / Ashley Dickson
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 2.69
- **pH** ..... : 6.51
- **Extractable nutrients (**ppm) ..... : Ca-2450; Cu-2.75; Mg-590; P-17.5; K-164; Na-109; S-24; Zn-1.7

Crop/Variety ..... : Rice / CLL19
- **Planting method/date** ..... : Drill seeded / May 22
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : June 1
- **Harvest date** ..... : September 27
- **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 ..... : No blanket applications

Water management ..... : Underground irrigation
- **Flush** ..... : NA
- **Flood** ..... : June 23
- **Drain** ..... : *Well problem. The field dried on its own around late soft dough.
- **Ratoon flood** ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1.5 qt/A Glyphosate + 2 oz/A Sharpen + 12.5 oz/A Command + 1 pt/A Crop oil, May 22
  4 qt/A Stam + 1 qt/A Facet, June 6
  4 qt/A Stam + 2.4 qt/A Prowl, June 21
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 17. Agronomic response of drill-seeded CLL19 to nitrogen fertilizer rate. Richland Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					9/27/2023	9/27/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	78.0 e	68 e	31.0 d	4491 d
2	90	4-5 leaf	79.5 d	69.5 d	31.5 cd	5863 c
3	120	4-5 leaf	81.3 c	71.3 c	32.3 bcd	6586 b
4	150	4-5 leaf	82.3 b	72.3 b	33.0 abc	7160 ab
5	180	4-5 leaf	84 .0 a	74.0 a	34.0 a	7256 a
6	210	4-5 leaf	84.3 a	74.3 a	33.5 ab	7308 a
LSD P=.05			0.65	0.65	1.65	588.1
Standard Deviation			0.43	0.43	1.09	390.2
CV			0.53	0.60	3.36	6.06
Treatment F			131.866	131.866	4.545	31.994
Treatment Prob(F)			0.0001	0.0001	0.0101	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded Avant to Different Rates of Nitrogen Fertilizer – Richland Parish

Experiment number ..... : 23-RP-09

Site and design ..... :
- **Location/Cooperator** ..... : Richland Parish / Ashley Dickson
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 2.69
- **pH** ..... : 6.51
- **Extractable nutrients (**ppm) ..... : Ca-2450; Cu-2.75; Mg-590; P-17.5; K-164; Na-109; S-24; Zn-1.7

Crop/Variety ..... : Rice / Avant
- **Planting method/date** ..... : Drill seeded / May 22
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : June 1
- **Harvest date** ..... : September 27
- **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 ..... : No blanket applications

Water management ..... : Underground irrigation
- **Flush** ..... : NA
- **Flood** ..... : June 23
- **Drain** ..... : *Well problem. The field dried on its own around late soft dough.
- **Ratoon flood** ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1.5 qt/A Glyphosate + 2 oz/A Sharpen + 12.5 oz/A Command + 1 pt/A Crop oil, May 22
  4 qt/A Stam + 1 qt/A Facet, June 6
  4 qt/A Stam + 2.4 qt/A Prowl, June 21
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 18. Agronomic response of drill-seeded Avant to nitrogen fertilizer rate. Richland Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					9/27/2023	9/27/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	77.0 d	67 d	29.8 b	3388 c
2	90	4-5 leaf	78.3 c	68.3 c	32.5 a	5613 b
3	120	4-5 leaf	81.8 b	71.8 b	32.0 a	6355 ab
4	150	4-5 leaf	83.3 a	73.3 a	32.8 a	6291 ab
5	180	4-5 leaf	83.5 a	73.5 a	33.3 a	6774 a
6	210	4-5 leaf	83.8 a	73.8 a	33.3 a	6942 a
LSD P=.05			0.83	0.83	1.38	793.0
Standard Deviation			0.55	0.55	0.91	526.2
CV			0.67	0.77	2.83	8.93
Treatment F			113.667	113.667	8.280	24.856
Treatment Prob(F)			0.0001	0.0001	0.0006	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded RU2102150 (CL) to Different Rates of Nitrogen Fertilizer – Richland Parish

Experiment number ..... : 23-RP-10

Site and design ..... :
- **Location/Cooperator** ..... : Richland Parish / Ashley Dickson
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 2.69
- **pH** ..... : 6.51
- **Extractable nutrients (**ppm) ..... : Ca-2450; Cu-2.75; Mg-590; P-17.5; K-164; Na-109; S-24; Zn-1.7

Crop/Variety ..... : Rice / RU2102150 (CL)
- **Planting method/date** ..... : Drill seeded / May 22
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : June 1
- **Harvest date** ..... : September 27
- **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 ..... : No blanket applications

Water management ..... : Underground irrigation
- **Flush** ..... : NA
- **Flood** ..... : June 23
- **Drain** ..... : *Well problem. The field dried on its own around late soft dough.
- **Ratoon flood** ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1.5 qt/A Glyphosate + 2 oz/A Sharpen + 12.5 oz/A Command + 1 pt/A Crop oil, May 22
  4 qt/A Stam + 1 qt/A Facet, June 6
  4 qt/A Stam + 2.4 qt/A Prowl, June 21
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 19. Agronomic response of drill-seeded RU2102150 (CL) to nitrogen fertilizer rate. Richland Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					9/27/2023	9/27/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	80.0 d	70.0 d	32.8 c	4977 d
2	90	4-5 leaf	80.8 c	70.8 c	35.0 ab	6950 c
3	120	4-5 leaf	81.0 bc	71.0 bc	34.3 bc	7457 c
4	150	4-5 leaf	81.3 b	71.3 b	35.3 ab	7553 bc
5	180	4-5 leaf	83.0 a	73.0 a	36.3 a	8182 ab
6	210	4-5 leaf	83.0 a	73.0 a	36.3 a	8266 a
LSD P=.05			0.42	0.42	1.66	671.8
Standard Deviation			0.28	0.28	1.10	445.7
CV			0.34	0.39	3.16	6.16
Treatment F			78.429	78.429	5.774	29.355
Treatment Prob(F)			0.0001	0.0001	0.0036	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded RU1902207 to Different Rates of Nitrogen Fertilizer – Richland Parish

Experiment number ..... : 23-RP-11

Site and design ..... :
- **Location/Cooperator** ..... : Richland Parish / Ashley Dickson
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 2.69
- **pH** ..... : 6.51
- **Extractable nutrients (**ppm) ..... : Ca-2450; Cu-2.75; Mg-590; P-17.5; K-164; Na-109; S-24; Zn-1.7

Crop/Variety ..... : Rice / RU1902207
- **Planting method/date** ..... : Drill seeded / May 22
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : June 1
- **Harvest date** ..... : September 27
- **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 ..... : No blanket applications

Water management ..... : Underground irrigation
- **Flush** ..... : NA
- **Flood** ..... : June 23
- **Drain** ..... : *Well problem. The field dried on its own around late soft dough.
- **Ratoon flood** ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1.5 qt/A Glyphosate + 2 oz/A Sharpen + 12.5 oz/A Command + 1 pt/A Crop oil, May 22
  4 qt/A Stam + 1 qt/A Facet, June 6
  4 qt/A Stam + 2.4 qt/A Prowl, June 21
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 20. Agronomic response of drill-seeded RU1902207 to nitrogen fertilizer rate. Richland Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					9/27/2023	9/27/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	92.0 d	82.0 d	34.3 b	2721 c
2	90	4-5 leaf	93.8 c	83.8 c	36.0 ab	4783 b
3	120	4-5 leaf	95.8 b	85.8 b	37.0 a	5910 a
4	150	4-5 leaf	95.8 b	85.8 b	37.3 a	6470 a
5	180	4-5 leaf	97.0 a	87.0 a	37.0 a	6697 a
6	210	4-5 leaf	97.0 a	87.0 a	37.3 a	6710 a
LSD P=.05			0.52	0.52	1.99	817.0
Standard Deviation			0.35	0.35	1.32	542.1
CV			0.36	0.41	3.62	9.77
Treatment F			130.116	130.116	3.182	33.285
Treatment Prob(F)			0.0001	0.0001	0.0372	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded DG3H2007 to Different Rates of Nitrogen Fertilizer – Richland Parish

Experiment number ..... : 23-RP-24

Site and design ..... :
- **Location/Cooperator** ..... : Richland Parish / Ashley Dickson
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 2.69
- **pH** ..... : 6.51
- **Extractable nutrients (**ppm) ..... : Ca-2450; Cu-2.75; Mg-590; P-17.5; K-164; Na-109; S-24; Zn-1.7

Crop/Variety ..... : Rice / DG3H2007
- **Planting method/date** ..... : Drill seeded / May 22
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : June 1
- **Harvest date** ..... : September 27
- **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 ..... : No blanket applications

Water management ..... : Underground irrigation
- **Flush** ..... : NA
- **Flood** ..... : June 23
- **Drain** ..... : *Well problem. The field dried on its own around late soft dough.
- **Ratoon flood** ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1.5 qt/A Glyphosate + 2 oz/A Sharpen + 12.5 oz/A Command + 1 pt/A Crop oil, May 22
  4 qt/A Stam + 1 qt/A Facet, June 6
  4 qt/A Stam + 2.4 qt/A Prowl, June 21
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 21. Agronomic response of drill-seeded DG3H2007 to nitrogen fertilizer rate. Richland Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					9/27/2023	9/27/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	80.0 c	70.0 c	36.5 b	8895 d
2	90	4-5 leaf	80.0 c	70.0 c	36.8 b	10758 c
3	120	4-5 leaf	81.0 bc	71.0 bc	38.5 ab	11047 bc
4	150	4-5 leaf	82.0 b	72.0 b	39.5 a	11401 ab
5	180	4-5 leaf	84.0 a	74.0 a	40.3 a	11587 a
6	210	4-5 leaf	84.3 a	74.3 a	39.5 a	11696 a
LSD P=.05			1.1	1.1	2.03	483.0
Standard Deviation			0.73	0.73	1.35	320.5
CV			0.89	1.01	3.50	2.94
Treatment F			27.094	27.094	5.356	42.196
Treatment Prob(F)			0.0001	0.0001	0.0051	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded DGM004 to Different Rates of Nitrogen Fertilizer – St. Landry Parish

Experiment number ..... : 23-SLP-01

Site and design ..... :
- **Location/Cooperator** ..... : St. Landry Parish / Charlie Fontenot
- **Tillage type** ..... : Conventional
- **Experimental design** ..... : Randomized complete block
- **Number of reps** ..... : 4
- **Plot size** ..... : 4.67 x 16 ft
- **Row width/rows per plot** ..... : 8 in / 7

Soil type ..... : Dundee silty clay loam
- **% Organic matter** ..... : 2.48
- **pH** ..... : 7.21
- **Extractable nutrients (**ppm) ..... : Ca-3965; Cu-2.1; Mg-646; P-116; K-248; Na-33; S-5.7; Zn-2.2

Crop/Variety ..... : Rice / DGM004
- **Planting method/date** ..... : Drill seeded / March 30
- **Seeding rate/depth** ..... : 33 seeds /ft^2 / 1 inch
- **Emergence date** ..... : April 17
- **Harvest date** ..... : August 14

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** ..... : NA
- **Flood** ..... : May 17
- **Drain** ..... : July 28

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Roundup + 1 pt/A 2,4-D, Burndown
  1 qt/A Roundup + 10 oz/A Command + 3 oz/A Sharpen, Planting
  24 oz/A Facet + 0.6 oz/A Regiment + 0.33 oz/A Permit, Preflood
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 22. Agronomic response of drill-seeded DGM004 to nitrogen fertilizer rate. St. Landry Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					8/11/2023	8/14/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	99.0 b	81.0 b	31.3 b	4903 c
2	90	4-5 leaf	97.0 d	79.0 d	34.5 a	7293 b
3	120	4-5 leaf	99.0 b	81.0 b	34.5 a	7469 b
4	150	4-5 leaf	98.0 c	80.0 c	35.0 a	7548 b
5	180	4-5 leaf	98.3 c	80.3 c	35.3 a	8497 a
6	210	4-5 leaf	100.5 a	82.5 a	36.8 a	8630 a
LSD P=.05			0.44	0.44	2.66	599.5
Standard Deviation			0.29	0.29	1.77	395.3
CV			0.30	0.36	5.11	5.35
Treatment F			64.742	64.742	4.213	46.012
Treatment Prob(F)			0.0001	0.0001	0.0136	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded DGL2065 to Different Rates of Nitrogen Fertilizer – St. Landry Parish

Experiment number ..... : 23-SLP-03

Site and design ..... :
- **Location/Cooperator** ..... : St. Landry Parish / Charlie Fontenot
- **Tillage type** ..... : Conventional
- **Experimental design** ..... : Randomized complete block
- **Number of reps** ..... : 4
- **Plot size** ..... : 4.67 x 16 ft
- **Row width/rows per plot** ..... : 8 in / 7

Soil type ..... : Dundee silty clay loam
- **% Organic matter** ..... : 2.48
- **pH** ..... : 7.21
- **Extractable nutrients (**ppm) ..... : Ca-3965; Cu-2.1; Mg-646; P-116; K-248; Na-33; S-5.7; Zn-2.2

Crop/Variety ..... : Rice / DGL2065
- **Planting method/date** ..... : Drill seeded / March 30
- **Seeding rate/depth** ..... : 33 seeds /ft^2 / 1 inch
- **Emergence date** ..... : April 17
- **Harvest date** ..... : August 14

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** ..... : NA
- **Flood** ..... : May 17
- **Drain** ..... : July 28

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Roundup + 1 pt/A 2,4-D, Burndown
  1 qt/A Roundup + 10 oz/A Command + 3 oz/A Sharpen, Planting
  24 oz/A Facet + 0.6 oz/A Regiment + 0.33 oz/A Permit, Preflood
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 23. Agronomic response of drill-seeded DGL2065 to nitrogen fertilizer rate. St. Landry Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					8/11/2023	8/14/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	96.0 c	78.0 c	35.3 c	3328 f
2	90	4-5 leaf	96.0 c	78.0 c	36.5 bc	6066 e
3	120	4-5 leaf	97.3 b	79.3 b	38.8 ab	6880 d
4	150	4-5 leaf	97.0 b	79.0 b	39.3 ab	7376 c
5	180	4-5 leaf	99.0 a	81.0 a	39.8 a	8296 b
6	210	4-5 leaf	99.3 a	81.3 a	41.0 a	8804 a
LSD P=.05			0.45	0.45	3.16	452.2
Standard Deviation			0.30	0.30	2.09	298.2
CV			0.31	0.38	5.45	4.39
Treatment F			90.750	90.750	4.185	172.590
Treatment Prob(F)			0.0001	0.0001	0.0140	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded PVL03 to Different Rates of Nitrogen Fertilizer – St. Landry Parish

Experiment number ..... : 23-SLP-04

Site and design ..... :
- **Location/Cooperator** ..... : St. Landry Parish / Charlie Fontenot
- **Tillage type** ..... : Conventional
- **Experimental design** ..... : Randomized complete block
- **Number of reps** ..... : 4
- **Plot size** ..... : 4.67 x 16 ft
- **Row width/rows per plot** ..... : 8 in / 7

Soil type ..... : Dundee silty clay loam
- **% Organic matter** ..... : 2.48
- **pH** ..... : 7.21
- **Extractable nutrients (**ppm) ..... : Ca-3965; Cu-2.1; Mg-646; P-116; K-248; Na-33; S-5.7; Zn-2.2

Crop/Variety ..... : Rice / PVL03
- **Planting method/date** ..... : Drill seeded / March 30
- **Seeding rate/depth** ..... : 33 seeds /ft^2 / 1 inch
- **Emergence date** ..... : April 17
- **Harvest date** ..... : August 14

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** ..... : NA
- **Flood** ..... : May 17
- **Drain** ..... : July 28

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Roundup + 1 pt/A 2,4-D, Burndown
  1 qt/A Roundup + 10 oz/A Command + 3 oz/A Sharpen, Planting
  24 oz/A Facet + 0.6 oz/A Regiment + 0.33 oz/A Permit, Preflood
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 24. Agronomic response of drill-seeded PVL03 to nitrogen fertilizer rate. St. Landry Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					8/11/2023	8/14/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	94.5 c	76.5 c	35.0 d	3857 d
2	90	4-5 leaf	95.3 c	77.3 c	38.5 c	6796 c
3	120	4-5 leaf	96.3 b	78.3 b	39.0 bc	7590 b
4	150	4-5 leaf	98.5 a	80.5 a	41.3 ab	7694 b
5	180	4-5 leaf	99.3 a	81.3 a	41.5 a	8810 a
6	210	4-5 leaf	99.3 a	81.3 a	43.5 a	9172 a
LSD P=.05			0.78	0.78	2.44	717.4
Standard Deviation			0.52	0.52	1.62	473.0
CV			0.53	0.65	4.07	6.46
Treatment F			66.250	66.250	13.454	64.831
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded CLL16 to Different Rates of Nitrogen Fertilizer – St. Landry Parish

Experiment number ..... : 23-SLP-05

Site and design ..... :
- **Location/Cooperator** ..... : St. Landry Parish / Charlie Fontenot
- **Tillage type** ..... : Conventional
- **Experimental design** ..... : Randomized complete block
- **Number of reps** ..... : 4
- **Plot size** ..... : 4.67 x 16 ft
- **Row width/rows per plot** ..... : 8 in / 7

Soil type ..... : Dundee silty clay loam
- **% Organic matter** ..... : 2.48
- **pH** ..... : 7.21
- **Extractable nutrients (**ppm) ..... : Ca-3965; Cu-2.1; Mg-646; P-116; K-248; Na-33; S-5.7; Zn-2.2

Crop/Variety ..... : Rice / CLL16
- **Planting method/date** ..... : Drill seeded / March 30
- **Seeding rate/depth** ..... : 33 seeds /ft^2 / 1 inch
- **Emergence date** ..... : April 17
- **Harvest date** ..... : August 14

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** ..... : NA
- **Flood** ..... : May 17
- **Drain** ..... : July 28

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Roundup + 1 pt/A 2,4-D, Burndown
  1 qt/A Roundup + 10 oz/A Command + 3 oz/A Sharpen, Planting
  24 oz/A Facet + 0.6 oz/A Regiment + 0.33 oz/A Permit, Preflood
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 25. Agronomic response of drill-seeded CLL16 to nitrogen fertilizer rate. St. Landry Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Lodge	Lodge	Hog damaged	Yield
Rating Date					8/11/2023	8/14/2023	8/14/2023	8/14/2023	8/14/2023
Rating Unit			days	days	in	% plot	rate	(0-5)	lb/A
Crop Stage Majority			Main	Main	Main	Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage							
1	0	4-5 leaf	98.3 e	80.3 e	34.3.0 c	0.0 b	0.0 c	0.0 a	5739 c
2	90	4-5 leaf	99.5 d	81.5 d	40.8 b	0.0 b	0.0 c	5.0 a	8116 b
3	120	4-5 leaf	101.3 bc	83.3 bc	42.8.0 ab	0.0 b	0.0 c	0.0 a	9288 a
4	150	4-5 leaf	100.8 c	82.8 c	42.8 ab	0.0 b	0.0 c	2.5 a	10142 a
5	180	4-5 leaf	101.8 b	83.8 b	44.8 a	27.5 a	1.0 b	5.0 a	9816 a
6	210	4-5 leaf	103.8 a	85.8 a	46 a	47.5 a	2.5 a	5.0 a	9628 a
LSD P=.05			0.81	0.81	3.36	21.31	0.79	8.06	1001.2
Standard Deviation			0.53	0.53	2.23	14.14	0.53	5.35	660.1
CV			0.53	0.65	5.33	113.14	90.35	183.39	7.51
Treatment F			50.243	50.243	13.864	8.300	15.000	0.845	24.959
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0006	0.0001	0.5390	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded CLL18 to Different Rates of Nitrogen Fertilizer – St. Landry Parish

Experiment number ..... : 23-SLP-06

Site and design ..... :
- **Location/Cooperator** ..... : St. Landry Parish / Charlie Fontenot
- **Tillage type** ..... : Conventional
- **Experimental design** ..... : Randomized complete block
- **Number of reps** ..... : 4
- **Plot size** ..... : 4.67 x 16 ft
- **Row width/rows per plot** ..... : 8 in / 7

Soil type ..... : Dundee silty clay loam
- **% Organic matter** ..... : 2.48
- **pH** ..... : 7.21
- **Extractable nutrients (**ppm) ..... : Ca-3965; Cu-2.1; Mg-646; P-116; K-248; Na-33; S-5.7; Zn-2.2

Crop/Variety ..... : Rice / CLL18
- **Planting method/date** ..... : Drill seeded / March 30
- **Seeding rate/depth** ..... : 33 seeds /ft^2 / 1 inch
- **Emergence date** ..... : April 17
- **Harvest date** ..... : August 14

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** ..... : NA
- **Flood** ..... : May 17
- **Drain** ..... : July 28

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Roundup + 1 pt/A 2,4-D, Burndown
  1 qt/A Roundup + 10 oz/A Command + 3 oz/A Sharpen, Planting
  24 oz/A Facet + 0.6 oz/A Regiment + 0.33 oz/A Permit, Preflood
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 26. Agronomic response of drill-seeded CLL18 to nitrogen fertilizer rate. St. Landry Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Lodge	Lodge	Yield
Rating Date					8/11/2023	8/14/2023	8/14/2023	8/14/2023
Rating Unit			days	days	in	% plot	rate	lb/A
Crop Stage Majority			Main	Main	Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage						
1	0	4-5 leaf	95.3 d	77.3 d	38.0 a	0.0 b	0.0 c	5739 c
2	90	4-5 leaf	96.5 c	78.5 c	40.0 a	0.0 b	0.0 c	8116 b
3	120	4-5 leaf	99.3 b	81.3 b	41.5 a	0.0 b	0.0 c	9288 a
4	150	4-5 leaf	99.5 b	81.5 b	39.0 a	0.0 b	0.0 c	10142 a
5	180	4-5 leaf	100.8 a	82.8 a	39.8 a	32.5 a	1.0 b	9816 a
6	210	4-5 leaf	100.8 a	82.8 a	43.0 a	57.5 a	2.3 a	9628 a
LSD P=.05			0.78	0.78	6.28	26.73	0.74	1001.2
Standard Deviation			0.52	0.52	4.17	17.73	0.49	660.1
CV			0.52	0.64	10.37	118.22	90.76	7.51
Treatment F			78.250	78.250	0.739	7.664	14.241	24.959
Treatment Prob(F)			0.0001	0.0001	0.6059	0.0009	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded CLL19 to Different Rates of Nitrogen Fertilizer – St. Landry Parish

Experiment number ..... : 23-SLP-07

Site and design ..... :
- **Location/Cooperator** ..... : St. Landry Parish / Charlie Fontenot
- **Tillage type** ..... : Conventional
- **Experimental design** ..... : Randomized complete block
- **Number of reps** ..... : 4
- **Plot size** ..... : 4.67 x 16 ft
- **Row width/rows per plot** ..... : 8 in / 7

Soil type ..... : Dundee silty clay loam
- **% Organic matter** ..... : 2.48
- **pH** ..... : 7.21
- **Extractable nutrients (**ppm) ..... : Ca-3965; Cu-2.1; Mg-646; P-116; K-248; Na-33; S-5.7; Zn-2.2

Crop/Variety ..... : Rice / CLL19
- **Planting method/date** ..... : Drill seeded / March 30
- **Seeding rate/depth** ..... : 33 seeds /ft^2 / 1 inch
- **Emergence date** ..... : April 17
- **Harvest date** ..... : August 14

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** ..... : NA
- **Flood** ..... : May 17
- **Drain** ..... : July 28

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Roundup + 1 pt/A 2,4-D, Burndown
  1 qt/A Roundup + 10 oz/A Command + 3 oz/A Sharpen, Planting
  24 oz/A Facet + 0.6 oz/A Regiment + 0.33 oz/A Permit, Preflood
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 27. Agronomic response of drill-seeded CLL19 to nitrogen fertilizer rate. St. Landry Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					8/11/2023	8/14/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	95.3 c	77.3 c	30.8 d	4794 d
2	90	4-5 leaf	96.3 c	78.3 c	33.5 c	7236 c
3	120	4-5 leaf	96.3 c	78.3 c	35.0 bc	8292 bc
4	150	4-5 leaf	97.8 b	79.8 b	37.5 a	8380 abc
5	180	4-5 leaf	98.5 ab	80.5 ab	36.0 ab	8833 ab
6	210	4-5 leaf	99.0 a	81.0 a	36.5 ab	9524 a
LSD P=.05			1.00	1.00	2.26	1204.6
Standard Deviation			0.67	0.67	1.50	781.9
CV			0.69	0.84	4.29	9.97
Treatment F			19.500	19.500	10.606	18.269
Treatment Prob(F)			0.0001	0.0001	0.0002	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded Addi Jo to Different Rates of Nitrogen Fertilizer – St. Landry Parish

Experiment number ..... : 23-SLP-08

Site and design ..... :
- **Location/Cooperator** ..... : St. Landry Parish / Charlie Fontenot
- **Tillage type** ..... : Conventional
- **Experimental design** ..... : Randomized complete block
- **Number of reps** ..... : 4
- **Plot size** ..... : 4.67 x 16 ft
- **Row width/rows per plot** ..... : 8 in / 7

Soil type ..... : Dundee silty clay loam
- **% Organic matter** ..... : 2.48
- **pH** ..... : 7.21
- **Extractable nutrients (**ppm) ..... : Ca-3965; Cu-2.1; Mg-646; P-116; K-248; Na-33; S-5.7; Zn-2.2

Crop/Variety ..... : Rice / Addi Jo
- **Planting method/date** ..... : Drill seeded / March 30
- **Seeding rate/depth** ..... : 33 seeds /ft^2 / 1 inch
- **Emergence date** ..... : April 17
- **Harvest date** ..... : August 14

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** ..... : NA
- **Flood** ..... : May 17
- **Drain** ..... : July 28

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Roundup + 1 pt/A 2,4-D, Burndown
  1 qt/A Roundup + 10 oz/A Command + 3 oz/A Sharpen, Planting
  24 oz/A Facet + 0.6 oz/A Regiment + 0.33 oz/A Permit, Preflood
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 28. Agronomic response of drill-seeded Addi Jo to nitrogen fertilizer rate. St. Landry Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					8/11/2023	8/14/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	101.0 a	83.0 a	35.8 a	4967 c
2	90	4-5 leaf	99.3 c	81.3 c	37.5 a	7389 b
3	120	4-5 leaf	100 b	82.0 b	36.8 a	8925 ab
4	150	4-5 leaf	99.3 c	81.3 c	37.5 a	9204 a
5	180	4-5 leaf	101.5 a	83.5 a	40.0 a	10096 a
6	210	4-5 leaf	101.5 a	83.5 a	34.3 a	9468 a
LSD P=.05			0.71	0.71	3.47	1801.6
Standard Deviation			0.47	0.47	2.30	1143.5
CV			0.47	0.57	6.23	13.71
Treatment F			20.100	20.100	2.821	10.844
Treatment Prob(F)			0.0001	0.0001	0.0545	0.0009

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded Avant to Different Rates of Nitrogen Fertilizer – St. Landry Parish

Experiment number ..... : 23-SLP-09

Site and design ..... :
- **Location/Cooperator** ..... : St. Landry Parish / Charlie Fontenot
- **Tillage type** ..... : Conventional
- **Experimental design** ..... : Randomized complete block
- **Number of reps** ..... : 4
- **Plot size** ..... : 4.67 x 16 ft
- **Row width/rows per plot** ..... : 8 in / 7

Soil type ..... : Dundee silty clay loam
- **% Organic matter** ..... : 2.48
- **pH** ..... : 7.21
- **Extractable nutrients (**ppm) ..... : Ca-3965; Cu-2.1; Mg-646; P-116; K-248; Na-33; S-5.7; Zn-2.2

Crop/Variety ..... : Rice / Avant
- **Planting method/date** ..... : Drill seeded / March 30
- **Seeding rate/depth** ..... : 33 seeds /ft^2 / 1 inch
- **Emergence date** ..... : April 17
- **Harvest date** ..... : August 14

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** ..... : NA
- **Flood** ..... : May 17
- **Drain** ..... : July 28

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Roundup + 1 pt/A 2,4-D, Burndown
  1 qt/A Roundup + 10 oz/A Command + 3 oz/A Sharpen, Planting
  24 oz/A Facet + 0.6 oz/A Regiment + 0.33 oz/A Permit, Preflood
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 29. Agronomic response of drill-seeded Avant to nitrogen fertilizer rate. St. Landry Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					8/11/2023	8/14/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	89.3 d	71.3 d	27.8 c	3552 c
2	90	4-5 leaf	91.3 c	73.3 c	31.3 b	7074 b
3	120	4-5 leaf	92.3 c	74.3 c	34.5 a	7237 b
4	150	4-5 leaf	94.5 b	76.5 b	34.5 a	8632 a
5	180	4-5 leaf	96.5 a	78.5 a	35.3 a	9317 a
6	210	4-5 leaf	96.5 a	78.5 a	35.5 a	9771 a
LSD P=.05			1.04	1.04	2.04	1317.1
Standard Deviation			0.69	0.69	1.35	723.9
CV			0.74	0.91	4.08	9.53
Treatment F			73.421	73.421	20.253	29.221
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded RU2102150 (CL) to Different Rates of Nitrogen Fertilizer – St. Landry Parish

Experiment number ..... : 23-SLP-09

Site and design ..... :
- **Location/Cooperator** ..... : St. Landry Parish / Charlie Fontenot
- **Tillage type** ..... : Conventional
- **Experimental design** ..... : Randomized complete block
- **Number of reps** ..... : 4
- **Plot size** ..... : 4.67 x 16 ft
- **Row width/rows per plot** ..... : 8 in / 7

Soil type ..... : Dundee silty clay loam
- **% Organic matter** ..... : 2.48
- **pH** ..... : 7.21
- **Extractable nutrients (**ppm) ..... : Ca-3965; Cu-2.1; Mg-646; P-116; K-248; Na-33; S-5.7; Zn-2.2

Crop/Variety ..... : Rice / RU2102150 (CL)
- **Planting method/date** ..... : Drill seeded / March 30
- **Seeding rate/depth** ..... : 33 seeds /ft^2 / 1 inch
- **Emergence date** ..... : April 17
- **Harvest date** ..... : August 14

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** ..... : NA
- **Flood** ..... : May 17
- **Drain** ..... : July 28

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Roundup + 1 pt/A 2,4-D, Burndown
  1 qt/A Roundup + 10 oz/A Command + 3 oz/A Sharpen, Planting
  24 oz/A Facet + 0.6 oz/A Regiment + 0.33 oz/A Permit, Preflood
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 30. Agronomic response of drill-seeded RU2102150 (CL) to nitrogen fertilizer rate. St. Landry Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					8/11/2023	8/14/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	95.3 b	77.3 b	33.8 c	7036 d
2	90	4-5 leaf	96.0 b	78.0 b	37.3 b	9047 bc
3	120	4-5 leaf	95.8 b	77.8 b	38.3 ab	9021 c
4	150	4-5 leaf	97.8 a	79.8 a	39.5 a	10192 ab
5	180	4-5 leaf	98.3 a	80.3 a	39.8 a	10677 a
6	210	4-5 leaf	98.5 a	80.5 a	40.0 a	10861 a
LSD P=.05			1.36	1.36	2.18	1166.2
Standard Deviation			0.90	0.90	1.45	641.0
CV			0.93	1.14	3.81	6.77
Treatment F			9.822	9.822	10.651	14.916
Treatment Prob(F)			0.0003	0.0003	0.0002	0.0002

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded RU1902207 to Different Rates of Nitrogen Fertilizer – St. Landry Parish

Experiment number ..... : 23-SLP-11

Site and design ..... :
- **Location/Cooperator** ..... : St. Landry Parish / Charlie Fontenot
- **Tillage type** ..... : Conventional
- **Experimental design** ..... : Randomized complete block
- **Number of reps** ..... : 4
- **Plot size** ..... : 4.67 x 16 ft
- **Row width/rows per plot** ..... : 8 in / 7

Soil type ..... : Dundee silty clay loam
- **% Organic matter** ..... : 2.48
- **pH** ..... : 7.21
- **Extractable nutrients (**ppm) ..... : Ca-3965; Cu-2.1; Mg-646; P-116; K-248; Na-33; S-5.7; Zn-2.2

Crop/Variety ..... : Rice / RU1902207
- **Planting method/date** ..... : Drill seeded / March 30
- **Seeding rate/depth** ..... : 33 seeds /ft^2 / 1 inch
- **Emergence date** ..... : April 17
- **Harvest date** ..... : August 14

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** ..... : NA
- **Flood** ..... : May 17
- **Drain** ..... : July 28

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Roundup + 1 pt/A 2,4-D, Burndown
  1 qt/A Roundup + 10 oz/A Command + 3 oz/A Sharpen, Planting
  24 oz/A Facet + 0.6 oz/A Regiment + 0.33 oz/A Permit, Preflood
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 31. Agronomic response of drill-seeded RU1902207 to nitrogen fertilizer rate. St. Landry Parish.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					8/11/2023	8/14/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	95.3 e	77.3 e	33.3 c	4521 e
2	90	4-5 leaf	96.8 d	78.8 d	37.0 bc	6786 d
3	120	4-5 leaf	98.0 c	80.0 c	37.8 b	7016 cd
4	150	4-5 leaf	99.3 b	81.3 b	40.0 ab	7497 bc
5	180	4-5 leaf	99.8 b	81.8 b	40.8 ab	7901 ab
6	210	4-5 leaf	100.8 a	82.8 a	42.3 a	8246 a
LSD P=.05			0.63	0.63	3.76	620.2
Standard Deviation			0.42	0.42	2.49	387.7
CV			0.43	0.52	6.48	5.54
Treatment F			95.095	95.095	6.654	46.852
Treatment Prob(F)			0.0001	0.0001	0.0019	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Agronomic Response of Drill-Seeded DG3H2007 to Different Rates of Nitrogen Fertilizer – St. Landry Parish

Experiment number ..... : 23-SLP-11

Site and design ..... :
- **Location/Cooperator** ..... : St. Landry Parish / Charlie Fontenot
- **Tillage type** ..... : Conventional
- **Experimental design** ..... : Randomized complete block
- **Number of reps** ..... : 4
- **Plot size** ..... : 4.67 x 16 ft
- **Row width/rows per plot** ..... : 8 in / 7

Soil type ..... : Dundee silty clay loam
- **% Organic matter** ..... : 2.48
- **pH** ..... : 7.21
- **Extractable nutrients (**ppm) ..... : Ca-3965; Cu-2.1; Mg-646; P-116; K-248; Na-33; S-5.7; Zn-2.2

Crop/Variety ..... : Rice / DG3H2007
- **Planting method/date** ..... : Drill seeded / March 30
- **Seeding rate/depth** ..... : 33 seeds /ft^2 / 1 inch
- **Emergence date** ..... : April 17
- **Harvest date** ..... : August 14

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** ..... : NA
- **Flood** ..... : May 17
- **Drain** ..... : July 28

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Roundup + 1 pt/A 2,4-D, Burndown
  1 qt/A Roundup + 10 oz/A Command + 3 oz/A Sharpen, Planting
  24 oz/A Facet + 0.6 oz/A Regiment + 0.33 oz/A Permit, Preflood
- **Insecticides** ..... : None
- **Fungicides** ..... : None

Table 32. Agronomic response of drill-seeded DG3H2007 to nitrogen fertilizer rate. St. Landry Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Lodge	Lodge	Yield
Rating Date					8/11/2023	8/14/2023	8/14/2023	8/14/2023
Rating Unit			days	days	in	% plot	rate	lb/A
Crop Stage Majority			Main	Main	Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage						
1	0	4-5 leaf	99.0 cd	81.0 cd	37.8 c	0.0 b	0.0 b	8272 d
2	90	4-5 leaf	99.8 bc	81.8 bc	39.8 c	25.0 ab	1.3 ab	11367 c
3	120	4-5 leaf	99.0 cd	81.0 cd	43.0 b	0.0 b	0.0 b	11897 bc
4	150	4-5 leaf	100.5 ab	82.5 ab	44.5 ab	50.0 ab	1.8 a	12918 a
5	180	4-5 leaf	98.0 d	80.0 d	44.8 ab	60.0 a	2.3 a	13358 a
6	210	4-5 leaf	101.3 a	83.3 a	45.3 a	67.5 a	2.3 a	12562 ab
LSD P=.05			1.17	1.17	2.24	51.6	1.52	980.5
Standard Deviation			0.77	0.77	1.48	34.3	1.01	630.0
CV			0.78	0.95	3.49	101.48	80.44	5.37
Treatment F			9.111	9.111	17.091	3.033	4.253	34.015
Treatment Prob(F)			0.0004	0.0004	0.0001	0.0435	0.0131	0.0001

Means followed by the same letter or symbol do not significantly differ (P =.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for Varieties in a Stale Seedbed Tillage System

Experiment number ..... : 23-CM-31 and 23-CM-32

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / PVL03, DGL2065
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : See Treatment Name / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
150 lb N/A 46-0-0, May 3
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 33. Evaluation of seeding rate and plant population in a stale seedbed for PVL03. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant - HD	Emer - HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name					
1	15 seed/ft2 (34.9 lb/A)	8.1 b	76.0 a	56.0 a	38.3 a	8793 a
2	25 seed/ft2 (58.2 lb/A)	14.1 a	76.0 a	56.0 a	38.5 a	8965 a
3	35 seed/ft2 (81.5 lb/A)	17.0 a	76.0 a	56.0 a	37.3 a	9326 a
LSD P=.05		5.18	NA	NA	1.61	512.9
Standard Deviation		3.00	0.00	0.00	0.93	296.4
CV		22.96	0.00	0.00	2.44	3.28
Treatment F		9.241	0.000	0.000	2.032	3.375
Treatment Prob(F)		0.0147	1.0000	1.0000	0.2119	0.1042

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Table 34. Evaluation of seeding rate and plant population in a stale seedbed for DGL2605. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant - HD	Emer - HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name					
1	15 seed/ft2 (34.9 lb/A)	6.0 c	75.0 a	55.0 a	36.5 a	7372 b
2	25 seed/ft2 (58.2 lb/A)	9.6 b	75.0 a	55.0 a	37.0 a	7647 b
3	35 seed/ft2 (81.5 lb/A)	15.3 a	75.0 a	55.0 a	37.5 a	8580 a
LSD P=.05		1.65	NA	NA	1.41	797.8
Standard Deviation		0.95	0.00	0.00	0.82	461.1
CV		9.27	0.00	0.00	2.21	5.86
Treatment F		96.843	0.000	0.000	1.500	7.539
Treatment Prob(F)		0.0001	1.0000	1.0000	0.2963	0.0231

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for Varieties in a Stale Seedbed Tillage System

Experiment number ..... : 23-CM-33 and 23-CM-34

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / DGM004, CLL16
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : See Treatment Name / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
150 lb N/A 46-0-0, May 3
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 35. Evaluation of seeding rate and plant population in a stale seedbed for DGM004. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant - HD	Emer - HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name					
1	15 seed/ft2 (34.9 lb/A)	9.8 c	78.0 a	58.0 a	32.5 a	4913 b
2	25 seed/ft2 (58.2 lb/A)	15.6 b	78.0 a	58.0 a	33.8 a	5371 a
3	35 seed/ft2 (81.5 lb/A)	22.1 a	78.0 a	58.0 a	33.3 a	5572 a
LSD P=.05		3.29	NA	NA	1.19	426.5
Standard Deviation		1.90	0.00	0.00	0.69	246.5
CV		11.99	0.00	0.00	2.07	4.66
Treatment F		42.263	0.000	0.000	3.353	7.514
Treatment Prob(F)		0.0003	1.0000	1.0000	0.1053	0.0232

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Table 36. Evaluation of seeding rate and plant population in a stale seedbed for CLL16. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant - HD	Emer - HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name					
1	15 seed/ft2 (34.9 lb/A)	7.7 b	81.0 a	61.0 a	43.5 a	7555 b
2	25 seed/ft2 (58.2 lb/A)	11.9 ab	81.0 a	61.0 a	42.5 a	7853 ab
3	35 seed/ft2 (81.5 lb/A)	15.6 a	81.0 a	61.0 a	42.8 a	8174 a
LSD P=.05		4.57	NA	NA	2.22	411.9
Standard Deviation		2.64	0.00	0.00	1.28	238.1
CV		22.49	0.00	0.00	2.98	3.03
Treatment F		8.829	0.000	0.000	0.661	6.763
Treatment Prob(F)		0.0163	1.0000	1.0000	0.5502	0.0290

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for Varieties in a Stale Seedbed Tillage System

Experiment number ..... : 23-CM-35 and 23-CM-36

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / CLL18, CLL19
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : See Treatment Name / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
150 lb N/A 46-0-0, May 3
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 37. Evaluation of seeding rate and plant population in a stale seedbed for CLL18. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant - HD	Emer - HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name					
1	15 seed/ft2 (34.9 lb/A)	10.8 c	76.0 a	56.0 a	41.3 a	9732 b
2	25 seed/ft2 (58.2 lb/A)	16.2 b	76.0 a	56.0 a	40.3 a	9920 ab
3	35 seed/ft2 (81.5 lb/A)	21.8 a	76.0 a	56.0 a	40.8 a	10324 a
LSD P=.05		4.50	NA	NA	2.77	408.4
Standard Deviation		2.60	0.00	0.00	1.60	236.1
CV		15.98	0.00	0.00	3.92	2.36
Treatment F		18.124	0.000	0.000	0.391	6.564
Treatment Prob(F)		0.0029	1.0000	1.0000	0.6923	0.0309

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Table 38. Evaluation of seeding rate and plant population in a stale seedbed for CLL19. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant - HD	Emer - HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name	2	4	5	6	12
1	15 seed/ft2 (34.9 lb/A)	7.9 b	72.0 a	52.0 a	37.3 a	10908 a
2	25 seed/ft2 (58.2 lb/A)	12.8 ab	72.0 a	52.0 a	36.5 a	11135 a
3	35 seed/ft2 (81.5 lb/A)	15.3 a	72.0 a	52.0 a	36.3 a	11310 a
LSD P=.05		5.27	NA	NA	1.50	421.0
Standard Deviation		3.05	0.00	0.00	0.87	243.3
CV		25.42	0.00	0.00	2.36	2.19
Treatment F		6.023	0.000	0.000	1.444	2.751
Treatment Prob(F)		0.0367	1.0000	1.0000	0.3075	0.1420

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for Varieties in a Stale Seedbed Tillage System

Experiment number ..... : 23-CM-37 and 23-CM-38

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / Addi Jo, Avant
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : See Treatment Name / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
150 lb N/A 46-0-0, May 3
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 39. Evaluation of seeding rate and plant population in a stale seedbed for Addi Jo. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant - HD	Emer - HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name					
1	15 seed/ft2 (34.9 lb/A)	9.1 c	79.0 a	59.0 a	37.3 a	6187 a
2	25 seed/ft2 (58.2 lb/A)	13.4 b	79.0 a	59.0 a	35.8 a	6164 a
3	35 seed/ft2 (81.5 lb/A)	17.1 a	79.0 a	59.0 a	36.3 a	6257 a
LSD P=.05		1.67	NA	NA	2.38	713.2
Standard Deviation		0.96	0.00	0.00	1.37	412.2
CV		7.30	0.00	0.00	3.77	6.65
Treatment F		70.089	0.000	0.000	1.235	0.056
Treatment Prob(F)		0.0001	1.0000	1.0000	0.3554	0.9460

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Table 40. Evaluation of seeding rate and plant population in a stale seedbed for Avant. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant - HD	Emer - HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name					
1	15 seed/ft2 (34.9 lb/A)	7.5 a	70.0 a	50.0 a	34.3 a	8026 a
2	25 seed/ft2 (58.2 lb/A)	11.4 a	70.0 a	50.0 a	33.8 a	8386 a
3	35 seed/ft2 (81.5 lb/A)	14.6 a	70.0 a	50.0 a	35.0 a	8588 a
LSD P=.05		5.67	NA	NA	1.55	670.7
Standard Deviation		3.28	0.00	0.00	0.90	387.7
CV		29.29	0.00	0.00	2.61	4.65
Treatment F		4.744	0.000	0.000	1.966	2.157
Treatment Prob(F)		0.0581	1.0000	1.0000	0.2205	0.1969

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for Varieties in a Stale Seedbed Tillage System

Experiment number ..... : 23-CM-39 and 23-CM-40

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / RU2102150, RU1902207
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : See Treatment Name / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
150 lb N/A 46-0-0, May 3
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 41. Evaluation of seeding rate and plant population in a stale seedbed for RU2102150. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant - HD	Emer - HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name					
1	15 seed/ft2 (34.9 lb/A)	8.0 b	76.0 a	56.0 a	36.3 a	9448 b
2	25 seed/ft2 (58.2 lb/A)	14.5 a	76.0 a	56.0 a	37.5 a	9927 a
3	35 seed/ft2 (81.5 lb/A)	17.5 a	76.0 a	56.0 a	36.8 a	10049 a
LSD P=.05		3.48	NA	NA	1.85	467.3
Standard Deviation		2.01	0.00	0.00	1.07	270.1
CV		15.08	0.00	0.00	2.90	2.75
Treatment F		23.685	0.000	0.000	1.390	5.532
Treatment Prob(F)		0.0014	1.0000	1.0000	0.3191	0.0435

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Table 42. Evaluation of seeding rate and plant population in a stale seedbed for RU1902207. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant - HD	Emer - HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name					
1	15 seed/ft2 (34.9 lb/A)	7.5 c	74.0 a	54.0 a	38.3 a	7390 a
2	25 seed/ft2 (58.2 lb/A)	12.2 b	74.0 a	54.0 a	37.5 a	7641 a
3	35 seed/ft2 (81.5 lb/A)	15.9 a	74.0 a	54.0 a	37.5 a	7633 a
LSD P=.05		2.59	NA	NA	1.26	832.2
Standard Deviation		1.49	0.00	0.00	0.73	481.0
CV		12.63	0.00	0.00	1.92	6.37
Treatment F		31.993	0.000	0.000	1.421	0.353
Treatment Prob(F)		0.0006	1.0000	1.0000	0.3125	0.7165

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for Varieties in a Stale Seedbed Tillage System

Experiment number ..... : 23-CM-41 and 23-CM-42

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / RU2102186, RU2002166
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : See Treatment Name / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
150 lb N/A 46-0-0, May 3
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 43. Evaluation of seeding rate and plant population in a stale seedbed for RU2102186. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant - HD	Emer - HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name					
1	15 seed/ft2 (34.9 lb/A)	8.2 c	74.0 a	54.0 a	36.3 a	7805 a
2	25 seed/ft2 (58.2 lb/A)	11.4 b	74.0 a	54.0 a	37.8 a	8029 a
3	35 seed/ft2 (81.5 lb/A)	13.8 a	74.0 a	54.0 a	38.0 a	8417 a
LSD P=.05		2.07	NA	NA	1.85	608.1
Standard Deviation		1.20	0.00	0.00	1.07	351.4
CV		10.76	0.00	0.00	2.86	4.35
Treatment F		22.491	0.000	0.000	3.146	3.109
Treatment Prob(F)		0.0016	1.0000	1.0000	0.1163	0.1184

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Table 44. Evaluation of seeding rate and plant population in a stale seedbed for RU2002166. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant - HD	Emer - HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name					
1	15 seed/ft2 (34.9 lb/A)	8.3 b	73.0 a	53.0 a	35.5 a	6799 a
2	25 seed/ft2 (58.2 lb/A)	13.1 a	73.0 a	53.0 a	35.3 a	7219 a
3	35 seed/ft2 (81.5 lb/A)	14.7 a	73.0 a	53.0 a	35.3 a	7567 a
LSD P=.05		1.82	NA	NA	1.38	756.6
Standard Deviation		1.05	0.00	0.00	0.80	437.3
CV		8.72	0.00	0.00	2.26	6.08
Treatment F		39.916	0.000	0.000	0.130	3.097
Treatment Prob(F)		0.0003	1.0000	1.0000	0.8801	0.1192

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for Varieties in a Stale Seedbed Tillage System

Experiment number ..... : 23-CM-43

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.47
- **pH** ..... : 7.36
- **Extractable nutrients (**ppm) ..... : Ca-1563; Cu-1.49; Mg-301; P-20; K-58; Na-103; S-8.1; Zn-7.3

Crop/Variety ..... : Rice / Taurus
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : See Treatment Name / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 6

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, March 9
150 lb N/A 46-0-0, May 3
90 lb N/A 46-0-0, July 31

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 45. Evaluation of seeding rate and plant population in a stale seedbed for Taurus. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant - HD	Emer - HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name					
1	15 seed/ft2 (34.9 lb/A)	9.5 b	76.0 a	56.0 a	31.8 a	7583 a
2	25 seed/ft2 (58.2 lb/A)	11.7 b	76.0 a	56.0 a	30.8 a	8567 a
3	35 seed/ft2 (81.5 lb/A)	19.2 a	76.0 a	56.0 a	31.5 a	8541 a
LSD P=.05		3.11	NA	NA	2.36	862.9
Standard Deviation		1.80	0.00	0.00	1.36	498.7
CV		13.35	0.00	0.00	4.35	6.06
Treatment F		32.008	0.000	0.000	0.582	5.057
Treatment Prob(F)		0.0006	1.0000	1.0000	0.5874	0.0516

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Agronomic Response of Drill-Seeded CLL19 to Different Rates of Nitrogen Fertilizer Under Furrow Irrigation System – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-61

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.21
- **pH** ..... : 7.19
- **Extractable nutrients (**ppm) ..... : Ca-1531; Cu-1.63; Mg-296; P-15.5; K-71; Na-84; S-9.1; Zn-8.1

Crop/Variety ..... : Rice / CLL19
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 31
- **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, March 9

Water management ..... : Underground irrigation
- **Flush** ..... : See Water Sheet
- **Flood** ..... : NA
- **Drain** ..... : NA
- **Ratoon flood** ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 4 oz/A Command + 1 qt/A COC, March 7
  3 qt/A Stam, .5 oz/A Permit, 2 pt/A Prowl, April 4
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 46. Agronomic response of drill seeded CLL19 to different rates of nitrogen fertilizer under furrow irrigation system. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Height	Yield
Rating Date					7/26/2023	7/27/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	106.0 c	87.0 c	25.5 c	2626 c
2	90	4-5 leaf	110.3 b	91.3 b	29.8 b	5723 b
3	120	4-5 leaf	110.8 ab	91.8 ab	32.0 ab	6264 ab
4	150	4-5 leaf	111.0 a	92.0 a	32.3 a	6890 a
5	180	4-5 leaf	111.0 a	92.0 a	34.0 a	6784 a
6	210	4-5 leaf	111.0 a	92.0 a	33.8 a	6821 a
LSD P=.05			0.69	0.69	2.39	834.7
Standard Deviation			0.46	0.46	1.59	553.8
CV			0.42	0.50	5.09	9.46
Treatment F			74.368	74.368	16.092	35.152
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Agronomic Response of Drill-Seeded RT7521 FP to Different Rates of Nitrogen Fertilizer Under Furrow Irrigation System – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-62

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.21
- **pH** ..... : 7.19
- **Extractable nutrients (**ppm) ..... : Ca-1531; Cu-1.63; Mg-296; P-15.5; K-71; Na-84; S-9.1; Zn-8.1

Crop/Variety ..... : Rice / RT7521 FP
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 10 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 31
- **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, March 9

Water management ..... : Underground irrigation
- **Flush** ..... : See Water Sheet
- **Flood** ..... : NA
- **Drain** ..... : NA
- **Ratoon flood** ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 4 oz/A Command + 1 qt/A COC, March 7
  3 qt/A Stam, .5 oz/A Permit, 2 pt/A Prowl, April 4
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 47. Agronomic response of drill seeded RT7521 FP to different rates of nitrogen fertilizer under furrow irrigation system. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice
Description			Plant – HD	Emer – HD	Height	Yield
Rating Date					7/26/2023	7/27/2023
Rating Unit			days	days	in	lb/A
Crop Stage Majority			Main	Main	Main	Main
Trt No.	Urea (lb N/A)	Growth Stage				
1	0	4-5 leaf	109.0 c	90.0 c	32.0 d	4634 c
2	90	4-5 leaf	111.0 b	92.0 b	37.0 c	7361 b
3	120	4-5 leaf	112.0 a	93.0 a	41.0 b	8179 a
4	150	4-5 leaf	112.0 a	93.0 a	43.8 a	8560 a
5	180	4-5 leaf	112.0 a	93.0 a	43.5 a	8524 a
6	210	4-5 leaf	112.0 a	93.0 a	42.8 ab	8440 a
LSD P=.05			NA	NA	2.16	400.2
Standard Deviation			0.00	0.00	1.43	265.6
CV			0.00	0.00	3.58	3.49
Treatment F			0.000	0.000	41.984	132.398
Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Determination of Optimum Plant Population and Seeding rate in a Furrow Irrigation System

Experiment number ..... : 23-CM-64 and 23-CM-65

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.21
- **pH** ..... : 7.19
- **Extractable nutrients (**ppm) ..... : Ca-1531; Cu-1.63; Mg-296; P-15.5; K-71; Na-84; S-9.1; Zn-8.1

Crop/Variety ..... : Rice / CLL19, PVL03
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : See Treatment Name / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 31
- **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, March 9
50 lb N/A 46-0-0, May 15
50 lb N/A 46-0-0, May 29
50 lb N/A 46-0-0, June 6

Water management ..... : Underground irrigation
- **Flush** ..... : See Water Sheet
- **Flood** ..... : NA
- **Drain** ..... : NA
- **Ratoon flood** ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 4 oz/A Command + 1 qt/A COC, March 7
  3 qt/A Stam, .5 oz/A Permit, 2 pt/A Prowl, April 4
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 48. Determination of optimum plant population and seeding rate of CLL19 in a Furrow Irrigation System. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant – HD	Emer – HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name					
1	15 seed/ft2 (34.9 lb/A)	8.0 a	110.0 a	91.0 a	32.5 a	6286 a
2	25 seed/ft2 (58.2 lb/A)	13.5 a	110.0 a	91.0 a	31.8 a	6711 a
3	35 seed/ft2 (81.5 lb/A)	15.9 a	109.8 a	90.8 a	31.5 a	6625 a
LSD P=.05		7.40	0.96	0.96	2.36	369.7
Standard Deviation		4.28	0.55	0.55	1.36	213.7
CV		34.34	0.50	0.61	4.27	3.27
Treatment F		3.595	0.273	0.273	0.582	4.426
Treatment Prob(F)		0.0941	0.7703	0.7703	0.5874	0.0659

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Table 49. Determination of optimum plant population and seeding rate of PVL03 in a Furrow Irrigation System. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice
Description		Density	Plant - HD	Emer - HD	Height	Yield
Rating Date		4/12/2023			7/27/2023	7/27/2023
Rating Unit		#/sq ft	days	days	in	lb/A
Crop Stage Majority		Main	Main	Main	Main	Main
Trt No.	Treatment Name					
1	15 seed/ft2 (34.9 lb/A)	10.4 b	114.0 a	95.0 a	36.8 a	4699 a
2	25 seed/ft2 (58.2 lb/A)	18.4 a	114.0 a	95.0 a	36.5 a	5296 a
3	35 seed/ft2 (81.5 lb/A)	22.0 a	114.0 a	95.0 a	34.5 a	5444 a
LSD P=.05		4.58	NA	NA	2.43	778.8
Standard Deviation		2.65	0.00	0.00	1.40	450.1
CV		15.65	0.00	0.00	3.91	8.75
Treatment F		20.093	0.000	0.000	3.085	3.070
Treatment Prob(F)		0.0022	1.0000	1.0000	0.1199	0.1207

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Evaluation of Stubble Management and N Rate for Ratoon Crop of PVL03 – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-26

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.66
- **pH** ..... : 7.32
- **Extractable nutrients (**ppm) ..... : Ca-1543; Cu-1.70; Mg-263; P-32; K-66; Na-99; S-9.7; Zn-10.7

Crop/Variety ..... : Rice / PVL03
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 7

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, March 9
150 lb N/A 46-0-0, May 2

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 50. Evaluation of stubble management and nitrogen rate for ratoon crop of PVL03. H. Rouse Caffey Rice Research Station.

Crop Name				Rice	Rice	Rice	Rice	Rice	Rice
Description				Plant – HD	Emer – HD	Height	Yield	Yield	Total Yield
Rating Date							7/27/2023	11/7/2023	
Rating Unit				days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority				Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Treatment Name	N Rate (lb N/A)	Growth Stage						
1	Normal cut Urea 0 N	0	PF-Ratoon	107.0 a	87.0 a	39.0 a	9976 a	2298 ef	12274 a
2	Normal cut Urea 30 N	30	PF-Ratoon	107.0 a	87.0 a	38.8 a	9706 a	2529 c-f	12235 a
3	Normal cut Urea 60 N	60	PF-Ratoon	107.0 a	87.0 a	38.3 a	9103 a	2821 abc	11923 a
4	Normal cut Urea 90 N	90	PF-Ratoon	107.0 a	87.0 a	39.3 a	10159 a	2822 abc	12981 a
5	Normal cut Urea 120 N	120	PF-Ratoon	107.0 a	87.0 a	39.3 a	9789 a	2732 a-d	12521 a
6	Normal cut Urea 150 N	150	PF-Ratoon	107.0 a	87.0 a	39.0 a	9661 a	2683 b-e	12344 a
7	Bush hog 8” Urea 0 N	0	PF-Ratoon	107.0 a	87.0 a	39.3 a	9924 a	2238 f	12162 a
8	Bush hog 8” Urea 30 N	30	PF-Ratoon	107.0 a	87.0 a	39.8 a	9653 a	2338 def	11991 a
9	Bush hog 8” Urea 60 N	60	PF-Ratoon	107.0 a	87.0 a	39.3 a	10106 a	2650 b-e	12755 a
10	Bush hog 8” Urea 90 N	90	PF-Ratoon	107.0 a	87.0 a	39.8 a	9914 a	3048 ab	12962 a
11	Bush hog 8” Urea 120 N	120	PF-Ratoon	107.0 a	87.0 a	38.5 a	9688 a	3113 a	12801 a
12	Bush hog 8” Urea 150 N	150	PF-Ratoon	107.0 a	87.0 a	39.0 a	9834 a	2979 ab	12814 a
LSD P=.05				NA	NA	1.86	818.2	406.3	872.9
Standard Deviation				0.00	0.00	1.29	568.8	282.4	606.7
CV				0.00	0.00	3.31	5.81	10.51	4.86
Treatment F				0.000	0.000	0.470	0.934	4.268	1.527
Treatment Prob(F)				1.0000	1.0000	0.9086	0.5213	0.0006	0.1686

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Table 51. Two-way table for the evaluation of stubble management and N rate for ratoon crop of PVL03. H. Rouse Caffey Rice Research Station.

Crop Name				Rice	Rice	Rice	Rice	Rice	Rice
Description				Plant – HD	Emer – HD	Height	Yield	Yield	Total Yield
Rating Date							7/27/2023	11/7/2023	
Rating Unit				days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority				Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Treatment Name	N Rate (lb N/A)	Growth Stage						
Cultural Practice MEANS									
1	Normal cut			107.0 a	87.0 a	38.9 a	9732 a	2647 a	12380 a
2	Bush hog 8”			107.0 a	87.0 a	39.3 a	9853 a	2728 a	12581 a
P				1.00	1.00	0.40	0.4672	0.3322	0.2594
LSD P=.05				NA	NA	0.76	334.0	165.9	356.3
Fertility MEANS									
1	Urea 0 N	0	PF-Ratoon	107.0 a	87.0 a	39.1 a	9950 a	2268 b	12218 a
2	Urea 30 N	30	PF-Ratoon	107.0 a	87.0 a	39.3 a	9680 a	2434 b	12113 a
3	Urea 60 N	60	PF-Ratoon	107.0 a	87.0 a	38.8 a	9604 a	2735 a	12339 a
4	Urea 90 N	90	PF-Ratoon	107.0 a	87.0 a	39.5 a	10036 a	2935 a	12972 a
5	Urea 120 N	120	PF-Ratoon	107.0 a	87.0 a	38.9 a	9739 a	2922 a	12661 a
6	Urea 150 N	150	PF-Ratoon	107.0 a	87.0 a	39.0 a	9748 a	2831 a	12579 a
P				1.00	1.00	0.90	0.6418	0.0001	0.0774
LSD P=.05				NA	NA	1.32	578.6	287.3	617.2

Continued.

Table 51. Continued.

Crop Name				Rice	Rice	Rice	Rice	Rice	Rice
Description				Plant – HD	Emer – HD	Height	Yield	Yield	Total Yield
Rating Date							7/27/2023	11/7/2023	
Rating Unit				days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority				Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Treatment Name	N Rate (lb N/A)	Growth Stage						
Combined Trt MEANS									
1	Normal cut			107.0 a	87.0 a	39.0 a	9976 a	2298 a	12274 a
1	Urea 0 N	0	PF-Ratoon						
2	Bush hog 8”			107.0 a	87.0 a	39.3 a	9924 a	2238 a	12162 a
1	Urea 0 N	0	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	38.8 a	9706 a	2529 a	12235 a
2	Urea 30 N	30	PF-Ratoon						
2	Bush hog 8”			107.0 a	87.0 a	39.8 a	9653 a	2338 a	11991 a
2	Urea 30 N	30	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	38.3 a	9103 a	2821 a	11923 a
3	Urea 60 N	60	PF-Ratoon						
2	Bush hog 8”			107.0 a	87.0 a	39.3 a	10106 a	2650 a	12755 a
3	Urea 60 N	60	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	39.3 a	10159 a	2822 a	12981 a
4	Urea 90 N	90	PF-Ratoon						
2	Bush hog 8”			107.0 a	87.0 a	39.8 a	9914 a	3048 a	12962 a
4	Urea 90 N	90	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	39.3 a	9789 a	2732 a	12521 a
5	Urea 120 N	120	PF-Ratoon						
2	Bush hog 8”			107.0 a	87.0 a	38.5 a	9688 a	3113 a	12801 a
5	Urea 120 N	120	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	39.0 a	9661 a	2683 a	12344 a
6	Urea 150 N	150	PF-Ratoon						
2	Bush hog 8”			107.0 a	87.0 a	39.0 a	9834 a	2979 a	12814 a
6	Urea 150 N	150	PF-Ratoon						
P				1.00	1.00	0.7543	0.3015	0.1935	0.4977
LSD P=.05				NA	NA	1.86	818.2	406.3	872.9
Standard Deviation				0.00	0.00	1.29	568.8	282.4	606.7
CV				0.00	0.00	3.31	5.80	10.50	4.90

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Evaluation of Stubble Management and N Rate for Ratoon Crop of CLL17 – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-27

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.66
- **pH** ..... : 7.32
- **Extractable nutrients (**ppm) ..... : Ca-1543; Cu-1.70; Mg-263; P-32; K-66; Na-99; S-9.7; Zn-10.7

Crop/Variety ..... : Rice / CLL17
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 7

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, March 9
150 lb N/A 46-0-0, May 2

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 52. Evaluation of stubble management and nitrogen rate for ratoon crop of CLL17. H. Rouse Caffey Rice Research Station.

Crop Name				Rice	Rice	Rice	Rice	Rice	Rice
Description				Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date							7/27/2023	11/7/2023	
Rating Unit				days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority				Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Treatment Name	N Rate (lb N/A)	Growth Stage						
1	Normal cut Urea 0 N	0	PF-Ratoon	107.0 a	87.0 a	40.0 a	11212 a	2370 b	13576 ab
2	Normal cut Urea 30 N	30	PF-Ratoon	107.0 a	87.0 a	39.5 a	10952 a	2528 ab	13480 ab
3	Normal cut Urea 60 N	60	PF-Ratoon	107.0 a	87.0 a	39.5 a	10988 a	2235 bc	13223 bc
4	Normal cut Urea 90 N	90	PF-Ratoon	107.0 a	87.0 a	39.3 a	11028 a	2438 b	13466 ab
5	Normal cut Urea 120 N	120	PF-Ratoon	107.0 a	87.0 a	40.3 a	11215 a	2395 b	13610 ab
6	Normal cut Urea 150 N	150	PF-Ratoon	107.0 a	87.0 a	40.8 a	11108 a	3009 a	14028 a
7	Bush hog 8" Urea 0 N	0	PF-Ratoon	107.0 a	87.0 a	39.3 a	11239 a	2031 bcd	13536 ab
8	Bush hog 8" Urea 30 N	30	PF-Ratoon	107.0 a	87.0 a	39.8 a	10901 a	1693 d	12646 c
9	Bush hog 8" Urea 60 N	60	PF-Ratoon	107.0 a	87.0 a	40.0 a	11302 a	1704 d	13007 bc
10	Bush hog 8" Urea 90 N	90	PF-Ratoon	107.0 a	87.0 a	39.0 a	11115 a	1736 cd	12706 c
11	Bush hog 8" Urea 120 N	120	PF-Ratoon	107.0 a	87.0 a	40.5 a	10958 a	2026 bcd	12984 bc
12	Bush hog 8" Urea 150 N	150	PF-Ratoon	107.0 a	87.0 a	39.8 a	10893 a	2070 bcd	12986 bc
LSD P=.05				NA	NA	1.56	492.9	507.7	754.2
Standard Deviation				0.00	0.00	1.08	342.6	348.6	517.9
CV				0.00	0.00	2.72	3.09	15.95	3.90
Treatment F				0.000	0.000	0.965	0.688	5.023	2.548
Treatment Prob(F)				1.0000	1.0000	0.4951	0.7396	0.0004	0.0256

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Table 53. Two-way table for the evaluation of stubble management and N rate for ratoon crop of CLL17. H. Rouse Caffey Rice Research Station.

Crop Name				Rice	Rice	Rice	Rice	Rice	Rice
Description				Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date							7/27/2023	11/7/2023	
Rating Unit				days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority				Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Treatment Name	N Rate (lb N/A)	Growth Stage						
Cultural Practice MEANS									
1	Normal cut			107.0 a	87.0 a	39.9.0 a	11084 a	2496 a	13564 a
2	Bush hog 8"			107.0 a	87.0 a	39.7.0 a	11068 a	1877 b	12977 b
P				1.00	1.00	0.60	0.8735	0.0001	0.0006
LSD P=.05				NA	NA	0.64	201.2	207.3	307.9
Fertility MEANS									
1	Urea 0 N	0	PF-Ratoon	107.0 a	87.0 a	39.6 a	11226 a	2200 a	13556 a
2	Urea 30 N	30	PF-Ratoon	107.0 a	87.0 a	39.6 a	10926 a	2110 a	13063 a
3	Urea 60 N	60	PF-Ratoon	107.0 a	87.0 a	39.8 a	11145 a	1970 a	13115 a
4	Urea 90 N	90	PF-Ratoon	107.0 a	87.0 a	39.1 a	11071 a	2087 a	13086 a
5	Urea 120 N	120	PF-Ratoon	107.0 a	87.0 a	40.4 a	11087 a	2211 a	13297 a
6	Urea 150 N	150	PF-Ratoon	107.0 a	87.0 a	40.3 a	11001 a	2540 a	13507 a
P				1.00	1.00	0.20	0.6000	0.1000	0.2486
LSD P=.05				NA	NA	1.10	348.5	359.0	533.3

Continued.

Table 53. Continued.

Crop Name				Rice	Rice	Rice	Rice	Rice	Rice
Description				Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date							7/27/2023	11/7/2023	
Rating Unit				days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority				Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Treatment Name	N Rate (lb N/A)	Growth Stage						
Combined Trt MEAN									
1	Normal cut			107.0 a	87.0 a	40.0 a	11212 a	2370 a	13576 a
1	Urea 0 N	0	PF-Ratoon						
2	Bush hog 8"			107.0 a	87.0 a	39.3 a	11239 a	2031 a	13536 a
1	Urea 0 N	0	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	39.5 a	10952 a	2528 a	13480 a
2	Urea 30 N	30	PF-Ratoon						
2	Bush hog 8"			107.0 a	87.0 a	39.8 a	10901 a	1693 a	12646 a
2	Urea 30 N	30	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	39.5 a	10988 a	2235 a	13223 a
3	Urea 60 N	60	PF-Ratoon						
2	Bush hog 8"			107.0 a	87.0 a	40 a	11302 a	1704 a	13007 a
3	Urea 60 N	60	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	39.3 a	11028 a	2438 a	13466 a
4	Urea 90 N	90	PF-Ratoon						
2	Bush hog 8"			107.0 a	87.0 a	39 a	11115 a	1736 a	12706 a
4	Urea 90 N	90	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	40.3 a	11215 a	2395 a	13610 a
5	Urea 120 N	120	PF-Ratoon						
2	Bush hog 8"			107.0 a	87.0 a	40.5 a	10958 a	2026 a	12984 a
5	Urea 120 N	120	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	40.8.0 a	11108 a	3009 a	14028 a
6	Urea 150 N	150	PF-Ratoon						
2	Bush hog 8"			107.0 a	87.0 a	39.8.0 a	10893 a	2070 a	12986 a
6	Urea 150 N	150	PF-Ratoon						
P				1.00	1.00	0.6801	0.5899	0.4350	0.3860
LSD P=.05				NA	NA	1.56	492.9	507.7	754.2
Standard Deviation				0.00	0.00	1.08	342.6	348.6	517.9
CV				0.00	0.00	2.72	3.10	15.90	3.90

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Evaluation of Stubble Management and N Rate for Ratoon Crop of RT7521 FP – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-28

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.66
- **pH** ..... : 7.32
- **Extractable nutrients (**ppm) ..... : Ca-1543; Cu-1.70; Mg-263; P-32; K-66; Na-99; S-9.7; Zn-10.7

Crop/Variety ..... : Rice / RT7521 FP
- **Planting method/date** ..... : Drill seeded / March 8
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : July 27
- **Ratoon Harvest date** ..... : November 7

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, March 9
150 lb N/A 46-0-0, May 2

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 4
- **Drain** ..... : July 14
- **Ratoon flood** ..... : August 2
- **Ratoon drain** ..... : October 19

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  2 pt/A Prowl, April 4
  3 qt/A Stam, April 19
  2 oz/A Gambit + 3 qt/A Stam, May 1
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 54. Evaluation of stubble management and nitrogen rate for ratoon crop of RT7521 FP. H. Rouse Caffey Rice Research Station.

Crop Name				Rice	Rice	Rice	Rice	Rice	Rice
Description				Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date							7/27/2023	11/7/2023	
Rating Unit				days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority				Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Treatment Name	N Rate (lb N/A)	Growth Stage						
1	Normal cut Urea 0 N	0	PF-Ratoon	107.0 a	87.0 a	49.3 a	13229 a	2112 cde	15231 cd
2	Normal cut Urea 30 N	30	PF-Ratoon	107.0 a	87.0 a	48.3 a	13482 a	2377 bc	15859 a-d
3	Normal cut Urea 60 N	60	PF-Ratoon	107.0 a	87.0 a	48.5 a	13595 a	2707 ab	16362 ab
4	Normal cut Urea 90 N	90	PF-Ratoon	107.0 a	87.0 a	48.5 a	13248 a	2965 a	16213 ab
5	Normal cut Urea 120 N	120	PF-Ratoon	107.0 a	87.0 a	49.3 a	13892 a	2720 ab	16611 a
6	Normal cut Urea 150 N	150	PF-Ratoon	107.0 a	87.0 a	49.3 a	13191 a	2948 a	16138 abc
7	Bush hog 8" Urea 0 N	0	PF-Ratoon	107.0 a	87.0 a	48.8 a	12994 a	1696 f	15243 cd
8	Bush hog 8" Urea 30 N	30	PF-Ratoon	107.0 a	87.0 a	47.3 a	13235 a	1775 ef	15010 d
9	Bush hog 8" Urea 60 N	60	PF-Ratoon	107.0 a	87.0 a	49.3 a	13678 a	1954 def	15632 bcd
10	Bush hog 8" Urea 90 N	90	PF-Ratoon	107.0 a	87.0 a	48.5 a	13058 a	2201 cd	15259 cd
11	Bush hog 8" Urea 120 N	120	PF-Ratoon	107.0 a	87.0 a	48.3 a	13039 a	2184 cd	15222 cd
12	Bush hog 8" Urea 150 N	150	PF-Ratoon	107.0 a	87.0 a	48 a	13434 a	2273 cd	15707 a-d
LSD P=.05				NA	NA	1.77	752.2	389.0	926.9
Standard Deviation				0.00	0.00	1.23	522.3	268.9	640.9
CV				0.00	0.00	2.53	3.92	11.56	4.08
Treatment F				0.000	0.000	1.003	1.141	10.156	2.726
Treatment Prob(F)				1.0000	1.0000	0.4644	0.3642	0.0001	0.0150

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Table 55. Two-way table for the evaluation of stubble management and N rate for ratoon crop of RT7521 FP. H. Rouse Caffey Rice Research Station.

Crop Name				Rice	Rice	Rice	Rice	Rice	Rice
Description				Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date							7/27/2023	11/7/2023	
Rating Unit				days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority				Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Treatment Name	N Rate (lb N/A)	Growth Stage						
Cultural Practice MEANS									
1	Normal cut			107.0 a	87.0 a	48.8 a	13439 a	2638 a	16069 a
2	Bush hog 8"			107.0 a	87.0 a	48.3 a	13240 a	2014 b	15346 b
P				1.00	1.00	0.20	0.1951	0.0001	0.0005
LSD P=.05				NA	NA	0.72	307.1	158.8	378.4
Fertility MEANS									
1	Urea 0 N	0	PF-Ratoon	107.0 a	87.0 a	49.0 a	13112 a	1904 d	15237 a
2	Urea 30 N	30	PF-Ratoon	107.0 a	87.0 a	47.8 a	13359 a	2076 cd	15435 a
3	Urea 60 N	60	PF-Ratoon	107.0 a	87.0 a	48.9 a	13636 a	2330 bc	15997 a
4	Urea 90 N	90	PF-Ratoon	107.0 a	87.0 a	48.5 a	13153 a	2583 ab	15736 a
5	Urea 120 N	120	PF-Ratoon	107.0 a	87.0 a	48.8 a	13465 a	2452 ab	15917 a
6	Urea 150 N	150	PF-Ratoon	107.0 a	87.0 a	48.6 a	13313 a	2610 a	15923 a
P				1.00	1.00	0.40	0.3679	0.0001	0.1380
LSD P=.05				NA	NA	1.25	531.9	275.0	655.4

Continued.

Table 55. Continued.

Crop Name				Rice	Rice	Rice	Rice	Rice	Rice
Description				Plant - HD	Emer - HD	Height	Yield	Yield	Total Yield
Rating Date							7/27/2023	11/7/2023	
Rating Unit				days	days	in	lb/A	lb/A	lb/A
Crop Stage Majority				Main	Main	Main	Main	Ratoon	MC+RC
Trt No.	Treatment Name	N Rate (lb N/A)	Growth Stage						
Combined Trt MEAN									
1	Normal cut			107.0 a	87.0 a	49.3 a	13229 a	2112 a	15231 a
1	Urea 0 N	0	PF-Ratoon						
2	Bush hog 8"			107.0 a	87.0 a	48.8 a	12994 a	1696 a	15243 a
1	Urea 0 N	0	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	48.3 a	13482 a	2377 a	15859 a
2	Urea 30 N	30	PF-Ratoon						
2	Bush hog 8"			107.0 a	87.0 a	47.3 a	13235 a	1775 a	15010 a
2	Urea 30 N	30	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	48.5 a	13595 a	2707 a	16362 a
3	Urea 60 N	60	PF-Ratoon						
2	Bush hog 8"			107.0 a	87.0 a	49.3 a	13678 a	1954 a	15632 a
3	Urea 60 N	60	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	48.5 a	13248 a	2965 a	16213 a
4	Urea 90 N	90	PF-Ratoon						
2	Bush hog 8"			107.0 a	87.0 a	48.5 a	13058 a	2201 a	15259 a
4	Urea 90 N	90	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	49.3 a	13892 a	2720 a	16611 a
5	Urea 120 N	120	PF-Ratoon						
2	Bush hog 8"			107.0 a	87.0 a	48.3 a	13039 a	2184 a	15222 a
5	Urea 120 N	120	PF-Ratoon						
1	Normal cut			107.0 a	87.0 a	49.3 a	13191 a	2948 a	16138 a
6	Urea 150 N	150	PF-Ratoon						
2	Bush hog 8"			107.0 a	87.0 a	48.0 a	13434 a	2273 a	15707 a
6	Urea 150 N	150	PF-Ratoon						
P				1.00	1.00	0.5840	0.4133	0.7735	0.3775
LSD P=.05				NA	NA	1.77	752.2	389.0	926.9
Standard Deviation				0.00	0.00	1.23	522.3	268.9	640.9
CV				0.00	0.00	2.53	3.90	11.60	4.10

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Evaluation of Phosphorus Rate on Yield – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-53

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.37
- **pH** ..... : 6.97
- **Extractable nutrients (**ppm) ..... : Ca-1299; Cu-1.51; Mg-278; P-16.5; K-61; Na-98; S-8.9; Zn-7.9

Crop/Variety ..... : Rice / CLL17
- **Planting method/date** ..... : Drill seeded / March 9
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : August 7
- **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 ..... : 120 lb N/A 46-0-0, May 15

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 17
- **Drain** ..... : July 28
- **Ratoon flood** ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  3 qt/A Stam, .5 oz/A Permit, 2 pt/A Prowl, April 4
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 56. Evaluation of phosphorus rate on yield. H. Rouse Caffey Rice Research Station.

Crop Name				Rice	Rice	Rice	Rice
Description				Plant - HD	Emer - HD	Height	Yield
Rating Date							7/27/2023
Rating Unit				days	days	in	lb/A
Crop Stage Majority				Main	Main	Main	Main
Trt No.	Treatment Name	Rate (lb P_2O_5/A)	Growth Stage				
1	P_2O_5	0	At Planting	118.0 a	99.0 a	37.5 a	8046 a
2	P_2O_5	30	At Planting	118.0 a	99.0 a	36.8 a	7710 a
3	P_2O_5	60	At Planting	118.0 a	99.0 a	36.8 a	8075 a
4	P_2O_5	90	At Planting	118.0 a	99.0 a	36 a	8336 a
5	P_2O_5	120	At Planting	118.0 a	99.0 a	36.5 a	8198 a
LSD P=.05				NA	NA	1.50	950.8
Standard Deviation				0.00	0.00	0.97	617.1
CV				0.00	0.00	2.64	7.64
Treatment F				0.000	0.000	1.248	0.570
Treatment Prob(F)				1.0000	1.0000	0.3428	0.6893

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Evaluation of Phosphorus Time of Applications on Yield – H. Rouse Caffey Rice Research Station

Experiment number ..... : 23-CM-54

Site and design ..... :
- **Location/Cooperator** ..... : H. Rouse Caffey Rice Research Station (Crowley Main)
- **Tillage type** ..... : Fall Stale
- **Experimental design** ..... : Randomized complete block
- **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** ..... : 1.37
- **pH** ..... : 6.97
- **Extractable nutrients (**ppm) ..... : Ca-1299; Cu-1.51; Mg-278; P-16.5; K-61; Na-98; S-8.9; Zn-7.9

Crop/Variety ..... : Rice / CLL17
- **Planting method/date** ..... : Drill seeded / March 9
- **Seeding rate/depth** ..... : 33 seed/ft^2 / .5 inch
- **Emergence date** ..... : March 28
- **Harvest date** ..... : August 7
- **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 ..... : 120 lb N/A 46-0-0, May 15

Water management ..... : Underground irrigation
- **Flush** ..... : March 13
- **Flood** ..... : May 17
- **Drain** ..... : July 28
- **Ratoon flood** ..... : NA
- **Ratoon drain** ..... : NA

Pest management ..... :
- **Herbicides** ..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D, January 27
  1.5 qt/A Glyphosate + .8 oz/A Firstshot + 3 oz/A Sharpen + 8 oz/A Command + 1 qt/A COC, March 7
  3 qt/A Stam, .5 oz/A Permit, 2 pt/A Prowl, April 4
- **Insecticides** ..... : None
- **Fungicides** ..... : 16 oz/A Elegia + 3.8 oz/A Flint Extra, June 24

Table 57. Evaluation of phosphorus time of applications on yield. H. Rouse Caffey Rice Research Station.

Crop Name				Rice	Rice	Rice	Rice
Description				Plant - HD	Emer - HD	Height	Yield
Rating Date							7/27/2023
Rating Unit				days	days	in	lb/A
Crop Stage Majority				Main	Main	Main	Main
Trt No.	Treatment Name	Rate (lb P2O5/A)	Growth Stage				
1	No P			119.0 a	99.0 a	37.5 a	8100 a
2	At Planting	120	At planting	119.0 a	99.0 a	36.8 a	8362 a
3	Preflood			119.0 a	99.0 a	37.0 a	8296 a
4	Mid-tillering	120	Mid Tillering	119.0 a	99.0 a	36.8 a	7840 a
5	Green ring			119.0 a	99.0 a	36.0 a	8067 a
6	50% Heading	120	50%HD	119.0 a	99.0 a	37.0 a	8409 a
7	Split at Planting			119.0 a	99.0 a	36.8 a	8393 a
	Preflood	60	Preflood				
8	Split at Planting			119.0 a	99.0 a	36.8 a	8540 a
	Green ring	60	Green Ring				
9	Split At Planting			119.0 a	99.0 a	37.5 a	8609 a
	50% Heading	60	50%HD				
LSD P=.05				NA	NA	1.41	493.2
Standard Deviation				0.00	0.00	0.96	337.9
CV				0.00	0.00	2.62	4.08
Treatment F				0.000	0.000	0.881	2.111
Treatment Prob(F)				1.0000	1.0000	0.5465	0.0751

NA = Could not calculate LSD (% mean diff) because error mean square = 0.
Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

ROTATIONAL CROP RESEARCH

M. Kongchum, J.P. Leonards, J.S. Fluitt, B. Beard, and M.J. Breaux

Rotational Crop Research

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, S and Zn fertilizer date at the Rice Research Station South Farm. Soybean plots in both cropping systems were planted on June 8, 2023. Soybean germination was acceptable. However, due to severe drought, most of them could not survive throughout the season. All trials were abandoned.

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 2023 Soybean Variety Yields and Production Practices publication (LSU AgCenter publication number 2269) which is available online at www.lsuagcenter.com. Soybean variety trials are conducted annually to evaluate yield performance of different maturity groups (Groups III – VI) and varietal response to the environmental and soil conditions in southwest Louisiana. Similar to soybean fertility trials, all soybean maturity group plots in 2023 were abandoned.

Wheat varietal and experimental lines are evaluated annually. Due to excessive rainfall during the planting period, the wheat was planted on December 9, 2022. 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 2023 was higher than the average from previous 4-5 years. The top three yielding varieties (from 40 varieties) at the Crowley location in 2022-23 were AGS 3022 (100.2 bu/A), GA151313-20E48 (98.7 bu/A), and Dyna Grow 3500 (96.9 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. Seventeen entries were evaluated in 2023. Even though it was very dry weather in this location, the highest yielding grain sorghum hybrids at the Crowley location in 2023 were 83P11, GX22934, and M72GB71 with yields of 73, 70, and 68 bu/A, respectively.

RICE PATHOLOGY RESEARCH

F. Dalla Lana, L. Monte, D. Trahan, A. C. Cerutti

Program Overview

Rice production in Louisiana is affected by multiple diseases that can significantly damage yield and quality, leading to economic losses. Historically, the most challenging and yield-limiting diseases in the state have been sheath blight (*Rhizoctonia solani* AG-1), blast (*Pyricularia oryzae*), cercospora (*Cercospora janseana*), and bacterial panicle blight (*Burkholderia glumae* and *B. gladioli*). More recently, an increase in the prevalence and severity of kernel smuts (*Tilletia barclayana*) and false smut (*Ustilaginoidea virens*) has been reported in Louisiana. These six diseases are the primary research focus of the LSU Rice Pathology Program. While these major diseases can significantly limit yields, they are caused by different groups of organisms, each with their own unique dispersion patterns and environmental requirements. This diversity necessitates a complex and comprehensive management strategy for the rice system in Louisiana. Moreover, managing these diseases presents a challenge for growers and other stakeholders, as current methods are not effective in managing all diseases simultaneously. Therefore, effective management of rice diseases must follow an integrated pest management (IPM) approach, which encompasses multiple strategies and takes the entire crop system into consideration.

Effective management of rice diseases can include strategies like host resistance, cultural practices, and the use of chemical or biological products. Host resistance is the most effective and affordable method available for controlling diseases. Resistant genes, such as *Pita-2* for blast, are present in several varieties and can provide effective disease control as long as no new mutations in the fungus population overcome this genetic resistance. Unfortunately, despite ongoing 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, which are less effective than genetic resistance, more expensive (e.g., fungicide application), or can reduce yield potential (e.g., low nitrogen fertilization). To aid in decision-making on disease management, growers should consider factors associated with the risk of disease development, potential yield loss, and the costs of management strategies. The research of the Rice Pathology Program targets these aspects, ranging from the characterization and discovery of new genetic resistances to the evaluation of management practices and product efficacy. The main goal of our program is to maximize growers' return on investment in disease management while minimizing environmental impact and grain quality loss. Our specific goals include:

- Monitor changes in the status of rice diseases to identify research needs.
- Develop and conduct field screening programs to characterize and discover disease resistance in rice.
- Develop and conduct screening programs to evaluate pesticide efficacy, timing, and dosage.
- Improve disease management strategies for major rice diseases in Louisiana.

Disease occurrence and research summary of 2023 season

During the 2023 rice growing season, the Rice Pathology Program conducted 69 studies. These were divided into four categories: variety and germplasm disease reaction characterization (36 studies), disease management (17), industry collaboration (11), and other collaborations (5).

The weather was generally unfavorable for the development of diseases during the season (see Fig. 1). Conditions allowed for early planting, with several growers managing to plant their fields as early as late February. Cold temperatures and cloudy weather in mid-March favored the development of seedling disease, but its prevalence and severity were limited. The hot and dry weather experienced for most of the season across the state, including at the Rice Research Station, significantly limited the prevalence and severity of diseases. The notable exception was bacterial panicle blight, which was more prevalent in commercial fields but not observed in inoculated plots at the Station.

Despite the Rice Pathology Program's best efforts, intensive inspections of research plots did not reveal any blast lesions or false smut. Similarly, these diseases were not observed in any commercial fields. Sheath blight was noted in several commercial fields; however, the disease, in general, did not progress to the upper canopy leaves, which could have resulted in more significant yield loss. The prevalence, incidence, and severity of Cercospora were limited, although it was more common in fields that were planted late. Some reports of failure in controlling kernel smut were investigated. In collaboration with Dr. Xin-Gen 'Shane' Zhou, from Texas A&M University, we identified the first isolate of kernel smut resistant to propiconazole. The program will continue to monitor the progress of this new fungicide resistance.

The yield loss associated with these diseases was low, estimated at less than 5% for the 2023 season in Louisiana. The breakdown of estimated yield losses for each disease is as follows: Bacterial Panicle Blight – 3%, Sheath blight – 1%, Cercospora – 0.5%, and for blast, false smut, and other diseases – less than 0.1%.

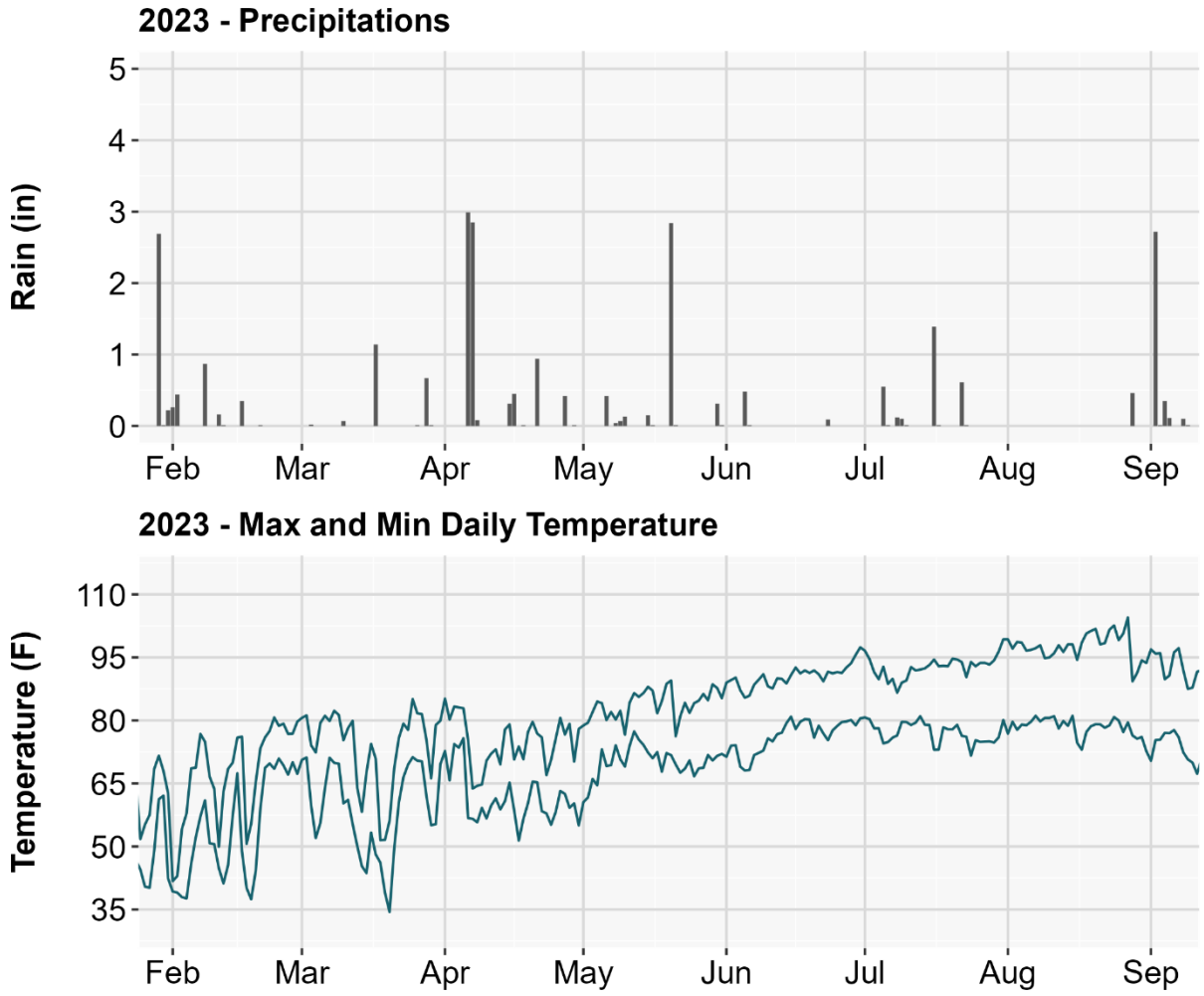


Figure 1. Precipitation (top) and temperature range at the Rice Research Station, Rayne, during the 2023 rice main crop season.

Disease reaction studies

Host resistance is the most important and effective method to prevent disease losses. The Rice Pathology Program phenotypes a large number of germplasm for disease resistance for the most important diseases in Louisiana in a series of trials. These studies include the Variety Test, Pre-Commercial (PC) trials, Uniform Regional Rice Nursery (URRN), Advanced Yield Trials (AYT), and Regional Yield Trials (RYT). The AYT and RYT trials are further divided into three groups based on herbicide resistance traits: Conventional (AYT-CV and RYT-CV), Clearfield (AYT-CL and RYT-CL), and Provisia (AYT-PV and RYT-PV). Variety trials include germplasm already available to growers; PC involve germplasm close to being released; URRN contains germplasm from multiple university rice breeding programs. The AYT and RYT are part of the LSU breeding program, both in advanced breeding stages, with AYT being at a more advanced stage in the pipeline than RYT. In addition to these groups, the Rice Pathology Program also phenotypes the U.S. breeding germplasm panel, referred to as NTP, which contains historical, modern, and advanced U.S. rice breeding germplasm for resistance discovery purposes.

The diseases targeted in these studies include, but are not limited to, sheath blight, blast, bacterial panicle blight, Cercospora, kernel smut, and false smut. Other diseases such as brown spot and leaf smut are also rated if significant levels are observed in the field. Currently, disease reaction trials are conducted under field conditions in three study layouts: row-plots, yield-plots and upland nursery. Row-plots, which are smaller plots used to test large numbers of entries, each measure 6 feet in length with one to three rows per entry, depending on the study, and include two to four replications in a randomized complete block design (RCBD). The yield-plot studies, focusing on sheath blight resistance and yield and grain quality tolerance (the capacity of a genotype to maintain yield/quality under disease presence), consist of plots that are 4.6 by 16 feet, with four replications in a RCBD and inoculate with sheath blight. Finally, in the upland nursery, each experimental unit comprises two to three rows of two feet each, with three to four replications, also in a RCBD. Plants are cultivated without flood irrigation, a condition that increases susceptibility to leaf blast (the target disease), and disease severity is rated on 4-week-old plants. Due to the unfavorable weather, no leaf blast was observed in the upland nursery. The results of the other studies are reported in the subsequent sub-sections.

Row-plots

For the 2023 season, row-plots were planted on March 16th. They targeted sheath blight and bacterial panicle blight. From May 16th, they targeted rotten neck blast, Cercospora and smuts. Disease inoculation was done only for sheath blight and bacterial panicle blight, with sources of inoculum for the other diseases being natural. However, the studies are managed in a way to promote disease development. For example, for Rotten Neck Blast, Cercospora and smuts, trials are planted later in the season, which increases the risk of disease development. In addition, for studies targeting blast, such as the May planting of row-plots and the upland nursery, blast-susceptible varieties (M201 and M202) are planted in borders and buffers to serve as inoculum spreaders.

Table 1. Summary of material and methods applied to row-plots.

Planting Date:	March 16th (First field) and May 16th (Third field)
Water Management	*First Field* - Flooded: May 4; Drained: July 21 *Third Field* - Flooded: June 13; Drained: July 21
Fertilization	Pre-planting - 250 lb/A of 0-24-24; Preflood 300 lb/A 46-0-0 urea (First and third field)
Herbicides	*First Field:* • Propanil 3 qt/A, Prowl 1 qt/A, April 4 • Propanil 4 qt/A, Facet L 1 qt/A, Gambit 1.5 oz/A, Crop Oil 16 fl oz/A, May 1 *Third Field:* • Command 8 fl oz/A, May 17 • Propanil 3 qt/A, Gambit 1.5 oz/A, and Prowl 1 qt/A, May 29 • Propanil 4 qt/A, Facet (granular) 0.5 lbs/A, Crop Oil 16 fl oz/A, June 9
Insecticides	Dermacor X-100 seed treatment
Inoculation	*First Field*: • Sheath blight inoculation May 25 • Bacterial panicle blight inoculation: June 13, 16, 20, and 23 *Third Field*: No artificial inoculation
Ratings	*First Field*: Sheath blight and bacteria panicle blight: July 26-29 *Third Field:* Neck Blast and others – Sep 12; Cercospora: October 6-8

3.1.1. Variety

Table 2. Variety row-plot trials for sheath blight and narrow brown estimate severity (SEV), standard error (SE), and lower and upper range of 95% confidence interval, Crowley, LA, 2023. Disease rate on 0 to 9 scale, with 0 representing no disease and 9 maximum disease severity. Sheath blight and narrow brown leaf spot (cercospora) data from different trials. Other diseases failed to develop on significant levels.

	Genotypes	Sheath Blight SEV	Sheath Blight SE	Sheath Blight 95% CI Lower	Sheath Blight 95% CI Upper	Narrow Brown Leaf Spot SEV	Narrow Brown Leaf Spot SE	Narrow Brown Leaf Spot 95% CI Lower	Narrow Brown Leaf Spot 95% CI Upper
1	22DGL264	0.33	0.57	0.00	1.52	0.00	0.82	0.00	1.62
2	AddiJo	0.33	0.57	0.00	1.52	2.33	0.82	0.71	3.96
3	Aroma22	0.00	0.57	0.00	1.19	2.33	0.82	0.71	3.96
4	Avant	0.33	0.57	0.00	1.52	3.67	0.82	2.04	5.29
5	BBC30-1	0.33	0.57	0.00	1.52	4.33	0.82	2.71	5.96
6	Cheniere	0.33	0.57	0.00	1.52	4.33	0.82	2.71	5.96
7	CL111	1.33	0.57	0.15	2.52	4.53	1.01	2.53	6.53
8	CL151	1.67	0.57	0.48	2.85	3.67	0.82	2.04	5.29
9	CL153	2.33	0.57	1.15	3.52	5.33	0.82	3.71	6.96
10	CLHA02	1.67	0.57	0.48	2.85	5.67	0.82	4.04	7.29
11	CLJ01	0.80	0.66	0.00	2.15	2.67	0.82	1.04	4.29
12	CLL16	0.33	0.57	0.00	1.52	1.33	0.82	0.00	2.96
13	CLL17	0.67	0.57	0.00	1.85	3.00	0.82	1.38	4.62
14	CLL18	1.00	0.57	0.00	2.19	1.67	0.82	0.04	3.29
15	CLL19	0.33	0.57	0.00	1.52	6.00	0.82	4.38	7.62
16	CLM04	0.67	0.57	0.00	1.85	2.67	0.82	1.04	4.29
17	Della2	0.33	0.57	0.00	1.52	5.67	0.82	4.04	7.29
18	DG263L	1.33	0.57	0.15	2.52	0.67	0.82	0.00	2.29
19	DG3H2004	1.00	0.57	0.00	2.19	0.00	0.82	0.00	1.62
20	DG3H2007	0.33	0.57	0.00	1.52	0.67	0.82	0.00	2.29
21	DG3H20363	0.67	0.57	0.00	1.85	0.00	0.82	0.00	1.62
22	DG3H20397	1.32	0.66	0.00	2.67	0.67	0.82	0.00	2.29
23	DG3H20402	1.33	0.57	0.15	2.52	0.33	0.82	0.00	1.96
24	DGM004	0.33	0.57	0.00	1.52	3.67	0.82	2.04	5.29
25	Frontier	1.33	0.57	0.15	2.52	5.67	0.82	4.04	7.29
26	Jazzman	0.33	0.57	0.00	1.52	5.00	0.82	3.38	6.62
27	Jupiter	1.00	0.57	0.00	2.19	6.33	0.82	4.71	7.96
28	Mermentau	1.00	0.57	0.00	2.19	5.00	0.82	3.38	6.62
29	Ozark	0.00	0.57	0.00	1.19	6.33	0.82	4.71	7.96
30	Presidio	0.67	0.57	0.00	1.85	0.00	0.82	0.00	1.62
31	PVL03	0.67	0.57	0.00	1.85	5.67	0.82	4.04	7.29

Continued.

Table 2. Continued.

Genotypes	Sheath Blight SEV	Sheath Blight SE	Sheath Blight 95% CI Lower	Sheath Blight 95% CI Upper	Narrow Brown Leaf Spot SEV	Narrow Brown Leaf Spot SE	Narrow Brown Leaf Spot 95% CI Lower	Narrow Brown Leaf Spot 95% CI Upper
32 RT3002	0.33	0.57	0.00	1.52	0.00	0.82	0.00	1.62
33 RT7302	0.67	0.57	0.00	1.85	0.00	0.82	0.00	1.62
34 RT7331MA	1.33	0.57	0.15	2.52	1.00	0.82	0.00	2.62
35 RT7421FP	0.33	0.57	0.00	1.52	0.00	0.82	0.00	1.62
36 RT7431MA	0.32	0.66	0.00	1.67	0.00	0.82	0.00	1.62
37 RT781	0.00	0.57	0.00	1.19	0.00	0.82	0.00	1.62
38 RU1901165	0.33	0.57	0.00	1.52	4.67	0.82	3.04	6.29
39 RU1902207	0.67	0.57	0.00	1.85	6.00	0.82	4.38	7.62
40 RU2002166	2.33	0.57	1.15	3.52	2.67	0.82	1.04	4.29
41 RU2101234	1.00	0.57	0.00	2.19	0.00	0.82	0.00	1.62
42 RU2102066	1.33	0.57	0.15	2.52	5.33	0.82	3.71	6.96
43 RU2102070	1.00	0.57	0.00	2.19	5.67	0.82	4.04	7.29
44 RU2102150	0.33	0.57	0.00	1.52	4.33	0.82	2.71	5.96
45 RU2102186	0.33	0.57	0.00	1.52	5.48	1.01	3.48	7.48
46 RU2102217	1.67	0.57	0.48	2.85	5.00	0.82	3.38	6.62
47 RU2201021	3.00	0.57	1.81	4.19	1.00	0.82	0.00	2.62
48 RU2301022	2.00	0.57	0.81	3.19	6.33	0.82	4.71	7.96
49 Taurus	0.67	0.57	0.00	1.85	3.67	0.82	2.04	5.29
50 Titan	1.33	0.57	0.15	2.52	6.33	0.82	4.71	7.96

3.1.2. Pre-Commercial

Table 3. Pre-Commercial row-plot trials for sheath blight and narrow brown estimate severity (SEV), standard error (SE), and lower and upper range of 95% confidence interval, Crowley, LA, 2023. Disease rate on 0 to 9 scale, with 0 representing no disease and 9 maximum disease severity. Sheath blight and narrow brown leaf spot (cercospora) data from different trials. Other diseases failed to develop on significant levels.

	Genotypes	Sheath Blight SEV	Sheath Blight SE	Sheath Blight 95% CI Lower	Sheath Blight 95% CI Upper	Narrow Brown Leaf Spot SEV	Narrow Brown Leaf Spot SE	Narrow Brown Leaf Spot 95% CI Lower	Narrow Brown Leaf Spot 95% CI Upper
1	201L1251	3.00	0.54	1.92	4.08	5.50	0.68	4.13	6.87
2	203L1104	1.00	0.54	0.00	2.08	0.67	0.55	0.00	1.77
3	22AR147	1.50	0.54	0.42	2.58	4.33	0.55	3.23	5.43
4	23AR2205	1.00	0.54	0.00	2.08	5.67	0.55	4.57	6.77
5	CLL16	1.00	0.54	0.00	2.08	2.00	0.55	0.90	3.10
6	CLL18	2.00	0.54	0.92	3.08	2.00	0.55	0.90	3.10
7	CLL19	3.50	0.54	2.42	4.58	6.67	0.55	5.57	7.77
8	DG263L	2.50	0.54	1.42	3.58	0.00	0.55	0.00	1.10
9	DG3H2004	1.00	0.54	0.00	2.08	0.33	0.55	0.00	1.43
10	DG3H2007	1.25	0.54	0.17	2.33	1.00	0.55	0.00	2.10
11	DG3H20363	0.75	0.54	0.00	1.83	0.00	0.55	0.00	1.10
12	DG3H20401	1.50	0.54	0.42	2.58	0.00	0.68	0.00	1.37
13	DG3H20402	1.00	0.54	0.00	2.08	0.33	0.55	0.00	1.43
14	Jupiter	1.75	0.54	0.67	2.83	7.00	0.55	5.90	8.10
15	PVL03	2.00	0.54	0.92	3.08	5.33	0.55	4.23	6.43
16	RU2101234	0.75	0.54	0.00	1.83	0.00	0.55	0.00	1.10
17	RU2102070	2.30	0.63	1.05	3.55	4.67	0.55	3.57	5.77
18	RU2102150	3.00	0.54	1.92	4.08	5.00	0.55	3.90	6.10
19	RU2102186	1.64	0.63	0.39	2.89	4.67	0.55	3.57	5.77
20	RU2102217	3.50	0.54	2.42	4.58	4.67	0.55	3.57	5.77
21	RU2201020	0.60	0.63	0.00	1.85	3.33	0.55	2.23	4.43
22	RU2201021	2.50	0.54	1.42	3.58	1.00	0.55	0.00	2.10
23	RU2202037	1.00	0.54	0.00	2.08	5.00	0.55	3.90	6.10
24	RU2301022	2.00	0.54	0.92	3.08	7.67	0.55	6.57	8.77
25	XP753	1.60	0.63	0.35	2.85	0.67	0.55	0.00	1.77

3.1.3. URRN

Table 4. Uniform Regional Rice Nursery (URRN) row-plot trials for sheath blight and narrow brown estimate severity (SEV), standard error (SE), and lower and upper range of 95% confidence interval, Crowley, LA, 2023. Disease rate on 0 to 9 scale, with 0 representing no disease and 9 maximum disease severity. Sheath blight and narrow brown leaf spot (cercospora) data from different trials. Other diseases failed to develop on significant levels.

	Genotypes	Sheath Blight SEV	Sheath Blight SE	Sheath Blight 95% CI Lower	Sheath Blight 95% CI Upper	Narrow Brown Leaf Spot SEV	Narrow Brown Leaf Spot SE	Narrow Brown Leaf Spot 95% CI Lower	Narrow Brown Leaf Spot 95% CI Upper
1	171L1718	2.50	0.74	1.03	3.97	7.67	0.60	6.48	8.85
2	191M1068	4.00	0.74	2.53	5.47	6.00	0.60	4.81	7.19
3	192L1166	5.00	0.74	3.53	6.47	5.33	0.60	4.15	6.52
4	192L1687	6.00	0.74	4.53	7.47	6.00	0.60	4.81	7.19
5	203L1104	2.50	0.74	1.03	3.97	2.00	0.60	0.81	3.19
6	213L1140	6.00	0.74	4.53	7.47	2.67	0.60	1.48	3.85
7	BBC30	2.50	0.74	1.03	3.97	6.26	1.02	4.24	8.28
8	Cheniere	4.00	0.74	2.53	5.47	4.87	0.73	3.43	6.31
9	CLL16	1.50	0.74	0.03	2.97	3.00	0.60	1.81	4.19
10	CLL19	6.50	0.74	5.03	7.97	6.00	0.60	4.81	7.19
11	CLM04	1.50	0.74	0.03	2.97	5.67	0.60	4.48	6.85
12	DG263L	3.10	0.58	1.93	4.27	0.67	0.44	0.00	1.54
13	DG3H2007	2.25	0.74	0.78	3.72	1.33	0.60	0.15	2.52
14	DG3H20397	1.94	0.84	0.27	3.62	1.67	0.60	0.48	2.85
15	DG3H20402	1.25	0.74	0.00	2.72	1.67	0.60	0.48	2.85
16	Jupiter	1.50	0.74	0.03	2.97	6.67	0.60	5.48	7.85
17	Leland	1.75	0.74	0.28	3.22	6.33	0.60	5.15	7.52
18	LJ110	0.57	0.84	0.00	2.24	1.33	0.60	0.15	2.52
19	LJ193	0.75	0.74	0.00	2.22	0.33	0.60	0.00	1.52
20	Presidio	2.50	0.74	1.03	3.97	0.33	0.60	0.00	1.52
21	PVL03	4.50	0.74	3.03	5.97	6.00	0.60	4.81	7.19
22	RU1904139	1.57	0.84	0.00	3.24	1.33	0.60	0.15	2.52
23	RU1904163	1.25	0.74	0.00	2.72	1.33	0.60	0.15	2.52
24	RU2003220	4.00	0.74	2.53	5.47	5.67	0.60	4.48	6.85
25	RU2004071	2.00	0.74	0.53	3.47	4.00	0.60	2.81	5.19
26	RU2004091	1.57	0.84	0.00	3.24	7.00	0.60	5.81	8.19
27	RU2004191	3.50	0.74	2.03	4.97	3.56	0.73	2.12	5.00
28	RU2004195	4.00	0.74	2.53	5.47	4.33	0.60	3.15	5.52
29	RU2103124	1.00	0.74	0.00	2.47	0.67	0.60	0.00	1.85
30	RU2103172	0.24	0.84	0.00	1.91	0.00	0.60	0.00	1.19
31	RU2104087	3.50	0.74	2.03	4.97	6.00	0.60	4.81	7.19
32	RU2104099	4.00	0.74	2.53	5.47	6.67	0.60	5.48	7.85
33	RU2201021	5.00	0.74	3.53	6.47	1.00	0.60	0.00	2.19
34	RU2203006	3.50	0.74	2.03	4.97	2.33	0.60	1.15	3.52

Continued.

Genotypes	Sheath Blight SEV	Sheath Blight SE	Sheath Blight 95% CI Lower	Sheath Blight 95% CI Upper	Narrow Brown Leaf Spot SEV	Narrow Brown Leaf Spot SE	Narrow Brown Leaf Spot 95% CI Lower	Narrow Brown Leaf Spot 95% CI Upper
35 RU2203034	1.00	0.74	0.00	2.47	0.33	0.60	0.00	1.52
36 RU2301019	3.00	0.74	1.53	4.47	6.33	0.60	5.15	7.52
37 RU2301020	3.50	0.74	2.03	4.97	6.00	0.60	4.81	7.19
38 RU2301022	3.00	0.74	1.53	4.47	8.00	0.60	6.81	9.19
39 RU2301023	2.50	0.74	1.03	3.97	2.67	0.60	1.48	3.85
40 RU2301024	1.75	0.74	0.28	3.22	6.00	0.60	4.81	7.19
41 RU2301043	1.00	0.74	0.00	2.47	8.00	0.60	6.81	9.19
42 RU2301044	2.50	0.74	1.03	3.97	4.33	0.60	3.15	5.52
43 RU2301045	2.00	0.74	0.53	3.47	1.67	0.60	0.48	2.85
44 RU2301046	0.75	0.74	0.00	2.22	8.33	0.60	7.15	9.52
45 RU2303001	1.57	0.84	0.00	3.24	0.33	0.60	0.00	1.52
46 RU2303002	1.50	0.74	0.03	2.97	0.33	0.60	0.00	1.52
47 RU2303031	1.25	0.74	0.00	2.72	0.33	0.60	0.00	1.52
48 RU2303032	1.50	0.74	0.03	2.97	0.33	0.60	0.00	1.52
49 Trinity	3.60	0.84	1.92	5.27	0.67	0.60	0.00	1.85

3.1.4. AYT-Conventional

Table 5. Advanced Yield Trials - Conventional (AYT-CN) row-plot trials for sheath blight and narrow brown estimate severity (SEV), standard error (SE), and lower and upper range of 95% confidence interval, Crowley, LA, 2023. Disease rate on 0 to 9 scale, with 0 representing no disease and 9 maximum disease severity. Sheath blight and narrow brown leaf spot (cercospora) data from different trials. Other diseases failed to develop on significant levels.

	Genotypes	Sheath Blight SEV	Sheath Blight SE	Sheath Blight 95% CI Lower	Sheath Blight 95% CI Upper	Narrow Brown Leaf Spot SEV	Narrow Brown Leaf Spot SE	Narrow Brown Leaf Spot 95% CI Lower	Narrow Brown Leaf Spot 95% CI Upper
1	201L1251	8.33	0.65	7.02	9.65	5.05	0.94	3.15	6.95
2	201L1288	5.00	0.65	3.69	6.31	6.67	0.77	5.12	8.21
3	201L1324	8.33	0.65	7.02	9.65	5.67	0.77	4.12	7.21
4	201M1065	5.00	0.65	3.69	6.31	6.33	0.77	4.79	7.88
5	211L1008	6.33	0.65	5.02	7.65	6.00	0.77	4.46	7.54
6	211L1032	5.00	0.65	3.69	6.31	7.33	0.77	5.79	8.88
7	211L1056	9.00	0.65	7.69	10.31	5.00	0.77	3.46	6.54
8	211L1070	7.67	0.65	6.35	8.98	6.00	0.77	4.46	7.54
9	211L1154	6.33	0.65	5.02	7.65	5.67	0.77	4.12	7.21
10	211L1225	7.00	0.65	5.69	8.31	6.00	0.77	4.46	7.54
11	211L1227	6.33	0.65	5.02	7.65	4.54	0.94	2.64	6.44
12	211L1228	4.33	0.65	3.02	5.65	8.00	0.77	6.46	9.54
13	211L1232	8.33	0.65	7.02	9.65	5.00	0.77	3.46	6.54
14	211L1267	3.67	0.65	2.35	4.98	7.33	0.77	5.79	8.88
15	211L1331	7.67	0.65	6.35	8.98	5.67	0.77	4.12	7.21
16	Avant	7.67	0.65	6.35	8.98	5.00	0.77	3.46	6.54
17	Cheniere	9.00	0.65	7.69	10.31	4.41	0.94	2.51	6.31
18	DG263L	6.33	0.65	5.02	7.65	0.67	0.77	0.00	2.21
19	Jupiter	3.67	0.65	2.35	4.98	7.00	0.77	5.46	8.54
20	RU1902207	5.67	0.65	4.35	6.98	6.41	0.94	4.51	8.31
21	RU2102037	7.67	0.65	6.35	8.98	5.67	0.77	4.12	7.21
22	RU2102066	5.67	0.65	4.35	6.98	7.00	0.77	5.46	8.54
23	RU2102070	7.00	0.65	5.69	8.31	6.00	0.77	4.46	7.54
24	RU2102158	3.67	0.65	2.35	4.98	4.67	0.77	3.12	6.21
25	RU2201020	4.33	0.65	3.02	5.65	3.33	0.77	1.79	4.88

3.1.5. AYT-Clearfield

Table 6. Advanced Yield Trials - Clearfield (AYT-CL) row-plot trials for sheath blight and narrow brown estimate severity (SEV), standard error (SE), and lower and upper range of 95% confidence interval, Crowley, LA, 2023. Disease rate on 0 to 9 scale, with 0 representing no disease and 9 maximum disease severity. Sheath blight and narrow brown leaf spot (cercospora) data from different trials. Other diseases failed to develop on significant levels.

	Genotypes	Sheath Blight SEV	Sheath Blight SE	Sheath Blight 95% CI Lower	Sheath Blight 95% CI Upper	Narrow Brown Leaf Spot SEV	Narrow Brown Leaf Spot SE	Narrow Brown Leaf Spot 95% CI Lower	Narrow Brown Leaf Spot 95% CI Upper
1	202L2082	7.67	1.10	5.46	9.88	5.00	0.88	3.22	6.78
2	202L2096	3.00	1.10	0.79	5.21	7.42	1.07	5.27	9.57
3	202L2141	3.67	1.10	1.46	5.88	7.67	0.88	5.89	9.44
4	20LXM006	7.33	1.10	5.12	9.54	5.67	0.88	3.89	7.44
5	212L2014	5.33	1.10	3.12	7.54	5.67	0.88	3.89	7.44
6	212L2252	7.67	1.10	5.46	9.88	3.23	1.07	1.08	5.38
7	212L2254	6.33	1.10	4.12	8.54	5.00	0.88	3.22	6.78
8	212L2305	8.33	1.10	6.12	10.54	6.33	0.88	4.56	8.11
9	212M1076	3.67	1.10	1.46	5.88	5.33	0.88	3.56	7.11
10	212M1144	3.00	1.10	0.79	5.21	4.33	0.88	2.56	6.11
11	BBC30-1	5.00	1.10	2.79	7.21	3.67	0.88	1.89	5.44
12	CLJ01	6.33	1.10	4.12	8.54	4.67	0.88	2.89	6.44
13	CLL16	3.00	1.10	0.79	5.21	2.33	0.88	0.56	4.11
14	CLL18	4.33	1.10	2.12	6.54	3.67	0.88	1.89	5.44
15	CLL19	7.67	1.10	5.46	9.88	5.67	0.88	3.89	7.44
16	CLM04	3.00	1.10	0.79	5.21	4.33	0.88	2.56	6.11
17	MPB_113	5.67	1.10	3.46	7.88	6.33	0.88	4.56	8.11
18	RU1902034	8.33	1.10	6.12	10.54	4.67	0.88	2.89	6.44
19	RU2101208	6.33	1.10	4.12	8.54	7.00	0.88	5.22	8.78
20	RU2101234	7.67	1.10	5.46	9.88	1.33	0.88	0.00	3.11
21	RU2102150	7.67	1.10	5.46	9.88	6.33	0.88	4.56	8.11
22	RU2102217	8.33	1.10	6.12	10.54	5.33	0.88	3.56	7.11
23	RU2102222	6.33	1.10	4.12	8.54	5.67	0.88	3.89	7.44
24	RU2202037	4.33	1.10	2.12	6.54	5.00	0.88	3.22	6.78
25	RU2301022	3.67	1.10	1.46	5.88	3.33	0.88	1.56	5.11

3.1.6. AYT-Provisia

Table 7. Advanced Yield Trials - Provisia (AYT-PV) row-plot trials for sheath blight and narrow brown estimate severity (SEV), standard error (SE), and lower and upper range of 95% confidence interval, Crowley, LA, 2023. Disease rate on 0 to 9 scale, with 0 representing no disease and 9 maximum disease severity. Sheath blight and narrow brown leaf spot (cercospora) data from different trials. Other diseases failed to develop on significant levels.

	Genotypes	Sheath Blight SEV	Sheath Blight SE	Sheath Blight 95% CI Lower	Sheath Blight 95% CI Upper	Narrow Brown Leaf Spot SEV	Narrow Brown Leaf Spot SE	Narrow Brown Leaf Spot 95% CI Lower	Narrow Brown Leaf Spot 95% CI Upper
1	203L1104	3.67	0.89	1.77	5.56	0.67	1.09	0.00	2.92
2	213L1041	7.00	0.89	5.10	8.90	5.00	1.09	2.74	7.26
3	213L1130	5.67	0.89	3.77	7.56	4.20	1.33	1.45	6.94
4	213L1135	5.67	0.89	3.77	7.56	5.33	1.09	3.08	7.59
5	213L1140	8.33	0.89	6.44	10.23	2.33	1.09	0.08	4.59
6	213L1183	7.00	0.89	5.10	8.90	6.33	1.09	4.08	8.59
7	213L1237	7.67	0.89	5.77	9.56	6.00	1.09	3.74	8.26
8	213L1247	3.67	0.89	1.77	5.56	5.67	1.09	3.41	7.92
9	213L1268	9.00	0.89	7.10	10.90	7.20	1.33	4.45	9.94
10	PVL03	6.33	0.89	4.44	8.23	5.20	1.33	2.45	7.94
11	RU2002070	3.00	0.89	1.10	4.90	4.00	1.09	1.74	6.26
12	RU2002174	2.33	0.89	0.44	4.23	3.00	1.09	0.74	5.26
13	RU2102186	6.33	0.89	4.44	8.23	6.67	1.09	4.41	8.92
14	RU2201021	6.33	0.89	4.44	8.23	3.67	1.09	1.41	5.92

3.1.7. RYT-Conventional

Table 8. Regional Yield Trials - Conventional (RYT-CN) row-plot trials for sheath blight estimate severity (SEV), standard error (SE), and lower and upper range of 95% confidence interval, Crowley, LA, 2023. Disease rate on 0 to 9 scale, with 0 representing no disease and 9 maximum disease severity. Narrow brown leaf spot (cercospora) was not rated due to advanced senescence. Other diseases failed to develop on significant levels.

	Genotypes	Sheath Blight SEV	Sheath Blight SE	Sheath Blight 95% CI Lower	Sheath Blight 95% CI Upper		Genotypes	Sheath Blight SEV	Sheath Blight SE	Sheath Blight 95% CI Lower	Sheath Blight 95% CI Upper
1	19T-176-CONV-3	2.33	1.22	0.00	4.78	34	221L1001	8.33	1.22	5.89	9.00
2	19T-176-CONV-6	3.00	1.22	0.56	5.44	35	221L1002	5.00	1.22	2.56	7.44
3	19T-217-39	4.33	1.22	1.89	6.78	36	221L1013	6.33	1.22	3.89	8.78
4	19T-217-69	8.33	1.22	5.89	9.00	37	221L1015	8.33	1.22	5.89	9.00
5	19T-217-71	5.67	1.22	3.22	8.11	38	221L1024	5.00	1.22	2.56	7.44
6	19T-217-74	6.33	1.22	3.89	8.78	39	221L1032	2.33	1.22	0.00	4.78
7	19T-218-19	3.00	1.22	0.56	5.44	40	221L1060	9.00	1.22	6.56	9.00
8	19T-218-30	5.67	1.22	3.22	8.11	41	221L1061	5.67	1.22	3.22	8.11
9	19T-218-42	5.00	1.22	2.56	7.44	42	221L1087	6.33	1.22	3.89	8.78
10	19T-218-43	5.00	1.22	2.56	7.44	43	221L1099	7.67	1.22	5.22	9.00
11	19T-218-45	7.67	1.22	5.22	9.00	44	221L1126	4.33	1.22	1.89	6.78
12	19T-218-86	5.00	1.22	2.56	7.44	45	221L1143	5.00	1.22	2.56	7.44
13	19T-218-87	5.67	1.22	3.22	8.11	46	221L1150	7.00	1.22	4.56	9.00
14	19T-218-91	5.00	1.22	2.56	7.44	47	221L1182	5.00	1.22	2.56	7.44
15	19T-220-94	5.67	1.22	3.22	8.11	48	221L1202	7.00	1.22	4.56	9.00
16	19T-238-13	4.33	1.22	1.89	6.78	49	221L1203	7.00	1.22	4.56	9.00
17	19T-238-3	4.33	1.22	1.89	6.78	50	221M1016	1.67	1.22	0.00	4.11
18	19T-238-33	5.67	1.22	3.22	8.11	51	221M1021	5.67	1.22	3.22	8.11
19	19T-238-34	3.00	1.22	0.56	5.44	52	221M1033	5.67	1.22	3.22	8.11
20	19T-238-62	7.67	1.22	5.22	9.00	53	221M1041	5.00	1.22	2.56	7.44
21	19T-238-73	7.67	1.22	5.22	9.00	54	221M1083	3.00	1.22	0.56	5.44
22	201L1251	6.33	1.22	3.89	8.78	55	221M1095	2.33	1.22	0.00	4.78
23	20T-071-25	6.33	1.22	3.89	8.78	56	Avant	7.00	1.22	4.56	9.00
24	20T-071-40	9.00	1.22	6.56	9.00	57	Cheniere	6.37	1.47	3.44	9.00
25	20T-071-42	7.67	1.22	5.22	9.00	58	DG263L	2.33	1.22	0.00	4.78
26	20T-071-53	6.33	1.22	3.89	8.78	59	Jupiter	3.67	1.22	1.22	6.11
27	20T-073-16	9.00	1.22	6.56	9.00	60	MP6_060	7.00	1.22	4.56	9.00
28	20T-155-08	5.00	1.22	2.56	7.44	61	MP6_244	5.00	1.22	2.56	7.44
29	20T-155-85	7.00	1.22	4.56	9.00	62	MP6_292	5.67	1.22	3.22	8.11
30	20T-156-82	5.67	1.22	3.22	8.11	63	MP6_295	5.67	1.22	3.22	8.11
31	20T-177-84	4.33	1.22	1.89	6.78	64	RU1902207	4.33	1.22	1.89	6.78
32	211L1124	1.67	1.22	0.00	4.11	65	Taurus	4.33	1.22	1.89	6.78
33	211L1293	3.00	1.22	0.56	5.44	66	Titan	6.33	1.22	3.89	8.78

3.1.8. RYT-Clearfield

Table 9. Regional Yield Trials - Clearfield (RYT-CL) row-plot trials for sheath blight estimate severity (SEV), standard error (SE), and lower and upper range of 95% confidence interval, Crowley, LA, 2023. Disease rate on 0 to 9 scale, with 0 representing no disease and 9 maximum disease severity. Narrow brown leaf spot (cercospora) was not rated due to advanced senescence. Other diseases failed to develop on significant levels.

	Genotypes	Sheath Blight SEV	Sheath Blight SE	Sheath Blight 95% CI Lower	Sheath Blight 95% CI Upper		Genotypes	Sheath Blight SEV	Sheath Blight SE	Sheath Blight 95% CI Lower	Sheath Blight 95% CI Upper
1	18T196-10	1.67	1.28	0.00	4.32	31	222L1075	6.33	1.28	3.68	8.99
2	19T-029-24	5.67	1.28	3.01	8.32	32	222L1077	3.67	1.28	1.01	6.32
3	19T-029-4	3.67	1.28	1.01	6.32	33	222L1079	1.67	1.28	0.00	4.32
4	19T-030-24	7.67	1.28	5.01	9.00	34	222L1082	3.00	1.28	0.35	5.65
5	19T-030-46	7.00	1.28	4.35	9.00	35	222L1085	6.33	1.28	3.68	8.99
6	19T-030-74	6.33	1.28	3.68	8.99	36	222L1087	3.67	1.28	1.01	6.32
7	19T-033-31	6.33	1.28	3.68	8.99	37	222L1118	5.67	1.28	3.01	8.32
8	19T-033-35	4.33	1.28	1.68	6.99	38	222L1121	3.67	1.28	1.01	6.32
9	19T-033-38	5.00	1.28	2.35	7.65	39	222L1124	5.67	1.28	3.01	8.32
10	19T-033-63	3.67	1.28	1.01	6.32	40	222L1126	4.67	1.28	2.01	7.32
11	19T-033-66	7.67	1.28	5.01	9.00	41	222L1131	3.00	1.28	0.35	5.65
12	19T-053-13	6.33	1.28	3.68	8.99	42	222L1143	1.00	1.28	0.00	3.65
13	19T-106-CL-57	3.67	1.28	1.01	6.32	43	222L1147	3.00	1.28	0.35	5.65
14	19T-106-CL-71	4.33	1.28	1.68	6.99	44	222L1149	2.33	1.28	0.00	4.99
15	19T-140-74	7.00	1.28	4.35	9.00	45	222L1161	2.00	1.28	0.00	4.65
16	19T-140-79	5.67	1.28	3.01	8.32	46	222L1190	1.00	1.28	0.00	3.65
17	19T-176-CL-88	1.00	1.28	0.00	3.65	47	222M1015	1.00	1.28	0.00	3.65
18	19T-176-CONV-38	3.00	1.28	0.35	5.65	48	222M1096	5.00	1.28	2.35	7.65
19	19T-183-CL-13	4.33	1.28	1.68	6.99	49	222M1097	1.33	1.28	0.00	3.99
20	19T-183-CL-16	2.33	1.28	0.00	4.99	50	222M1098	0.67	1.28	0.00	3.32
21	19T-183-CL-6	2.33	1.28	0.00	4.99	51	CLL16	3.00	1.28	0.35	5.65
22	202L2109	3.00	1.28	0.35	5.65	52	CLL18	3.00	1.28	0.35	5.65
23	202L2141	3.00	1.28	0.35	5.65	53	CLL19	7.67	1.28	5.01	9.00
24	222L1038	4.33	1.28	1.68	6.99	54	CLM04	1.67	1.28	0.00	4.32
25	222L1044	3.00	1.28	0.35	5.65	55	MP6_157	6.33	1.28	3.68	8.99
26	222L1045	2.33	1.28	0.00	4.99	56	MP6_219	3.67	1.28	1.01	6.32
27	222L1057	5.00	1.28	2.35	7.65	57	MP6_392	2.33	1.28	0.00	4.99
28	222L1058	3.00	1.28	0.35	5.65	58	MP6_397	7.00	1.28	4.35	9.00
29	222L1071	5.67	1.28	3.01	8.32	59	MP6_434	0.67	1.28	0.00	3.32
30	222L1074	4.33	1.28	1.68	6.99	60	RU2102150	4.33	1.28	1.68	6.99

3.1.9. RYT-Provisia

Table 10. Regional Yield Trials - Provisia (RYT-PV) row-plot trials for sheath blight estimate severity (SEV), standard error (SE), and lower and upper range of 95% confidence interval, Crowley, LA, 2023. Disease rate on 0 to 9 scale, with 0 representing no disease and 9 maximum disease severity. Narrow brown leaf spot (cercospora) was not rated due to advanced senescence. Other diseases failed to develop on significant levels.

	Genotypes	Sheath Blight SEV	Sheath Blight SE	Sheath Blight 95% CI Lower	Sheath Blight 95% CI Upper		Genotypes	Sheath Blight SEV	Sheath Blight SE	Sheath Blight 95% CI Lower	Sheath Blight 95% CI Upper
1	19T-262-128	9.00	1.12	6.77	9.00	19	223L1147	7.00	1.12	4.77	9.00
2	19T-262-184	5.00	1.12	2.77	7.23	20	223L1148	3.67	1.12	1.44	5.89
3	19T-262-191	7.00	1.12	4.77	9.00	21	223L1173	3.96	1.37	1.23	6.70
4	19T-262-239	5.67	1.12	3.44	7.89	22	223L1183	5.67	1.12	3.44	7.89
5	19T-262-244	5.00	1.12	2.77	7.23	23	223L1184	5.00	1.12	2.77	7.23
6	19T-262-278	5.67	1.12	3.44	7.89	24	223L1191	4.33	1.12	2.11	6.56
7	19T-262-62	9.00	1.12	6.77	9.00	25	223L1196	7.67	1.12	5.44	9.00
8	19T-262-76	7.00	1.12	4.77	9.00	26	223L1212	3.67	1.12	1.44	5.89
9	203L1104	5.00	1.12	2.77	7.23	27	223L1213	5.67	1.12	3.44	7.89
10	223L1001	5.00	1.12	2.77	7.23	28	223L1216	6.33	1.12	4.11	8.56
11	223L1027	7.67	1.12	5.44	9.00	29	223L1218	5.00	1.12	2.77	7.23
12	223L1037	5.67	1.12	3.44	7.89	30	223L1221	6.33	1.12	4.11	8.56
13	223L1064	5.00	1.12	2.77	7.23	31	223L1236	5.00	1.12	2.77	7.23
14	223L1065	7.67	1.12	5.44	9.00	32	223L1247	7.00	1.12	4.77	9.00
15	223L1128	4.33	1.12	2.11	6.56	33	PVL03	5.67	1.12	3.44	7.89
16	223L1133	7.00	1.12	4.77	9.00	34	RU2102186	5.00	1.12	2.77	7.23
17	223L1139	5.67	1.12	3.44	7.89	35	RU2201021	5.67	1.12	3.44	7.89
18	223L1145	3.67	1.12	1.44	5.89						

Yield-plots

Yield-plots trials quantify yield and grain quality tolerance to sheath blight. Tolerance can be defined as the capacity of a plant to maintain yield, or grain quality, under disease presence. This information is not possible to capture on other trial settings. The study is replicated on two planting days, one in the middle of March and the other in the middle of April to capture the stability and influence of the weather in the results. The plots' dimensions were 4.6 by 16 feet, with four replications in a RCBD and inoculated with sheath blight. Plants were rated for sheath blight using a 0 to 9 scale. The crop was harvested, and the grain yield was adjusted to 12% moisture. Milling quality, total, and whole grain, were also quantified. Other diseases were not expressive in the field and were not rated.

Table 11. Summary of material and methods applied to yield-plots.

Planting Date:	March 16th (First field) and April 19th (Third field)
Water Management	*First Field* - Flooded: May 4; Drained: July 21 *Second Field* - Flooded: May 26; Drained: Aug 11
Fertilization	Pre-planting - 250 lb/A of 0-24-24; Preflood 300 lb/A 46-0-0 urea (Both fields)
Herbicides	*First Field:* • Propanil 3 qt/A, Prowl 1 qt/A, April 4 • Propanil 4 qt/A, Facet L 1 qt/A, Gambit 1.5 oz/A, Crop Oil 16 fl oz/A, May 1 *Second Field:* • Command 8 fl oz/A, May 17 • Propanil 3 qt/A, Gambit 1.5 oz/A, and Prowl 1 qt/A, May 29 • Propanil 4 qt/A, Facet (granular) 0.5 lbs/A, Crop Oil 16 fl oz/A, June 9
Insecticides	Dermacor X-100 seed treatment
Inoculation	*First Field*: • *Rhizoctonia solani* culture grown on rice grain/hull mixture, May 25; *Second Field*: • *Rhizoctonia solani* culture grown on rice grain/hull mixture, June 19
Ratings	*First Field*: Sheath: July 28 *Second Field:* Sheath blight: August 9
Harvest	*First Field*: August 3 *Second Field:* August 22

3.2.1. Variety Trials

Table 12. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for sheath blight severity, grain yield, and milling yield (total and whole grain [head]) in the **Variety** study planted on March 16 (**First Field**). Crowley, LA, 2023.

Genotype	Sheath Blight (0-9) Est	Sheath Blight (0-9) SE	Sheath Blight (0-9) Lower	Sheath Blight (0-9) Upper	Grain Yield (lb/A) Est	Grain Yield (lb/A) SE	Grain Yield (lb/A) Lower	Grain Yield (lb/A) Upper	Milling Yield Total (%) Est	Milling Yield Total (%) SE	Milling Yield Total (%) Lower	Milling Yield Total (%) Upper	Milling Yield Head (%) Est	Milling Yield Head (%) SE	Milling Yield Head (%) Lower	Milling Yield Head (%) Upper
AddiJo	6.80	0.57	5.60	7.90	9071	242	8592	9550	70.50	0.53	69.50	71.50	58.80	1.22	56.40	61.20
Aroma22	2.00	0.57	0.80	3.10	7970	242	7491	8449	70.60	0.53	69.50	71.60	62.80	1.22	60.40	65.20
Avant	6.40	0.65	5.10	7.60	9426	277	8878	9974	70.30	0.61	69.10	71.50	55.60	1.41	52.80	58.40
BBC30-1	6.80	0.57	5.70	8.00	10110	242	9631	10589	70.70	0.53	69.70	71.80	63.00	1.22	60.60	65.40
Bengal	3.80	0.57	2.70	5.00	9141	242	8662	9620	70.50	0.53	69.50	71.50	67.00	1.22	64.60	69.40
Cheniere	6.40	0.57	5.30	7.50	8425	242	7946	8904	73.40	0.53	72.30	74.40	67.60	1.22	65.20	70.00
CL111	7.90	0.57	6.80	9.00	8912	242	8433	9390	71.70	0.53	70.70	72.70	56.90	1.22	54.50	59.30
CL151	6.80	0.57	5.60	7.90	8784	242	8306	9263	70.70	0.53	69.60	71.70	61.60	1.22	59.20	64.00
CL153	7.50	0.57	6.40	8.60	8770	242	8291	9249	70.60	0.53	69.50	71.60	62.20	1.22	59.80	64.60
CLHA02	6.90	0.57	5.80	8.00	9054	242	8575	9533	71.10	0.53	70.00	72.10	61.90	1.22	59.50	64.30
CLJ01	5.00	0.57	3.90	6.10	8519	242	8040	8998	71.10	0.53	70.10	72.10	66.20	1.22	63.70	68.60
CLL16	5.80	0.57	4.70	7.00	10284	242	9805	10763	67.80	0.53	66.80	68.90	52.20	1.22	49.80	54.60
CLL17	8.00	0.57	6.90	9.00	8531	242	8052	9010	70.10	0.53	69.10	71.20	60.80	1.22	58.40	63.20
CLL18	7.30	0.57	6.20	8.50	10476	242	9997	10955	67.90	0.53	66.90	68.90	53.20	1.22	50.80	55.60
CLL19	6.60	0.57	5.50	7.70	9759	242	9280	10238	70.30	0.53	69.30	71.40	56.80	1.22	54.40	59.20
CLM04	4.60	0.57	3.50	5.70	10267	242	9788	10746	71.30	0.53	70.30	72.40	64.90	1.22	62.50	67.30
Della2	7.20	0.57	6.00	8.30	8411	242	7932	8890	68.00	0.53	67.00	69.10	59.20	1.22	56.80	61.60
DG263L	7.60	0.57	6.50	8.70	9220	242	8741	9699	67.50	0.53	66.40	68.50	54.60	1.22	52.10	57.00
DG3H2004	2.10	0.57	1.00	3.20	12828	242	12349	13306	69.10	0.53	68.00	70.10	54.80	1.22	52.40	57.20
DG3H2007	3.60	0.57	2.50	4.70	12390	242	11911	12869	67.30	0.53	66.30	68.30	49.80	1.22	47.40	52.20
DG3H20363	3.60	0.57	2.50	4.80	13051	242	12572	13530	67.90	0.53	66.90	68.90	51.20	1.22	48.80	53.60
DG3H20397	3.30	0.57	2.20	4.40	11845	242	11366	12324	70.40	0.53	69.40	71.50	57.00	1.22	54.60	59.40
DG3H20402	3.80	0. 57	2.60	4.90	12240	242	11761	12719	69.40	0.53	68.40	70.40	54.20	1.22	51.80	56.60
DGM004	4.40	0.57	3.30	5.50	8694	242	8215	9173	69.70	0.53	68.70	70.80	61.30	1.22	58.90	63.70

Continued.

Table 12. Continued.

Genotype	Sheath Blight (0-9) Est	Sheath Blight (0-9) SE	Sheath Blight (0-9) Lower	Sheath Blight (0-9) Upper	Grain Yield (lb/A) Est	Grain Yield (lb/A) SE	Grain Yield (lb/A) Lower	Grain Yield (lb/A) Upper	Milling Yield Total (%) Est	Milling Yield Total (%) SE	Milling Yield Total (%) Lower	Milling Yield Total (%) Upper	Milling Yield Head (%) Est	Milling Yield Head (%) SE	Milling Yield Head (%) Lower	Milling Yield Head (%) Upper
Frontier	6.50	0.57	5.40	7.60	7663	242	7184	8142	70.40	0.53	69.30	71.40	64.40	1.22	61.90	66.80
Jazzman	3.60	0.57	2.50	4.70	8198	242	7719	8677	70.60	0.53	69.60	71.70	65.30	1.22	62.80	67.70
Jupiter	6.10	0.57	5.00	7.20	9335	242	8856	9814	67.90	0.53	66.80	68.90	64.60	1.22	62.20	67.00
Mermentau	7.10	0.57	6.00	8.20	8742	242	8263	9221	71.00	0.53	70.00	72.00	62.20	1.22	59.80	64.60
Ozark	5.00	0.57	3.90	6.10	9923	242	9444	10402	68.30	0.53	67.20	69.30	52.40	1.22	50.00	54.80
Presidio	6.00	0.57	4.90	7.10	8217	242	7738	8696	68.00	0.53	66.90	69.00	48.90	1.22	46.50	51.30
PVL03	8.30	0.57	7.10	9.00	8487	242	8008	8966	70.10	0.53	69.10	71.10	57.70	1.22	55.20	60.10
PVL04	8.20	0.57	7.00	9.00	7516	242	7037	7995	69.80	0.53	68.80	70.80	55.70	1.22	53.30	58.10
RT3002	0.80	0.57	0.00	1.90	12545	242	12066	13024	70.20	0.53	69.20	71.30	56.90	1.22	54.50	59.30
RT7302	1.10	0.57	0.00	2.20	13799	242	13320	14278	71.20	0.53	70.20	72.30	57.90	1.22	55.50	60.30
RT7331MA	1.50	0.57	0.40	2.60	12843	242	12364	13322	70.40	0.53	69.40	71.40	52.80	1.22	50.40	55.20
RT7421FP	1.30	0.57	0.20	2.50	13128	242	12649	13607	70.10	0.53	69.10	71.20	54.60	1.22	52.20	57.00
RT7431MA	1.80	0.57	0.70	2.90	12419	242	11940	12898	70.50	0.53	69.40	71.50	56.70	1.22	54.20	59.10
RT781	0.80	0.57	0.00	1.90	12902	242	12423	13381	69.90	0.61	68.70	71.10	56.70	1.41	54.00	59.50
RU1901165	6.70	0.57	5.60	7.80	9431	242	8952	9910	69.50	0.53	68.50	70.60	62.90	1.22	60.50	65.30
RU1902207	5.30	0.57	4.20	6.50	9286	242	8807	9764	71.70	0.53	70.60	72.70	63.20	1.22	60.70	65.60
RU2002166	8.00	0.57	6.90	9.00	8497	242	8018	8976	70.20	0.53	69.20	71.20	60.90	1.22	58.50	63.30
RU2101234	7.50	0.57	6.40	8.60	10061	242	9582	10540	67.60	0.53	66.50	68.60	62.10	1.22	59.60	64.50
RU2102066	5.20	0.57	4.00	6.30	10057	242	9578	10536	68.40	0.53	67.30	69.40	65.00	1.22	62.50	67.40
RU2102070	6.60	0.57	5.50	7.70	10299	242	9820	10778	67.10	0.53	66.10	68.10	59.50	1.22	57.10	61.90
RU2102150	6.20	0.65	4.90	7.50	9224	242	8745	9702	69.60	0.53	68.50	70.60	60.60	1.22	58.20	63.00
RU2102186	8.00	0.57	6.90	9.00	9424	242	8945	9903	71.00	0.53	70.00	72.10	60.90	1.22	58.50	63.30
RU2102217	8.30	0.57	7.20	9.00	10006	242	9527	10485	68.40	0.53	67.30	69.40	38.70	1.22	36.20	41.10
RU2301022	6.80	0.57	5.60	7.90	9505	242	9026	9984	71.80	0.53	70.80	72.80	64.40	1.22	62.00	66.80
Taurus	6.30	0.57	5.10	7.40	10677	242	10198	11156	69.80	0.53	68.80	70.90	61.60	1.22	59.20	64.00
Titan	6.00	0.57	4.90	7.20	9497	242	9018	9976	67.90	0.53	66.80	68.90	58.10	1.22	55.70	60.50

Table 13. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for sheath blight severity, grain yield, and milling yield (total and whole grain [head]) in the **Variety** study planted on April 19 (**Second Field**). Crowley, LA, 2023.

Genotype	Sheath Blight (0-9) Est	Sheath Blight (0-9) SE	Sheath Blight (0-9) Lower	Sheath Blight (0-9) Upper	Grain Yield (lb/A) Est	Grain Yield (lb/A) SE	Grain Yield (lb/A) Lower	Grain Yield (lb/A) Upper	Milling Yield Total (%) Est	Milling Yield Total (%) SE	Milling Yield Total (%) Lower	Milling Yield Total (%) Upper	Milling Yield Head (%) Est	Milling Yield Head (%) SE	Milling Yield Head (%) Lower	Milling Yield Head (%) Upper
AddiJo	4.60	0.53	3.50	5.60	6766	482	5652	7881	67.80	0.39	67.00	68.60	50.40	0.89	48.70	52.20
Aroma22	1.30	0.53	0.20	2.30	4966	482	3851	6080	66.60	0.39	65.80	67.40	50.20	0.89	48.40	52.00
Avant	4.00	0.53	3.00	5.10	8058	482	6943	9172	70.10	0.39	69.30	70.80	58.80	0.89	57.00	60.60
BBC30-1	3.50	0.53	2.50	4.60	6866	482	5751	7981	65.60	0.39	64.80	66.30	48.20	0.89	46.40	50.00
Bengal	1.30	0.53	0.30	2.40	5332	482	4218	6447	66.70	0.39	65.90	67.40	57.50	0.89	55.80	59.30
Cheniere	3.80	0.53	2.70	4.80	6097	482	4983	7212	72.00	0.39	71.20	72.70	63.20	0.89	61.50	65.00
CL111	7.20	0.53	6.10	8.20	6850	482	5735	7965	68.90	0.39	68.10	69.70	54.40	0.89	52.60	56.20
CL151	4.90	0.53	3.90	6.00	7615	482	6500	8729	69.60	0.39	68.80	70.40	58.90	0.89	57.10	60.60
CL153	6.20	0.53	5.10	7.20	7088	482	5973	8202	68.60	0.39	67.80	69.40	58.20	0.89	56.40	60.00
CLHA02	3.00	0.53	2.00	4.10	6836	482	5721	7950	68.40	0.39	67.60	69.20	55.50	0.89	53.70	57.20
CLJ01	3.80	0.53	2.70	4.80	5907	482	4792	7021	69.80	0.39	69.00	70.50	63.70	0.89	61.90	65.50
CLL16	3.80	0.53	2.80	4.90	7835	482	6720	8949	66.00	0.39	65.20	66.80	47.40	0.89	45.60	49.10
CLL17	7.00	0.53	6.00	8.10	6945	482	5830	8060	69.40	0.39	68.60	70.10	57.60	0.89	55.80	59.40
CLL18	3.80	0.53	2.80	4.90	9124	514	7981	10268	66.90	0.39	66.10	67.70	51.60	0.89	49.80	53.40
CLL19	6.60	0.53	5.50	7.60	7421	482	6307	8536	67.70	0.39	66.90	68.40	52.60	0.89	50.80	54.30
CLM04	2.40	0.53	1.40	3.50	6523	482	5408	7637	67.30	0.39	66.50	68.10	59.50	0.89	57.80	61.30
Della2	4.50	0.53	3.50	5.60	6749	482	5634	7864	67.00	0.39	66.20	67.70	55.40	0.89	53.70	57.20
DG263L	5.60	0.53	4.50	6.60	7688	482	6574	8803	67.70	0.39	66.90	68.50	55.90	0.89	54.20	57.70
DG3H2004	2.90	0.53	1.90	4.00	11848	482	10734	12963	67.00	0.44	66.10	67.90	49.30	1.00	47.30	51.30
DG3H2007	2.60	0.53	1.50	3.60	11099	514	9955	12242	67.10	0.39	66.30	67.80	47.30	0.89	45.50	49.10
DG3H20363	2.60	0.53	1.50	3.60	11749	482	10634	12863	66.80	0.39	66.00	67.60	48.60	0.89	46.90	50.40
DG3H20397	2.80	0.53	1.70	3.80	10755	514	9612	11898	69.40	0.44	68.50	70.20	53.60	1.00	51.60	55.60
DG3H20402	3.30	0.53	2.30	4.40	11113	482	9999	12228	69.20	0.39	68.40	70.00	53.10	0.89	51.30	54.80
DGM004	2.60	0.53	1.50	3.60	5628	482	4513	6743	66.00	0.39	65.20	66.70	54.70	0.89	52.90	56.50
Frontier	3.80	0.53	2.80	4.90	5734	482	4620	6849	68.80	0.39	68.00	69.50	61.40	0.89	59.70	63.20

Continued.

Table 13. Continued.

Genotype	Sheath Blight (0-9) Est	Sheath Blight (0-9) SE	Sheath Blight (0-9) Lower	Sheath Blight (0-9) Upper	Grain Yield (lb/A) Est	Grain Yield (lb/A) SE	Grain Yield (lb/A) Lower	Grain Yield (lb/A) Upper	Milling Yield Total (%) Est	Milling Yield Total (%) SE	Milling Yield Total (%) Lower	Milling Yield Total (%) Upper	Milling Yield Head (%) Est	Milling Yield Head (%) SE	Milling Yield Head (%) Lower	Milling Yield Head (%) Upper
Jazzman	2.00	0.53	1.00	3.10	5194	482	4080	6309	69.20	0.39	68.40	69.90	58.90	0.89	57.10	60.60
Jupiter	2.90	0.53	1.90	4.00	4106	514	2963	5249	65.90	0.39	65.10	66.70	60.50	0.89	58.70	62.30
Mermentau	3.30	0.53	2.30	4.40	7330	482	6215	8445	69.90	0.39	69.10	70.70	60.70	0.89	58.90	62.40
Ozark	1.90	0.53	0.90	3.00	8446	482	7331	9561	66.00	0.39	65.20	66.80	46.20	0.89	44.40	48.00
Presidio	1.60	0.53	0.50	2.60	5211	514	4068	6354	67.70	0.44	66.80	68.60	51.40	1.00	49.40	53.40
PVL03	6.30	0.53	5.20	7.30	7556	482	6441	8670	68.10	0.39	67.30	68.90	50.30	0.89	48.50	52.10
PVL04	6.30	0.53	5.30	7.40	6985	482	5870	8100	68.70	0.39	67.90	69.50	51.10	0.89	49.30	52.90
RT3002	1.20	0.53	0.10	2.20	11020	482	9906	12135	68.80	0.39	68.00	69.60	56.60	0.89	54.80	58.40
RT7302	1.10	0.53	0.00	2.10	12111	482	10996	13226	70.70	0.39	69.90	71.50	57.30	0.89	55.50	59.10
RT7331MA	1.00	0.53	0.00	2.10	11053	482	9939	12168	71.20	0.39	70.50	72.00	58.00	0.89	56.20	59.70
RT7421FP	1.20	0.53	0.10	2.20	11604	482	10489	12718	68.80	0.39	68.00	69.60	52.70	0.89	50.90	54.50
RT7431MA	1.50	0.53	0.50	2.60	11346	482	10232	12461	70.10	0.39	69.30	70.80	58.40	0.89	56.60	60.20
RT781	1.00	0.53	0.00	2.10	11575	482	10461	12690	67.90	0.39	67.10	68.60	48.00	0.89	46.20	49.70
RU1901165	3.20	0.53	2.10	4.20	7453	482	6338	8568	67.80	0.39	67.00	68.60	60.40	0.89	58.60	62.20
RU1902207	3.10	0.53	2.00	4.10	7464	482	6349	8578	69.20	0.44	68.30	70.00	55.00	1.00	53.00	57.00
RU2002166	5.40	0.53	4.40	6.50	6266	482	5152	7381	68.80	0.39	68.00	69.50	58.10	0.89	56.30	59.90
RU2101234	5.40	0.53	4.40	6.50	7955	482	6840	9070	64.30	0.39	63.50	65.10	54.20	0.89	52.50	56.00
RU2102066	2.30	0.53	1.30	3.40	5820	482	4706	6935	65.40	0.39	64.60	66.20	60.40	0.89	58.60	62.20
RU2102070	4.60	0.53	3.50	5.60	6297	482	5182	7411	64.60	0.39	63.80	65.40	57.60	0.89	55.80	59.40
RU2102150	6.00	0.53	5.00	7.10	7557	482	6442	8671	67.30	0.39	66.50	68.00	55.40	0.89	53.60	57.10
RU2102186	4.80	0.53	3.70	5.80	7558	482	6444	8673	67.80	0.39	67.00	68.50	49.60	0.89	47.80	51.30
RU2102217	6.30	0.53	5.30	7.40	7656	482	6541	8771	66.80	0.39	66.00	67.60	39.60	0.89	37.80	41.40
RU2301022	3.20	0.53	2.10	4.20	5974	482	4859	7089	70.10	0.39	69.30	70.90	61.70	0.89	59.90	63.50
Taurus	3.60	0.53	2.50	4.60	8344	482	7230	9459	67.00	0.39	66.20	67.80	54.10	0.89	52.30	55.80
Titan	4.50	0.53	3.50	5.60	5512	482	4397	6626	64.60	0.39	63.80	65.40	54.30	0.89	52.50	56.10

3.2.2. Pre-Commercial

Table 14. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for sheath blight severity, grain yield, and milling yield (total and whole grain [head]) in the **Pre-Commercial** study planted on **March 16** (First Field). Crowley, LA, 2023.

Genotype	Sheath Blight (0-9) Est	Sheath Blight (0-9) SE	Sheath Blight (0-9) Lower	Sheath Blight (0-9) Upper	Grain Yield (lb/A) Est	Grain Yield (lb/A) SE	Grain Yield (lb/A) Lower	Grain Yield (lb/A) Upper	Milling Yield Total (%) Est	Milling Yield Total (%) SE	Milling Yield Total (%) Lower	Milling Yield Total (%) Upper	Milling Yield Head (%) Est	Milling Yield Head (%) SE	Milling Yield Head (%) Lower	Milling Yield Head (%) Upper
201L1251	7.30	0.63	6.00	8.50	9800	242	9316	10284	71.10	0.37	70.40	71.90	59.30	1.09	57.10	61.50
203L1104	6.40	0.63	5.20	7.70	9953	242	9469	10437	72.70	0.37	72.00	73.50	67.10	1.09	64.90	69.30
22AR147	6.60	0.72	5.20	8.00	10412	277	9859	10965	71.20	0.43	70.40	72.10	55.90	1.26	53.40	58.40
23AR2205	6.10	0.63	4.80	7.40	9726	242	9242	10210	69.30	0.37	68.50	70.00	65.00	1.09	62.80	67.20
CLL16	6.80	0.63	5.60	8.10	10184	242	9700	10668	69.50	0.37	68.70	70.20	56.50	1.09	54.30	58.70
CLL18	6.80	0.63	5.60	8.10	10372	242	9888	10856	69.60	0.37	68.80	70.30	56.30	1.09	54.10	58.40
CLL19	7.70	0.63	6.40	8.90	9027	242	8543	9511	71.10	0.37	70.40	71.90	56.40	1.09	54.20	58.50
DG263L	7.90	0.63	6.70	9.00	9283	242	8799	9767	68.90	0.37	68.20	69.60	57.00	1.09	54.80	59.20
DG3H2004	3.10	0.63	1.80	4.40	12532	242	12048	13016	70.50	0.37	69.70	71.20	56.80	1.09	54.60	59.00
DG3H2007	5.90	0.63	4.70	7.20	12092	242	11608	12576	69.20	0.37	68.40	69.90	51.70	1.09	49.50	53.90
DG3H20363	5.20	0.63	3.90	6.40	12556	242	12072	13040	70.60	0.37	69.90	71.40	54.90	1.09	52.70	57.10
DG3H20401	6.30	0.63	5.10	7.60	11306	242	10822	11790	70.30	0.37	69.50	71.00	54.70	1.09	52.50	56.90
DG3H20402	5.10	0.63	3.80	6.40	11769	242	11285	12253	70.30	0.37	69.60	71.10	55.30	1.09	53.10	57.50
Jupiter	5.40	0.63	4.20	6.70	8632	242	8148	9116	68.70	0.37	68.00	69.50	65.10	1.09	62.90	67.30
PVL03	7.40	0.63	6.20	8.70	9135	242	8651	9619	71.90	0.37	71.20	72.70	61.40	1.09	59.20	63.60
PVL04	8.30	0.63	7.00	9.00	7444	242	6960	7928	72.00	0.37	71.20	72.70	60.60	1.09	58.40	62.80
RU2101234	8.30	0.63	7.10	9.00	9128	242	8644	9612	67.10	0.43	66.30	68.00	61.20	1.26	58.70	63.70
RU2102070	6.50	0.63	5.20	7.80	9750	242	9266	10234	68.20	0.37	67.40	68.90	62.30	1.09	60.10	64.40
RU2102150	7.10	0.63	5.80	8.40	9031	242	8547	9515	70.60	0.37	69.90	71.30	62.20	1.09	60.00	64.40
RU2102186	6.30	0.63	5.00	7.50	9392	242	8908	9876	72.20	0.37	71.40	72.90	62.40	1.09	60.20	64.60
RU2102217	8.40	0.72	7.00	9.00	9615	242	9131	10099	71.10	0.37	70.30	71.80	46.20	1.09	44.00	48.40
RU2201020	5.20	0.63	3.90	6.40	10409	242	9925	10893	70.40	0.37	69.60	71.10	55.30	1.09	53.10	57.50
RU2202037	6.30	0.63	5.00	7.50	9127	242	8643	9611	69.70	0.37	69.00	70.50	63.00	1.09	60.80	65.20
RU2301022	6.80	0.63	5.60	8.10	9062	242	8578	9546	72.20	0.37	71.50	72.90	64.10	1.09	61.90	66.30
XP753	1.30	0.63	0.00	2.51	12255	242	11771	12739	71.05	0.37	70.31	71.79	52.90	1.09	50.72	55.08

Table 15. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for sheath blight severity, grain yield, and milling yield (total and whole grain [head]) in the **Pre-Commercial** study planted on **April 19** (Second Field). Crowley, LA, 2023.

Genotype	Sheath Blight (0-9) Est	Sheath Blight (0-9) SE	Sheath Blight (0-9) Lower	Sheath Blight (0-9) Upper	Grain Yield (lb/A) Est	Grain Yield (lb/A) SE	Grain Yield (lb/A) Lower	Grain Yield (lb/A) Upper	Milling Yield Total (%) Est	Milling Yield Total (%) SE	Milling Yield Total (%) Lower	Milling Yield Total (%) Upper	Milling Yield Head (%) Est	Milling Yield Head (%) SE	Milling Yield Head (%) Lower	Milling Yield Head (%) Upper
201L1251	5.40	0.57	4.30	6.60	8467	448	7480	9453	68.40	0.54	67.30	69.50	59.30	1.09	57.10	61.50
203L1104	3.30	0.57	2.20	4.50	7506	448	6519	8493	71.00	0.54	69.90	72.00	67.10	1.09	64.90	69.30
22AR147	0.80	0.57	0.00	2.00	8597	448	7611	9584	67.50	0.54	66.40	68.50	55.90	1.26	53.40	58.40
23AR2205	2.40	0.57	1.30	3.60	5390	448	4403	6377	67.30	0.54	66.20	68.30	65.00	1.09	62.80	67.20
CLL16	2.80	0.57	1.70	4.00	7528	448	6541	8514	67.00	0.54	65.90	68.10	56.50	1.09	54.30	58.70
CLL18	2.70	0.57	1.50	3.80	8930	485	7892	9967	66.30	0.61	65.10	67.50	56.30	1.09	54.10	58.40
CLL19	5.40	0.57	4.30	6.60	7099	448	6112	8085	68.60	0.54	67.50	69.60	56.40	1.09	54.20	58.50
DG263L	6.30	0.57	5.20	7.50	7896	448	6909	8882	68.10	0.54	67.00	69.10	57.00	1.09	54.80	59.20
DG3H2004	2.80	0.57	1.60	3.90	11008	448	10022	11995	68.50	0.54	67.40	69.60	56.80	1.09	54.60	59.00
DG3H2007	1.80	0.57	0.60	2.90	11128	485	10091	12165	67.50	0.61	66.30	68.70	51.70	1.09	49.50	53.90
DG3H20363	2.60	0.57	1.40	3.70	11491	448	10505	12478	67.70	0.54	66.60	68.80	54.90	1.09	52.70	57.10
DG3H20401	2.30	0.57	1.10	3.40	10780	448	9793	11766	69.00	0.54	67.90	70.10	54.70	1.09	52.50	56.90
DG3H20402	2.70	0.57	1.50	3.80	11021	448	10034	12008	69.30	0.54	68.20	70.40	55.30	1.09	53.10	57.50
Jupiter	2.80	0.57	1.60	3.90	3869	448	2883	4856	67.00	0.54	65.90	68.10	65.10	1.09	62.90	67.30
PVL03	5.90	0.57	4.80	7.10	7196	448	6209	8183	68.40	0.54	67.30	69.40	61.40	1.09	59.20	63.60
PVL04	6.00	0.57	4.90	7.20	7078	448	6092	8065	70.00	0.54	68.90	71.10	60.60	1.09	58.40	62.80
RU2101234	5.00	0.57	3.90	6.20	7703	448	6716	8690	67.30	0.54	66.30	68.40	61.20	1.26	58.70	63.70
RU2102070	3.90	0.57	2.80	5.10	6086	448	5099	7073	65.50	0.54	64.40	66.60	62.30	1.09	60.10	64.40
RU2102150	4.60	0.57	3.40	5.70	7683	448	6697	8670	67.60	0.54	66.50	68.70	62.20	1.09	60.00	64.40
RU2102186	2.30	0.57	1.10	3.40	7342	448	6355	8329	68.50	0.54	67.40	69.60	62.40	1.09	60.20	64.60
RU2102217	6.30	0.57	5.20	7.50	7951	448	6964	8937	69.70	0.54	68.60	70.80	46.20	1.09	44.00	48.40
RU2201020	1.00	0.57	0.00	2.20	8868	448	7881	9855	68.10	0.54	67.00	69.10	55.30	1.09	53.10	57.50
RU2202037	3.80	0.57	2.60	4.90	4866	448	3879	5852	67.50	0.54	66.40	68.60	63.00	1.09	60.80	65.20
RU2301022	3.00	0.57	1.90	4.20	6424	448	5438	7411	70.00	0.54	68.90	71.10	64.10	1.09	61.90	66.30
XP753	0.50	0.57	0.00	1.70	10985	448	9998	11971	70.90	0.54	69.80	72.00	52.90	1.09	50.70	55.10

Upland Nursery

No disease developed on the upland nursery due to severe drought and hot temperatures.

4. Disease management

4.1. Sheath Blight Fungicide Panel

The Sheath Blight Fungicide Panel aims to test all known fungicide active ingredients labeled for controlling sheath blight and other relevant diseases under identical conditions. All treatments are sprayed at the boot stage and at full rate, except for two positive controls, which involve two applications, and the untreated check. Please refer to the result tables for more details. Samples of the products were requested from the manufacturers, regardless of whether the product is actively marketed to rice growers and were provided at no charge to the Rice Pathology Program. Only one entry per active ingredient was used, based on the assumption that generic products would have similar performance. The plots were repeated twice (first and second planting). The first field had only two replications due to space limitations, while the second field had four replications. More details and results are provided below.

Table 16. Summary of material and methods applied to yield-plots.

Planting Date:	March 16th (First field) and April 19th (Third field)
Water Management	*First Field* - Flooded: May 4; Drained: July 21 *Second Field* - Flooded, May 26; Drained: Aug 11
Fertilization	Pre-planting - 250 lb/A of 0-24-24; Preflood 300 lb/A 46-0-0 urea (Both fields)
Herbicides	*First Field:* • Propanil 3 qt/A, Prowl 1 qt/A, April 4 • Propanil 4 qt/A, Facet L 1 qt/A, Gambit 1.5 oz/A, Crop Oil 16 fl oz/A, May 1 *Second Field:* • Command 8 fl oz/A, May 17 • Propanil 3 qt/A, Gambit 1.5 oz/A, and Prowl 1 qt/A, May 29 • Propanil 4 qt/A, Facet (granular) 0.5 lbs/A, Crop Oil 16 fl oz/A, June 9
Insecticides	Dermacor X-100 seed treatment
Inoculation	*First Field*: • *Rhizoctonia solani* culture grown on rice grain/hull mixture, May 25; *Second Field*: • *Rhizoctonia solani* culture grown on rice grain/hull mixture, June 19

Fungicide application

	Stage	Date	Time	Temp	Wind	RH	Clouds
First Field	PD	June 2	9:00 AM	76 F	3-5 mph	60%	Sunny
	Boot	June 15	8:30 AM	81 F	2-12 mph	96%	Cloudy
Second Field	PD	June 30	8:25 AM	89 F	3-4 mph	76%	Partly
	Boot	July 7	8:45 AM	82 F	None	80%	Cloudy

+

Ratings	*First Field*: Sheath: July 21 *Second Field:* Sheath blight: August 6
Harvest	*First Field*: August 3 *Second Field:* August 22

Table 17. Active ingredient, commercial name, application timing, rate for treatments applied on the Sheath Blight Fungicide Panel trials, Crowley, LA, 2023.

TRT	Active Ingredient	Commercial name	Application Growth Stage	Rate (FL oz/A)
1	Untreated Check	---	---	---
2	Azoxystrobin	Quadris	Boot	12.5
3	Trifloxystrobin	Flint Extra	Boot	4.7
4	Fluxastrobin	Evito	Boot	4
5	Flutolanil	Elegia	Boot	32
6	Fluxapyroxad	Sercadis	Boot	6.8
7	Propiconazole	Tilt	Boot	10
8	Difeconazole + Tea Tree Oil	REVEG	Boot	8.5
9	Azoxystrobin + Propiconazole	Quilt Xcel	Boot	27
10	Azoxystrobin + Difeconazole	Amistar Top	Boot	15
11	Trifloxystrobin +	Flint Extra	Boot	4.7
	Propiconazole	Tilt	Boot	10
12	Azoxystrobin +	Quadris	Boot	12.5
	Flutolanil	Elegia	Boot	32
13	Azoxystrobin +	Quadris	Boot	12.5
	Fluxapyroxad	Sercadis	Boot	6.8
14	Azoxystrobin +	Quadris	Boot	12.5
	Propiconazole	Tilt	Boot	10
15	Azoxystrobin +	Quadris	Boot	12.5
	Difeconazole + Tea Tree Oil	REVEG	Boot	8.5
16	Flutolanil +	Elegia	Boot	32
	Propiconazole	Tilt	Boot	10
17	Flutolanil	Elegia	Boot	32
	Difeconazole + Tea Tree Oil	REVEG	Boot	8.5
18	Azoxystrobin	Quadris	PD7 + Boot	12.5
19	Flutolanil	Elegia	PD7 + Boot	16

Table 18. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for **sheath blight severity** (0-9) from the two trials of Sheath Blight Fungicide Panel Study, Crowley, LA, 2023.

TRT	Fungicide	First Field (March) Est	First Field (March) SE	First Field (March) Lower	First Field (March) Upper	Second Field (April) Est	Second Field (April) SE	Second Field (April) Lower	Second Field (April) Upper
1	Untreated Check	5.5	0.6	4.3	6.6	5.3	0.3	4.7	5.9
2	Quadris	1.3	0.8	0.0	3.0	1.7	0.4	0.8	2.5
3	Flint Extra	2.1	0.8	0.4	3.7	1.9	0.4	1.0	2.7
4	Evito	2.2	0.8	0.5	3.8	3.1	0.4	2.2	4.0
5	Elegia	1.0	0.8	0.0	2.6	1.7	0.4	0.8	2.5
6	Sercadis	1.3	0.8	0.0	2.9	1.7	0.4	0.8	2.5
7	Tilt	2.5	0.8	0.9	4.1	4.0	0.4	3.1	4.8
8	REVEG	1.8	0.8	0.2	3.5	3.6	0.4	2.7	4.5
9	Quilt Xcel	2.7	0.8	1.1	4.3	2.1	0.4	1.2	3.0
10	Amistar Top	0.8	0.8	0.0	2.4	2.1	0.4	1.2	3.0
11	Flint Extra + Tilt	1.3	0.8	0.0	2.9	1.3	0.4	0.5	2.2
12	Quadris + Elegia	0.5	1.2	0.0	2.9	1.3	0.4	0.5	2.2
13	Quadris + Sercadis	1.4	0.8	0.0	3.1	1.8	0.4	0.9	2.6
14	Quadris + Tilt	1.3	0.8	0.0	2.9	1.4	0.4	0.5	2.2
15	Quadris + REVED	4.5	0.8	2.9	6.1	1.9	0.4	1.1	2.8
16	Elegia + Tilt	0.6	0.8	0.0	2.2	1.5	0.4	0.6	2.3
17	Elegia + REVEG	1.3	0.8	0.0	2.9	2.1	0.4	1.2	3.0
18	Quadris	3.9	0.8	2.3	5.6	1.0	0.4	0.2	1.9
19	Elegia	2.3	0.8	0.6	3.9	0.9	0.4	0.0	1.7

Table 19. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for **grain yield** (lb/A) from the two trials of Sheath Blight Fungicide Panel Study, Crowley, LA, 2023.

TRT	Fungicide	First Field (March) Est	First Field (March) SE	First Field (March) Lower	First Field (March) Upper	Second Field (April) Est	Second Field (April) SE	Second Field (April) Lower	Second Field (April) Upper
1	Untreated Check	8,991	370	7,821	10,161	7,044	158	6,714	7,373
2	Quadris	10,401	450	9,302	11,499	7,410	207	6,992	7,829
3	Flint Extra	10,101	450	9,002	11,200	7,403	207	6,985	7,822
4	Evito	9,839	450	8,741	10,938	7,451	207	7,032	7,869
5	Elegia	9,610	450	8,511	10,708	7,262	207	6,843	7,680
6	Sercadis	10,125	450	9,027	11,224	7,247	207	6,829	7,665
7	Tilt	9,467	450	8,368	10,566	7,206	207	6,788	7,624
8	REVEG	9,994	450	8,895	11,093	7,331	207	6,913	7,750
9	Quilt Xcel	10,249	450	9,150	11,347	7,281	207	6,863	7,700
10	Amistar Top	10,129	450	9,030	11,228	7,280	207	6,861	7,698
11	Flint Extra + Tilt	10,377	450	9,278	11,475	7,334	207	6,916	7,753
12	Quadris + Elegia	9,753	450	8,654	10,852	7,126	207	6,708	7,544
13	Quadris + Sercadis	9,930	450	8,831	11,029	7,476	207	7,057	7,894
14	Quadris + Tilt	9,969	450	8,870	11,068	7,504	207	7,086	7,922
15	Quadris + REVED	9,714	450	8,615	10,813	7,769	207	7,351	8,187
16	Elegia + Tilt	9,918	450	8,819	11,017	7,564	207	7,146	7,983
17	Elegia + REVEG	9,624	450	8,525	10,723	7,477	207	7,058	7,895
18	Quadris	9,699	450	8,600	10,797	7,647	207	7,229	8,066
19	Elegia	9,248	450	8,150	10,347	7,778	207	7,359	8,196

Table 20. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for milling yield – **total grain** (%) from the two trials of Sheath Blight Fungicide Panel Study, Crowley, LA, 2023.

TRT	Fungicide	First Field (March) Est	First Field (March) SE	First Field (March) Lower	First Field (March) Upper	Second Field (April) Est	Second Field (April) SE	Second Field (April) Lower	Second Field (April) Upper
1	Untreated Check	72.0	0.3	71.3	72.7	70.5	0.3	69.8	71.2
2	Quadris	72.5	0.4	71.5	73.4	70.0	0.5	69.0	70.9
3	Flint Extra	72.2	0.4	71.3	73.1	70.0	0.5	69.1	70.9
4	Evito	72.4	0.4	71.4	73.3	69.6	0.5	68.7	70.5
5	Elegia	72.2	0.4	71.2	73.1	69.8	0.5	68.9	70.7
6	Sercadis	72.2	0.4	71.2	73.1	70.4	0.5	69.5	71.3
7	Tilt	72.3	0.4	71.3	73.2	69.9	0.5	69.0	70.8
8	REVEG	71.7	0.4	70.7	72.6	69.1	0.5	68.1	70.0
9	Quilt Xcel	71.8	0.4	70.9	72.7	69.9	0.5	68.9	71.0
10	Amistar Top	72.2	0.4	71.3	73.1	69.3	0.5	68.4	70.2
11	Flint Extra + Tilt	72.7	0.4	71.7	73.6	69.8	0.5	68.9	70.7
12	Quadris + Elegia	71.8	0.4	70.9	72.7	70.2	0.5	69.2	71.1
13	Quadris + Sercadis	72.0	0.4	71.0	72.9	70.2	0.5	69.3	71.1
14	Quadris + Tilt	71.5	0.4	70.5	72.4	69.9	0.5	69.0	70.8
15	Quadris + REVED	71.9	0.4	70.9	72.8	70.2	0.5	69.3	71.1
16	Elegia + Tilt	71.6	0.4	70.7	72.5	69.9	0.5	69.0	70.8
17	Elegia + REVEG	72.0	0.4	71.0	72.9	69.6	0.5	68.6	70.5
18	Quadris	71.7	0.4	70.7	72.6	69.5	0.5	68.5	70.4
19	Elegia	72.1	0.4	71.2	73.0	70.3	0.5	69.3	71.2

Table 21. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for milling yield – whole grain - **head** (%) from the two trials of Sheath Blight Fungicide Panel Study, Crowley, LA, 2023.

TRT	Fungicide	First Field (March) Est	First Field (March) SE	First Field (March) Lower	First Field (March) Upper	Second Field (April) Est	Second Field (April) SE	Second Field (April) Lower	Second Field (April) Upper
1	Untreated Check	57.4	1.5	53.9	60.9	60.3	0.8	58.6	62.1
2	Quadris	60.1	2.1	55.7	64.4	60.2	1.0	58.1	62.3
3	Flint Extra	58.9	2.1	54.5	63.2	59.5	1.0	57.3	61.6
4	Evito	59.3	2.1	54.9	63.7	58.2	1.0	56.1	60.3
5	Elegia	58.9	2.1	54.5	63.3	59.3	1.0	57.2	61.5
6	Sercadis	58.7	2.1	54.3	63.1	60.4	1.0	58.3	62.5
7	Tilt	57.4	2.1	53.0	61.8	59.0	1.0	56.9	61.2
8	REVEG	57.7	2.1	53.3	62.1	58.0	1.0	55.9	60.1
9	Quilt Xcel	58.0	2.1	53.6	62.4	58.1	1.0	56.0	60.2
10	Amistar Top	59.0	2.1	54.6	63.3	59.3	1.0	57.2	61.4
11	Flint Extra + Tilt	61.2	2.1	56.8	65.5	60.8	1.0	58.6	62.9
12	Quadris + Elegia	57.0	2.1	52.6	61.3	60.2	1.0	58.1	62.3
13	Quadris + Sercadis	58.0	2.1	53.6	62.3	60.8	1.0	58.7	63.0
14	Quadris + Tilt	57.9	2.1	53.5	62.2	59.7	1.0	57.5	61.8
15	Quadris + REVED	56.7	2.1	52.3	61.0	60.3	1.0	58.1	62.4
16	Elegia + Tilt	57.6	2.1	53.2	62.0	60.8	1.0	58.7	63.0
17	Elegia + REVEG	57.7	2.1	53.3	62.0	58.4	1.0	56.3	60.5
18	Quadris	56.6	2.1	52.2	60.9	57.6	1.0	55.5	59.8
19	Elegia	58.5	2.1	54.1	62.8	60.0	1.0	57.9	62.1

4.2 Sheath Blight – Integrated Pest Management

This study aims to quantify the effectiveness of multiple control methods for sheath blight, specifically focusing on genetic resistance and the application of fungicides at various growth stages and multiple times. The varieties CL111, CLJ01, and the hybrid RT7301, which represent different resistance levels to sheath blight—very susceptible, susceptible, and moderately resistant, respectively—were used. Fungicide applications were made with Azox + propiconazole (Quilt Xcel) at seven days after panicle differentiation (PD7), at the boot stage (B), and at heading (H). Additionally, double (PD7 + B; PD7 + H; B + H) and triple combinations (PD7 + B + H) of these timings were also tested. Treatments description is presented in the result table.

Table 22. Summary of material and methods applied to Sheath Blight – Integrate Pest Management studies.

Planting Date:	March 16th (First field) and April 19th (Third field)
Water Management	*First Field* - Flooded: May 4; Drained: July 21 *Second Field* - Flooded, May 26; Drained: Aug 11
Fertilization	Pre-planting - 250 lb/A of 0-24-24; Preflood 300 lb/A 46-0-0 urea (Both fields)
Herbicides	*First Field:* • Propanil 3 qt/A, Prowl 1 qt/A, April 4 • Propanil 4 qt/A, Facet L 1 qt/A, Gambit 1.5 oz/A, Crop Oil 16 fl oz/A, May 1 *Second Field:* • Command 8 fl oz/A, May 17 • Propanil 3 qt/A, Gambit 1.5 oz/A, and Prowl 1 qt/A, May 29 • Propanil 4 qt/A, Facet (granular) 0.5 lbs/A, Crop Oil 16 fl oz/A, June 9
Insecticides	Dermacor X-100 seed treatment
Inoculation	*First Field*: • *Rhizoctonia solani* culture grown on rice grain/hull mixture, May 25; *Second Field*: • *Rhizoctonia solani* culture grown on rice grain/hull mixture, June 19

Fungicide application

	Stage	Date	Time	Temp	Wind	RH	Clouds
First Field	PD	June 2	9:00 AM	76 F	3-5 mph	60%	Sunny
	Boot	June 15	8:30 AM	81 F	2-12 mph	96%	Cloudy
Second Field	PD	June 30	8:25 AM	89 F	3-4 mph	76%	Partly
	Boot	July 7	8:45 AM	82 F	None	80%	Cloudy

Ratings	*First Field*: Sheath: July 21 *Second Field:* Sheath blight: August 6
Harvest	*First Field*: August 3 *Second Field:* August 22

Table 23. Variety, application timing, commercial name, rate for treatments applied on the Sheath Blight Integrate Pest Management trials, Crowley, LA, 2023.

TRT	Variety	Treatment	Active Ingredient[1]	Rate (Fl oz/A)
1	CL111	Check	Untreated Check	---
2	CL111	PD+7	Azoxystrobin + Propiconazole	21
3	CL111	Boot	Azoxystrobin + Propiconazole	21
4	CL111	Head	Azoxystrobin + Propiconazole	21
5	CL111	PD7 + Boot	Azoxystrobin + Propiconazole	21
6	CL111	PD7 + Head	Azoxystrobin + Propiconazole	21
7	CL111	B + H	Azoxystrobin + Propiconazole	21
8	CL111	PD7 + B + H	Azoxystrobin + Propiconazole	21
9	CL111	Boot	Azoxystrobin	12
10	CL111	Boot	Flutolanil	32
11	CLJ01	Check	Untreated Check	---
12	CLJ01	PD+7	Azoxystrobin + Propiconazole	21
13	CLJ01	Boot	Azoxystrobin + Propiconazole	21
14	CLJ01	Head	Azoxystrobin + Propiconazole	21
15	CLJ01	PD7 + Boot	Azoxystrobin + Propiconazole	21
16	CLJ01	PD7 + Head	Azoxystrobin + Propiconazole	21
17	CLJ01	B + H	Azoxystrobin + Propiconazole	21
18	CLJ01	PD7 + B + H	Azoxystrobin + Propiconazole	21
19	CLJ01	Boot	Azoxystrobin	12
20	CLJ01	Boot	Flutolanil	32
21	RT7301	Check	Untreated Check	---
22	RT7301	PD+7	Azoxystrobin + Propiconazole	21
23	RT7301	Boot	Azoxystrobin + Propiconazole	21
24	RT7301	Head	Azoxystrobin + Propiconazole	21
25	RT7301	PD7 + Boot	Azoxystrobin + Propiconazole	21
26	RT7301	PD7 + Head	Azoxystrobin + Propiconazole	21
27	RT7301	B + H	Azoxystrobin + Propiconazole	21
28	RT7301	PD7 + B + H	Azoxystrobin + Propiconazole	21
29	RT7301	Boot	Azoxystrobin	12
30	RT7301	Boot	Flutolanil	32

[1] Azoxystrobin + Propiconazole = Quilt Excel (Syngenta); Azoxystrobin = Quadris (Syngenta); Flutolanil = Nichino

Table 24. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for **sheath blight severity** (0-9) from the two trials of Sheath Blight Integrate Pest Management Study, Crowley, LA, 2023.

TRT	Variety	Treatment	Fungicide	First Field (March) Est	First Field (March) SE	First Field (March) Lower	First Field (March) Upper	Second Field (April) Est	Second Field (April) SE	Second Field (April) Lower	Second Field (April) Upper
1	CL111	Check	Check	3.6	0.5	2.6	4.6	6.5	0.4	5.8	7.2
2	CL111	PD+7	Azox+Prop	2.9	0.5	1.9	4.0	1.6	0.4	0.9	2.3
3	CL111	Boot	Azox+Prop	1.1	0.5	0.1	2.1	2.2	0.4	1.5	2.9
4	CL111	Head	Azox+Prop	2.8	0.5	1.8	3.8	4.5	0.4	3.8	5.2
5	CL111	PD7+Boot	Azox+Prop	1.5	0.5	0.5	2.5	1.1	0.4	0.4	1.8
6	CL111	PD7+Head	Azox+Prop	1.8	0.5	0.8	2.8	1.3	0.4	0.6	2.0
7	CL111	B+H	Azox+Prop	1.0	0.5	0.0	2.0	1.5	0.4	0.8	2.2
8	CL111	PD7+B+H	Azox+Prop	0.7	0.5	0.0	1.7	1.2	0.4	0.5	1.9
9	CL111	Boot	Azox	2.4	0.5	1.4	3.5	2.1	0.4	1.4	2.8
10	CL111	Boot	Flut	1.3	0.5	0.2	2.3	2.2	0.4	1.5	2.9
11	CLJ01	Check	Check	3.0	0.5	2.0	4.0	4.2	0.4	3.5	4.9
12	CLJ01	PD+7	Azox+Prop	1.0	0.5	0.0	2.0	1.7	0.4	1.0	2.4
13	CLJ01	Boot	Azox+Prop	0.9	0.5	0.0	1.9	1.5	0.4	0.8	2.2
14	CLJ01	Head	Azox+Prop	1.5	0.5	0.5	2.5	2.7	0.4	2.0	3.4
15	CLJ01	PD7+Boot	Azox+Prop	1.2	0.5	0.2	2.2	1.4	0.4	0.7	2.1
16	CLJ01	PD7+Head	Azox+Prop	2.4	0.5	1.4	3.4	1.8	0.4	1.1	2.5
17	CLJ01	B+H	Azox+Prop	0.5	0.5	0.0	1.6	1.3	0.4	0.6	2.0
18	CLJ01	PD7+B+H	Azox+Prop	0.3	0.5	0.0	1.3	0.9	0.4	0.2	1.6
19	CLJ01	Boot	Azox	1.4	0.5	0.4	2.4	2.0	0.4	1.3	2.7
20	CLJ01	Boot	Flut	1.1	0.5	0.1	2.2	1.9	0.4	1.2	2.6
21	RT7301	Check	Check	1.7	0.5	0.7	2.7	1.6	0.4	0.9	2.3
22	RT7301	PD+7	Azox+Prop	0.1	0.5	0.0	1.1	0.7	0.4	0.0	1.4
23	RT7301	Boot	Azox+Prop	0.4	0.5	0.0	1.4	1.0	0.4	0.3	1.7
24	RT7301	Head	Azox+Prop	0.2	0.5	0.0	1.2	1.3	0.4	0.5	2.1
25	RT7301	PD7+Boot	Azox+Prop	0.1	0.5	0.0	1.1	0.6	0.4	0.0	1.3
26	RT7301	PD7+Head	Azox+Prop	0.1	0.5	0.0	1.1	0.5	0.4	0.0	1.2
27	RT7301	B+H	Azox+Prop	0.1	0.5	0.0	1.1	0.8	0.4	0.1	1.5
28	RT7301	PD7+B+H	Azox+Prop	0.1	0.5	0.0	1.1	0.5	0.4	0.0	1.2
29	RT7301	Boot	Azox	0.3	0.5	0.0	1.3	0.8	0.4	0.1	1.5
30	RT7301	Boot	Flut	0.2	0.5	0.0	1.2	1.0	0.4	0.3	1.7

Table 25. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for grain **yield** (lb/A) from the two trials of Sheath Blight Integrate Pest Management Study, Crowley, LA, 2023.

TRT	Variety	Treatment	Fungicide	First Field (March) Est	First Field (March) SE	First Field (March) Lower	First Field (March) Upper	Second Field (April) Est	Second Field (April) SE	Second Field (April) Lower	Second Field (April) Upper
1	CL111	Check	Check	10,875	473	9,936	11,815	7,183	222	6,733	7,632
2	CL111	PD+7	Azox+Prop	11,283	473	10,343	12,222	7,863	222	7,413	8,312
3	CL111	Boot	Azox+Prop	10,710	473	9,770	11,649	7,573	222	7,124	8,022
4	CL111	Head	Azox+Prop	10,523	473	9,583	11,462	7,434	222	6,985	7,883
5	CL111	PD7+Boot	Azox+Prop	11,259	473	10,320	12,199	7,903	222	7,454	8,352
6	CL111	PD7+Head	Azox+Prop	10,686	473	9,747	11,626	7,781	222	7,332	8,231
7	CL111	B+H	Azox+Prop	11,192	473	10,252	12,132	7,674	222	7,224	8,123
8	CL111	PD7+B+H	Azox+Prop	10,506	473	9,566	11,446	7,963	222	7,514	8,413
9	CL111	Boot	Azox	10,661	473	9,722	11,601	7,561	222	7,112	8,010
10	CL111	Boot	Flut	10,796	473	9,857	11,736	7,728	222	7,279	8,178
11	CLJ01	Check	Check	8,391	473	7,451	9,330	6,368	222	5,919	6,817
12	CLJ01	PD+7	Azox+Prop	9,155	473	8,215	10,095	6,754	222	6,304	7,203
13	CLJ01	Boot	Azox+Prop	8,842	473	7,903	9,782	6,454	222	6,005	6,903
14	CLJ01	Head	Azox+Prop	8,919	473	7,979	9,858	6,310	222	5,860	6,759
15	CLJ01	PD7+Boot	Azox+Prop	9,307	473	8,368	10,247	6,601	222	6,151	7,050
16	CLJ01	PD7+Head	Azox+Prop	9,282	473	8,342	10,221	7,065	222	6,616	7,515
17	CLJ01	B+H	Azox+Prop	9,583	473	8,643	10,522	6,704	222	6,254	7,153
18	CLJ01	PD7+B+H	Azox+Prop	10,431	473	9,492	11,371	7,086	222	6,636	7,535
19	CLJ01	Boot	Azox	9,242	473	8,303	10,182	6,398	222	5,948	6,847
20	CLJ01	Boot	Flut	8,931	473	7,991	9,870	6,391	222	5,941	6,840
21	RT7301	Check	Check	12,638	473	11,699	13,578	10,615	222	10,166	11,065
22	RT7301	PD+7	Azox+Prop	12,966	473	12,027	13,906	10,360	222	9,911	10,809
23	RT7301	Boot	Azox+Prop	12,623	473	11,684	13,563	11,403	222	10,954	11,852
24	RT7301	Head	Azox+Prop	13,401	473	12,461	14,340	10,057	250	9,555	10,559
25	RT7301	PD7+Boot	Azox+Prop	13,409	473	12,470	14,349	11,014	222	10,564	11,463
26	RT7301	PD7+Head	Azox+Prop	13,189	473	12,249	14,129	10,855	222	10,406	11,304
27	RT7301	B+H	Azox+Prop	13,607	473	12,668	14,547	10,472	222	10,023	10,922
28	RT7301	PD7+B+H	Azox+Prop	14,124	473	13,185	15,064	10,726	222	10,277	11,176
29	RT7301	Boot	Azox	13,633	473	12,694	14,573	10,104	222	9,655	10,554
30	RT7301	Boot	Flut	13,279	473	12,340	14,219	10,409	222	9,960	10,858

Table 26. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for milling yield – **total** grain (%) from the two trials of Sheath Blight Integrate Pest Management Study, Crowley, LA, 2023.

TRT	Variety	Treatment	Fungicide	First Field (March) Est	First Field (March) SE	First Field (March) Lower	First Field (March) Upper	Second Field (April) Est	Second Field (April) SE	Second Field (April) Lower	Second Field (April) Upper
1	CL111	Check	Check	71.1	0.6	69.9	72.4	57.8	0.9	56.1	59.5
2	CL111	PD+7	Azox+Prop	72.6	0.6	71.3	73.8	57.8	0.9	56.1	59.6
3	CL111	Boot	Azox+Prop	73.1	0.6	71.9	74.4	57.9	0.9	56.2	59.6
4	CL111	Head	Azox+Prop	72.6	0.6	71.3	73.9	57.9	0.9	56.2	59.6
5	CL111	PD7+Boot	Azox+Prop	72.7	0.6	71.5	74.0	57.4	0.9	55.7	59.1
6	CL111	PD7+Head	Azox+Prop	73.2	0.6	71.9	74.5	56.2	0.9	54.5	57.9
7	CL111	B+H	Azox+Prop	72.6	0.6	71.3	73.9	57.6	0.9	55.8	59.3
8	CL111	PD7+B+H	Azox+Prop	72.9	0.6	71.6	74.1	56.3	0.9	54.6	58.1
9	CL111	Boot	Azox	73.1	0.6	71.8	74.4	58.2	0.9	56.5	60.0
10	CL111	Boot	Flut	72.6	0.6	71.4	73.9	56.6	0.9	54.9	58.3
11	CLJ01	Check	Check	72.8	0.6	71.5	74.0	62.1	0.9	60.4	63.8
12	CLJ01	PD+7	Azox+Prop	72.0	0.6	70.8	73.3	64.2	0.9	62.5	65.9
13	CLJ01	Boot	Azox+Prop	74.7	0.6	73.4	76.0	64.3	0.9	62.6	66.0
14	CLJ01	Head	Azox+Prop	72.9	0.6	71.6	74.2	61.9	0.9	60.1	63.6
15	CLJ01	PD7+Boot	Azox+Prop	72.7	0.6	71.4	74.0	63.5	0.9	61.8	65.2
16	CLJ01	PD7+Head	Azox+Prop	72.6	0.6	71.3	73.8	62.7	0.9	61.0	64.4
17	CLJ01	B+H	Azox+Prop	72.3	0.6	71.0	73.5	64.0	0.9	62.2	65.7
18	CLJ01	PD7+B+H	Azox+Prop	72.5	0.6	71.2	73.7	61.9	1.0	59.9	63.9
19	CLJ01	Boot	Azox	72.8	0.6	71.5	74.0	62.9	0.9	61.2	64.6
20	CLJ01	Boot	Flut	72.5	0.6	71.2	73.8	63.4	0.9	61.7	65.2
21	RT7301	Check	Check	71.6	0.6	70.3	72.9	50.9	0.9	49.1	52.6
22	RT7301	PD+7	Azox+Prop	71.4	0.6	70.1	72.7	49.9	0.9	48.2	51.6
23	RT7301	Boot	Azox+Prop	71.3	0.6	70.0	72.6	52.1	0.9	50.4	53.8
24	RT7301	Head	Azox+Prop	72.0	0.6	70.7	73.2	50.4	1.0	48.4	52.4
25	RT7301	PD7+Boot	Azox+Prop	71.5	0.6	70.2	72.8	52.7	0.9	51.0	54.5
26	RT7301	PD7+Head	Azox+Prop	71.4	0.6	70.2	72.7	52.7	0.9	51.0	54.5
27	RT7301	B+H	Azox+Prop	71.9	0.6	70.6	73.1	52.6	0.9	50.9	54.4
28	RT7301	PD7+B+H	Azox+Prop	71.8	0.6	70.5	73.1	52.6	0.9	50.9	54.3
29	RT7301	Boot	Azox	71.1	0.6	69.9	72.4	51.6	0.9	49.9	53.4
30	RT7301	Boot	Flut	71.9	0.6	70.6	73.1	50.2	0.9	48.5	51.9

Table 27. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for milling yield – whole grain - **head** (%) from the two trials of Sheath Blight Integrate Pest Management Study, Crowley, LA, 2023.

TRT	Variety	Treatment	Fungicide	First Field (March) Est	First Field (March) SE	First Field (March) Lower	First Field (March) Upper	Second Field (April) Est	Second Field (April) SE	Second Field (April) Lower	Second Field (April) Upper
1	CL111	Check	Check	57.5	1.6	54.4	60.6	69.1	0.5	68.2	70.1
2	CL111	PD+7	Azox+Prop	56.8	1.6	53.7	59.9	69.5	0.5	68.5	70.4
3	CL111	Boot	Azox+Prop	62.2	1.6	59.1	65.3	69.6	0.5	68.6	70.5
4	CL111	Head	Azox+Prop	58.6	1.6	55.5	61.7	69.5	0.5	68.5	70.4
5	CL111	PD7+Boot	Azox+Prop	60.7	1.6	57.6	63.8	69.2	0.5	68.3	70.2
6	CL111	PD7+Head	Azox+Prop	61.6	1.6	58.5	64.7	68.6	0.5	67.6	69.6
7	CL111	B+H	Azox+Prop	61.0	1.6	57.9	64.1	69.3	0.5	68.3	70.2
8	CL111	PD7+B+H	Azox+Prop	61.6	1.6	58.5	64.7	68.4	0.5	67.4	69.3
9	CL111	Boot	Azox	61.7	1.6	58.6	64.8	69.3	0.5	68.3	70.2
10	CL111	Boot	Flut	57.2	1.6	54.1	60.3	68.6	0.5	67.6	69.5
11	CLJ01	Check	Check	67.5	1.6	64.4	70.6	68.8	0.5	67.8	69.7
12	CLJ01	PD+7	Azox+Prop	67.5	1.6	64.4	70.6	69.5	0.5	68.6	70.5
13	CLJ01	Boot	Azox+Prop	69.7	1.6	66.6	72.8	69.5	0.5	68.5	70.4
14	CLJ01	Head	Azox+Prop	67.3	1.6	64.2	70.4	68.6	0.5	67.6	69.5
15	CLJ01	PD7+Boot	Azox+Prop	68.6	1.6	65.5	71.7	69.3	0.5	68.3	70.3
16	CLJ01	PD7+Head	Azox+Prop	68.0	1.6	64.9	71.1	68.2	0.5	67.3	69.2
17	CLJ01	B+H	Azox+Prop	68.7	1.6	65.6	71.8	69.0	0.5	68.0	70.0
18	CLJ01	PD7+B+H	Azox+Prop	65.8	1.6	62.7	68.9	68.2	0.5	67.3	69.2
19	CLJ01	Boot	Azox	65.7	1.6	62.6	68.8	68.1	0.5	67.2	69.1
20	CLJ01	Boot	Flut	67.9	1.6	64.8	71.0	69.3	0.5	68.3	70.2
21	RT7301	Check	Check	53.0	1.6	49.9	56.1	68.3	0.5	67.3	69.2
22	RT7301	PD+7	Azox+Prop	51.1	1.6	48.0	54.2	67.6	0.5	66.6	68.5
23	RT7301	Boot	Azox+Prop	52.6	1.6	49.5	55.7	68.3	0.5	67.4	69.3
24	RT7301	Head	Azox+Prop	53.2	1.6	50.1	56.3	67.5	0.5	66.5	68.6
25	RT7301	PD7+Boot	Azox+Prop	52.3	1.6	49.2	55.4	68.6	0.5	67.7	69.6
26	RT7301	PD7+Head	Azox+Prop	53.1	1.6	50.0	56.2	67.9	0.5	66.9	68.9
27	RT7301	B+H	Azox+Prop	53.7	1.6	50.6	56.8	68.3	0.5	67.4	69.3
28	RT7301	PD7+B+H	Azox+Prop	53.0	1.6	49.9	56.1	68.1	0.5	67.1	69.0
29	RT7301	Boot	Azox	50.2	1.6	47.1	53.3	68.6	0.5	67.7	69.6
30	RT7301	Boot	Flut	51.6	1.6	48.5	54.7	67.6	0.5	66.6	68.6

4.3. Cercospora - Integrated Pest Management

During the 2022 season, severe epidemics of Cercospora symptoms on the sheath and panicle were reported across South Louisiana. This study aims to quantify the resistance of a selected group of varieties and the efficacy of fungicide (propiconazole) applications in early boot (2 – 4 in panicle) or late boot (close to boot split) to control the disease symptoms on the sheath and panicle. Treatment descriptions are given below.

Table 28. Summary of material and methods applied to Cercospora - Integrate Pest Management studies, in Crowley (First to Third field) and Lake Arthur (Fourth Field), LA, 2023.

Planting Date:	*First Field*	: March 16
	Second Field	: April 19
	Third Field	: May 16
	Fourth Field (Lake Arthur)	: March 16
Water Management	*First Field*	: Flooded: May 4; Drained: July 21
	Second Field	: Flooded, May 26; Drained: Aug 11
	Third Field	: Flooded, Jun 13; Drained: Sep 1
	Fourth Field	: Flooded, May 4; Drained: Jul 12
Fertilization	Pre-planting - 250 lb/A of 0-24-24; Preflood 300 lb/A 46-0-0 urea (1-3fields) Fourth Field - 250 lb/A of 8-24-24, Mar 15; 100 lbs/A 21-0-0, April 3; 300 lb/A 46-0-0 May 1	
Herbicides	*First Field*	: Propanil 3 qt/A, Prowl 1 qt/A, April 4; : Propanil 4 qt/A, Facet L 1 qt/A, Gambit 1.5 oz/A, Crop Oil 16 fl oz/A, May 1
	Second Field	: Command 8 fl oz/A, May 17; : Propanil 3 qt/A, Gambit 1.5oz/A, Prowl 1 qt/A, May 29; : Propanil 4 qt/A, Facet (granular) 0.5 lbs/A, Crop Oil 16 fl oz/A, June 9
	Third Field	: Command 8 fl oz/A, May 17; : Propanil 3 qt/A, Gambit 1.5oz/A, Prowl 1 qt/A, May 29; : Propanil 4 qt/A, Facet (granular) 0.5 lbs/A, Crop Oil 16 fl oz/A, June 9
	Fourth Field	: Command 6 fl oz/A, Roundup 1 qt/A, Sharpen 2 fl oz/A, March 15; : Propanil 3 qt/A, Gambit 1.5 oz/A, Prowl 1 qt/A, April 4; : Propanil 3 qt/A, Gambit 1 oz/A, May 1
Insecticides	Dermacor X-100 seed treatment	
Inoculation	No Artificial Inoculation	

Fungicide application

	Stage	**Date**	**Time**	**Temp**	**Wind**	**RH**	**Clouds**
First Field	EB	June 12	8:00 AM	83 F	3-5 mph	83%	Sunny
	LB	June 19	8:30 AM	83 F	2-3 mph	84%	Cloudy
Second Field	EB	July 3	8:00 AM	85 F	1-2 mph	77%	Partly
	LB	July 11	8:30 AM	87 F	5-7 mph	75%	Sunny
Third Field	EB	July 21	9:00 AM	86 F	3-5 mph	81%	Partly
	LB	July 28	8:45 AM	88 F	3 mph	64%	Partly
Fourth Field	EB	July 13	7:45 AM	86 F	5-7 mph	70%	Partly
(Lake Arthur)	LB	July 20	7:30 AM	84 F	3-5 mph	89%	Cloudy

Continued.

Table 28. Continued.

Ratings	Samples were brought to the lab before harvest.
Harvest	*First Field* : August 3 *Second Field* : August 22 *Third Field* : September 21 *Fourth Field* : July 27

Table 29. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for incidence of Cercospora net blotch (%) from the four trials of Cercospora - Integrate Pest Management Study, Crowley and Lake Arthur, LA, 2023.

TRT	Variety	Timing	First Field (March) Est	First Field (March) Lower	First Field (March) Upper	Second Field (April) Est	Second Field (April) Lower	Second Field (April) Upper	Third Field (May) Est	Third Field (May) Lower	Third Field (May) Upper	First Field (Lake Arthur) Est	First Field (Lake Arthur) Lower	First Field (Lake Arthur) Upper
1	PVL03	Check	44.0	28.4	59.6	29.5	19.2	39.8	53.3	36.3	70.4	48.2	26.8	69.6
2	PVL03	EB	41.0	25.4	56.6	36.0	25.7	46.3	65.3	48.3	82.4	36.3	14.9	57.8
3	PVL03	LB	43.0	27.4	58.6	34.5	24.2	44.8	66.0	49.0	83.0	28.9	7.4	50.3
4	CLL17	Check	25.5	9.9	41.1	26.5	16.2	36.8	50.7	33.6	67.7	40.0	18.6	61.4
5	CLL17	EB	11.0	0.0	26.6	15.0	4.7	25.3	42.7	25.6	59.7	26.5	5.1	47.9
6	CLL17	LB	22.5	6.9	38.1	24.5	14.2	34.8	39.1	22.1	56.2	29.5	8.1	50.9
7	CLL19	Check	24.5	8.9	40.1	33.5	23.2	43.8	48.7	31.6	65.7	58.5	37.1	79.9
8	CLL19	EB	18.5	2.9	34.1	31.0	20.7	41.3	55.3	38.3	72.4	30.6	9.1	52.0
9	CLL19	LB	38.0	22.4	53.6	27.5	17.2	37.8	50.0	33.0	67.0	37.0	15.6	58.4
10	Cheniere	Check	34.0	18.4	49.6	60.0	49.7	70.3	68.7	51.6	85.7	68.2	46.8	89.7
11	Cheniere	EB	45.5	29.9	61.1	43.0	32.7	53.3	57.3	40.3	74.4	40.0	18.6	61.4
12	Cheniere	LB	38.5	22.9	54.1	42.5	32.2	52.8	58.7	41.6	75.7	34.0	12.6	55.4
13	Presidio	Check	26.5	10.9	42.1	14.0	3.7	24.3	54.0	37.0	71.0	29.2	7.8	50.6
14	Presidio	EB	31.0	15.4	46.6	19.5	9.2	29.8	52.0	35.0	69.0	26.0	4.5	47.4
15	Presidio	LB	18.0	2.4	33.6	19.5	9.2	29.8	33.5	16.4	50.5	23.2	1.8	44.6
16	CLJ01	Check	44.5	28.9	60.1	42.5	32.2	52.8	61.7	44.7	78.8	70.0	48.6	91.4
17	CLJ01	EB	36.0	20.4	51.6	40.5	30.2	50.8	57.7	40.7	74.8	38.0	16.6	59.4
18	CLJ01	LB	34.0	18.4	49.6	50.0	39.7	60.3	48.9	31.9	66.0	33.5	12.1	54.9
19	Titan	Check	49.5	33.9	65.1	30.7	20.4	41.0	43.3	26.3	60.4	44.1	22.6	65.5
20	Mermentau	Check	31.5	15.9	47.1	59.0	48.7	69.3	48.7	31.6	65.7	42.0	20.6	63.4

Table 30. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for grain **yield** (lb/A) from the four trials of Cercospora - Integrate Pest Management Study, Crowley and Lake Arthur, LA, 2023.

TRT	Variety	Timing	First Field (March) Est	First Field (March) Lower	First Field (March) Upper	Second Field (April) Est	Second Field (April) Lower	Second Field (April) Upper	Third Field (May) Est	Third Field (May) Lower	Third Field (May) Upper	First Field (Lake Arthur) Est	First Field (Lake Arthur) Lower	First Field (Lake Arthur) Upper
1	PVL03	Check	9,502	8,831	10,173	7,127	6,552	7,702	5,684	4,739	6,628	7,703	6,816	8,590
2	PVL03	EB	9,660	8,989	10,332	7,482	6,907	8,057	6,671	5,726	7,616	8,182	7,295	9,069
3	PVL03	LB	10,239	9,568	10,911	7,438	6,863	8,013	6,675	5,730	7,620	7,572	6,685	8,458
4	CLL17	Check	8,134	7,463	8,805	6,052	5,477	6,627	5,433	4,488	6,378	6,782	5,895	7,669
5	CLL17	EB	9,112	8,441	9,784	6,352	5,777	6,927	5,307	4,362	6,251	7,731	6,844	8,618
6	CLL17	LB	9,717	9,046	10,388	6,353	5,778	6,929	5,386	4,441	6,330	7,752	6,865	8,639
7	CLL19	Check	9,844	9,172	10,515	7,165	6,590	7,740	5,933	4,988	6,877	7,784	6,898	8,671
8	CLL19	EB	10,724	10,052	11,395	7,900	7,325	8,475	6,665	5,721	7,610	8,580	7,693	9,467
9	CLL19	LB	9,736	9,065	10,408	7,911	7,336	8,486	6,702	5,757	7,647	7,906	7,019	8,793
10	Cheniere	Check	8,003	7,332	8,674	6,508	5,933	7,083	4,114	3,170	5,059	6,550	5,663	7,437
11	Cheniere	EB	8,551	7,880	9,222	6,285	5,710	6,860	4,016	3,072	4,961	6,491	5,605	7,378
12	Cheniere	LB	8,445	7,773	9,116	6,776	6,201	7,351	3,659	2,714	4,603	6,503	5,616	7,390
13	Presidio	Check	7,588	6,916	8,259	5,868	5,293	6,443	5,090	4,146	6,035	5,429	4,542	6,316
14	Presidio	EB	7,782	7,111	8,454	6,082	5,507	6,657	5,311	4,366	6,255	5,407	4,520	6,294
15	Presidio	LB	8,016	7,344	8,687	5,769	5,194	6,344	4,365	3,420	5,310	5,900	5,013	6,787
16	CLJ01	Check	8,361	7,690	9,032	5,733	5,158	6,308	4,995	4,051	5,940	5,974	5,087	6,861
17	CLJ01	EB	8,654	7,983	9,325	6,024	5,449	6,600	5,039	4,094	5,984	6,288	5,402	7,175
18	CLJ01	LB	8,210	7,539	8,881	6,118	5,543	6,693	3,943	2,998	4,887	6,085	5,198	6,972
19	Titan	Check	8,815	8,143	9,486	6,152	5,577	6,727	3,574	2,629	4,518	5,776	4,889	6,663
20	Mermentau	Check	9,309	8,637	9,980	7,901	7,326	8,476	5,670	4,725	6,614	7,214	6,327	8,101

Table 31. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for milling yield – **total** grain (%) from the four trials of Cercospora - Integrate Pest Management Study, Crowley and Lake Arthur, LA, 2023.

TRT	Variety	Timing	First Field (March) Est	First Field (March) Lower	First Field (March) Upper	Second Field (April) Est	Second Field (April) Lower	Second Field (April) Upper	Third Field (May) Est	Third Field (May) Lower	Third Field (May) Upper	First Field (Lake Arthur) Est	First Field (Lake Arthur) Lower	First Field (Lake Arthur) Upper
1	PVL03	Check	72.8	72.2	73.3	71.1	70.8	71.5	66.3	63.6	69.1	72.2	71.8	72.6
2	PVL03	EB	72.8	72.3	73.3	71.1	70.7	71.4	69.5	66.7	72.2	73.2	72.9	73.6
3	PVL03	LB	73.2	72.6	73.7	71.5	71.2	71.9	70.0	67.3	72.7	72.5	72.1	72.8
4	CLL17	Check	71.8	71.3	72.4	71.3	71.0	71.7	67.8	65.0	70.5	72.5	72.1	72.8
5	CLL17	EB	72.0	71.5	72.5	71.4	71.1	71.8	68.3	65.5	71.0	73.1	72.7	73.4
6	CLL17	LB	72.7	72.1	73.2	71.4	71.0	71.7	67.8	65.1	70.6	72.9	72.5	73.3
7	CLL19	Check	71.5	70.9	72.0	70.2	69.8	70.5	65.0	62.3	67.7	71.5	71.1	71.9
8	CLL19	EB	71.1	70.5	71.6	70.3	70.0	70.7	67.2	64.5	70.0	71.8	71.5	72.2
9	CLL19	LB	72.0	71.4	72.5	70.4	70.1	70.8	68.0	65.2	70.7	71.8	71.4	72.2
10	Cheniere	Check	75.0	74.5	75.6	73.7	73.4	74.1	71.1	68.3	73.8	74.8	74.4	75.2
11	Cheniere	EB	75.3	74.8	75.8	73.9	73.5	74.2	71.5	68.7	74.2	74.9	74.5	75.3
12	Cheniere	LB	75.2	74.7	75.7	74.2	73.8	74.5	70.5	67.7	73.2	74.8	74.4	75.1
13	Presidio	Check	70.3	69.8	70.9	70.0	69.6	70.3	68.0	65.2	70.7	71.1	70.8	71.5
14	Presidio	EB	70.4	69.8	70.9	70.2	69.9	70.6	68.3	65.5	71.0	71.0	70.6	71.3
15	Presidio	LB	70.6	70.0	71.1	69.9	69.6	70.3	67.4	64.7	70.2	70.7	70.4	71.1
16	CLJ01	Check	72.5	71.9	73.0	71.4	71.0	71.7	69.6	66.9	72.4	72.8	72.5	73.2
17	CLJ01	EB	72.4	71.8	72.9	71.6	71.2	71.9	69.4	66.7	72.1	73.0	72.6	73.4
18	CLJ01	LB	72.2	71.7	72.7	71.7	71.4	72.1	65.9	63.2	68.7	73.0	72.6	73.3
19	Titan	Check	70.4	69.9	70.9	67.9	67.6	68.3	63.1	60.4	65.8	69.4	69.0	69.7
20	Mermentau	Check	72.4	71.9	73.0	72.7	72.3	73.0	68.2	65.4	70.9	73.1	72.8	73.5

Table 32. Estimated mean (Est), standard error (SE), and 95% confidence interval range (Lower and Upper) for milling yield – whole grain - **head** (%) from the four trials of Cercospora - Integrate Pest Management Study, Crowley and Lake Arthur, LA, 2023.

TRT	Variety	Timing	First Field (March) Est	First Field (March) Lower	First Field (March) Upper	Second Field (April) Est	Second Field (April) Lower	Second Field (April) Upper	Third Field (May) Est	Third Field (May) Lower	Third Field (May) Upper	First Field (Lake Arthur) Est	First Field (Lake Arthur) Lower	First Field (Lake Arthur) Upper
1	PVL03	Check	59.9	56.8	63.0	57.8	56.7	58.8	37.0	32.8	41.2	56.6	55.1	58.0
2	PVL03	EB	62.3	59.2	65.4	57.8	56.7	58.8	45.0	40.8	49.2	60.1	58.7	61.5
3	PVL03	LB	61.2	58.1	64.3	59.3	58.2	60.3	47.5	43.3	51.7	57.9	56.5	59.3
4	CLL17	Check	62.0	58.9	65.1	61.9	60.9	63.0	45.3	41.1	49.5	61.9	60.5	63.3
5	CLL17	EB	63.4	60.2	66.5	64.2	63.2	65.3	49.5	45.3	53.7	64.7	63.2	66.1
6	CLL17	LB	64.7	61.5	67.8	63.2	62.2	64.3	48.7	44.5	52.9	64.2	62.7	65.6
7	CLL19	Check	53.8	50.7	56.9	59.4	58.3	60.4	36.5	32.3	40.7	56.8	55.3	58.2
8	CLL19	EB	53.7	50.6	56.8	60.4	59.3	61.4	39.4	35.2	43.6	58.1	56.7	59.5
9	CLL19	LB	59.1	55.9	62.2	61.5	60.5	62.5	44.6	40.4	48.8	56.0	54.6	57.4
10	Cheniere	Check	68.9	65.8	72.0	67.9	66.8	68.9	56.4	52.2	60.6	67.8	66.4	69.2
11	Cheniere	EB	70.0	66.9	73.1	68.1	67.1	69.1	58.5	54.3	62.7	67.7	66.3	69.1
12	Cheniere	LB	70.2	67.1	73.3	69.0	68.0	70.0	57.5	53.3	61.7	68.0	66.6	69.4
13	Presidio	Check	52.8	49.7	55.9	59.1	58.1	60.1	30.0	25.8	34.2	50.5	49.0	51.9
14	Presidio	EB	55.1	52.0	58.2	60.2	59.1	61.2	31.0	26.8	35.2	50.4	49.0	51.8
15	Presidio	LB	55.2	52.1	58.3	59.5	58.5	60.5	31.3	27.1	35.5	50.6	49.2	52.0
16	CLJ01	Check	67.6	64.5	70.7	65.9	64.8	66.9	59.0	54.8	63.2	67.7	66.3	69.1
17	CLJ01	EB	64.4	61.3	67.5	67.0	65.9	68.0	59.2	55.0	63.4	68.1	66.7	69.5
18	CLJ01	LB	67.8	64.6	70.9	67.8	66.7	68.8	54.7	50.5	58.9	67.3	65.8	68.7
19	Titan	Check	63.9	60.7	67.0	60.3	59.3	61.3	44.5	40.3	48.7	61.7	60.2	63.1
20	Mermentau	Check	63.8	60.6	66.9	66.5	65.4	67.5	51.1	46.9	55.3	64.8	63.4	66.2

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. The commercial varieties PVL03, AddieJo, CLL19, and Jupiter were also included. Dermacor-treated and non-treated plots were planted on May 3, 2023, in a randomized complete block design with 5 replications.

Weevil cores were collected on June 20 and June 30, 2023. The numbers of stem borer-associated whiteheads were recorded at 100% heading on August 3, 2023. Plots were harvested for collection of yield data on August 31, 2023. All data was analyzed with generalized linear mixed models (SAS Proc Glimmix) with variety, seed treatment, and the interaction as fixed effects and replication as a random effect. Means were separated with Tukey's HSD.

RWW infestations at the first coring date were influenced by insecticidal seed treatments, but not variety or the interaction (Table 1). Across varieties, RWW densities were 2.8-fold greater in non-treated plots (44.8 ± 2.5 [SE] larvae/core) than in lower in Dermacor-treated (15.8 larvae/core). RWW density at the second coring date was influenced by insecticide and variety, but not the interaction (Table 1). Across varieties, larvae per core were lower in Dermacor-treated (14.9) than non-treated (23.5). Across treatments, RWW infestations were greater in RU210218 (27.0 ± 4.2 [SE] larvae/core) than in LA212166 (14.3) with other varieties having intermediate levels. Whitehead density was not affected by variety, insecticide, or the interaction. Rice yield was affected by variety and insecticide treatment, but not the interaction. Across insecticide treatments, yield was greatest in RU210221 (8,583 ± 227 [SE] lbs/acre) and 201L1251 (8,310) and least in Jupiter (4,369). Across varieties, yield was 10% greater in Dermacor-treated (7,292 ± 95.3 [SE] lbs/acre) than non-treated plots (6,636).

Results indicate that though some varieties have lower levels of RWW infestation, none possesses resistance sufficient to discontinue insecticide use. Varieties also differed in their yield response to RWW infestation. Continued screening of advanced varieties will allow for determination of pest susceptibility levels prior to the commercial release of new varieties.

Table 1. RWW infestations and rice yield as affected by varieties, H. Rouse Caffey Rice Research Station, 2023.

Treatment		Immature RRW Per Core Core 1 (± 10.5 SE)	Immature RRW Per Core Core 2 (± 6.8 SE)	Yield (lbs/acre)
Jupiter	Treated	9.9	18.3	5,386
	Nontreated	51.3	27.8	4,423
AddiJo	Treated	13.5	15.1	6,577
	Nontreated	32.8	14.6	6,662
CLL19	Treated	13.5	12.8	9,469
	Nontreated	50.0	25.8	8,331
LA212166	Treated	14.5	11.9	8,325
	Nontreated	41.5	16.8	7,037
203L1104	Treated	24.4	15.6	8,062
	Nontreated	55.8	28.1	6,768
201L1251	Treated	22.3	17.0	9,665
	Nontreated	46.9	22.5	8,994
RU212070	Treated	17.9	8.9	7,828
	Nontreated	57.8	25.5	7,378
RU210218	Treated	15.5	21.1	8,602
	Nontreated	33.5	33.0	7,958
RU210221	Treated	11.1	13.1	9,996
	Nontreated	34.3	18.3	9,277
Variety	$F_{8, 54}$ =	1.35	2.01	66.43
	P =	0.26	0.062	<0.001
Seed Treatment	$F_{1, 54}$ =	73.87	19.04	37.86
	P =	<0.001	<0.001	<0.001
Variety x Seed Treatment	$F_{8, 54}$ =	0.74	0.81	1.56
	P =	0.657	0.596	0.161

EVALUATION OF VANTACOR INSECTICIDE AGAINST THE RICE WATER WEEVIL (*LISSORHOPTRUS ORYZOPHILUS*) IN RICE

T.R. Musgrove, K.J. Landry, and B.E. Wilson

The rice water weevil (RWW) (*Lissorhoptrus oryzophilus*) continues to be the most economically significant pest in Mid-southern rice production. Larvae prune rice roots which significantly reduces nutrient uptake, tiller production, and yield. Neonicotinoid and anthranilic diamide seed treatments are the most common and effective way to control RWW larvae. Continued evaluations of chemical efficacy, for both insecticidal seed treatments and foliar-applied insecticides, are ongoing to support RWW management in rice.

Two tests were planted with cultivar 'PVL03' in 2023 to evaluate Vantacor insecticide (chlorantraniliprole, FMC Corp., Philadelphia, PA) as a foliar treatment in drill-seeded, delayed-flood rice in addition to impregnation on urea fertilizer in water-seeded rice. Each test was arranged in a randomized complete block design with four replications. For all foliar treatments, insecticide was applied with a CO_2-perssurized backpack sprayer calibrated to deliver 15 gallons per acre. Seed treatments were prepared as a slurry and mixed with seed in large mason jars placed on motorized rollers. The seed/slurry mixture was allowed to tumble for 10 minutes until seed was fully coated. Experimental treatments in the delayed-flood test were Dermacor X-100 seed treatment (1.75 oz/acre) (chlorantraniliprole, Corteva Agriscience, Indianapolis, IN), Cruiser 5FS seed treatment (2.2 oz/acre) (thiamethoxam, Corteva Agriscience, Indianapolis, PA), foliar-applied Warrior II at pre-flood (2.56 oz/acre) (lambda-cyhalothrin, Syngenta, Wilmington, DE), Cruiser 5FS seed treatment (2.2 oz/acre) + foliar-applied Vantacor at planting (1.7 oz/acre), Cruiser 5FS seed treatment (2.2 oz/acre) + foliar-applied Vantacor pre-flood (1.7 oz/acre), foliar-applied Vantacor alone at planting (1.7 oz/acre), foliar-applied Vantacor alone pre-flood (1.7 oz/acre), and an untreated check. Experimental treatments in the water-seeded test were Dermacor X-100 seed treatment (1.75 oz/acre), Cruiser 5FS seed treatment (2.2 oz/acre) + Vantacor (1.7/acre) impregnated on urea fertilizer (250 lb/acre), Vantacor alone (1.7/acre) impregnated on urea fertilizer (250 lbs/acre), foliar-applied Vantacor alone pre-flood (1.7 oz/acre), and an untreated check. In both tests, RWW larvae densities were quantified per soil core (average of three cores/plot at two core dates). Data was subjected to a generalized linear mixed model to test the effect of insecticide treatment on RWW larvae densities. Rep was treated as a random effect and means were separated using Tukey's HSD (α=0.05).

The average number of RWW larvae/soil core in the delayed-flood and water-seeded tests were 13.9 and 15.9, respectively. In the delayed-flood test, foliar treatments regardless of application timing did not achieve greater control than treatments containing an insecticidal seed treatment (Table 1.). In the water-seeded test, no treatment effectively controlled RWW larvae compared to the untreated check (Table 2.). Results of this study indicate that Vantacor is not a suitable fit for RWW control in rice. Additionally, water-seeding may have a severe impact on insecticidal seed treatment efficacy and caution should be taken if the practice cannot be avoided.

Table 1. RRW infestations as affected by insecticide treatments in drill-seeded, delayed-flood rice (± 1.9 [SE]), Crowley, LA, 2023.

Treatment	Rate	Foliar app. timing	Larvae/core
Dermacor X-100	1.5 oz/acre	ST	5.5 d
Cruiser 5FS	2.2 oz/acre	ST	7.4 cd
Cruiser 5FS + Vantacor	2.2 oz/acre + 1.7 oz/acre	ST + at planting	9.0 cd
Cruiser 5FS + Vantacor	2.2 oz/acre + 1.7 oz/acre	ST + pre-flood	8.4 cd
Vantacor	1.7 oz/acre	at planting	24.2 a
Vantacor	1.7 oz/acre	pre-flood	21.1 ab
Warrior II	2.56 oz/acre	pre-flood	15.0 bc
UTC	-	-	20.7 ab
		$F_{7, 181}$ =	15.96
		P =	<0.0001

Table 2. RRW infestations as affected by insecticide treatments in water-seeded rice (± 2.2 [SE]), Crowley, LA, 2023.

Treatment	Rate	Larvae /core
Dermaxor X-100	1.75 oz/acre	12.8
Cruiser 5FS + Vantacor-impregnated urea	2.2 oz/acre + 1.7 oz/acre	13.2
Vantacor-impregnated urea	1.7 oz/acre	16.8
Vantacor foliar app.	1.7 oz/acre	20.5
UTC		16.3
	$F_{4, 28}$ =	2.10
	P =	0.1069

IMPACT OF INSECTICIDAL SEED TREATMENTS IN FURROW-IRRIGATED RICE

T.R. Musgrove, K.J. Landry, and B.E. Wilson

Furrow-irrigated rice (FIR) is grown on limited acres in Louisiana and is expected to rise with increased availability of federal "climate-smart" subsidy programs. This system is a major departure from flood-irrigated practices that have dominated rice cultivation for over a millenia. Advantages of FIR include improved water use efficiency, reduced land preparation and labor costs, and more streamlined crop rotation. Insect management in FIR heavily borrows from practices used in flood-irrigated rice, especially the use of insecticidal seed treatments (ISTs). However, little information is available demonstating that ISTs are equally as important in FIR as they are in flooded rice. Field experiments are on-going to determine the impact of ISTs in FIR for control of key insect pests and improving yields.

Using cultivar 'RT7401', insecticidal seed treatments were evaluated alone, and in combination, in a small plot trial in 2023 in a split-plot, randomized complete block design with four replications. Two irrigation treatments (end-blocked vs tail-water release) were included as mainplot factors and the experiment was repeated across two planting dates (March 22, 2023 and May 3, 2023). Seed treatments were prepared as a slurry and mixed with seed in large mason jars placed on motorized rollers. The seed/slurry mixture was allowed to tumble for 10 minutes until seed was fully coated. Insecticidal seed treatments tested were NipsIt Inside (clothianidin, Valent, at 0.576 oz per acre), Dermacor X-100 (chlorantraniliprole, Corteza Agiscience, at 1.5 oz per acre), Fortenza (cyantraniliprole, FMC Corp., at 1.05 oz per acre), Cruiser 5FS (thiamethoxam, Corteva Agriscience, at 1.104 oz per acre), and combination treatments were Fortenza + Cruiser 5FS, Dermacor X-100 + Cruiser 5FS, and Dermacor X-100 + Fortenza + Cruiser 5FS compared to an untreated check. Rice water weevil (*Lissorhoptrus oryzophilus*) and rice billbug (*Sphenophorus pertinax*) larvae were quantified per soil core and m^2, respectively. Rice was harvested with a whole-plot combine and yields were adjusted to 12% grain moisture. Data was subjected to a generalized linear mixed model to test the effect of planting date, irrigation, and IST on larvae densities and yield. Rep was treated as a random effect and means were separated using Tukey's HSD (α=0.05). A SLICE function was used to isolate the IST X irrigation interaction within planting date.

When pooling planting date, irrigation, and IST, RWW larvae densities averaged <1 larva per soil core, indicating that RWW is not a threat to FIR. A total of two billbug larvae were collected from test plots and eliminated from analysis. Analysis of harvest data revealed ISTs did not improve yield compared to the untreated check and that end-blocked irrigation consistently improved yields compared to tail-water release (Table 1). Results are consistent with reports that FIR fields using a tail levee will see higher yields where irrigation water accumulates at the bottom end due to end-blocking. Additionally, results suggest that the widespread adoption of ISTs in FIR is not likely to result in economic returns.

Table 1. Rough rice yield (lbs/acre) as affected by planting date, irrigation, and insecticidal seed treatment in FIR (± 399.13). The insecticidal seed treatment x irrigation interaction was isolated within planting date using the SLICE statement (SAS Institute, 2023).

Insecticidal seed treatment	Early Planting Blocked	Early Planting Release	Late Planting Blocked	Late Planting Release
Cruiser 5FS	7682 a	4888 b	7229 a	4356 b
NipsIt Inside	7356 a	4996 b	7539 a	4086 b
Dermacor X-100	7424 a	4624 b	7271 a	4128 b
Fortenza	7655 a	4974 b	7564 a	4520 b
Dermacor X-100 + Cruiser 5FS	7216 a	4367 b	7369 a	4191 b
Fortenza + Cruiser 5FS	7213 a	4904 b	7402 a	3993 b
Dermacor X-100 + Fortenza + Cruiser 5FS	7399 a	4515 b	7431 a	4580 b
Untreated	7905 a	4283 b	7484 a	3573 b
SLICE, $F_{15, 84}$ =	3.58		4.35	
P =	<0.0001		<0.0001	

INSECTICIDE SEED TREATMENT EFFICACY

K.J. Landry, B.E. Wilson, and T.R. Musgrove

Insecticidal seed treatment is an accepted practice for producers to control rice water weevil (RWW), *Lissorhoptrus oryzophilus*, stem boring lepidoptera and other lesser insect pests in rice production. Cruiser (Thiamethoxam), Dermacor (Chlorantraniliprole), Fortenza (Cyantrailiprole) and Nipsit Inside (Clothianidin) are insecticide seed treatments for rice seed. Recent reports of control failures at labeled rates in late planted rice have given rise to concerns about insecticide resistance. A research trial was conducted to evaluate the efficacy of these products at multiple rates and planting dates. An early planting date of March 16, 2023, and a late planting date of May 18, 2023, were applied to compare the response of insecticidal seed treatments to variable environmental conditions.

Cheniere rice seed was treated at the label rate, 2×rate, and 3× rate with Cruiser, Dermacor, Fortenza, and Nipsit Inside in addition to a non-treated control. Field experiments were conducted at the LSU AgCenter H. R. Caffey Rice Research Station in Rayne, Louisiana in 2023. Seeds were drill-planted in small plots (1.4 m X 4.9 m with 7 rows at 18 cm spacing). Treatments were assigned to plots following a randomized complete block design with 4 blocks and one replicate per block. Permanent flood was established at 4 to 5 weeks after planting. Weevil larvae populations were quantified by collecting three root/soil core samples per plot, removing soil/larvae from root, and counting the number of larvae. Data was analyzed using generalized linear mixed model (SAS. PROC GLMMIX) with insecticide treatment for early and late planting. Means were separated using Tukey's HSD (a=0.05). Results demonstrate that Dermacor and Fortenza provide effective control of rice water weevil in early- and late-planted rice (Figure 1). Cruiser and Nipsit Inside did not improve protection as compared to the nontreated check. Further research is needed with insecticide seed treatment efficacy to establish effective control.

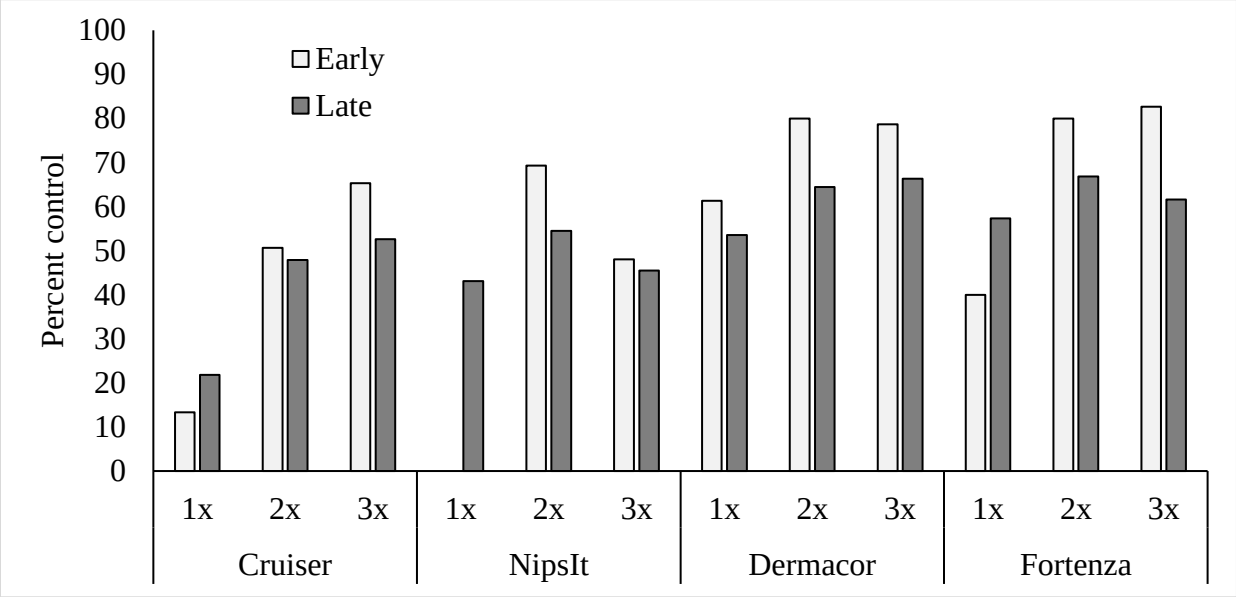
Table 1. The influence of insecticidal seed treatments on insect pests and yields, early-planted trial, Crowley, LA, 2023.

Treatment	Rate*	RWW 6/23	RWW 6/30	Whiteheads/m^2	Yield (lbs/acre)
Non-treated	NA	6.9 a	14.9 ab	0.4 abc	3,083
Dermacor X100	1×	7.2 b	12.4 ab	0.2 c	4,809
	2×	5.9 b	9.1 ab	0.3 abc	5,854
	3×	15.3 b	9.0 ab	0.4 abc	5,167
Fortenza	1×	4.2 abc	7.4 b	0.6 abc	5,994
	2×	5.9 b	8.0 b	0.6 abc	4,988
	3×	8.9 b	7.4 b	0.7 abc	4,671
Cruiser	1×	5.4 abc	19.3 a	1.1 ab	3,689
	2×	10.1 b	12.0 ab	1.2 a	3,307
	3×	9.3 b	10.7 ab	0.8 abc	4,586
NipsIt	1×	6.6 ab	11.3 ab	0.4 abc	4,361
	2×	10.7 b	9.0 ab	0.1 abc	3,748
	3×	9.3 b	13.3 ab	1.2 a	3,189
	SE =	1.1	2.2	0.2	731
	$F_{12, 39}$ =	4.42	2.68	4.0	0.95
	P =	<0.001	0.011	<0.001	0.506

Table 2. The influence of insecticidal seed treatments on insect pests and yields, late-planted trial, Crowley, LA, 2023.

Treatment	Rate*	RWW 6/23	RWW 6/30	Whiteheads/m^2	Yield (lbs/acre)
Non-treated	NA	27.3 a	14.9 ab	0.4 abc	3,083
Dermacor X100	1×	7.2 b	12.4 ab	0.2 c	4,809
	2×	5.9 b	9.1 ab	0.3 abc	5,854
	3×	15.3 b	9.0 ab	0.4 abc	5,167
Fortenza	1×	10.8 b	7.4 b	0.6 abc	5,994
	2×	5.9 b	8.0 b	0.6 abc	4,988
	3×	8.9 b	7.4 b	0.7 abc	4,671
Cruiser	1×	13.8 ab	19.3 a	1.1 ab	3,689
	2×	10.1 b	12.0 ab	1.2 a	3,307
	3×	9.3 b	10.7 ab	0.8 abc	4,586
NipsIt	1×	12.6 b	11.3 ab	0.4 abc	4,361
	2×	10.7 b	9.0 ab	0.1 abc	3,748
	3×	9.3 b	13.3 ab	1.2 a	3,189
	SE =	2.8	2.2	0.2	731
	$F_{12, 39}$ =	4.15	2.68	4.0	0.95
	P =	<0.001	0.011	<0.001	0.506

Table 3. Percentage control of RWW with three insecticidal seed treatment rates.



EVALUATION OF FOLIAR-APPLIED INSECTICIDES FOR CONTROL OF RICE STINK BUG

C.E. Gambino, B.E. Wilson, K.J. Landry, and T.R. 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 are needed because of concerns about development of pyrethroid resistance.

Foliar applied insecticides were evaluated in a small plot trial in 2023 in a randomized block design with four replications. Pre-treatment sweep net samples revealed mean captures across plots were 8.1 RSB adults and nymphs per 10 sweeps, well above the recommended treatment threshold of three per 10 sweeps. Insecticides were applied July 25, 2023, with a CO_2-pressurized backpack sprayer calibrated to deliver 15 gallons per acre. Insecticide treatments included Warrior® (lambda-cyhalothrin, at 1.9 fl oz/acre), Endigo ZCX® (lambda-cyhalothrin + thiamethoxam at 5.6 fl oz/acre), Platinum® 75SG (thiamethoxam at 5 fl oz/acre), Tenchu® 20SG (dinotefuran, at 8.0 fl oz/acre), and Plinazolin® (isocycloseram at 2.0 fl oz/acre). RSB captures were recorded from ten sweeps per plot at 1, 3, and 6 days after treatment (DAT). Data from each sampling date was 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 1 DAT, but not on the other sampling dates. Refer to the four sampling dates (Table 1). Endigo provided the best control at 1 DAT. Sweep net captures across all treatments were above the economic threshold of three per 10 sweeps on all sampling dates. 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, 2023.

Treatment	RSB (Adults & Nymphs) per 10 sweeps Pre-treatment	RSB (Adults & Nymphs) per 10 sweeps 1 DAT	RSB (Adults & Nymphs) per 10 sweeps 3 DAT	RSB (Adults & Nymphs) per 10 sweeps 6 DAT
Non-treated Control	6.8	2.8 a	3.0 a	1.4
Warrior	5.0	1.0 ab	0.8 b	1.2
Endigo ZCX	6.8	0.2 b	1.8 ab	1.2
Platinum	7.8	0.6 b	1.2 ab	1.4
Plinazolin	11.8	2.0 ab	1.2 ab	0.6
Tenchu	10.6	0.4 b	1.6 ab	1.6
$F_{5,20}$ =	1.30	5.15	2.55	0.28
P =	0.290	0.003	0.060	0.918

EVALUATION OF INSECTICIDAL SEED TREATMENTS FOR CONTROL OF RICE WATER WEEVIL

B.E. Wilson, C. Gambino, K.J. Landry, T. Musgrove

The rice water weevil (RWW), *Lissorhoptrus oryzophilus* Kuschel, represents the biggest threat to rice throughout the southern U.S. RWW feeding on rice roots results in major yield losses when fields are left untreated. Root injury reduces tiller numbers, grain weights, and grains per panicle. The use of insecticidal seed treatments has been the primary control for RWW and may provide some level of control for a complex of stem borers made up primarily of *Eoreuma loftini*. Treatment of seeds with chlorantraniliprole, thiamethoxam, or clothianidin has resulted in effective control of RWW larvae. Continued evaluations of seed treatment efficacy against RWW are needed because of concerns about the development of insecticide resistance.

Insecticidal seed treatments were evaluated in a small-plot trial in 2023 in a randomized block design with four replications. Clearfield variety CL163 was treated with Cruiser 5 FS (thiamethoxam 47.6%; supplied by Syngenta Corporation), Fortenza (Cyantraniliprole 48.8%; supplied by Syngenta Corporation) both alone and in a mix, NipsIt INSIDE™ (clothianidin 47.5%; supplied by Valent USA), and Dermacor X-100 (chlorantraniliprole 50%; supplied by Corteva Agriscience), both alone and in a mix. Each plot measured 16ft × 4.9ft and was planted on April 25. Permanent flood was applied to the field on May 26, four weeks after planting. Densities of immature rice water weevils (larvae and pupae) were determined at two time points after flooding by using a soil-root core sampler with a diameter of 9.2 cm and a depth of 7.6 cm. Core sampling was done at two points after flooding on June 23 and June 30, approximately 4 and 5 weeks after permanent flooding. Fields were also treated with a fungicide on July 13. White heads were counted on August 11 for stemborer activity.

Data from each sampling was analyzed using generalized linear mixed models (SAS Proc GLIMMIX) with treatment as a random effect and replication as a fixed effect. The only significant influence of any insecticidal seed treatments recorded was on white head densities with the Dermacor and the combination of NipsIt + Dermacor ($F_{4,15}$ = 3.33; p = 0.047).

Table 1. RWW larval densities were not significantly influenced by seed treatment, but white head densities were at the H. Rouse Caffey Rice Research Station, 2023.

Treatment	Stand/ft^2	RWW 6/23	RWW 6/30	Whiteheads Per m^2	Yield (lbs/acre)	Adjusted yield (lbs/acre)
NipsIt	16.5	20.3	11.7	0.07 b	6,936	5,957
Dermacor	14.0	9.1	7.0	0.03 b	6,332	5,321
Cruiser	15.0	20.2	11.3	0.22 a	6,952	5,854
NipsIt + Derm.	15.3	14.9	10.8	0.03 b	7,054	5,977
Cruiser + Fort.	15.8	28.9	12.4	0.26 a	6,938	5,994
SE =	0.8	6.0	2.7	0.06	213	165
$F_{4, 15}$ =	1.54	1.48	0.62	3.33	2.03	3.12
P =	0.253	0.259	0.658	0.047	0.154	0.056

RICE WEED MANAGEMENT

L. C. Webster, J.A. Williams, M.P. Arcement, W. B. Carr, C. Benoit, D. Zaunbrecher, B. Stoker, E. M. Williams

Research Summary to Date: Fifty-eight weed management studies were conducted across the H. Rouse Caffey Rice Research Station (RRS), Northeast Research Station (NERS), and producer locations in Louisiana in 2023. The project continues to address key problems for Louisiana rice growers with research-based solutions.

Evaluation of a Novel Herbicide, Tetflupyrolimet. Tetflupyrolimet is a new mode of action (dihydrooroate dehydrogenase inhibitor) and is the first new mode of action in over three decades. Tetflupyrolimet is a preemergence grass residual herbicide that controls barnyardgrass, broadleaf signalgrass, and amazon sprangletop, with little to no crop injury. Research trials were expanded from 9 in 2022 to 13 trials in 2023 across the Rice Research Station in Crowley, LA and the Northeast Research Station in St. Joseph, LA. Studies were conducted to evaluate tetflupyrolimet across multiple water management systems including a delayed flood, water-seeded pinpoint flood, and row rice on multiple soil types. Studies evaluated optimal rate ranges across soil types, how tetflupyrolimet fits into complete herbicide programs, early season water-seeded application timings, optimal preemergence and delayed preemergence herbicide mixtures, and applying tetflupyrolimet impregnated on basic fertilizer at planting.

Provisia Rice Line Tolerance. Studies were conducted on the RRS North Farm and South Farm in collaboration with Dr. Adam Famoso's project to evaluate the tolerance of Provisia rice lines PVL02, PVL03, and PVL04, 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 fl oz/A followed by 15.5 fl oz/A and 31 fl oz/A followed by 31 fl oz/A. A nontreated line was added for comparison for each line that was evaluated. The trial on the South Farm was planted in early March and the trial on the North Farm was not planted until mid to late April. Injury ranged from 13 to 37% 14 days after the first 15.5 fl oz/A application and 30 to 65% 14 days after the first 31 fl oz/A application across all lines in the earlier trial on the South Farm. Injury never exceeded 7% for the later planted trial that was located on the North Farm. These drastic differences in injury are a direct result of adverse weather earlier in the growing season. The results from these trials will greatly assist in deciding which advanced lines will be commercialized.

Simulated Newpath/Preface Carryover in PVL03, Cheniere, and Jupiter. Carryover of imazethapyr is a growing topic of concern with the shift of many Clearfield/Fullpage acres into ACCase resistant rice and/or conventional rice lines. Many of the issues that have been experienced are due to the anerobic conditions during crawfish production that are preventing the breakdown of imazethapyr. Studies were conducted to evaluate the yield effects of carryover of imazethapyr to commonly planted rice cultivars in Louisiana. Prior to planting, low rates of Preface were applied to bare soil and flushed to incorporate the herbicide into the soil profile. The rates ranged from 0 to 1 fl oz/A of Preface in $1/8^{th}$ of an ounce increments. These rates were derived based on soil samples that were taken on farms that were experiencing carryover symptoms. Due to preliminary results these studies will be refined and repeated over the coming years.

Simulated Overcast Weather Conditions and How Overcast Weather Influences Provisia Injury. Due to the increased injury of Provisia rice from applications of Provisia this year as well as 2021, the project implemented studies to better understand adverse weather effects on herbicide injury. In June, studies were initiated to determine how overcast weather patterns affect Provisia injury. Three studies were designed with different levels of shade cloths covering the plots to simulate different degrees of solar radiation. Each study included a different period of shade in relation to the Provisia herbicide application. One study introduced shade to the plots 7 days prior to the Provisia herbicide application, the other introduced shade 7 days after application, and the third introduced shade continuously 7 days prior to 7 days after application. Also, by planting later in the year, this allowed for the removal of cold weather from the equation and to evaluate overcast weather alone. Due to the later planting of this study, the study is still currently ongoing. This study will be repeated two times next year with an early timing to factor in cooler temperatures and a later timing to factor in warmer temperatures.

Identification and Control of Fimbristylis. Each year the project receives substantially more questions regarding the control of Fimbristylis. In 2022, an on-farm trial was conducted in a green rice field on Hebert Farms in Abbeville, LA, and is currently being repeated this year. The results from this on-farm research have made a substantial impact on rice production in south Louisiana. The information gained from this study was disseminated at winter production meetings and provided the vital information needed for recommendations that were made throughout the 2023 growing season. Of the herbicides evaluated, 2,4-D provided the highest levels of control followed by Grandstand, Novixid, and Regiment. Additional studies were conducted this year to evaluate Fimbristylis size and herbicide interactions as well as residual control options.

LSU AgCenter
School of Plant, Environmental and Soil Sciences

Gambit Burndown Program

Experiment number	:	**C23-01**
Location	:	RRS-Crowley, LA
Experimental design	:	RCB
Number of reps	:	3
Plot size	:	10'x30'
Row width/# per plot	:	7.5"/16
Soil type	:	Crowley silt loam (3% sand, 69% silt, 28% clay)
% OM	:	1.4
pH	:	6.4
CEC	:	19.1
Crop/Variety	:	NA
Planting date	:	NA
Emergence date	:	NA
Harvest date	:	NA
Uniform standard treatment	:	Provisia 15.5 fl oz/A on 5/19/23
Application type	:	Burndown
Date applied [mm/dd/yy]	:	4/12/2023
Time [hh:mm-hh:mm]	:	10:20-10:45a
Air/Soil temperature [F]	:	68/60
Relative humidity [%]	:	68%
Wind [mph, direction]	:	6-8, NE
Weather [sunny, etc.]	:	Cloudy
Soil/Leaf surface moist	:	Wet/Dry
Crop stage/Height	:	Burndown
Sprayer type/MPH	:	BKPK/3.0
Nozzle type/Size*	:	FF11001
Boom ht/# Noz/Spacing	:	20/7/20
GPA/PSI	:	10/33
Applied by	:	LCW/EAB
Weed Species (population)	:	(height/#leaves)
CNPPA (6-8m^2)	:	2-4"/2-4lf
ALRPH (2-4m^2)	:	6-10"/12-16lf
ECLAL (2-3m^2)	:	6-10"/16-20lf
SLENDER ASTER (1-3m^2)	:	6-8"/10-15lf
ECHCG (10-15m^2)	:	0.5-1"/1-2lf
TOIAR (4-5m^2)	:	6-8"/30-40lf
SOVSE (4-6m^2)	:	1-2"/10-20lf
Flush Dates	:	NA
Permanent Flood	:	NA

*AMMF – Air mix flat fan nozzles

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Gambit Burndown Programs

Trial ID: C23-01
Protocol ID: C23-01 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3	4*
	Rating Date						Apr-27-2023	May-8-2023	Jun-1-2023	Apr-27-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						ALRPH	ALRPH	ALRPH	CNPPA
	Trt-Eval Interval						16 DAT	26 DAT	50 DAT	16 DAT
	Number of Decimals						0	0	0	0
1	Nontreated						0 b	0 b	0	0 d
2	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	98 a	93 a		85 c
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
3	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	98 a	93 a		88 c
	Gambit	0.037	lb ai/a	0.75	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
4	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	98 a	93 a		88 bc
	Gambit	0.0494	lb ai/a	1	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
5	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	98 a	93 a		91 abc
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
6	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	98 a	95 a		97 ab
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Aim	0.0156	lb ai/a	1	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
7	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	98 a	95 a		97 ab
	Sharpen	0.0445	lb ai/a	2	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
8	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	99 a	92 a		98 ab
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Sharpen	0.0223	lb ai/a	1	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
9	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	98 a	97 a		98 a
	Gambit	0.0494	lb ai/a	1	oz/a	Burndown				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
	LSD P=.05						0.50	5.20		6.50
	Standard Deviation						0.30	3.00		3.80
	CV						0.30	3.63		4.59
	Levene's F^						0.677	0.465		0.427
	Levene's Prob(F)						0.705	0.865		0.890
	Shapiro-Wilk^						0.9228*	0.9169*		0.9636
	P(Shapiro-Wilk)^						0.0462*	0.0332*		0.4456
	Skewness^						0.0000	-0.9444		-0.1187
	P(Skewness)^						1.0000	0.0561		0.8036
	Kurtosis^						2.5168*	0.3543		-0.1620
	P(Kurtosis)^						0.011*	0.7032		0.8616
	Replicate F						30.400	0.451		9.2550
	Replicate Prob(F)						0.000	0.645		0.0021
	Treatment F						46453.205	320.727		206.069
	Treatment Prob(F)						0.0001	0.0001		0.0001

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Gambit Burndown Programs

Trial ID: C23-01
Protocol ID: C23-01 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	5*	6*	7*	8*
	Rating Date						May-8-2023	Jun-1-2023	Apr-27-2023	May-8-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						CNPPA	CNPPA	ECHCG	ECHCG
	Trt-Eval Interval						26 DAT	50 DAT	16 DAT	26 DAT
	Number of Decimals						0	0	0	0
1	Nontreated						0 d	0 d	0 b	0 b
2	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	47 c	0 d	98 a	90 a
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
3	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	87 a	57 c	98 a	88 a
	Gambit	0.037	lb ai/a	0.75	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
4	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	92 a	83 a	98 a	82 a
	Gambit	0.0494	lb ai/a	1	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
5	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	47 c	0 d	98 a	82 a
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
6	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	67 b	0 d	98 a	87 a
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Aim	0.0156	lb ai/a	1	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
7	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	70 b	0 d	98 a	87 a
	Sharpen	0.0445	lb ai/a	2	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
8	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	82 a	0 d	99 a	82 a
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Sharpen	0.0223	lb ai/a	1	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
9	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	85 a	70 b	98 a	85 a
	Gambit	0.0494	lb ai/a	1	oz/a	Burndown				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
	LSD P=.05						9.50	3.80	0.50	12.10
	Standard Deviation						5.50	2.20	0.30	7.00
	CV						8.55	9.45	0.30	9.19
	Levene's F^						0.925	0.863	0.68	0.483
	Levene's Prob(F)						0.520	0.563	0.71	0.853
	Shapiro-Wilk^						1.0	0.7905*	0.9228*	0.9088*
	P(Shapiro-Wilk)^						0.2	0.0*	0.0462*	0.0214*
	Skewness^						-0.0293	-1.5611*	0.00	-1.0182*
	P(Skewness)^						0.9510	0.0028*	1.00	0.0405*
	Kurtosis^						0.6700	5.98*	2.5168*	1.2964
	P(Kurtosis)^						0.4729	0.0*	0.011*	0.1705
	Replicate F						7.070	0.571	30.400	1.279
	Replicate Prob(F)						0.0063	0.5758	0.0001	0.3052
	Treatment F						85.047	783.429	46453.205	50.482
	Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001

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Gambit Burndown Programs

Trial ID: C23-01
Protocol ID: C23-01 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	9*	10*	11*	12*
Rating Date							Jun-1-2023	Apr-27-2023	May-8-2023	Jun-1-2023
Rating Type							CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECLAL	ECLAL	ECLAL
Trt-Eval Interval							50 DAT	16 DAT	26 DAT	50 DAT
Number of Decimals							0	0	0	0
1	Nontreated						0 -	0 b	0 b	0 d
2	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	99 -	98 a	96 a	0 d
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
3	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	99 -	98 a	99 a	84 b
	Gambit	0.037	lb ai/a	0.75	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
4	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	99 -	98 a	99 a	94 a
	Gambit	0.0494	lb ai/a	1	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
5	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	99 -	98 a	86 a	0 d
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
6	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	99 -	98 a	94 a	0 d
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Aim	0.0156	lb ai/a	1	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
7	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	99 -	98 a	99 a	37 c
	Sharpen	0.0445	lb ai/a	2	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
8	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	99 -	99 a	99 a	40 c
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Sharpen	0.0223	lb ai/a	1	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
9	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	99 -	98 a	99 a	96 a
	Gambit	0.0494	lb ai/a	1	oz/a	Burndown				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
LSD P=.05							.	0.50	13.10	8.50
Standard Deviation							0.00	0.30	7.50	4.90
CV							0.00	0.30	8.83	12.52
Levene's F^							.	0.677	0.51	1.136
Levene's Prob(F)							.	0.705	0.83	0.387
Shapiro-Wilk^							.	0.9228*	0.8041*	0.8536*
P(Shapiro-Wilk)^							.	0.0462*	0.0002*	0.0014*
Skewness^							.	0.0000	-1.3985*	0.6291
P(Skewness)^							.	1.0000	0.0065*	0.1945
Kurtosis^							.	2.5168*	6.044*	4.7264*
P(Kurtosis)^							.	0.011*	0.0*	0.0*
Replicate F							0.000	30.400	2.222	0.337
Replicate Prob(F)							1.0000	0.0001	0.1407	0.7191
Treatment F							0.000	46453.205	55.077	227.107
Treatment Prob(F)							1.0000	0.0001	0.0001	0.0001

LSU AgCenter SPESS

Gambit Burndown Programs

Trial ID: C23-01
Protocol ID: C23-01 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	13*	14*	15*	16*
	Rating Date						Apr-27-2023	May-8-2023	Jun-1-2023	Apr-27-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						SOVSE	SOVSE	SOVSE	TOIAR
	Trt-Eval Interval						16 DAT	26 DAT	50 DAT	16 DAT
	Number of Decimals						0	0	0	0
1	Nontreated						0 b	0 b	0 -	0 c
2	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	98 a	99 a	99 -	68 b
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
3	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	98 a	99 a	99 -	77 ab
	Gambit	0.037	lb ai/a	0.75	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
4	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	98 a	99 a	99 -	75 ab
	Gambit	0.0494	lb ai/a	1	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
5	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	98 a	99 a	99 -	70 b
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
6	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	98 a	99 a	99 -	82 ab
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Aim	0.0156	lb ai/a	1	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
7	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	98 a	99 a	99 -	83 ab
	Sharpen	0.0445	lb ai/a	2	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
8	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	99 a	99 a	99 -	88 ab
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Sharpen	0.0223	lb ai/a	1	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
9	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	98 a	99 a	99 -	93 a
	Gambit	0.0494	lb ai/a	1	oz/a	Burndown				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
	LSD P=.05						0.50	0.30	.	14.30
	Standard Deviation						0.30	0.20	0.00	8.30
	CV						0.30	0.22	0.00	11.73
	Levene's F^						0.677	0.681	.	0.743
	Levene's Prob(F)						0.705	0.703	.	0.654
	Shapiro-Wilk^						0.9228*	0.6526*	.	0.9882
	P(Shapiro-Wilk)^						0.0462*	0.0*	.	0.9852
	Skewness^						0.0000	1.8547*	.	-0.1554
	P(Skewness)^						1.0000	0.0006*	.	0.7447
	Kurtosis^						2.5168*	9.5875*	.	0.7670
	P(Kurtosis)^						0.011*	0.0*	.	0.4119
	Replicate F						30.400	64.000	0.000	1.200
	Replicate Prob(F)						0.0001	0.0001	1.0000	0.3270
	Treatment F						46453.205	87616.009	0.000	33.460
	Treatment Prob(F)						0.0001	0.0001	1.0000	0.0001

LSU AgCenter SPESS

Gambit Burndown Programs

Trial ID: C23-01
Protocol ID: C23-01 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	17*	18*	19*	20*
	Rating Date						May-8-2023	Jun-1-2023	Apr-27-2023	May-8-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed		
	Pest Code						TOIAR	TOIAR	SLASTER	SLASTER
	Trt-Eval Interval						26 DAT	50 DAT	16 DAT	26 DAT
	Number of Decimals						0	0	0	0
1	Nontreated						0 d	0 -	0 c	0 b
2	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	67 c	99 -	82 b	67 a
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
3	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	90 ab	99 -	93 ab	93 a
	Gambit	0.037	lb ai/a	0.75	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
4	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	88 ab	99 -	93 ab	95 a
	Gambit	0.0494	lb ai/a	1	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
5	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	80 b	99 -	85 ab	75 a
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
6	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	87 ab	99 -	88 ab	91 a
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Aim	0.0156	lb ai/a	1	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
7	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	83 ab	99 -	97 ab	93 a
	Sharpen	0.0445	lb ai/a	2	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
8	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	93 ab	99 -	96 ab	93 a
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Sharpen	0.0223	lb ai/a	1	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
9	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	99 a	99 -	98 a	96 a
	Gambit	0.0494	lb ai/a	1	oz/a	Burndown				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
	LSD P=.05						10.90	.	10.20	19.80
	Standard Deviation						6.30	0.00	5.90	11.40
	CV						8.29	0.00	7.22	14.62
	Levene's F^						0.530	.	0.56	0.693
	Levene's Prob(F)						0.819	.	0.80	0.693
	Shapiro-Wilk^						1.0	.	0.98	0.9142*
	P(Shapiro-Wilk)^						0.7	.	0.84	0.0287*
	Skewness^						-0.1701	.	0.31	-0.9266
	P(Skewness)^						0.7217	.	0.51	0.0606
	Kurtosis^						0.0272	.	0.30	2.7776*
	P(Kurtosis)^						0.9767	.	0.75	0.0056*
	Replicate F						1.822	0.000	4.896	3.538
	Replicate Prob(F)						0.1938	1.0000	0.0219	0.0534
	Treatment F						67.430	0.000	83.716	22.107
	Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001

LSU AgCenter SPESS

Gambit Burndown Programs

Trial ID: C23-01
Protocol ID: C23-01 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	21*	22*	23*	24*
	Rating Date						Jun-1-2023	May-8-2023	May-8-2023	May-8-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type							W, Weed	W, Weed	W, Weed
	Pest Code						SLASTER	AESIN	LEFPA	CYPIR
	Trt-Eval Interval						50 DAT	26 DAT	26 DAT	26 DAT
	Number of Decimals						0	0	0	0
1	Nontreated						0 b	0 b	0 -	0 c
2	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	0 b	77 a	0 -	0 c
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
3	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	83 a	90 a	0 -	99 a
	Gambit	0.037	lb ai/a	0.75	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
4	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	96 a	92 a	0 -	98 a
	Gambit	0.0494	lb ai/a	1	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
5	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	90 a	73 a	0 -	0 c
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
6	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	83 a	80 a	0 -	0 c
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Aim	0.0156	lb ai/a	1	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
7	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	85 a	93 a	0 -	40 b
	Sharpen	0.0445	lb ai/a	2	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
8	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	93 a	85 a	0 -	40 b
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Sharpen	0.0223	lb ai/a	1	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
9	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	85 a	94 a	0 -	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	Burndown				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
	LSD P=.05						14.10	16.90	.	6.10
	Standard Deviation						8.10	9.80	0.00	3.50
	CV						11.87	12.88	0.00	8.39
	Levene's F^						0.627	0.481	.	2.510
	Levene's Prob(F)						0.745	0.854	.	0.050
	Shapiro-Wilk^						0.8904*	1.0	.	0.7121*
	P(Shapiro-Wilk)^						0.0081*	0.9	.	0.0*
	Skewness^						-1.1242*	0.3771	.	0.0219
	P(Skewness)^						0.0249*	0.4320	.	0.9634
	Kurtosis^						1.5650	0.6769	.	8.5181*
	P(Kurtosis)^						0.1008	0.4683	.	0.0*
	Replicate F						0.365	1.387	0.000	0.592
	Replicate Prob(F)						0.6996	0.2783	1.0000	0.5648
	Treatment F						69.357	27.226	0.000	509.620
	Treatment Prob(F)						0.0001	0.0001	1.0000	0.0001

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Gambit Burndown Programs

Trial ID: C23-01
Protocol ID: C23-01 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date							Jun-1-2023			
Rating Type							CONTROL			
Rating Unit/Min/Max							%, 0, 100			
Pest Type							W, Weed			
Pest Code							CYPIR			
Trt-Eval Interval							50 DAT			
Number of Decimals							0			
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	25*			
1	Nontreated						0 e			
2	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	0 e			
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
3	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	72 b			
	Gambit	0.037	lb ai/a	0.75	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
4	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	87 a			
	Gambit	0.0494	lb ai/a	1	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
5	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	0 e			
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
6	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	0 e			
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Aim	0.0156	lb ai/a	1	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
7	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	23 c			
	Sharpen	0.0445	lb ai/a	2	oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
8	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	17 d			
	Firstshot	0.0219	lb ai/a	0.7	oz/a	Burndown				
	Sharpen	0.0223	lb ai/a	1	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
9	Roundup Powermax III	0.825	lb ae/a	22	fl oz/a	Burndown	90 a			
	Gambit	0.0494	lb ai/a	1	oz/a	Burndown				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	Burndown				
	Command	0.3	lb ai/a	12.8	fl oz/a	Burndown				
LSD P=.05							6.60			
Standard Deviation							3.80			
CV							11.87			
Levene's F^							0.161			
Levene's Prob(F)							0.994			
Shapiro-Wilk^							0.9			
P(Shapiro-Wilk)^							0.1			
Skewness^							-0.3630			
P(Skewness)^							0.4491			
Kurtosis^							-0.6505			
P(Kurtosis)^							0.4857			
Replicate F							4.672			
Replicate Prob(F)							0.0252			
Treatment F							319.648			
Treatment Prob(F)							0.0001			

LSU AgCenter
School of Plant, Environmental and Soil Sciences

Evaluation of Drill-seeded Rice Programs

Experiment number	:	**C23-02**
Location	:	RRS-Crowley, LA
Experimental design	:	RCB
Number of reps	:	3
Plot size	:	10'x30'
Row width/# per plot	:	7.5"/16
Soil type	:	Crowley silt loam (3% sand, 69% silt, 28% clay)
% OM	:	1.4
pH	:	6.4
CEC	:	19.1
Crop/Variety	:	PVL03 @ 70 lbs/A
Planting date	:	5/2/23
Emergence date	:	5/8/23
Harvest date	:	8/24/23

Application type	:	PRE	EPOST	LPOST	POSTFLOOD
Date applied [mm/dd/yy]	:	5/4/23	5/22/23	5/30/23	6/15/23
Time [hh:mm-hh:mm]	:	10:30a-12:05p	1:10-1:20p	11:28-11:37a	9:50-10:27a
Air/Soil temperature [F]	:	77/NA	79/74	84/79	87/82
Relative humidity [%]	:	54%	56%	55%	74%
Wind [mph, direction]	:	6-8, NW	4-6, NW	4-6, WSW	8-10, SW
Weather [sunny, etc.]	:	Sunny	Sunny	Sunny	Overcast
Soil/Leaf surface moist	:	Dry/NA	Dry/Dry	Moist/Dry	Flood/Dry
Crop stage/Height	:	N/A	3-4lf/5-6"	3lf-1til/5-6"	3-4til/13-16"
Sprayer type/MPH	:	BKPK/3.0	BKPK/3.0	BKPK/3.0	BKPK/3.0
Nozzle type/Size*	:	FF/11001	FF/11001	FF/11001	FF/11001
Boom ht/# Noz/Spacing	:	20/7/20	20/7/20	20/7/20	20/7/20
GPA/PSI	:	10/33	10/33	10/33	10/33
Applied by	:	JAW/LNV	WBC/MPA	WBC/DZ	JAW/LCW

Weed Species (population)	:	(height/#leaves)	(height/#leaves)	(height/#leaves)	(height/#leaves)
ALRPH (0-1m2)	:	NA	3-4"/10-12lf	5-7"/8-12lf	10-12"/12-18lf
SEBEX (5-8m2)	:	NA	2-3"/2-3lf	3-6"/4-5lf	14-16"/8-10lf
AESIN (3-4m2)	:	NA	2-3"/2-3lf	3-6"/4-5lf	14-16"/8-10lf
CYPES (10-15m2)	:	NA	4-5""/3-6lf	5-9"/3-6lf	14-16"/heading
ECHCG (40-50m2)	:	NA	1-4"/1-3lf	3-5"/3-4lf	15-20"/2-3til
BRAPP (10-15m2)	:	NA	1-3"/1-3lf	2-4"/3-4lf	15-18"/2-3til
CNPPA (1-2m2)	:	NA	2-3"/1-2lf	3-4"/2-3lf	6-8"/4-6lf
COMDI (1-3m2)	:	NA	2-3"/2-4lf	2-4"/3-4lf	5-8"/6-8lf

Flush Dates	:	5/17/23, 5/29/23
Permanent Flood	:	6/8/23

*AMMF – Air mix flat fan nozzles

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Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

							May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
Rating Date										
Rating Type							INJURY	INJURY	INJURY	INJURY
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type										
Pest Code							RICE	RICE	RICE	RICE
Trt-Eval Interval							21 DA PRE	18 DA EPOST	27 DA LPOST	26 DA PSTFL
Number of Decimals							0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*	4*
1	Nontreated						0 -	0 -	0 -	0 -
2	Command	0.234	lb ai/a	10	fl oz/a	PRE	2 -	0 -	0 -	0 -
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Gambit	0.0494	lb ai/a	1	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
3	Command	0.234	lb ai/a	10	fl oz/a	PRE	0 -	0 -	0 -	0 -
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
4	Command	0.234	lb ai/a	10	fl oz/a	PRE	0 -	0 -	0 -	0 -
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Stam	3	lb ai/a	3	qt/a	LPOST				
	Basagran	1	lb ai/a	2	pt/a	LPOST				
5	Command	0.234	lb ai/a	10	fl oz/a	PRE	0 -	0 -	0 -	0 -
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	Ricebeaux	6	lb ai/a	4	qt/a	LPOST				
6	Command	0.234	lb ai/a	10	fl oz/a	PRE	0 -	0 -	3 -	0 -
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Gambit	0.0494	lb ai/a	1	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
7	Command	0.234	lb ai/a	10	fl oz/a	PRE	2 -	0 -	2 -	0 -
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				

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Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*	4*
	Rating Date						May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
	Rating Type						INJURY	INJURY	INJURY	INJURY
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type									
	Pest Code						RICE	RICE	RICE	RICE
	Trt-Eval Interval						21 DA PRE	18 DA EPOST	27 DA LPOST	26 DA PSTFL
	Number of Decimals						0	0	0	0
8	Command	0.234	lb ai/a	10	fl oz/a	PRE	0 -	0 -	- 2	0 -
	Gambit	0.074	lb ai/a	1.5	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
	LSD P=.05						2.30	.	4.30	.
	Standard Deviation						1.30	0.00	2.50	0.00
	CV						320.71	0.00	296.41	0.00
	Levene's F^						0.286	.	0.616	.
	Levene's Prob(F)						0.950	.	0.736	.
	Shapiro-Wilk^						0.8071*	.	0.9092*	.
	P(Shapiro-Wilk)^						0.0004*	.	0.034*	.
	Skewness^						0.872	.	1.07*	.
	P(Skewness)^						0.0953	.	0.0437*	.
	Kurtosis^						0.921	.	2.2478*	.
	P(Kurtosis)^						0.3543	.	0.0304*	.
	Replicate F						2.333	0.000	1.195	0.000
	Replicate Prob(F)						0.1335	1.0000	0.3317	1.0000
	Treatment F						1.000	0.000	0.780	0.000
	Treatment Prob(F)						0.4706	1.0000	0.6142	1.0000

LSU AgCenter SPESS

Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date						May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
Pest Code						BRAPP	BRAPP	BRAPP	BRAPP
Trt-Eval Interval						21 DA PRE	18 DA EPOST	27 DA LPOST	26 DA PSTFL
Number of Decimals						0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	5*	6*	7*	8*
1	Nontreated						0 c	0 e	0 e	0 f
2	Command	0.234	lb ai/a	10	fl oz/a	PRE	85 a	75 b	62 b	72 b
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Gambit	0.0494	lb ai/a	1	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
3	Command	0.234	lb ai/a	10	fl oz/a	PRE	87 a	82 b	60 b	68 b
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
4	Command	0.234	lb ai/a	10	fl oz/a	PRE	87 a	93 a	75 a	87 a
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Stam	3	lb ai/a	3	qt/a	LPOST				
	Basagran	1	lb ai/a	2	pt/a	LPOST				
5	Command	0.234	lb ai/a	10	fl oz/a	PRE	88 a	96 a	85 a	87 a
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	Ricebeaux	6	lb ai/a	4	qt/a	LPOST				
6	Command	0.234	lb ai/a	10	fl oz/a	PRE	30 b	32 d	15 d	12 e
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Gambit	0.0494	lb ai/a	1	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
7	Command	0.234	lb ai/a	10	fl oz/a	PRE	83 a	57 c	30 c	35 d
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				

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Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	5*	6*	7*	8*
	Rating Date						May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						ECHCG	ECHCG	ECHCG	ECHCG
	Trt-Eval Interval						21 DA PRE	18 DA EPOST	27 DA LPOST	26 DA PSTFL
	Number of Decimals						0	0	0	0
8	Command	0.234	lb ai/a	10	fl oz/a	PRE	90 a	65 c	52 b	58 c
	Gambit	0.074	lb ai/a	1.5	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
	LSD P=.05						6.60	9.30	11.50	8.20
	Standard Deviation						3.80	5.30	6.60	4.70
	CV						5.47	8.50	13.91	9.00
	Levene's F^						0.695	0.849	0.551	0.634
	Levene's Prob(F)						0.676	0.565	0.784	0.722
	Shapiro-Wilk^						0.9619	0.9617	0.9537	0.9628
	P(Shapiro-Wilk)^						0.4775	0.4725	0.3248	0.4979
	Skewness^						0.1615	-0.058	-0.0447	-0.5381
	P(Skewness)^						0.7503	0.9089	0.9297	0.2942
	Kurtosis^						0.8305	-0.0414	-0.5954	0.1133
	P(Kurtosis)^						0.4027	0.9665	0.547	0.9084
	Replicate F						0.663	1.355	0.890	2.020
	Replicate Prob(F)						0.5307	0.2898	0.4326	0.1695
	Treatment F						248.042	114.021	60.918	149.148
	Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001

LSU AgCenter SPESS

Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	9*	10*	11*	12*
	Rating Date						May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						ECHCG	ECHCG	ECHCG	ECHCG
	Trt-Eval Interval						21 DA PRE	18 DA EPOST	27 DA LPOST	26 DA PSTFL
	Number of Decimals						0	0	0	0
1	Nontreated						0 c	0 d	0 c	0 c
2	Command	0.234	lb ai/a	10	fl oz/a	PRE	87 a	98 a	99 a	98 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Gambit	0.0494	lb ai/a	1	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
3	Command	0.234	lb ai/a	10	fl oz/a	PRE	87 a	96 a	99 a	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
4	Command	0.234	lb ai/a	10	fl oz/a	PRE	88 a	99 a	99 a	99 a
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Stam	3	lb ai/a	3	qt/a	LPOST				
	Basagran	1	lb ai/a	2	pt/a	LPOST				
5	Command	0.234	lb ai/a	10	fl oz/a	PRE	88 a	99 a	99 a	99 a
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	Ricebeaux	6	lb ai/a	4	qt/a	LPOST				
6	Command	0.234	lb ai/a	10	fl oz/a	PRE	30 b	33 c	13 b	10 b
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Gambit	0.0494	lb ai/a	1	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
7	Command	0.234	lb ai/a	10	fl oz/a	PRE	87 a	62 b	99 a	94 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				

LSU AgCenter SPESS

Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
	Rating Date						May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						ECHCG	ECHCG	ECHCG	ECHCG
	Trt-Eval Interval						21 DA PRE	18 DA EPOST	27 DA LPOST	26 DA PSTFL
	Number of Decimals						0	0	0	0
8	Command	0.234	lb ai/a	10	fl oz/a	PRE	90 a	85 a	99 a	96 a
	Gambit	0.074	lb ai/a	1.5	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
	LSD P=.05						4.20	16.30	3.60	6.20
	Standard Deviation						2.40	9.30	2.00	3.50
	CV						3.46	13.03	2.69	4.75
	Levene's F^						0.389	1.291	0.643	0.804
	Levene's Prob(F)						0.896	0.315	0.715	0.596
	Shapiro-Wilk^						0.9649	0.8605*	0.6882*	0.8658*
	P(Shapiro-Wilk)^						0.545	0.0035*	0.0*	0.0044*
	Skewness^						0.0558	-0.9613	1.7125*	-1.2364*
	P(Skewness)^						0.9123	0.0676	0.0024*	0.0215*
	Kurtosis^						-0.3751	5.5854*	8.0329*	3.1851*
	P(Kurtosis)^						0.7037	0.0*	0.0*	0.0034*
	Replicate F						0.179	0.485	1.000	0.810
	Replicate Prob(F)						0.8376	0.6257	0.3927	0.4648
	Treatment F						620.615	47.674	1324.497	442.193
	Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001

LSU AgCenter SPESS

Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date						May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
Pest Code						SEBEX	SEBEX	SEBEX	SEBEX
Trt-Eval Interval						21 DA PRE	18 DA EPOST	27 DA LPOST	26 DA PSTFL
Number of Decimals						0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	13*	14*	15*	16*
1	Nontreated						0 b	0 c	0 c	0 c
2	Command	0.234	lb ai/a	10	fl oz/a	PRE	90 a	96 a	99 a	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Gambit	0.0494	lb ai/a	1	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
3	Command	0.234	lb ai/a	10	fl oz/a	PRE	89 a	99 a	99 a	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
4	Command	0.234	lb ai/a	10	fl oz/a	PRE	80 a	99 a	99 a	99 a
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Stam	3	lb ai/a	3	qt/a	LPOST				
	Basagran	1	lb ai/a	2	pt/a	LPOST				
5	Command	0.234	lb ai/a	10	fl oz/a	PRE	82 a	99 a	98 a	99 a
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	Ricebeaux	6	lb ai/a	4	qt/a	LPOST				
6	Command	0.234	lb ai/a	10	fl oz/a	PRE	89 a	93 a	99 a	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Gambit	0.0494	lb ai/a	1	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
7	Command	0.234	lb ai/a	10	fl oz/a	PRE	90 a	83 b	99 a	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				

LSU AgCenter SPESS

Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date							May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
Rating Type							CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed	W, Weed
Pest Code							SEBEX	SEBEX	SEBEX	SEBEX
Trt-Eval Interval							21 DA PRE	18 DA EPOST	27 DA LPOST	26 DA PSTFL
Number of Decimals							0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	13*	14*	15*	16*
8	Command	0.234	lb ai/a	10	fl oz/a	PRE	88 a	82 b	72 b	85 b
	Gambit	0.074	lb ai/a	1.5	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
LSD P=.05							7.40	4.70	6.70	5.40
Standard Deviation							4.20	2.70	3.80	3.10
CV							5.58	3.26	4.63	3.61
Levene's F^							0.806	0.592	1.541	0.643
Levene's Prob(F)							0.594	0.753	0.223	0.715
Shapiro-Wilk^							0.9422	0.9601	0.7634*	0.6882*
P(Shapiro-Wilk)^							0.1822	0.4413	0.0*	0.0*
Skewness^							-0.7077	-0.623	-1.1625*	-1.7125*
P(Skewness)^							0.1714	0.2265	0.0296*	0.0024*
Kurtosis^							0.7231	1.0813	7.1496*	8.0329*
P(Kurtosis)^							0.4654	0.2785	0.0*	0.0*
Replicate F							1.008	0.360	0.678	1.000
Replicate Prob(F)							0.3900	0.7041	0.5234	0.3927
Treatment F							159.877	480.078	246.443	384.040
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

LSU AgCenter SPESS

Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date						May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
Pest Code						AESIN	AESIN	AESIN	AESIN
Trt-Eval Interval						21 DA PRE	18 DA EPOST	27 DA LPOST	26 DA PSTFL
Number of Decimals						0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	17*	18*	19*	20*
1	Nontreated						0 d	0 -	0 b	0 b
2	Command	0.234	lb ai/a	10	fl oz/a	PRE	89 b	99 -	99 a	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Gambit	0.0494	lb ai/a	1	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
3	Command	0.234	lb ai/a	10	fl oz/a	PRE	89 b	99 -	99 a	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
4	Command	0.234	lb ai/a	10	fl oz/a	PRE	80 c	99 -	99 a	99 a
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Stam	3	lb ai/a	3	qt/a	LPOST				
	Basagran	1	lb ai/a	2	pt/a	LPOST				
5	Command	0.234	lb ai/a	10	fl oz/a	PRE	78 c	99 -	98 a	94 a
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	Ricebeaux	6	lb ai/a	4	qt/a	LPOST				
6	Command	0.234	lb ai/a	10	fl oz/a	PRE	96 ab	99 -	99 a	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Gambit	0.0494	lb ai/a	1	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
7	Command	0.234	lb ai/a	10	fl oz/a	PRE	99 a	99 -	99 a	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				

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Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
	Rating Date						May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						AESIN	AESIN	AESIN	AESIN
	Trt-Eval Interval						21 DA PRE	18 DA EPOST	27 DA LPOST	26 DA PSTFL
	Number of Decimals						0	0	0	0
8	Command	0.234	lb ai/a	10	fl oz/a	PRE	99 a	99 -	94 a	91 a
	Gambit	0.074	lb ai/a	1.5	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
	LSD P=.05						6.00	.	5.00	10.20
	Standard Deviation						3.50	0.00	2.90	5.80
	CV						4.38	0.00	3.33	6.87
	Levene's F^						0.913	.	0.536	0.865
	Levene's Prob(F)						0.522	.	0.795	0.553
	Shapiro-Wilk^						0.9394	.	0.7614*	0.8233*
	P(Shapiro-Wilk)^						0.158	.	0.0*	0.0007*
	Skewness^						0.1446	.	-1.4828*	-1.4079*
	P(Skewness)^						0.7755	.	0.007*	0.01*
	Kurtosis^						1.3623	.	6.3268*	4.3922*
	P(Kurtosis)^						0.1753	.	0.0*	0.0002*
	Replicate F						0.377	0.000	1.653	0.532
	Replicate Prob(F)						0.6925	1.0000	0.2267	0.5990
	Treatment F						271.073	0.000	443.253	104.464
	Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001

LSU AgCenter SPESS

Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date						May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
Pest Code						COMDI	COMDI	COMDI	COMDI
Trt-Eval Interval						21 DA PRE	18 DA EPOST	27 DA LPOST	26 DA PSTFL
Number of Decimals						0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	21*	22*	23*	24*
1	Nontreated						0 d	0 b	0 b	0 c
2	Command	0.234	lb ai/a	10	fl oz/a	PRE	80 b	91 a	99 a	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Gambit	0.0494	lb ai/a	1	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
3	Command	0.234	lb ai/a	10	fl oz/a	PRE	80 b	93 a	99 a	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
4	Command	0.234	lb ai/a	10	fl oz/a	PRE	70 c	82 a	99 a	99 a
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Stam	3	lb ai/a	3	qt/a	LPOST				
	Basagran	1	lb ai/a	2	pt/a	LPOST				
5	Command	0.234	lb ai/a	10	fl oz/a	PRE	72 c	73 a	0 b	0 c
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	Ricebeaux	6	lb ai/a	4	qt/a	LPOST				
6	Command	0.234	lb ai/a	10	fl oz/a	PRE	99 a	99 a	99 a	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Gambit	0.0494	lb ai/a	1	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
7	Command	0.234	lb ai/a	10	fl oz/a	PRE	86 b	99 a	99 a	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				

LSU AgCenter SPESS

Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
Rating Date							May-25-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
Rating Type							CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed	W, Weed
Pest Code							COMDI	COMDI	COMDI	COMDI
Trt-Eval Interval							21 DA PRE	18 DA EPOST	27 DA LPOST	26 DA PSTFL
Number of Decimals							0	0	0	0
8	Command	0.234	lb ai/a	10	fl oz/a	PRE	87 b	93 a	89 a	18 b
	Gambit	0.074	lb ai/a	1.5	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
LSD P=.05							6.80	19.30	10.40	1.90
Standard Deviation							3.90	11.00	5.90	1.10
CV							5.42	14.01	8.10	1.69
Levene's F^							0.552	1.402	0.643	0.610
Levene's Prob(F)							0.783	0.271	0.715	0.740
Shapiro-Wilk^							0.8584*	0.8597*	0.6882*	0.725*
P(Shapiro-Wilk)^							0.0031*	0.0033*	0.0*	0.0*
Skewness^							0.9573	-0.8502	-1.7125*	-1.6698*
P(Skewness)^							0.0687	0.1034	0.0024*	0.0036*
Kurtosis^							3.3786*	5.5947*	8.0329*	7.5357*
P(Kurtosis)^							0.0021*	0.0*	0.0*	0.0*
Replicate F							3.728	1.375	1.000	0.967
Replicate Prob(F)							0.0504	0.2850	0.3927	0.4061
Treatment F							183.476	26.849	174.952	6136.391
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

LSU AgCenter SPESS

Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date						May-25-2023	Jun-9-2023	Jun-26-2023	May-25-2023
Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
Pest Code						CNPPA	CNPPA	CNPPA	CYPES
Trt-Eval Interval						21 DA PRE	18 DA EPOST	27 DA LPOST	21 DA PRE
Number of Decimals						0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	25*	26*	27*	28*
1	Nontreated						0 b	0 d	0 c	0 b
2	Command	0.234	lb ai/a	10	fl oz/a	PRE	95 a	82 b	99 a	91 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Gambit	0.0494	lb ai/a	1	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
3	Command	0.234	lb ai/a	10	fl oz/a	PRE	90 a	70 c	99 a	88 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
4	Command	0.234	lb ai/a	10	fl oz/a	PRE	5 b	0 d	55 ab	0 b
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Stam	3	lb ai/a	3	qt/a	LPOST				
	Basagran	1	lb ai/a	2	pt/a	LPOST				
5	Command	0.234	lb ai/a	10	fl oz/a	PRE	5 b	0 d	37 bc	0 b
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	Ricebeaux	6	lb ai/a	4	qt/a	LPOST				
6	Command	0.234	lb ai/a	10	fl oz/a	PRE	99 a	80 b	76 ab	99 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Gambit	0.0494	lb ai/a	1	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
7	Command	0.234	lb ai/a	10	fl oz/a	PRE	98 a	88 a	99 a	94 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				

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Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date							May-25-2023	Jun-9-2023	Jun-26-2023	May-25-2023
Rating Type							CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed	W, Weed
Pest Code							CNPPA	CNPPA	CNPPA	CYPES
Trt-Eval Interval							21 DA PRE	18 DA EPOST	27 DA LPOST	21 DA PRE
Number of Decimals							0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	25*	26*	27*	28*
8	Command	0.234	lb ai/a	10	fl oz/a	PRE	96 a	93 a	90 a	94 a
	Gambit	0.074	lb ai/a	1.5	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
LSD P=.05							7.10	6.20	36.80	8.20
Standard Deviation							4.10	3.60	21.00	4.60
CV							6.67	6.91	30.31	8.18
Levene's F^							0.799	0.745	0.864	0.803
Levene's Prob(F)							0.600	0.639	0.554	0.597
Shapiro-Wilk^							0.9093*	0.9477	0.7847*	0.9387
P(Shapiro-Wilk)^							0.034*	0.241	0.0002*	0.1684
Skewness^							0.5783	0.3668	0.0181	-0.7865
P(Skewness)^							0.2605	0.4717	0.9715	0.1389
Kurtosis^							2.3701*	0.1645	3.9193*	0.8403
P(Kurtosis)^							0.0232*	0.8674	0.0005*	0.4073
Replicate F							0.159	0.364	0.031	0.767
Replicate Prob(F)							0.8543	0.7015	0.9698	0.4842
Treatment F							415.035	441.370	8.942	317.170
Treatment Prob(F)							0.0001	0.0001	0.0003	0.0001

LSU AgCenter SPESS

Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date							Jun-9-2023	Jun-26-2023	Jul-11-2023	Aug-15-2023
Rating Type							CONTROL	CONTROL	CONTROL	HEIGHT
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	CM, -, -
Pest Type							W, Weed	W, Weed	W, Weed	
Pest Code							CYPES	CYPES	CYPES	RICE
Trt-Eval Interval							18 DA EPOST	27 DA LPOST	26 DA PSTFL	AT HARVEST
Number of Decimals							0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	29*	30*	31*	32*
1	Nontreated						0 b	0 c	0 -	
2	Command	0.234	lb ai/a	10	fl oz/a	PRE	82 a	99 a	99 -	113 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Gambit	0.0494	lb ai/a	1	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
3	Command	0.234	lb ai/a	10	fl oz/a	PRE	83 a	99 a	99 -	112 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
4	Command	0.234	lb ai/a	10	fl oz/a	PRE	23 b	0 c	0 -	109 ab
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Stam	3	lb ai/a	3	qt/a	LPOST				
	Basagran	1	lb ai/a	2	pt/a	LPOST				
5	Command	0.234	lb ai/a	10	fl oz/a	PRE	0 b	0 c	0 -	103 ab
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	Ricebeaux	6	lb ai/a	4	qt/a	LPOST				
6	Command	0.234	lb ai/a	10	fl oz/a	PRE	84 a	99 a	99 -	92 b
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Gambit	0.0494	lb ai/a	1	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
7	Command	0.234	lb ai/a	10	fl oz/a	PRE	80 a	93 ab	99 -	98 ab
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				

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Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	29*	30*	31*	32*
	Rating Date						Jun-9-2023	Jun-26-2023	Jul-11-2023	Aug-15-2023
	Rating Type						CONTROL	CONTROL	CONTROL	HEIGHT
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	CM, -, -
	Pest Type						W, Weed	W, Weed	W, Weed	
	Pest Code						CYPES	CYPES	CYPES	RICE
	Trt-Eval Interval						18 DA EPOST	27 DA LPOST	26 DA PSTFL	AT HARVEST
	Number of Decimals						0	0	0	0
8	Command	0.234	lb ai/a	10	fl oz/a	PRE	88 a	87 b	99 -	96 ab
	Gambit	0.074	lb ai/a	1.5	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
	LSD P=.05						25.20	7.90	.	12.00
	Standard Deviation						14.40	4.50	0.00	6.70
	CV						26.12	7.57	0.00	6.52
	Levene's F^						0.596	0.850	.	0.517
	Levene's Prob(F)						0.750	0.564	.	0.786
	Shapiro-Wilk^						0.806*	0.8236*	.	0.9603
	P(Shapiro-Wilk)^						0.0004*	0.0007*	.	0.5214
	Skewness^						1.5679*	-1.4354*	.	0.4693
	P(Skewness)^						0.0047*	0.0088*	.	0.3919
	Kurtosis^						6.7654*	4.7478*	.	-0.343
	P(Kurtosis)^						0.0*	0.0*	.	0.745
	Replicate F						1.319	0.555	0.000	1.869
	Replicate Prob(F)						0.2986	0.5861	1.0000	0.1966
	Treatment F						23.077	361.149	0.000	4.595
	Treatment Prob(F)						0.0001	0.0001	1.0000	0.0120

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Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	33*	34*	35*	36*
	Rating Date						Aug-15-2023	Aug-15-2023	Aug-15-2023	Aug-15-2023
	Rating Type						HEIGHT	HEIGHT	HEIGHT	AVG HEIGHT
	Rating Unit/Min/Max						CM, -, -	CM, -, -	CM, -, -	CM, -, -
	Pest Type									
	Pest Code						RICE	RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	0	0	0
1	Nontreated									
2	Command	0.234	lb ai/a	10	fl oz/a	PRE	112 -	111 a	112 a	112 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Gambit	0.0494	lb ai/a	1	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
3	Command	0.234	lb ai/a	10	fl oz/a	PRE	108 -	109 ab	109 ab	109 ab
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
4	Command	0.234	lb ai/a	10	fl oz/a	PRE	110 -	109 ab	109 ab	109 ab
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Stam	3	lb ai/a	3	qt/a	LPOST				
	Basagran	1	lb ai/a	2	pt/a	LPOST				
5	Command	0.234	lb ai/a	10	fl oz/a	PRE	107 -	108 ab	108 ab	107 ab
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	Ricebeaux	6	lb ai/a	4	qt/a	LPOST				
6	Command	0.234	lb ai/a	10	fl oz/a	PRE	96 -	90 b	88 c	91 b
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Gambit	0.0494	lb ai/a	1	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
7	Command	0.234	lb ai/a	10	fl oz/a	PRE	103 -	96 ab	101 abc	99 ab
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				

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Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	33*	34*	35*	36*
	Rating Date						Aug-15-2023	Aug-15-2023	Aug-15-2023	Aug-15-2023
	Rating Type						HEIGHT	HEIGHT	HEIGHT	AVG HEIGHT
	Rating Unit/Min/Max						CM, -, -	CM, -, -	CM, -, -	CM, -, -
	Pest Type									
	Pest Code						RICE	RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	0	0	0
8	Command	0.234	lb ai/a	10	fl oz/a	PRE	92 -	92 ab	92 bc	93 b
	Gambit	0.074	lb ai/a	1.5	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
	LSD P=.05						15.90	13.00	12.50	12.10
	Standard Deviation						9.00	7.30	7.00	6.80
	CV						8.63	7.14	6.81	6.60
	Levene's F^						0.489	0.555	0.689	0.506
	Levene's Prob(F)						0.806	0.759	0.662	0.794
	Shapiro-Wilk^						0.9601	0.9513	0.9711	0.9491
	P(Shapiro-Wilk)^						0.5187	0.361	0.7583	0.3273
	Skewness^						0.5694	0.538	0.257	0.5018
	P(Skewness)^						0.301	0.3278	0.6369	0.3606
	Kurtosis^						0.0064	1.3979	0.3459	0.4915
	P(Kurtosis)^						0.9951	0.194	0.7429	0.6416
	Replicate F						0.303	3.000	0.213	0.960
	Replicate Prob(F)						0.7442	0.0878	0.8112	0.4106
	Treatment F						2.090	4.866	5.320	4.589
	Treatment Prob(F)						0.1306	0.0096	0.0068	0.0120

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Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	37*	38*	39*	40*
	Rating Date						Aug-21-2023	Aug-21-2023	Aug-21-2023	Aug-21-2023
	Rating Type						YIELD	MOICON	YIELD	YIELD
	Rating Unit/Min/Max						lbs/plot, -, -	%, 0, 100	LB, -, -	BU, -, -
	Pest Type									
	Pest Code						RICE	RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						2	1	0	0
1	Nontreated						0 d	0 b	0 c	0 c
2	Command	0.234	lb ai/a	10	fl oz/a	PRE	21.51 a	16.2 a	6281 a	140 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Gambit	0.0494	lb ai/a	1	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
3	Command	0.234	lb ai/a	10	fl oz/a	PRE	18.53 a	13.8 a	5621 a	125 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
4	Command	0.234	lb ai/a	10	fl oz/a	PRE	19.22 a	10.5 a	6010 a	134 a
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Stam	3	lb ai/a	3	qt/a	LPOST				
	Basagran	1	lb ai/a	2	pt/a	LPOST				
5	Command	0.234	lb ai/a	10	fl oz/a	PRE	18.96 a	12.6 a	5785 a	129 a
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	Ricebeaux	6	lb ai/a	4	qt/a	LPOST				
6	Command	0.234	lb ai/a	10	fl oz/a	PRE	1.53 d	14.5 a	468 c	10 c
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Gambit	0.0494	lb ai/a	1	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
7	Command	0.234	lb ai/a	10	fl oz/a	PRE	6.23 c	17.3 a	1812 b	40 b
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				

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Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	37*	38*	39*	40*
	Rating Date						Aug-21-2023	Aug-21-2023	Aug-21-2023	Aug-21-2023
	Rating Type						YIELD	MOICON	YIELD	YIELD
	Rating Unit/Min/Max						lbs/plot, -, -	%, 0, 100	LB, -, -	BU, -, -
	Pest Type									
	Pest Code						RICE	RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						2	1	0	0
8	Command	0.234	lb ai/a	10	fl oz/a	PRE	9.17 b	18.9 a	2601 b	58 b
	Gambit	0.074	lb ai/a	1.5	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
	LSD P=.05						2.55	7.45	889.40	19.80
	Standard Deviation						1.44	4.19	500.00	11.10
	CV						11.37	32.80	13.19	13.19
	Levene's F^						0.401	0.903	0.605	0.605
	Levene's Prob(F)						0.886	0.531	0.743	0.743
	Shapiro-Wilk^						0.9421	0.9709	0.9109*	0.9109*
	P(Shapiro-Wilk)^						0.2183	0.7315	0.0493*	0.0493*
	Skewness^						-0.8999	0.3678	-1.2313*	-1.2313*
	P(Skewness)^						0.1005	0.4903	0.0286*	0.0286*
	Kurtosis^						1.1426	0.2837	3.5792*	3.5792*
	P(Kurtosis)^						0.2737	0.7829	0.002*	0.002*
	Replicate F						3.311	0.133	2.988	2.988
	Replicate Prob(F)						0.0716	0.8765	0.0885	0.0885
	Treatment F						99.458	5.790	76.019	76.019
	Treatment Prob(F)						0.0001	0.0041	0.0001	0.0001

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Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date							Aug-21-2023			
Rating Type							YIELD			
Rating Unit/Min/Max							KG, -, -			
Pest Type										
Pest Code							RICE			
Trt-Eval Interval							AT HARVEST			
Number of Decimals							0			
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	41*			
1	Nontreated						0 c			
2	Command	0.234	lb ai/a	10	fl oz/a	PRE	7040 a			
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Gambit	0.0494	lb ai/a	1	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
3	Command	0.234	lb ai/a	10	fl oz/a	PRE	6300 a			
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	LPOST				
	MSO	1	% v/v	12.8	fl oz/a	LPOST				
4	Command	0.234	lb ai/a	10	fl oz/a	PRE	6736 a			
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
	Stam	3	lb ai/a	3	qt/a	LPOST				
	Basagran	1	lb ai/a	2	pt/a	LPOST				
5	Command	0.234	lb ai/a	10	fl oz/a	PRE	6484 a			
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Clincher	0.372	lb ai/a	20	oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	Ricebeaux	6	lb ai/a	4	qt/a	LPOST				
6	Command	0.234	lb ai/a	10	fl oz/a	PRE	524 c			
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Gambit	0.0494	lb ai/a	1	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
7	Command	0.234	lb ai/a	10	fl oz/a	PRE	2031 b			
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Permit Plus	0.035	lb ai/a	0.75	oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				

LSU AgCenter SPESS

Evaluation of Drill-seeded rice programs

Trial ID: C23-02
Protocol ID: C23-02 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date							Aug-21-2023			
Rating Type							YIELD			
Rating Unit/Min/Max							KG, -, -			
Pest Type										
Pest Code							RICE			
Trt-Eval Interval							AT HARVEST			
Number of Decimals							0			
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	41*			
8	Command	0.234	lb ai/a	10	fl oz/a	PRE	2915 b			
	Gambit	0.074	lb ai/a	1.5	oz/a	PRE				
	Sharpen	0.0223	lb ai/a	1	oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	POST				
	Rogue	0.28	lb ai/a	10.5	fl oz/a	POST				
	MSO	1	% v/v	12.8	fl oz/a	POST				
LSD P=.05							996.90			
Standard Deviation							560.40			
CV							13.19			
Levene's F^							0.605			
Levene's Prob(F)							0.743			
Shapiro-Wilk^							0.9109*			
P(Shapiro-Wilk)^							0.0493*			
Skewness^							-1.2313*			
P(Skewness)^							0.0286*			
Kurtosis^							3.5792*			
P(Kurtosis)^							0.002*			
Replicate F							2.988			
Replicate Prob(F)							0.0885			
Treatment F							76.019			
Treatment Prob(F)							0.0001			

LSU AgCenter
School of Plant, Environmental and Soil Sciences

Evaluation of Ricestar HT for Grass Control in Furrow Irrigated Rice

Experiment number	:	**C23-03**
Location	:	RRS-Crowley, LA
Experimental design	:	RCB
Number of reps	:	3
Plot size	:	10'x30'
Row width/# per plot	:	7.5"/16
Soil type	:	Crowley silt loam (3% sand, 69% silt, 28% clay)
% OM	:	1.4
pH	:	6.4
CEC	:	19.1
Crop/Variety	:	7321 FP @ 30 LB/A
Planting date	:	5/2/23
Emergence date	:	5/8/23
Harvest date	:	N/A

Application type	:	PRE	EPOST	MPOST
Date applied [mm/dd/yy]	:	5/4/23	5/16/23	5/30/23
Time [hh:mm-hh:mm]	:	6:05-6:15p	11:45a-12:10p	11:50a-12:00p
Air/Soil temperature [F]	:	81/76	85/80	84/79
Relative humidity [%]	:	42%	64%	55%
Wind [mph, direction]	:	6-8, S	5-7, E	4-6, W
Weather [sunny, etc.]	:	Ptly Cloudy	Sunny	Sunny
Soil/Leaf surface moist	:	Dry	Dry/Dry	Moist/dry
Crop stage/Height	:	N/A	2-3lf/4-6"	4lf-1til/6-8"
Sprayer type/MPH	:	BKPK/3.0	BKPK/3.0	BKPK/3.0
Nozzle type/Size*	:	FF/11001	FF/11001	FF/11001
Boom ht/# Noz/Spacing	:	20/7/20	20/7/20	20/7/20
GPA/PSI	:	10/33	10/33	10/33
Applied by	:	LV/CB	JAW/WC	WBC/DZ

Weed Species (population)	:	(height/#leaves)	(height/#leaves)	(height/#leaves)
ECHCG (40-50m2)	:	NA	1-4"/1-3lf	3-5"/3-4lf
BRAPP (10-15m2)	:	NA	1-3"/1-3lf	2-4"/3-4lf

Flush Dates	:	5/17/23, 5/29/23, 6/8/23, 6/16/23, 6/23/23, 6/30/23, 7/31/23,8/11/23, 8/18/23, 8,25,23
Permanent Flood	:	N/A

*AMMF – Air mix flat fan nozzles

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2023: Evaluation of Ricestar HT for Grass Control in Furrow Irrigated Rice

Trial ID: C23-03
Protocol ID: C23-03 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date							May-31-2023	Jun-9-2023	Jun-26-2023
Rating Type							INJURY	INJURY	INJURY
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100
Pest Type									
Pest Code							RICE	RICE	RICE
Trt-Eval Interval							15 DAEPOST	10 DA MPOST	27 DA MPOST
Number of Decimals							0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*
1	Treated check						0 b	0 -	0 -
	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE			
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
2	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	0 b	0 -	0 -
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.086	lb ai/a	19	oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
3	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	8 a	3 -	0 -
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
4	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	0 b	0 -	0 -
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.068	lb ai/a	15	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
	Ricestar	0.068	lb ai/a	15	fl oz/a	MPOST			
	COC	1	% v/v	12.8	fl oz/a	MPOST			
5	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	0 b	5 -	0 -
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.068	lb ai/a	15	fl oz/a	EPOST			
	Command	0.234	lb ai/a	10	fl oz/a	EPOST			
	COC	0.78	% v/v	10	fl oz/a	EPOST			
	Ricestar	0.068	lb ai/a	15	fl oz/a	MPOST			
	Command	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	12.8	fl oz/a	MPOST			
6	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	0 b	0 -	0 -
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.086	lb ai/a	19	oz/a	EPOST			
	Command	0.3	lb ai/a	12.8	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
7	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	3 b	0 -	0 -
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST			
	Command	0.3	lb ai/a	12.8	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			

LSU AgCenter SPESS

Evaluation of Drill-seeded rice programs

Trial ID: C23-03
Protocol ID: C23-03 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*
	Rating Date						May-31-2023	Jun-9-2023	Jun-26-2023
	Rating Type						INJURY	INJURY	INJURY
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type								
	Pest Code						RICE	RICE	RICE
	Trt-Eval Interval						15 DAEPOST	10 DA MPOST	27 DA MPOST
	Number of Decimals						0	0	0
8	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	0 b	0 -	0 -
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Clincher	0.28	lb ai/a	15	fl oz/a	EPOST			
	Command	0.3	lb ai/a	12.8	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
9	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	3 b	0 -	0 -
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST			
	Prowl	1	lb ai/a	33.6	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
10	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	3 b	0 -	0 -
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST			
	Facet	0.375	lb ai/a	32	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
11	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	3 b	0 -	0 -
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST			
	Riceone	1.13	lb ai/a	40	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
	LSD P=.05						3.30	5.10	.
	Standard Deviation						2.00	3.00	0.00
	CV						99.79	394.66	0.00
	Levene's F^						0.514	0.476	.
	Levene's Prob(F)						0.862	0.888	.
	Shapiro-Wilk^						0.8602*	0.7839*	.
	P(Shapiro-Wilk)^						0.0006*	0.0*	.
	Skewness^						-0.9952*	1.3532*	.
	P(Skewness)^						0.0262*	0.0034*	.
	Kurtosis^						0.5607	4.7604*	.
	P(Kurtosis)^						0.5064	0.0*	.
	Replicate F						0.784	2.119	0.000
	Replicate Prob(F)						0.4700	0.1464	1.0000
	Treatment F						5.529	1.000	0.000
	Treatment Prob(F)						0.0006	0.4755	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
* Adjusted means
Could not calculate LSD (% mean diff) for columns 3,4 because error mean square = 0.
^Calculated from residual.

LSU AgCenter SPESS

2023: Evaluation of Ricestar HT for Grass Control in Furrow Irrigated Rice

Trial ID: C23-03
Protocol ID: C23-03 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date								Jul-11-2023	May-31-2023	Jun-9-2023
Rating Type								INJURY	CONTROL	CONTROL
Rating Unit/Min/Max								%, 0, 100	%, 0, 100	%, 0, 100
Pest Type									W, Weed	W, Weed
Pest Code								RICE	ECHCG	ECHCG
Trt-Eval Interval								42 DAMPOST	15 DAEPOST	10 DA MPOST
Number of Decimals								0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing		4*	5*	6*
1	Treated check							0 -	0 f	0 f
	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE				
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
2	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		0 -	45 de	30 e
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.086	lb ai/a	19	oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				
3	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		0 -	53 cd	38 e
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				
4	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		0 -	38 e	62 cd
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.068	lb ai/a	15	fl oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				
	Ricestar	0.068	lb ai/a	15	fl oz/a	MPOST				
	COC	1	% v/v	12.8	fl oz/a	MPOST				
5	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		0 -	38 e	72 bc
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.068	lb ai/a	15	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	0.78	% v/v	10	fl oz/a	EPOST				
	Ricestar	0.068	lb ai/a	15	fl oz/a	MPOST				
	Command	0.234	lb ai/a	10	fl oz/a	MPOST				
	COC	1	% v/v	12.8	fl oz/a	MPOST				
6	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		0 -	53 cd	57 d
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.086	lb ai/a	19	oz/a	EPOST				
	Command	0.3	lb ai/a	12.8	fl oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				
7	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		0 -	62 bc	65 bcd
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.3	lb ai/a	12.8	fl oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				

LSU AgCenter SPESS

Evaluation of Drill-seeded rice programs

Trial ID: C23-03
Protocol ID: C23-03 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	4*	5*	6*
	Rating Date						Jul-11-2023	May-31-2023	Jun-9-2023
	Rating Type						INJURY	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type							W, Weed	W, Weed
	Pest Code						RICE	ECHCG	ECHCG
	Trt-Eval Interval						42 DAMPOST	15 DAEPOST	10 DA MPOST
	Number of Decimals						0	0	0
8	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	0 -	80 a	77 ab
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Clincher	0.28	lb ai/a	15	fl oz/a	EPOST			
	Command	0.3	lb ai/a	12.8	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
9	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	0 -	62 bc	55 d
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST			
	Prowl	1	lb ai/a	33.6	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
10	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	0 -	78 a	85 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST			
	Facet	0.375	lb ai/a	32	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
11	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	0 -	68 b	67 bcd
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST			
	Riceone	1.13	lb ai/a	40	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
	LSD P=.05						.	8.40	10.40
	Standard Deviation						0.00	4.90	6.10
	CV						0.00	9.38	11.06
	Levene's F^						.	0.716	0.334
	Levene's Prob(F)						.	0.701	0.962
	Shapiro-Wilk^						.	0.9674	0.9793
	P(Shapiro-Wilk)^						.	0.4121	0.7658
	Skewness^						.	0.4934	-0.341
	P(Skewness)^						.	0.2564	0.4303
	Kurtosis^						.	1.0752	-0.1135
	P(Kurtosis)^						.	0.2067	0.8926
	Replicate F						0.000	0.966	1.985
	Replicate Prob(F)						1.0000	0.3978	0.1636
	Treatment F						0.000	62.393	47.350
	Treatment Prob(F)						1.0000	0.0001	0.0001

LSU AgCenter SPESS

2023: Evaluation of Ricestar HT for Grass Control in Furrow Irrigated Rice

Trial ID: C23-03
Protocol ID: C23-03 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date								Jun-26-2023	Jul-11-2023	May-31-2023
Rating Type								CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max								%, 0, 100	%, 0, 100	%, 0, 100
Pest Type								W, Weed	W, Weed	W, Weed
Pest Code								ECHCG	ECHCG	BRAPP
Trt-Eval Interval								27 DA MPOST	42 DAMPOST	15 DAEPOST
Number of Decimals								0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing		7*	8*	9*
1	Treated check							0 f	0 f	0 d
	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE				
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
2	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		13 e	12 e	92 abc
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.086	lb ai/a	19	oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				
3	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		8 ef	15 e	97 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				
4	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		55 c	60 bc	86 c
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.068	lb ai/a	15	fl oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				
	Ricestar	0.068	lb ai/a	15	fl oz/a	MPOST				
	COC	1	% v/v	12.8	fl oz/a	MPOST				
5	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		82 a	77 a	88 bc
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.068	lb ai/a	15	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	0.78	% v/v	10	fl oz/a	EPOST				
	Ricestar	0.068	lb ai/a	15	fl oz/a	MPOST				
	Command	0.234	lb ai/a	10	fl oz/a	MPOST				
	COC	1	% v/v	12.8	fl oz/a	MPOST				
6	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		50 c	38 d	93 abc
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.086	lb ai/a	19	oz/a	EPOST				
	Command	0.3	lb ai/a	12.8	fl oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				
7	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		60 bc	52 c	95 ab
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.3	lb ai/a	12.8	fl oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				

LSU AgCenter SPESS

Evaluation of Drill-seeded rice programs

Trial ID: C23-03
Protocol ID: C23-03 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	7*	8*	9*
	Rating Date						Jun-26-2023	Jul-11-2023	May-31-2023
	Rating Type						CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						ECHCG	ECHCG	BRAPP
	Trt-Eval Interval						27 DA MPOST	42 DAMPOST	15 DAEPOST
	Number of Decimals						0	0	0
8	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	77 a	65 abc	87 bc
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Clincher	0.28	lb ai/a	15	fl oz/a	EPOST			
	Command	0.3	lb ai/a	12.8	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
9	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	27 d	25 e	94 abc
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST			
	Prowl	1	lb ai/a	33.6	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
10	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	80 a	68 ab	97 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST			
	Facet	0.375	lb ai/a	32	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
11	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	67 b	68 ab	95 ab
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST			
	Riceone	1.13	lb ai/a	40	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
	LSD P=.05						8.90	11.10	5.50
	Standard Deviation						5.20	6.50	3.30
	CV						11.11	14.90	3.88
	Levene's F^						0.658	0.441	0.394
	Levene's Prob(F)						0.750	0.910	0.935
	Shapiro-Wilk^						0.9722	0.9672	0.9532
	P(Shapiro-Wilk)^						0.5432	0.4081	0.1654
	Skewness^						-0.4856	-0.3897	-0.5475
	P(Skewness)^						0.2639	0.3682	0.209
	Kurtosis^						0.8818	-0.3884	-0.2839
	P(Kurtosis)^						0.2984	0.6447	0.7358
	Replicate F						0.028	0.054	1.500
	Replicate Prob(F)						0.9728	0.9478	0.2473
	Treatment F						99.006	51.247	223.978
	Treatment Prob(F)						0.0001	0.0001	0.0001

LSU AgCenter SPESS

2023: Evaluation of Ricestar HT for Grass Control in Furrow Irrigated Rice

Trial ID: C23-03
Protocol ID: C23-03 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date								Jun-9-2023	Jun-26-2023	Jul-11-2023
Rating Type								CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max								%, 0, 100	%, 0, 100	%, 0, 100
Pest Type								W, Weed	W, Weed	W, Weed
Pest Code								BRAPP	BRAPP	BRAPP
Trt-Eval Interval								10 DA MPOST	27 DA MPOST	42 DAMPOST
Number of Decimals								0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing		10*	11*	12*
1	Treated check							0 c	0 e	0 d
	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE				
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
2	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		90 ab	68 bcd	53 c
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.086	lb ai/a	19	oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				
3	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		95 ab	70 a-d	53 c
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				
4	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		98 a	94 ab	90 ab
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.068	lb ai/a	15	fl oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				
	Ricestar	0.068	lb ai/a	15	fl oz/a	MPOST				
	COC	1	% v/v	12.8	fl oz/a	MPOST				
5	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		98 a	96 a	96 a
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.068	lb ai/a	15	fl oz/a	EPOST				
	Command	0.234	lb ai/a	10	fl oz/a	EPOST				
	COC	0.78	% v/v	10	fl oz/a	EPOST				
	Ricestar	0.068	lb ai/a	15	fl oz/a	MPOST				
	Command	0.234	lb ai/a	10	fl oz/a	MPOST				
	COC	1	% v/v	12.8	fl oz/a	MPOST				
6	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		97 a	62 cd	68 bc
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.086	lb ai/a	19	oz/a	EPOST				
	Command	0.3	lb ai/a	12.8	fl oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				
7	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE		98 a	73 a-d	88 ab
	Gambit	0.0494	lb ai/a	1	oz/a	PRE				
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE				
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST				
	Command	0.3	lb ai/a	12.8	fl oz/a	EPOST				
	COC	1	% v/v	12.8	fl oz/a	EPOST				

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Evaluation of Drill-seeded rice programs

Trial ID: C23-03
Protocol ID: C23-03 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	10*	11*	12*
	Rating Date						Jun-9-2023	Jun-26-2023	Jul-11-2023
	Rating Type						CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						BRAPP	BRAPP	BRAPP
	Trt-Eval Interval						10 DA MPOST	27 DA MPOST	42 DAMPOST
	Number of Decimals						0	0	0
8	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	86 b	52 d	47 c
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Clincher	0.28	lb ai/a	15	fl oz/a	EPOST			
	Command	0.3	lb ai/a	12.8	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
9	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	90 ab	82 abc	53 c
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST			
	Prowl	1	lb ai/a	33.6	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
10	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	97 a	90 ab	82 ab
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST			
	Facet	0.375	lb ai/a	32	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
11	Roundup Powermax II	0.9	lb ai/a	24	fl oz/a	PRE	96 ab	87 abc	90 ab
	Gambit	0.0494	lb ai/a	1	oz/a	PRE			
	Sharpen	0.0445	lb ai/a	2	fl oz/a	PRE			
	Ricestar	0.109	lb ai/a	24	fl oz/a	EPOST			
	Riceone	1.13	lb ai/a	40	fl oz/a	EPOST			
	COC	1	% v/v	12.8	fl oz/a	EPOST			
	LSD P=.05						7.00	16.90	15.80
	Standard Deviation						4.10	9.90	9.30
	CV						4.79	14.07	14.20
	Levene's F^						0.605	0.707	0.603
	Levene's Prob(F)						0.793	0.709	0.794
	Shapiro-Wilk^						0.8188*	0.9797	0.9815
	P(Shapiro-Wilk)^						0.0*	0.7758	0.8298
	Skewness^						-1.5876*	-0.1558	-0.0026
	P(Skewness)^						0.0008*	0.7177	0.9952
	Kurtosis^						7.658*	0.9006	0.8141
	P(Kurtosis)^						0.0*	0.2884	0.3364
	Replicate F						2.176	0.919	6.288
	Replicate Prob(F)						0.1396	0.4150	0.0076
	Treatment F						146.842	22.670	27.697
	Treatment Prob(F)						0.0001	0.0001	0.0001

LSU AgCenter
School of Plant, Environmental and Soil Sciences

Comparison of Grass Weed Control with Ricestar HT and Clincher at Multiple Timings

Experiment number	:	**C23-04**
Location	:	RRS-Crowley, LA
Experimental design	:	RCB
Number of reps	:	3
Plot size	:	10'x30'
Row width/# per plot	:	7.5"/16
Soil type	:	Crowley silt loam (3% sand, 69% silt, 28% clay)
% OM	:	1.4
pH	:	6.4
CEC	:	19.1
Crop/Variety	:	PVL03 @ 70 lbs/A
Planting date	:	5/2/23
Emergence date	:	5/7/23
Harvest date	:	8/21/23
Uniform Standard Treatment	:	Permit at 1 oz/A on 6/20/2023

Application type	:	PRE	EPOST	MPOST	POSTFLOOD
Date applied [mm/dd/yy]	:	5/4/23	5/15/23	5/30/23	6/13/23
Time [hh:mm-hh:mm]	:	2:25-2:33p	5:20-5:27p	10:08-10:14a	10:24-10:40a
Air/Soil temperature [F]	:	87/82	86'81	81/76	86/81
Relative humidity [%]	:	41%	63%	63%	63%
Wind [mph, direction]	:	4-6, NNW	4-6, NE	4-8, SW	7-11, S
Weather [sunny, etc.]	:	Sunny	Sunny	Sunny	Ptly Cloudy
Soil/Leaf surface moist	:	Dry	Dry/Dry	Moist/Dry	Flood/Dry
Crop stage/Height	:	N/A	2-3lf/4-6"	4lf-1til/6-8"	2-3til/10-14"
Sprayer type/MPH	:	BKPK/3.0	BKPK/3.0	BKPK/3.0	BKPK/3.0
Nozzle type/Size*	:	FF/11001	FF/11001	FF/11001	FF/11001
Boom ht/# Noz/Spacing	:	20/7/20	20/7/20	20/7/20	20/7/20
GPA/PSI	:	10/33	10/33	10/33	10/33
Applied by	:	JAW/LCW	JAW/WBC	WBC/DZ	WBC/MPA
Weed Species (population)	:	(height/#leaves)	(height/#leaves)	(height/#leaves)	(height/#leaves)
ECHCG (50-100m2)	:	N/A	2-3"/2-3lf	4-6"/5-7lf	12-15"/2-3til
BRAPP (25-50m2)	:	N/A	1-2"/1-2lf	3-5"/3-5lf	6-10"/2-3til

Flush Dates	:	5/17/23, 5/29/23
Permanent Flood	:	6/8/23

*AMMF – Air mix flat fan nozzles

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2023: Comparison of Grass Weed Control with Ricestar HT and Clincher at Multiple Timings

Trial ID: C23-04
Protocol ID: C23-04 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*	4*
Rating Date							Jun-9-2023	Jun-26-2023	Jul-19-2023	Aug-3-2023
Rating Type							INJURY	INJURY	INJURY	INJURY
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type										
Pest Code							RICE	RICE	RICE	RICE
Trt-Eval Interval							25 DAEPOST	27 DAMPOST	36 DAPOSTFL	51 DAPOSTFL
Number of Decimals							0	0	0	0
1	Nontreated						0 b	0 -	0 -	0 -
2	Clincher	0.28	lb ai/a	15	oz/a	EPOST	0 b	0 -	0 -	0 -
	Command	0.234	lb ai/a	10	oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
3	Ricestar	0.086	lb ai/a	19	oz/a	EPOST	0 b	0 -	0 -	0 -
	Command	0.234	lb ai/a	10	oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
4	Clincher	0.372	lb ai/a	20	oz/a	MPOST	27 a	0 -	0 -	0 -
	Command	0.234	lb ai/a	10	oz/a	MPOST				
	COC	1	% v/v	12.8	oz/a	MPOST				
5	Ricestar	0.109	lb ai/a	24	oz/a	MPOST	23 a	0 -	0 -	0 -
	Command	0.234	lb ai/a	10	oz/a	MPOST				
	COC	1	% v/v	12.8	oz/a	MPOST				
6	Command	0.188	lb ai/a	8	oz/a	PRE	0 b	0 -	0 -	0 -
	Clincher	0.372	lb ai/a	20	oz/a	POST				
	COC	1	% v/v	12.8	oz/a	POST				
7	Command	0.188	lb ai/a	8	oz/a	PRE	0 b	0 -	0 -	0 -
	Ricestar	0.109	lb ai/a	24	oz/a	POST				
	COC	1	% v/v	12.8	oz/a	POST				
LSD P=.05							4.00	.	.	.
Standard Deviation							2.30	0.00	0.00	0.00
CV							31.80	0.00	0.00	0.00
Levene's F^							0.342	.	.	.
Levene's Prob(F)							0.903	.	.	.
Shapiro-Wilk^							0.8444*	.	.	.
P(Shapiro-Wilk)^							0.0034*	.	.	.
Skewness^							1.0355	.	.	.
P(Skewness)^							0.0678	.	.	.
Kurtosis^							2.7318*	.	.	.
P(Kurtosis)^							0.0162*	.	.	.
Replicate F							2.077	0.000	0.000	0.000
Replicate Prob(F)							0.1680	1.0000	1.0000	1.0000
Treatment F							87.077	0.000	0.000	0.000
Treatment Prob(F)							0.0001	1.0000	1.0000	1.0000

LSU AgCenter SPESS

2023: Comparison of Grass Weed Control with Ricestar HT and Clincher at Multiple Timings

Trial ID: C23-04
Protocol ID: C23-04 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	5*	6*	7*	8*
Rating Date							Jun-9-2023	Jun-26-2023	Jul-19-2023	Aug-3-2023
Rating Type							CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG	ECHCG
Trt-Eval Interval							25 DAEPOST	27 DAMPOST	36 DAPOSTFL	51 DAPOSTFL
Number of Decimals							0	0	0	0
1	Nontreated						0 e	0 e	0 f	0 d
2	Clincher	0.28	lb ai/a	15	oz/a	EPOST	73 b	73 b	70 bc	73 b
	Command	0.234	lb ai/a	10	oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
3	Ricestar	0.086	lb ai/a	19	oz/a	EPOST	87 a	75 b	58 d	73 b
	Command	0.234	lb ai/a	10	oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
4	Clincher	0.372	lb ai/a	20	oz/a	MPOST	62 c	60 c	62 cd	75 b
	Command	0.234	lb ai/a	10	oz/a	MPOST				
	COC	1	% v/v	12.8	oz/a	MPOST				
5	Ricestar	0.109	lb ai/a	24	oz/a	MPOST	60 c	73 b	75 b	88 a
	Command	0.234	lb ai/a	10	oz/a	MPOST				
	COC	1	% v/v	12.8	oz/a	MPOST				
6	Command	0.188	lb ai/a	8	oz/a	PRE	12 d	85 a	88 a	96 a
	Clincher	0.372	lb ai/a	20	oz/a	POST				
	COC	1	% v/v	12.8	oz/a	POST				
7	Command	0.188	lb ai/a	8	oz/a	PRE	5 de	40 d	37 e	62 c
	Ricestar	0.109	lb ai/a	24	oz/a	POST				
	COC	1	% v/v	12.8	oz/a	POST				
LSD P=.05							9.20	6.60	9.20	8.30
Standard Deviation							5.20	3.70	5.20	4.70
CV							12.14	6.41	9.32	6.98
Levene's F^							0.665	0.778	0.632	1.415
Levene's Prob(F)							0.679	0.601	0.703	0.276
Shapiro-Wilk^							0.9857	0.9534	0.9662	0.9380
P(Shapiro-Wilk)^							0.9831	0.3935	0.6485	0.1985
Skewness^							0.2144	0.3360	-0.1255	-0.3605
P(Skewness)^							0.6935	0.5381	0.8173	0.5091
Kurtosis^							0.0367	0.4556	1.1474	1.5858
P(Kurtosis)^							0.9722	0.6660	0.2830	0.1430
Replicate F							0.844	0.600	1.721	0.374
Replicate Prob(F)							0.4538	0.5645	0.2203	0.6955
Treatment F							144.444	186.486	95.412	137.379
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

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2023: Comparison of Grass Weed Control with Ricestar HT and Clincher at Multiple Timings

Trial ID: C23-04
Protocol ID: C23-04 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	9*	10*	11*	12*
Rating Date							Jun-9-2023	Jun-26-2023	Jul-19-2023	Aug-3-2023
Rating Type							CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed	W, Weed
Pest Code							BRAPP	BRAPP	BRAPP	BRAPP
Trt-Eval Interval							25 DAEPOST	27 DAMPOST	36 DAPOSTFL	51 DAPOSTFL
Number of Decimals							0	0	0	0
1	Nontreated						0 d	0 d	0 c	0 d
2	Clincher	0.28	lb ai/a	15	oz/a	EPOST	33 c	38 b	33 b	28 c
	Command	0.234	lb ai/a	10	oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
3	Ricestar	0.086	lb ai/a	19	oz/a	EPOST	60 a	87 a	42 b	82 b
	Command	0.234	lb ai/a	10	oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
4	Clincher	0.372	lb ai/a	20	oz/a	MPOST	43 b	96 a	96 a	93 a
	Command	0.234	lb ai/a	10	oz/a	MPOST				
	COC	1	% v/v	12.8	oz/a	MPOST				
5	Ricestar	0.109	lb ai/a	24	oz/a	MPOST	67 a	96 a	96 a	92 a
	Command	0.234	lb ai/a	10	oz/a	MPOST				
	COC	1	% v/v	12.8	oz/a	MPOST				
6	Command	0.188	lb ai/a	8	oz/a	PRE	0 d	22 c	99 a	99 a
	Clincher	0.372	lb ai/a	20	oz/a	POST				
	COC	1	% v/v	12.8	oz/a	POST				
7	Command	0.188	lb ai/a	8	oz/a	PRE	0 d	22 c	99 a	99 a
	Ricestar	0.109	lb ai/a	24	oz/a	POST				
	COC	1	% v/v	12.8	oz/a	POST				
LSD P=.05							9.40	8.30	9.50	7.90
Standard Deviation							5.30	4.70	5.30	4.40
CV							18.14	9.05	8.01	6.27
Levene's F^							0.687	0.549	0.769	0.680
Levene's Prob(F)							0.664	0.763	0.607	0.668
Shapiro-Wilk^							0.9719	0.9815	0.9768	0.9479
P(Shapiro-Wilk)^							0.7757	0.9450	0.8734	0.3106
Skewness^							0.2542	-0.2345	0.1126	-0.6690
P(Skewness)^							0.6407	0.6667	0.8358	0.2267
Kurtosis^							0.2516	-0.2247	0.7532	1.3063
P(Kurtosis)^							0.8113	0.8312	0.4773	0.2236
Replicate F							1.200	0.332	2.688	0.515
Replicate Prob(F)							0.3349	0.7242	0.1085	0.6099
Treatment F							92.286	225.971	176.675	242.449
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

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2023: Comparison of Grass Weed Control with Ricestar HT and Clincher at Multiple Timings

Trial ID: C23-04
Protocol ID: C23-04 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	13*	14*	15*	16*
	Rating Date						Jun-9-2023	Jun-26-2023	Jul-19-2023	Aug-3-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						LEFPA	LEFPA	LEFPA	LEFPA
	Trt-Eval Interval						25 DAEPOST	27 DAMPOST	36 DAPOSTFL	51 DAPOSTFL
	Number of Decimals						0	0	0	0
1	Nontreated						0 c	0 d	5 d	0 c
2	Clincher	0.28	lb ai/a	15	oz/a	EPOST	87 a	88 a	28 c	33 b
	Command	0.234	lb ai/a	10	oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
3	Ricestar	0.086	lb ai/a	19	oz/a	EPOST	87 a	93 a	25 c	27 b
	Command	0.234	lb ai/a	10	oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
4	Clincher	0.372	lb ai/a	20	oz/a	MPOST	82 a	80 b	60 b	42 b
	Command	0.234	lb ai/a	10	oz/a	MPOST				
	COC	1	% v/v	12.8	oz/a	MPOST				
5	Ricestar	0.109	lb ai/a	24	oz/a	MPOST	68 b	92 a	90 a	94 a
	Command	0.234	lb ai/a	10	oz/a	MPOST				
	COC	1	% v/v	12.8	oz/a	MPOST				
6	Command	0.188	lb ai/a	8	oz/a	PRE	0 c	25 c	96 a	96 a
	Clincher	0.372	lb ai/a	20	oz/a	POST				
	COC	1	% v/v	12.8	oz/a	POST				
7	Command	0.188	lb ai/a	8	oz/a	PRE	0 c	27 c	82 a	83 a
	Ricestar	0.109	lb ai/a	24	oz/a	POST				
	COC	1	% v/v	12.8	oz/a	POST				
	LSD P=.05						8.50	7.70	14.40	13.30
	Standard Deviation						4.80	4.30	8.10	7.50
	CV						10.30	7.46	14.70	13.98
	Levene's F^						0.590	0.797	0.291	0.564
	Levene's Prob(F)						0.733	0.588	0.931	0.752
	Shapiro-Wilk^						0.9553	0.9623	0.9671	0.9710
	P(Shapiro-Wilk)^						0.4265	0.5627	0.6673	0.7559
	Skewness^						0.7895	-0.4670	0.2464	-0.3762
	P(Skewness)^						0.1565	0.3942	0.6509	0.4911
	Kurtosis^						1.4975	0.5505	-0.9059	-0.1172
	P(Kurtosis)^						0.1654	0.6024	0.3941	0.9114
	Replicate F						1.000	2.489	0.374	1.179
	Replicate Prob(F)						0.3966	0.1246	0.6957	0.3409
	Treatment F						252.579	247.192	59.019	75.704
	Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001

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2023: Comparison of Grass Weed Control with Ricestar HT and Clincher at Multiple Timings

Trial ID: C23-04
Protocol ID: C23-04 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	17*	18*	19*	20*
Rating Date							Aug-15-2023	Aug-15-2023	Aug-15-2023	Aug-15-2023
Rating Type							HEIGHTS	HEIGHTS	HEIGHTS	HEIGHTS
Rating Unit/Min/Max							CM, -, -	CM, -, -	CM, -, -	CM, -, -
Pest Type										
Pest Code							RICE	RICE	RICE	RICE
Trt-Eval Interval							AT HARVEST	AT HARVEST	AT HARVEST	AT HARVEST
Number of Decimals							0	0	0	0
1	Nontreated						72 c	74 c	78 c	83 c
2	Clincher	0.28	lb ai/a	15	oz/a	EPOST	89 b	91 b	88 b	90 bc
	Command	0.234	lb ai/a	10	oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
3	Ricestar	0.086	lb ai/a	19	oz/a	EPOST	100 ab	99 ab	104 a	103 a
	Command	0.234	lb ai/a	10	oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
4	Clincher	0.372	lb ai/a	20	oz/a	MPOST	93 ab	97 ab	100 a	95 ab
	Command	0.234	lb ai/a	10	oz/a	MPOST				
	COC	1	% v/v	12.8	oz/a	MPOST				
5	Ricestar	0.109	lb ai/a	24	oz/a	MPOST	97 ab	100 ab	97 a	99 ab
	Command	0.234	lb ai/a	10	oz/a	MPOST				
	COC	1	% v/v	12.8	oz/a	MPOST				
6	Command	0.188	lb ai/a	8	oz/a	PRE	103 a	105 a	106 a	105 a
	Clincher	0.372	lb ai/a	20	oz/a	POST				
	COC	1	% v/v	12.8	oz/a	POST				
7	Command	0.188	lb ai/a	8	oz/a	PRE	98 ab	99 ab	102 a	104 a
	Ricestar	0.109	lb ai/a	24	oz/a	POST				
	COC	1	% v/v	12.8	oz/a	POST				
LSD P=.05							7.90	8.10	6.20	7.10
Standard Deviation							4.50	4.50	3.50	4.00
CV							4.78	4.77	3.64	4.12
Levene's F^							0.450	0.370	0.281	0.495
Levene's Prob(F)							0.833	0.886	0.936	0.802
Shapiro-Wilk^							0.9321	0.9495	0.9250	0.9505
P(Shapiro-Wilk)^							0.1516	0.3335	0.1092	0.3480
Skewness^							0.8697	0.7053	0.7726	0.0334
P(Skewness)^							0.1205	0.2033	0.1652	0.9509
Kurtosis^							0.3008	-0.1547	-0.2578	-0.8612
P(Kurtosis)^							0.7754	0.8832	0.8067	0.4174
Replicate F							0.966	2.390	2.753	4.318
Replicate Prob(F)							0.4082	0.1337	0.1037	0.0387
Treatment F							16.645	14.866	24.291	12.098
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0002

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2023: Comparison of Grass Weed Control with Ricestar HT and Clincher at Multiple Timings

Trial ID: C23-04
Protocol ID: C23-04 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	21*	22*	23*	24*
	Rating Date						Aug-15-2023	Aug-21-2023	Aug-21-2023	Aug-21-2023
	Rating Type						AVG HEIGHTS	YIELD	MOICON	YIELD
	Rating Unit/Min/Max						CM, -, -	lbs/plot, -, -	lbs/plot, -, -	LB/A, -, -
	Pest Type									
	Pest Code						RICE	RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	2	1	0
1	Nontreated						77 d	0 d	0 b	0 d
2	Clincher	0.28	lb ai/a	15	oz/a	EPOST	90 c	8.36 c	19.5 a	2387 c
	Command	0.234	lb ai/a	10	oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
3	Ricestar	0.086	lb ai/a	19	oz/a	EPOST	101 ab	15.92 b	19.9 a	4527 b
	Command	0.234	lb ai/a	10	oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
4	Clincher	0.372	lb ai/a	20	oz/a	MPOST	96 b	17.75 b	16.6 a	5269 b
	Command	0.234	lb ai/a	10	oz/a	MPOST				
	COC	1	% v/v	12.8	oz/a	MPOST				
5	Ricestar	0.109	lb ai/a	24	oz/a	MPOST	98 b	21.96 a	17.7 a	6392 a
	Command	0.234	lb ai/a	10	oz/a	MPOST				
	COC	1	% v/v	12.8	oz/a	MPOST				
6	Command	0.188	lb ai/a	8	oz/a	PRE	105 a	21.41 a	16 a	6364 a
	Clincher	0.372	lb ai/a	20	oz/a	POST				
	COC	1	% v/v	12.8	oz/a	POST				
7	Command	0.188	lb ai/a	8	oz/a	PRE	101 ab	17 b	15.4 a	5122 b
	Ricestar	0.109	lb ai/a	24	oz/a	POST				
	COC	1	% v/v	12.8	oz/a	POST				
LSD P=.05							4.30	2.61	6.95	759.70
Standard Deviation							2.40	1.47	3.91	427.00
CV							2.51	10.04	26.02	9.94
Levene's F^							0.265	0.600	0.465	0.496
Levene's Prob(F)							0.944	0.726	0.823	0.801
Shapiro-Wilk^							0.9354	0.9769	0.9642	0.9688
P(Shapiro-Wilk)^							0.1769	0.8751	0.6046	0.7064
Skewness^							0.5780	-0.0876	-0.6429	0.4303
P(Skewness)^							0.2940	0.8719	0.2446	0.4318
Kurtosis^							-0.7510	0.2171	0.6358	0.3367
P(Kurtosis)^							0.4786	0.8368	0.5478	0.7495
Replicate F							5.168	1.069	0.991	2.325
Replicate Prob(F)							0.0240	0.3739	0.3995	0.1401
Treatment F							47.086	85.696	9.185	88.985
Treatment Prob(F)							0.0001	0.0001	0.0007	0.0001

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2023: Comparison of Grass Weed Control with Ricestar HT and Clincher at Multiple Timings

Trial ID: C23-04
Protocol ID: C23-04 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date							Aug-21-2023	Aug-21-2023		
Rating Type							YIELD	YIELD		
Rating Unit/Min/Max							BU/A, -, -	KG, -, -		
Pest Type										
Pest Code							RICE	RICE		
Trt-Eval Interval							AT HARVEST	AT HARVEST		
Number of Decimals							0	0		
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	25*	26*		
1	Nontreated						0 d	0 d		
2	Clincher	0.28	lb ai/a	15	oz/a	EPOST	53 c	2675 c		
	Command	0.234	lb ai/a	10	oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
3	Ricestar	0.086	lb ai/a	19	oz/a	EPOST	101 b	5074 b		
	Command	0.234	lb ai/a	10	oz/a	EPOST				
	COC	1	% v/v	12.8	oz/a	EPOST				
4	Clincher	0.372	lb ai/a	20	oz/a	MPOST	117 b	5906 b		
	Command	0.234	lb ai/a	10	oz/a	MPOST				
	COC	1	% v/v	12.8	oz/a	MPOST				
5	Ricestar	0.109	lb ai/a	24	oz/a	MPOST	142 a	7164 a		
	Command	0.234	lb ai/a	10	oz/a	MPOST				
	COC	1	% v/v	12.8	oz/a	MPOST				
6	Command	0.188	lb ai/a	8	oz/a	PRE	141 a	7133 a		
	Clincher	0.372	lb ai/a	20	oz/a	POST				
	COC	1	% v/v	12.8	oz/a	POST				
7	Command	0.188	lb ai/a	8	oz/a	PRE	114 b	5741 b		
	Ricestar	0.109	lb ai/a	24	oz/a	POST				
	COC	1	% v/v	12.8	oz/a	POST				
LSD P=.05							16.90	851.50		
Standard Deviation							9.50	478.60		
CV							9.94	9.94		
Levene's F^							0.496	0.496		
Levene's Prob(F)							0.801	0.801		
Shapiro-Wilk^							0.9688	0.9688		
P(Shapiro-Wilk)^							0.7064	0.7064		
Skewness^							0.4303	0.4303		
P(Skewness)^							0.4318	0.4318		
Kurtosis^							0.3367	0.3367		
P(Kurtosis)^							0.7495	0.7495		
Replicate F							2.325	2.325		
Replicate Prob(F)							0.1401	0.1401		
Treatment F							88.985	88.985		
Treatment Prob(F)							0.0001	0.0001		

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Comparison of Gambit and Novixid Applied Preflood as a Quality Coated Fertilizer or a Foliar Spray

Experiment number	:	**C23-05**
Location	:	RRS-Crowley, LA
Experimental design	:	RCB
Number of reps	:	3
Plot size	:	5'x10'
Row width/# per plot	:	7.5"/8
Soil type	:	Crowley silt loam (3% sand, 69% silt, 28% clay)
% OM	:	1.4
pH	:	6.4
CEC	:	19.1
Crop/Variety	:	PVL03 @ 70 LB/A
Planting date	:	5/2/23
Emergence date	:	5/8/23
Harvest date	:	N/A
Uniform standard treatment	:	Command at 8 oz/A on 5/4/2023 Provisia at 15.5 oz/A on 5/30/2023
Application type	:	PREFLOOD
Date applied [mm/dd/yy]	:	6/7/23
Time [hh:mm-hh:mm]	:	4:54-5:10p
Air/Soil temperature [F]	:	87/82
Relative humidity [%]	:	58%
Wind [mph, direction]	:	6-8, E
Weather [sunny, etc.]	:	Sunny
Soil/Leaf surface moist	:	Wet/dry
Crop stage/Height	:	5lf-1til/7-10"
Sprayer type/MPH	:	BKPK/3.0
Nozzle type/Size*	:	FF110015
Boom ht/# Noz/Spacing	:	15/5/15
GPA/PSI	:	15/21
Applied by	:	JAW
Weed Species (population)	:	(height/#leaves)
CNPPA (3-7m2)	:	5-9"/6-9lf
SEBEX (5-8m2)	:	7-15"/8-12lf
CYPIR (5-10m2)	:	3-5"/3-6lf
Flush Dates	:	5/17/2023, 5/29/2023
Permanent Flood	:	6/8/23

*AMFF – Air mix flat fan nozzles

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2023: Comparison of Gambit and Novixid Applied Preflood as a Quality Coated Fertilizer or a Foliar Spray

Trial ID:	C23-05				
Protocol ID:	2023_GAM_NOV_COAT_PREFLD_LA_CW	Location:	Crowley, RRS	Trial Year:	2023
Project ID:	GMB-23-01	Project ID 2:		Project ID 3:	
Study Director:		Sponsor Contact:			
Investigator:					

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*
	Rating Date						Jun-22-2023	Jun-29-2023	Jul-11-2023
	Rating Type						INJURY	INJURY	INJURY
	Rating Unit/Min/Max						%, 0, 100		%, 0, 100
	Pest Type								
	Pest Code						RICE	RICE	RICE
	Trt-Eval Interval						15 DAT	22 DAT	34 DAT
	Number of Decimals						0	0	0
1	Surface Coated Fertilizer UREA						0 -	0 -	0 -
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
2	Surface Coated Fertilizer UREA						0 -	0 -	0 -
	GAMBIT	0.074	lb ai/a	1.5	oz/a	PREFLD			
3	Surface Coated Fertilizer UREA						0 -	0 -	0 -
	NOVIXID	0.058	lb ai/a	27.4	fl oz/a	PREFLD			
4	Surface Coated Fertilizer UREA						0 -	0 -	0 -
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
	LOYANT	0.0212	lb ai/a	12.9	fl oz/a	PREFLD			
5	Foliar + MSO 1 % v/v						0 -	0 -	0 -
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
6	Foliar + MSO 1 % v/v						0 -	0 -	0 -
	GAMBIT	0.074	lb ai/a	1.5	oz/a	PREFLD			
7	Foliar + MSO 1 % v/v						0 -	0 -	0 -
	NOVIXID	0.058	lb ai/a	27.4	fl oz/a	PREFLD			
8	Foliar + MSO 1 % v/v						0 -	0 -	0 -
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
	LOYANT	0.0212	lb ai/a	12.9	fl oz/a	PREFLD			
9	UNTREATED CHECK						0 -	0 -	0 -
	LSD P=.05						.	.	.
	Standard Deviation						0.00	0.00	0.00
	CV						0.00	0.00	0.00
	Levene's F^						.	.	.
	Levene's Prob(F)						.	.	.
	Shapiro-Wilk^						.	.	.
	P(Shapiro-Wilk)^						.	.	.
	Skewness^						.	.	.
	P(Skewness)^						.	.	.
	Kurtosis^						.	.	.
	P(Kurtosis)^						.	.	.
	Analyzed as						RCB	RCB	RCB
	Replicate F						0.000	0.000	0.000
	Replicate Prob(F)						1.0000	1.0000	1.0000
	Treatment F						0.000	0.000	0.000
	Treatment Prob(F)						1.0000	1.0000	1.0000

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2023: Comparison of Gambit and Novixid Applied Preflood as a Quality Coated Fertilizer or a Foliar Spray

Trial ID:	C23-05				
Protocol ID:	2023_GAM_NOV_COAT_PREFLD_LA_CW	Location:	Crowley, RRS	Trial Year:	2023
Project ID:	GMB-23-01	Project ID 2:		Project ID 3:	
Study Director:		Sponsor Contact:			
Investigator:					

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	4*	5*	6*
	Rating Date						Jun-22-2023	Jun-29-2023	Jul-11-2023
	Rating Type						CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100		%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						SEBEX	SEBEX	SEBEX
	Trt-Eval Interval						15 DAT	22 DAT	34 DAT
	Number of Decimals						0	0	0
1	Surface Coated Fertilizer UREA						51 c	43 c	35 b
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
2	Surface Coated Fertilizer UREA						61 b	49 c	43 b
	GAMBIT	0.074	lb ai/a	1.5	oz/a	PREFLD			
3	Surface Coated Fertilizer UREA						67 b	58 b	37 b
	NOVIXID	0.058	lb ai/a	27.4	fl oz/a	PREFLD			
4	Surface Coated Fertilizer UREA						64 b	50 c	41 b
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
	LOYANT	0.0212	lb ai/a	12.9	fl oz/a	PREFLD			
5	Foliar + MSO 1 % v/v						99 a	99 a	99 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
6	Foliar + MSO 1 % v/v						99 a	99 a	99 a
	GAMBIT	0.074	lb ai/a	1.5	oz/a	PREFLD			
7	Foliar + MSO 1 % v/v						99 a	99 a	99 a
	NOVIXID	0.058	lb ai/a	27.4	fl oz/a	PREFLD			
8	Foliar + MSO 1 % v/v						99 a	99 a	99 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
	LOYANT	0.0212	lb ai/a	12.9	fl oz/a	PREFLD			
9	UNTREATED CHECK						0 d	0 d	0 c
	LSD P=.05						9.20	7.50	9.20
	Standard Deviation						6.20	5.10	6.30
	CV						8.79	7.70	10.11
	Levene's F^						6.879*	3.537*	3.183*
	Levene's Prob(F)						0.00*	0.007*	0.012*
	Shapiro-Wilk^						0.9016*	0.8382*	0.9285*
	P(Shapiro-Wilk)^						0.005*	0.0002*	0.0283*
	Skewness^						-0.0949	0.8726*	0.5683
	P(Skewness)^						0.8230	0.0459*	0.1859
	Kurtosis^						1.6228	4.6948*	2.0736*
	P(Kurtosis)^						0.0568	0.0*	0.0167*
	Analyzed as						RCB	RCB	RCB
	Replicate F						0.145	0.429	1.003
	Replicate Prob(F)						0.9319	0.7340	0.4101
	Treatment F						110.390	183.890	140.786
	Treatment Prob(F)						0.0001	0.0001	0.0001

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2023: Comparison of Gambit and Novixid Applied Preflood as a Quality Coated Fertilizer or a Foliar Spray

Trial ID:	C23-05				
Protocol ID:	2023_GAM_NOV_COAT_PREFLD_LA_CW	Location:	Crowley, RRS	Trial Year:	2023
Project ID:	GMB-23-01	Project ID 2:		Project ID 3:	
Study Director:		Sponsor Contact:			
Investigator:					

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	7*	8*	9*
	Rating Date						Jun-22-2023	Jun-29-2023	Jul-11-2023
	Rating Type						CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100		%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						CNPPA	CNPPA	CNPPA
	Trt-Eval Interval						15 DAT	22 DAT	34 DAT
	Number of Decimals						0	0	0
1	Surface Coated Fertilizer UREA						45 bc	31 c	21 d
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
2	Surface Coated Fertilizer UREA						54 abc	48 b	43 bc
	GAMBIT	0.074	lb ai/a	1.5	oz/a	PREFLD			
3	Surface Coated Fertilizer UREA						14 d	18 d	25 d
	NOVIXID	0.058	lb ai/a	27.4	fl oz/a	PREFLD			
4	Surface Coated Fertilizer UREA						41 c	34 c	36 c
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
	LOYANT	0.0212	lb ai/a	12.9	fl oz/a	PREFLD			
5	Foliar + MSO 1 % v/v						66 a	60 a	59 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
6	Foliar + MSO 1 % v/v						56 ab	49 b	48 b
	GAMBIT	0.074	lb ai/a	1.5	oz/a	PREFLD			
7	Foliar + MSO 1 % v/v						51 bc	60 a	68 a
	NOVIXID	0.058	lb ai/a	27.4	fl oz/a	PREFLD			
8	Foliar + MSO 1 % v/v						58 ab	56 a	63 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
	LOYANT	0.0212	lb ai/a	12.9	fl oz/a	PREFLD			
9	UNTREATED CHECK						0 e	0 e	0 e
	LSD P=.05						9.90	5.50	9.00
	Standard Deviation						6.70	3.80	6.20
	CV						15.49	9.57	15.43
	Levene's F^						1.76	0.78	1.67
	Levene's Prob(F)						0.13	0.63	0.15
	Shapiro-Wilk^						0.94	0.98	0.97
	P(Shapiro-Wilk)^						0.07	0.70	0.50
	Skewness^						0.8726*	-0.1768	0.3158
	P(Skewness)^						0.0459*	0.6680	0.4449
	Kurtosis^						1.4167	-0.0674	0.9192
	P(Kurtosis)^						0.0943	0.9333	0.2582
	Analyzed as						RCB	RCB	RCB
	Replicate F						1.224	1.951	1.176
	Replicate Prob(F)						0.3244	0.1483	0.3394
	Treatment F						39.913	119.976	50.394
	Treatment Prob(F)						0.0001	0.0001	0.0001

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2023: Comparison of Gambit and Novixid Applied Preflood as a Quality Coated Fertilizer or a Foliar Spray

Trial ID:	C23-05				
Protocol ID:	2023_GAM_NOV_COAT_PREFLD_LA_CW	Location:	Crowley, RRS	Trial Year:	2023
Project ID:	GMB-23-01	Project ID 2:		Project ID 3:	
Study Director:		Sponsor Contact:			
Investigator:					

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	10*	11*	12*
	Rating Date						Jun-22-2023	Jun-29-2023	Jul-11-2023
	Rating Type						CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100		%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						CYPIR	CYPIR	CYPIR
	Trt-Eval Interval						15 DAT	22 DAT	34 DAT
	Number of Decimals						0	0	0
1	Surface Coated Fertilizer UREA						63 d	70 c	75 b
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
2	Surface Coated Fertilizer UREA						85 bc	83 b	73 b
	GAMBIT	0.074	lb ai/a	1.5	oz/a	PREFLD			
3	Surface Coated Fertilizer UREA						82 bc	76 b	78 b
	NOVIXID	0.058	lb ai/a	27.4	fl oz/a	PREFLD			
4	Surface Coated Fertilizer UREA						80 c	81 b	91 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
	LOYANT	0.0212	lb ai/a	12.9	fl oz/a	PREFLD			
5	Foliar + MSO 1 % v/v						99 a	99 a	99 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
6	Foliar + MSO 1 % v/v						99 a	99 a	99 a
	GAMBIT	0.074	lb ai/a	1.5	oz/a	PREFLD			
7	Foliar + MSO 1 % v/v						99 a	98 a	99 a
	NOVIXID	0.058	lb ai/a	27.4	fl oz/a	PREFLD			
8	Foliar + MSO 1 % v/v						92 ab	95 a	99 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
	LOYANT	0.0212	lb ai/a	12.9	fl oz/a	PREFLD			
9	UNTREATED CHECK						0 e	0 d	0 c
	LSD P=.05						8.10	5.50	10.60
	Standard Deviation						5.50	3.80	7.20
	CV						7.13	4.88	9.17
	Levene's F^						1.82	2.389*	1.76
	Levene's Prob(F)						0.12	0.043*	0.13
	Shapiro-Wilk^						0.9356*	0.94	0.8725*
	P(Shapiro-Wilk)^						0.0455*	0.07	0.0007*
	Skewness^						0.1190	-0.0118	-1.0956*
	P(Skewness)^						0.7790	0.9770	0.0111*
	Kurtosis^						2.5052*	0.9539	3.8245*
	P(Kurtosis)^						0.0045*	0.2410	0.0*
	Analyzed as						RCB	RCB	RCB
	Replicate F						0.670	1.153	1.169
	Replicate Prob(F)						0.5795	0.3480	0.3421
	Treatment F						129.231	268.530	76.206
	Treatment Prob(F)						0.0001	0.0001	0.0001

LSU AgCenter SPESS

2023: Comparison of Gambit and Novixid Applied Preflood as a Quality Coated Fertilizer or a Foliar Spray

Trial ID:	C23-05				
Protocol ID:	2023_GAM_NOV_COAT_PREFLD_LA_CW	Location:	Crowley, RRS	Trial Year:	2023
Project ID:	GMB-23-01	Project ID 2:		Project ID 3:	
Study Director:		Sponsor Contact:			
Investigator:					

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	13*	14*	15*
	Rating Date						Aug-15-2023	Aug-15-2023	Aug-15-2023
	Rating Type						HEIGHT	HEIGHT	HEIGHT
	Rating Unit/Min/Max						CM, -, -	CM, -, -	CM, -, -
	Pest Type								
	Pest Code						RICE	RICE	RICE
							AT	AT	AT
	Trt-Eval Interval						HARVEST	HARVEST	HARVEST
	Number of Decimals						0	0	0
1	Surface Coated Fertilizer UREA						109 -	109 ab	106 ab
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
2	Surface Coated Fertilizer UREA						113 -	112 ab	116 a
	GAMBIT	0.074	lb ai/a	1.5	oz/a	PREFLD			
3	Surface Coated Fertilizer UREA						108 -	112 ab	109 ab
	NOVIXID	0.058	lb ai/a	27.4	fl oz/a	PREFLD			
4	Surface Coated Fertilizer UREA						112 -	110 ab	106 ab
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
	LOYANT	0.0212	lb ai/a	12.9	fl oz/a	PREFLD			
5	Foliar + MSO 1 % v/v						114 -	117 a	115 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
6	Foliar + MSO 1 % v/v						115 -	114 ab	114 a
	GAMBIT	0.074	lb ai/a	1.5	oz/a	PREFLD			
7	Foliar + MSO 1 % v/v						112 -	115 ab	112 ab
	NOVIXID	0.058	lb ai/a	27.4	fl oz/a	PREFLD			
8	Foliar + MSO 1 % v/v						112 -	110 ab	115 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD			
	LOYANT	0.0212	lb ai/a	12.9	fl oz/a	PREFLD			
9	UNTREATED CHECK						104 -	106 b	103 b
	LSD P=.05						6.70	6.30	7.20
	Standard Deviation						4.60	4.30	4.90
	CV						4.13	3.85	4.43
	Levene's F^						0.77	1.32	0.56
	Levene's Prob(F)						0.63	0.28	0.80
	Shapiro-Wilk^						0.95	0.98	0.97
	P(Shapiro-Wilk)^						0.12	0.78	0.31
	Skewness^						-0.7272	0.1448	-0.3460
	P(Skewness)^						0.0839	0.7252	0.4030
	Kurtosis^						0.6475	0.1934	1.2363
	P(Kurtosis)^						0.4236	0.8103	0.1311
	Analyzed as						RCB	RCB	RCB
	Replicate F						0.608	1.086	1.025
	Replicate Prob(F)						0.6162	0.3740	0.3990
	Treatment F						2.227	2.426	3.720
	Treatment Prob(F)						0.0619	0.0444	0.0058

LSU AgCenter SPESS

2023: Comparison of Gambit and Novixid Applied Preflood as a Quality Coated Fertilizer or a Foliar Spray

Trial ID:	C23-05				
Protocol ID:	2023_GAM_NOV_COAT_PREFLD_LA_CW	Location:	Crowley, RRS	Trial Year:	2023
Project ID:	GMB-23-01	Project ID 2:		Project ID 3:	
Study Director:		Sponsor Contact:			
Investigator:					

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	16*	17*
	Rating Date						Aug-15-2023	Aug-15-2023
	Rating Type						HEIGHT	AVG HEIGHT
	Rating Unit/Min/Max						CM, -, -	CM, -, -
	Pest Type							
	Pest Code						RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST
	Number of Decimals						0	0
1	Surface Coated Fertilizer UREA						106 ab	107 bc
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD		
2	Surface Coated Fertilizer UREA						112 ab	113 ab
	GAMBIT	0.074	lb ai/a	1.5	oz/a	PREFLD		
3	Surface Coated Fertilizer UREA						107 ab	109 abc
	NOVIXID	0.058	lb ai/a	27.4	fl oz/a	PREFLD		
4	Surface Coated Fertilizer UREA						111 ab	110 abc
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD		
	LOYANT	0.0212	lb ai/a	12.9	fl oz/a	PREFLD		
5	Foliar + MSO 1 % v/v						118 a	116 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD		
6	Foliar + MSO 1 % v/v						120 a	116 a
	GAMBIT	0.074	lb ai/a	1.5	oz/a	PREFLD		
7	Foliar + MSO 1 % v/v						118 a	114 ab
	NOVIXID	0.058	lb ai/a	27.4	fl oz/a	PREFLD		
8	Foliar + MSO 1 % v/v						111 ab	112 ab
	GAMBIT	0.0494	lb ai/a	1	oz/a	PREFLD		
	LOYANT	0.0212	lb ai/a	12.9	fl oz/a	PREFLD		
9	UNTREATED CHECK						99 b	103 c
	LSD P=.05						9.40	5.30
	Standard Deviation						6.50	3.60
	CV						5.82	3.29
	Levene's F^						1.70	0.82
	Levene's Prob(F)						0.14	0.59
	Shapiro-Wilk^						0.98	0.96
	P(Shapiro-Wilk)^						0.63	0.25
	Skewness^						-0.0310	-0.0912
	P(Skewness)^						0.9399	0.8248
	Kurtosis^						-0.2640	1.1113
	P(Kurtosis)^						0.7433	0.1734
	Analyzed as						RCB	RCB
	Replicate F						2.514	1.811
	Replicate Prob(F)						0.0824	0.1721
	Treatment F						4.104	5.434
	Treatment Prob(F)						0.0033	0.0006

LSU AgCenter
School of Plant, Environmental and Soil Sciences

Row Rice Herbicide Programs

Experiment number	:	**C23-08**
Location	:	RRS-Crowley, LA
Experimental design	:	RCB
Number of reps	:	3
Plot size	:	10'x30'
Row width/# per plot	:	7.5"/16
Soil type	:	Crowley silt loam (3% sand, 69% silt, 28% clay)
% OM	:	1.4
pH	:	6.4
CEC	:	19.1
Crop/Variety	:	7321 FP @ 30 lb/A
Planting date	:	5/2/23
Emergence date	:	5/8/23
Harvest date	:	5/15/23

Application type	:	PRE	EPOST	LPOST
Date applied [mm/dd/yy]	:	5/4/23	5/22/23	6/6/23
Time [hh:mm-hh:mm]	:	6:25-6:40p	2:47-3:00p	10:50-11:05a
Air/Soil temperature [F]	:	80/75	81/74	75/70
Relative humidity [%]	:	43%	53%	67%
Wind [mph, direction]	:	6-8, S	3-4, N	2-5, S
Weather [sunny, etc.]	:	Ptly Cloudy	Ptly Cloudy	Ptly Cloudy
Soil/Leaf surface moist	:	Dry	Dry/Dry	Moist/Dry
Crop stage/Height	:	NA	3-4lf/6-8"	2-3til/10-13"
Sprayer type/MPH	:	BKPK/3.0	BKPK/3.0	BKPK/3.0
Nozzle type/Size*	:	FF/11001	FF/11001	FF/11001
Boom ht/# Noz/Spacing	:	18/7/20	20/7/20	20/7/20
GPA/PSI	:	10/33	10/33	10/33
Applied by	:	JAW/LCW	WBC/MPA	JAW/MPA

Weed Species (population)	:	(height/#leaves)	(height/#leaves)	(height/#leaves)
ECHCG (20-30m2)	:	NA	2-4"/3-4lf	1-2"/1-2lf
COMDI (5-7m2)	:	NA	2-3"/2-3lf	1-4"/1-4lf
CYPES (10-15m2)	:	NA	8-10"/6-9lf	4-5"/3-9lf
ALRPH (0-2m2)		NA	6-10"/10-20lf	5-10"/20-30lf
CYPIR (40-50m2)	:	NA	1-2"/1-3lf	3-4"/6-9lf
CNPPA (2-5m2)	:	NA	2-4"/3-4lf	4-8"/6-8lf
BRAPP (5-10m2)	:	NA	2-4"/2-3lf	4-5"/4-5lf
SEBEX (5-8m2)	:	NA	2-4"/2-4lf	4-6"/4-8lf

Flush Dates	:	5/17/23, 5/29/23
Permanent Flood	:	6/8/23

*AMMF – Air mix flat fan nozzles

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date						Jun-9-2023	Jun-26-2023	Jul-11-2023	Jul-19-2023	Jun-9-2023
Rating Type						INJURY	INJURY	INJURY	INJURY	CONTROL
Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type										W, Weed
Pest Code						RICE	RICE	RICE	RICE	ECHCG
Trt-Eval Interval						36 DAPRE	35 DAEPOST	50 DAEPOST	43 DALPOST	36 DAPRE
Number of Decimals						0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*	4*	5*
1	Command	8	oz/a	0.188	lb ai/a	PRE	0 -	0 -	0 -	0 -	0 d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	No EPOST				lb ai/a						
	No LPOST				lb ai/a						
2	Command	8	oz/a	0.188	lb ai/a	PRE	0 -	0 -	0 -	0 -	0 d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	No EPOST				lb ai/a						
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
3	Command	8	oz/a	0.188	lb ai/a	PRE	0 -	0 -	0 -	0 -	67 b
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
4	Command	8	oz/a	0.188	lb ai/a	PRE	0 -	0 -	0 -	0 -	68 b
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
5	Command	8	oz/a	0.188	lb ai/a	PRE	0 -	0 -	0 -	0 -	80 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Command	12.8	oz/a	0.3	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
6	Command	8	oz/a	0.188	lb ai/a	PRE	0 -	0 -	0 -	0 -	83 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Command	12.8	oz/a	0.3	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
7	Command	8	oz/a	0.188	lb ai/a	PRE	0 -	0 -	0 -	0 -	68 b
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Prowl	33.7	oz/a	1	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
8	Command	8	oz/a	0.188	lb ai/a	PRE	0 -	0 -	0 -	0 -	70 b
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Prowl	33.7	oz/a	1	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*	4*	5*
Rating Date							Jun-9-2023	Jun-26-2023	Jul-11-2023	Jul-19-2023	Jun-9-2023
Rating Type							INJURY	INJURY	INJURY	INJURY	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type											W, Weed
Pest Code							RICE	RICE	RICE	RICE	ECHCG
Trt-Eval Interval							36 DAPRE	35 DAEPOST	50 DAEPOST	43 DALPOST	36 DAPRE
Number of Decimals							0	0	0	0	0
9	Command	8	oz/a	0.188	lb ai/a	PRE	0 -	0 -	0 -	0 -	68 b
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
10	Command	8	oz/a	0.188	lb ai/a	PRE	0 -	0 -	0 -	0 -	80 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
11	Command	8	oz/a	0.188	lb ai/a	PRE	0 -	0 -	0 -	0 -	82 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Facet	32	oz/a	0.375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
12	Command	8	oz/a	0.188	lb ai/a	PRE	0 -	0 -	0 -	0 -	87 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Facet	32	oz/a	0.375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
13	Command	8	oz/a	0.188	lb ai/a	PRE	0 -	0 -	0 -	0 -	38 c
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Londax	1	oz/a	0.0375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date							Jun-9-2023	Jun-26-2023	Jul-11-2023	Jul-19-2023	Jun-9-2023
Rating Type							INJURY	INJURY	INJURY	INJURY	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type											W, Weed
Pest Code							RICE	RICE	RICE	RICE	ECHCG
Trt-Eval Interval							36 DAPRE	35 DAEPOST	50 DAEPOST	43 DALPOST	36 DAPRE
Number of Decimals							0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*	4*	5*
14	Command	8	oz/a	0.188	lb ai/a	PRE	0 -	0 -	0 -	0 -	78 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Londax	1	oz/a	0.0375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
LSD P=.05							.	.	.	.	6.9
Standard Deviation							0.00	0.00	0.00	0.00	4.10
CV							0.00	0.00	0.00	0.00	6.64
Levene's F^							.	.	.	.	0.564
Levene's Prob(F)							.	.	.	.	0.861
Shapiro-Wilk^							.	.	.	.	0.9825
P(Shapiro-Wilk)^							.	.	.	.	0.7569
Skewness^							.	.	.	.	0.2233
P(Skewness)^							.	.	.	.	0.5582
Kurtosis^							.	.	.	.	0.103
P(Kurtosis)^							.	.	.	.	0.8903
Analyzed as							RCB	RCB	RCB	RCB	RCB
Replicate F							0.000	0.000	0.000	0.000	1.677
Replicate Prob(F)							1.0000	1.0000	1.0000	1.0000	0.2065
Treatment F							0.000	0.000	0.000	0.000	146.581
Treatment Prob(F)							1.0000	1.0000	1.0000	1.0000	0.0001

LSU AgCenter SPESS

Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	6*	7*	8*	9*	10*
Rating Date							Jun-26-2023	Jul-11-2023	Jul-19-2023	Jun-9-2023	Jun-26-2023
Rating Type							CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG	BRAPP	BRAPP
Trt-Eval Interval							35 DAEPOST	50 DAEPOST	43 DALPOST	36 DAPRE	35 DAEPOST
Number of Decimals							0	0	0	0	0
1	Command	8	oz/a	0.188	lb ai/a	PRE	0 e	0 c	0 f	0 d	0 f
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	No EPOST				lb ai/a						
	No LPOST				lb ai/a						
2	Command	8	oz/a	0.188	lb ai/a	PRE	83 a	73 b	85 b	0 d	62 e
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	No EPOST				lb ai/a						
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
3	Command	8	oz/a	0.188	lb ai/a	PRE	7 de	0 c	0 f	73 c	67 e
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
4	Command	8	oz/a	0.188	lb ai/a	PRE	90 a	90 a	93 a	88 ab	95 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
5	Command	8	oz/a	0.188	lb ai/a	PRE	60 b	70 b	75 d	95 a	82 d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Command	12.8	oz/a	0.3	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
6	Command	8	oz/a	0.188	lb ai/a	PRE	93 a	92 a	95 a	96 a	96 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Command	12.8	oz/a	0.3	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
7	Command	8	oz/a	0.188	lb ai/a	PRE	13 d	7 c	25 e	96 a	88 a-d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Prowl	33.7	oz/a	1	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
8	Command	8	oz/a	0.188	lb ai/a	PRE	80 a	88 a	93 a	93 a	93 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Prowl	33.7	oz/a	1	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					

LSU AgCenter SPESS

Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	6*	7*	8*	9*	10*
Rating Date							Jun-26-2023	Jul-11-2023	Jul-19-2023	Jun-9-2023	Jun-26-2023
Rating Type							CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG	BRAPP	BRAPP
Trt-Eval Interval							35 DAEPOST	50 DAEPOST	43 DALPOST	36 DAPRE	35 DAEPOST
Number of Decimals							0	0	0	0	0
9	Command	8	oz/a	0.188	lb ai/a	PRE	38 c	78 b	82 bc	93 a	83 cd
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
10	Command	8	oz/a	0.188	lb ai/a	PRE	82 a	88 a	92 a	87 ab	87 bcd
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
11	Command	8	oz/a	0.188	lb ai/a	PRE	60 b	73 b	78 cd	95 a	88 a-d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Facet	32	oz/a	0.375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
12	Command	8	oz/a	0.188	lb ai/a	PRE	87 a	90 a	95 a	92 a	95 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Facet	32	oz/a	0.375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
13	Command	8	oz/a	0.188	lb ai/a	PRE	0 e	0 c	0 f	87 ab	92 abc
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Londax	1	oz/a	0.0375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						

LSU AgCenter SPESS

Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	6*	7*	8*	9*	10*
Rating Date							Jun-26-2023	Jul-11-2023	Jul-19-2023	Jun-9-2023	Jun-26-2023
Rating Type							CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG	BRAPP	BRAPP
Trt-Eval Interval							35 DAEPOST	50 DAEPOST	43 DALPOST	36 DAPRE	35 DAEPOST
Number of Decimals							0	0	0	0	0
14	Command	8	oz/a	0.188	lb ai/a	PRE	83 a	70 b	92 a	80 bc	83 cd
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Londax	1	oz/a	0.0375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
LSD P=.05							9.6	7.8	5.5	7.4	5.9
Standard Deviation							5.70	4.60	3.30	4.40	3.50
CV							10.36	7.89	5.03	5.71	4.41
Levene's F^							0.663	0.648	1.241	0.575	0.656
Levene's Prob(F)							0.780	0.794	0.304	0.853	0.786
Shapiro-Wilk^							0.9784	0.9182*	0.9318*	0.9719	0.9541
P(Shapiro-Wilk)^							0.6014	0.0053*	0.0149*	0.3819	0.0908
Skewness^							0.0530	1.0602*	-0.1392	0.5670	-0.6900
P(Skewness)^							0.8893	0.0077*	0.7149	0.1416	0.0754
Kurtosis^							0.852	3.696*	1.7421*	0.721	1.235
P(Kurtosis)^							0.2575	0.0*	0.0238*	0.3368	0.1037
Analyzed as							RCB	RCB	RCB	RCB	RCB
Replicate F							1.711	0.251	1.182	3.995	2.391
Replicate Prob(F)							0.2004	0.7802	0.3227	0.0307	0.1114
Treatment F							119.338	204.146	437.597	171.753	153.382
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001

LSU AgCenter SPESS

Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date						Jul-11-2023	Jul-19-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
Rating Type						CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type						W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code						BRAPP	BRAPP	CNPPA	CNPPA	CNPPA
Trt-Eval Interval						50 DAEPOST	43 DALPOST	36 DAPRE	35 DAEPOST	50 DAEPOST
Number of Decimals						0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	11*	12*	13*	14*	15*
1	Command	8	oz/a	0.188	lb ai/a	PRE	0 b	0 c	0 e	0 e	0 e
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	No EPOST				lb ai/a						
	No LPOST				lb ai/a						
2	Command	8	oz/a	0.188	lb ai/a	PRE	63 a	83 b	0 e	87 ab	92 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	No EPOST				lb ai/a						
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
3	Command	8	oz/a	0.188	lb ai/a	PRE	83 a	92 a	65 d	58 d	63 d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
4	Command	8	oz/a	0.188	lb ai/a	PRE	95 a	99 a	72 cd	90 ab	90 b
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
5	Command	8	oz/a	0.188	lb ai/a	PRE	83 a	93 a	65 d	63 d	68 cd
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Command	12.8	oz/a	0.3	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
6	Command	8	oz/a	0.188	lb ai/a	PRE	96 a	98 a	73 cd	88 ab	92 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Command	12.8	oz/a	0.3	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
7	Command	8	oz/a	0.188	lb ai/a	PRE	85 a	93 a	80 bc	65 d	92 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Prowl	33.7	oz/a	1	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
8	Command	8	oz/a	0.188	lb ai/a	PRE	96 a	99 a	85 abc	98 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Prowl	33.7	oz/a	1	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					

LSU AgCenter SPESS

Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	11*	12*	13*	14*	15*
Rating Date							Jul-11-2023	Jul-19-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
Rating Type							CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code							BRAPP	BRAPP	CNPPA	CNPPA	CNPPA
Trt-Eval Interval							50 DAEPOST	43 DALPOST	36 DAPRE	35 DAEPOST	50 DAEPOST
Number of Decimals							0	0	0	0	0
9	Command	8	oz/a	0.188	lb ai/a	PRE	87 a	95 a	82 bc	73 c	72 c
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
10	Command	8	oz/a	0.188	lb ai/a	PRE	95 a	96 a	92 ab	96 a	98 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
11	Command	8	oz/a	0.188	lb ai/a	PRE	85 a	93 a	92 ab	80 bc	65 d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Facet	32	oz/a	0.375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
12	Command	8	oz/a	0.188	lb ai/a	PRE	96 a	96 a	92 ab	96 a	95 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Facet	32	oz/a	0.375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
13	Command	8	oz/a	0.188	lb ai/a	PRE	95 a	93 a	98 a	98 a	96 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Londax	1	oz/a	0.0375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						

LSU AgCenter SPESS

Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	11*	12*	13*	14*	15*
	Rating Date						Jul-11-2023	Jul-19-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						BRAPP	BRAPP	CNPPA	CNPPA	CNPPA
	Trt-Eval Interval						50 DAEPOST	43 DALPOST	36 DAPRE	35 DAEPOST	50 DAEPOST
	Number of Decimals						0	0	0	0	0
14	Command	8	oz/a	0.188	lb ai/a	PRE	91 a	92 a	99 a	99 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Londax	1	oz/a	0.0375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
	LSD P=.05						20.6	4.2	9.8	8.3	4.7
	Standard Deviation						12.30	2.50	5.90	4.90	2.80
	CV						14.94	2.89	8.27	6.32	3.54
	Levene's F^						0.563	0.420	0.974	0.660	0.580
	Levene's Prob(F)						0.862	0.949	0.498	0.783	0.849
	Shapiro-Wilk^						0.916*	0.9757	0.9765	0.9396*	0.9823
	P(Shapiro-Wilk)^						0.0045*	0.5032	0.5301	0.0277*	0.7511
	Skewness^						0.4591	0.2211	0.2395	0.5717	0.0889
	P(Skewness)^						0.2318	0.5620	0.5301	0.1384	0.8154
	Kurtosis^						2.6558*	0.316	0.899	2.8778*	-0.133
	P(Kurtosis)^						0.0009*	0.6721	0.2329	0.0004*	0.8584
	Analyzed as						RCB	RCB	RCB	RCB	RCB
	Replicate F						0.772	2.581	0.229	0.639	0.250
	Replicate Prob(F)						0.4726	0.0950	0.7969	0.5359	0.7807
	Treatment F						12.709	304.934	89.353	86.151	263.442
	Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001

LSU AgCenter SPESS

Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	16*	17*	18*	19*	20*
	Rating Date						Jul-19-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023	Jul-19-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						CNPPA	SEBEX	SEBEX	SEBEX	SEBEX
	Trt-Eval Interval						43 DALPOST	36 DAPRE	35 DAEPOST	50 DAEPOST	43 DALPOST
	Number of Decimals						0	0	0	0	0
1	Command	8	oz/a	0.188	lb ai/a	PRE	0 e	0 b	0 d	0 e	0 e
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	No EPOST				lb ai/a						
	No LPOST				lb ai/a						
2	Command	8	oz/a	0.188	lb ai/a	PRE	75 c	0 b	99 a	99 a	95 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	No EPOST				lb ai/a						
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
3	Command	8	oz/a	0.188	lb ai/a	PRE	65 d	95 a	83 b	87 cd	92 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
4	Command	8	oz/a	0.188	lb ai/a	PRE	85 b	91 a	99 a	99 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
5	Command	8	oz/a	0.188	lb ai/a	PRE	68 d	93 a	63 c	82 d	70 d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Command	12.8	oz/a	0.3	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
6	Command	8	oz/a	0.188	lb ai/a	PRE	92 a	93 a	99 a	99 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Command	12.8	oz/a	0.3	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
7	Command	8	oz/a	0.188	lb ai/a	PRE	82 b	95 a	82 b	88 bc	88 b
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Prowl	33.7	oz/a	1	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
8	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	96 a	99 a	99 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Prowl	33.7	oz/a	1	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	16*	17*	18*	19*	20*
	Rating Date						Jul-19-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023	Jul-19-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						CNPPA	SEBEX	SEBEX	SEBEX	SEBEX
	Trt-Eval Interval						43 DALPOST	36 DAPRE	35 DAEPOST	50 DAEPOST	43 DALPOST
	Number of Decimals						0	0	0	0	0
9	Command	8	oz/a	0.188	lb ai/a	PRE	80 bc	93 a	78 b	90 abc	83 c
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
10	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	96 a	99 a	99 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
11	Command	8	oz/a	0.188	lb ai/a	PRE	83 b	98 a	93 a	95 ab	95 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Facet	32	oz/a	0.375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
12	Command	8	oz/a	0.188	lb ai/a	PRE	96 a	99 a	99 a	99 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Facet	32	oz/a	0.375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
13	Command	8	oz/a	0.188	lb ai/a	PRE	92 a	96 a	78 b	95 ab	95 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Londax	1	oz/a	0.0375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						

LSU AgCenter SPESS

Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	16*	17*	18*	19*	20*
	Rating Date						Jul-19-2023	Jun-9-2023	Jun-26-2023	Jul-11-2023	Jul-19-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						CNPPA	SEBEX	SEBEX	SEBEX	SEBEX
	Trt-Eval Interval						43 DALPOST	36 DAPRE	35 DAEPOST	50 DAEPOST	43 DALPOST
	Number of Decimals						0	0	0	0	0
14	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	96 a	99 a	99 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Londax	1	oz/a	0.0375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
	LSD P=.05						5.4	6.1	6.8	5.5	4.8
	Standard Deviation						3.20	3.60	4.10	3.30	2.90
	CV						4.07	4.44	4.85	3.74	3.32
	Levene's F^						0.717	0.311	0.973	1.769	0.819
	Levene's Prob(F)						0.732	0.985	0.500	0.100	0.638
	Shapiro-Wilk^						0.9645	0.9681	0.8093*	0.8409*	0.9002*
	P(Shapiro-Wilk)^						0.2131	0.2839	0.0*	0.0*	0.0015*
	Skewness^						0.0840	-0.2564	-1.2456*	-0.3643	-0.5433
	P(Skewness)^						0.8253	0.5016	0.002*	0.3411	0.1585
	Kurtosis^						-0.163	-0.769	5.9816*	2.5292*	0.701
	P(Kurtosis)^						0.8275	0.3063	0.0*	0.0015*	0.3501
	Analyzed as						RCB	RCB	RCB	RCB	RCB
	Replicate F						1.000	7.587	0.688	0.046	1.044
	Replicate Prob(F)						0.3816	0.0025	0.5115	0.9548	0.3665
	Treatment F						185.609	273.622	129.352	186.747	250.422
	Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001

LSU AgCenter SPESS

Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	21*	22*	23*	24*	25*
	Rating Date						Jun-9-2023	Jun-26-2023	Jul-11-2023	Jul-19-2023	Jun-9-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						COMDI	COMDI	COMDI	COMDI	CYPES
	Trt-Eval Interval						36 DAPRE	35 DAEPOST	50 DAEPOST	43 DALPOST	36 DAPRE
	Number of Decimals						0	0	0	0	0
1	Command	8	oz/a	0.188	lb ai/a	PRE	0 g	0 e	0 c	0 e	0 g
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	No EPOST				lb ai/a						
	No LPOST				lb ai/a						
2	Command	8	oz/a	0.188	lb ai/a	PRE	0 g	92 a	99 a	95 abc	0 g
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	No EPOST				lb ai/a						
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
3	Command	8	oz/a	0.188	lb ai/a	PRE	20 ef	78 bc	96 a	98 a	42 f
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
4	Command	8	oz/a	0.188	lb ai/a	PRE	15 ef	98 a	99 a	99 a	38 f
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
5	Command	8	oz/a	0.188	lb ai/a	PRE	22 e	93 a	98 a	96 ab	55 e
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Command	12.8	oz/a	0.3	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
6	Command	8	oz/a	0.188	lb ai/a	PRE	70 abc	99 a	99 a	99 a	62 de
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Command	12.8	oz/a	0.3	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
7	Command	8	oz/a	0.188	lb ai/a	PRE	23 e	67 d	96 a	90 d	60 de
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Prowl	33.7	oz/a	1	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
8	Command	8	oz/a	0.188	lb ai/a	PRE	43 d	99 a	99 a	99 a	65 cde
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Prowl	33.7	oz/a	1	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	21*	22*	23*	24*	25*
	Rating Date						Jun-9-2023	Jun-26-2023	Jul-11-2023	Jul-19-2023	Jun-9-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						COMDI	COMDI	COMDI	COMDI	CYPES
	Trt-Eval Interval						36 DAPRE	35 DAEPOST	50 DAEPOST	43 DALPOST	36 DAPRE
	Number of Decimals						0	0	0	0	0
9	Command	8	oz/a	0.188	lb ai/a	PRE	65 bc	75 c	93 a	90 d	65 cde
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
10	Command	8	oz/a	0.188	lb ai/a	PRE	78 a	99 a	99 a	99 a	75 bc
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
11	Command	8	oz/a	0.188	lb ai/a	PRE	10 fg	82 b	22 b	92 cd	37 f
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Facet	32	oz/a	0.375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
12	Command	8	oz/a	0.188	lb ai/a	PRE	62 c	99 a	99 a	99 a	67 cd
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Facet	32	oz/a	0.375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
13	Command	8	oz/a	0.188	lb ai/a	PRE	63 c	93 a	96 a	93 bcd	90 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Londax	1	oz/a	0.0375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						

LSU AgCenter SPESS

Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date							Jun-9-2023	Jun-26-2023	Jul-11-2023	Jul-19-2023	Jun-9-2023
Rating Type							CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code							COMDI	COMDI	COMDI	COMDI	CYPES
Trt-Eval Interval							36 DAPRE	35 DAEPOST	50 DAEPOST	43 DALPOST	36 DAPRE
Number of Decimals							0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	21*	22*	23*	24*	25*
14	Command	8	oz/a	0.188	lb ai/a	PRE	75 ab	99 a	99 a	99 a	82 b
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Londax	1	oz/a	0.0375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
LSD P=.05							8.7	5.3	4	3.1	7.8
Standard Deviation							5.20	3.20	2.40	1.80	4.60
CV							13.21	3.78	2.83	2.06	8.79
Levene's F^							0.736	1.442	0.744	1.035	0.386
Levene's Prob(F)							0.715	0.202	0.707	0.449	0.963
Shapiro-Wilk^							0.9576	0.8827*	0.9007*	0.8971*	0.9581
P(Shapiro-Wilk)^							0.1207	0.0005*	0.0015*	0.0012*	0.1266
Skewness^							-0.6267	-0.2038	-0.9112*	-0.1847	0.2207
P(Skewness)^							0.1052	0.5930	0.0206*	0.6280	0.5628
Kurtosis^							1.7407*	5.6168*	2.368*	2.4733*	-0.320
P(Kurtosis)^							0.0239*	0.0*	0.0027*	0.0018*	0.6684
Analyzed as							RCB	RCB	RCB	RCB	RCB
Replicate F							2.036	2.454	0.969	1.106	6.876
Replicate Prob(F)							0.1508	0.1056	0.3927	0.3459	0.0040
Treatment F							95.167	207.069	523.473	594.808	102.570
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date						Jun-26-2023	Jul-11-2023	Jul-19-2023	Jun-9-2023	Jun-26-2023
Rating Type						CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type						W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code						CYPES	CYPES	CYPES	ALRPH	ALRPH
Trt-Eval Interval						35 DAEPOST	50 DAEPOST	43 DALPOST	36 DAPRE	35 DAEPOST
Number of Decimals						0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	26*	27*	28*	29*	30*
1	Command	8	oz/a	0.188	lb ai/a	PRE	0 f	0 d	0 d	0 c	0 e
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	No EPOST				lb ai/a						
	No LPOST				lb ai/a						
2	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	99 a	99 a	0 c	93 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	No EPOST				lb ai/a						
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
3	Command	8	oz/a	0.188	lb ai/a	PRE	85 d	65 b	99 a	83 ab	87 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
4	Command	8	oz/a	0.188	lb ai/a	PRE	88 cd	99 a	99 a	92 ab	98 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
5	Command	8	oz/a	0.188	lb ai/a	PRE	72 e	50 c	72 c	88 ab	85 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Command	12.8	oz/a	0.3	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
6	Command	8	oz/a	0.188	lb ai/a	PRE	87 d	99 a	99 a	82 ab	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Command	12.8	oz/a	0.3	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
7	Command	8	oz/a	0.188	lb ai/a	PRE	67 e	65 b	68 c	78 ab	72 cd
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Prowl	33.7	oz/a	1	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
8	Command	8	oz/a	0.188	lb ai/a	PRE	90 bcd	99 a	99 a	75 b	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Prowl	33.7	oz/a	1	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	26*	27*	28*	29*	30*
	Rating Date						Jun-26-2023	Jul-11-2023	Jul-19-2023	Jun-9-2023	Jun-26-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						CYPES	CYPES	CYPES	ALRPH	ALRPH
	Trt-Eval Interval						35 DAEPOST	50 DAEPOST	43 DALPOST	36 DAPRE	35 DAEPOST
	Number of Decimals						0	0	0	0	0
9	Command	8	oz/a	0.188	lb ai/a	PRE	65 e	48 c	77 b	75 b	67 d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
10	Command	8	oz/a	0.188	lb ai/a	PRE	82 d	99 a	99 a	93 ab	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
11	Command	8	oz/a	0.188	lb ai/a	PRE	73 e	0 d	68 c	88 ab	80 bc
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Facet	32	oz/a	0.375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						
12	Command	8	oz/a	0.188	lb ai/a	PRE	98 ab	99 a	99 a	90 ab	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Facet	32	oz/a	0.375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
13	Command	8	oz/a	0.188	lb ai/a	PRE	82 d	93 a	99 a	93 ab	94 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Londax	1	oz/a	0.0375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	No LPOST				lb ai/a						

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	26*	27*	28*	29*	30*
	Rating Date						Jun-26-2023	Jul-11-2023	Jul-19-2023	Jun-9-2023	Jun-26-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						CYPES	CYPES	CYPES	ALRPH	ALRPH
	Trt-Eval Interval						35 DAEPOST	50 DAEPOST	43 DALPOST	36 DAPRE	35 DAEPOST
	Number of Decimals						0	0	0	0	0
14	Command	8	oz/a	0.188	lb ai/a	PRE	96 abc	99 a	99 a	96 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE					
	Londax	1	oz/a	0.0375	lb ai/a	EPOST					
	Stam	3	qt/a	3	lb ai/a	EPOST					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST					
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST					
	MSO	9.6	oz/a	0.75	% v/v	LPOST					
	LSD P=.05						6.7	7.1	3.8	11.7	10.6
	Standard Deviation						4.00	4.20	2.30	7.00	6.30
	CV						5.15	5.82	2.71	9.45	7.59
	Levene's F^						0.752	0.918	1.263	0.447	0.994
	Levene's Prob(F)						0.700	0.547	0.291	0.936	0.481
	Shapiro-Wilk^						0.9546	0.864*	0.8448*	0.9818	0.9324*
	P(Shapiro-Wilk)^						0.0947	0.0001*	0.0*	0.7328	0.0156*
	Skewness^						-0.6903	1.0895*	0.8464*	-0.2649	-0.4007
	P(Skewness)^						0.0753	0.0063*	0.0307*	0.4877	0.2957
	Kurtosis^						2.0151*	5.9782*	6.9893*	-0.493	1.258
	P(Kurtosis)^						0.0096*	0.0*	0.0*	0.5103	0.0975
	Analyzed as						RCB	RCB	RCB	RCB	RCB
	Replicate F						2.361	1.649	3.106	6.805	2.006
	Replicate Prob(F)						0.1143	0.2117	0.0617	0.0042	0.1548
	Treatment F						116.269	221.422	436.106	63.095	51.806
	Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	31*	32*	33*	34*
	Rating Date						Jul-11-2023	Jul-19-2023	Jun-26-2023	Jul-11-2023
	Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
	Pest Code						ALRPH	ALRPH	CYPIR	CYPIR
	Trt-Eval Interval						50 DAEPOST	43 DALPOST	35 DAEPOST	50 DAEPOST
	Number of Decimals						0	0	0	0
1	Command	8	oz/a	0.188	lb ai/a	PRE	0 c	0 b	0 c	0 d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	No EPOST				lb ai/a					
	No LPOST				lb ai/a					
2	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	98 a	99 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	No EPOST				lb ai/a					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
3	Command	8	oz/a	0.188	lb ai/a	PRE	95 a	96 a	88 a	55 b
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
4	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	99 a	98 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
5	Command	8	oz/a	0.188	lb ai/a	PRE	93 a	93 a	72 a	23 c
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Command	12.8	oz/a	0.3	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
6	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	99 a	96 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Command	12.8	oz/a	0.3	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
7	Command	8	oz/a	0.188	lb ai/a	PRE	95 a	92 a	42 b	88 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Prowl	33.7	oz/a	1	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
8	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	99 a	99 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Prowl	33.7	oz/a	1	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date						Jul-11-2023	Jul-19-2023	Jun-26-2023	Jul-11-2023
Rating Type						CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type						W, Weed	W, Weed	W, Weed	W, Weed
Pest Code						ALRPH	ALRPH	CYPIR	CYPIR
Trt-Eval Interval						50 DAEPOST	43 DALPOST	35 DAEPOST	50 DAEPOST
Number of Decimals						0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	31*	32*	33*	34*
9	Command	8	oz/a	0.188	lb ai/a	PRE	77 b	93 a	23 b	7 d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
10	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	99 a	95 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
11	Command	8	oz/a	0.188	lb ai/a	PRE	96 a	95 a	67 a	0 d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Facet	32	oz/a	0.375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
12	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	99 a	99 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Facet	32	oz/a	0.375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
13	Command	8	oz/a	0.188	lb ai/a	PRE	96 a	99 a	99 a	88 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Londax	1	oz/a	0.0375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	31*	32*	33*	34*
Rating Date							Jul-11-2023	Jul-19-2023	Jun-26-2023	Jul-11-2023
Rating Type							CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed	W, Weed
Pest Code							ALRPH	ALRPH	CYPIR	CYPIR
Trt-Eval Interval							50 DAEPOST	43 DALPOST	35 DAEPOST	50 DAEPOST
Number of Decimals							0	0	0	0
14	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	99 a	99 a	99 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Londax	1	oz/a	0.0375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
LSD P=.05							4.4	4.6	19.1	13.5
Standard Deviation							2.60	2.80	11.40	8.10
CV							2.96	3.08	14.80	11.82
Levene's F^							0.652	0.798	0.783	1.334
Levene's Prob(F)							0.790	0.657	0.671	0.252
Shapiro-Wilk^							0.9229*	0.8868*	0.8019*	0.8952*
P(Shapiro-Wilk)^							0.0075*	0.0006*	0.0*	0.001*
Skewness^							-0.7644*	-0.9873*	-1.5396*	-0.4865
P(Skewness)^							0.0499*	0.0126*	0.0002*	0.2056
Kurtosis^							0.769	2.0253*	7.7146*	2.8901*
P(Kurtosis)^							0.3062	0.0093*	0.0*	0.0004*
Analyzed as							RCB	RCB	RCB	RCB
Replicate F							3.052	0.395	1.054	1.597
Replicate Prob(F)							0.0645	0.6780	0.3630	0.2218
Treatment F							297.912	265.204	24.749	80.794
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	35*	36*	37*	38*
	Rating Date						Jul-19-2023	Aug-13-2023	Aug-13-2023	Aug-13-2023
	Rating Type						CONTROL	HEIGHTS	HEIGHTS	HEIGHTS
	Rating Unit/Min/Max						%, 0, 100	CM, -, -	CM, -, -	CM, -, -
	Pest Type						W, Weed			
	Pest Code						CYPIR	RICE	RICE	RICE
	Trt-Eval Interval						43 DALPOST	AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	0	0	0
1	Command	8	oz/a	0.188	lb ai/a	PRE	0 e	102 b	112 -	96 -
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	No EPOST				lb ai/a					
	No LPOST				lb ai/a					
2	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	113 ab	110 -	108 -
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	No EPOST				lb ai/a					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
3	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	111 ab	111 -	113 -
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
4	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	108 ab	110 -	109 -
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
5	Command	8	oz/a	0.188	lb ai/a	PRE	67 c	109 ab	113 -	109 -
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Command	12.8	oz/a	0.3	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
6	Command	8	oz/a	0.188	lb ai/a	PRE	98 a	116 a	111 -	115 -
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Command	12.8	oz/a	0.3	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
7	Command	8	oz/a	0.188	lb ai/a	PRE	80 b	118 a	109 -	113 -
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Prowl	33.7	oz/a	1	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
8	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	120 a	118 -	114 -
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Prowl	33.7	oz/a	1	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	35*	36*	37*	38*
	Rating Date						Jul-19-2023	Aug-13-2023	Aug-13-2023	Aug-13-2023
	Rating Type						CONTROL	HEIGHTS	HEIGHTS	HEIGHTS
	Rating Unit/Min/Max						%, 0, 100	CM, -, -	CM, -, -	CM, -, -
	Pest Type						W, Weed			
	Pest Code						CYPIR	RICE	RICE	RICE
	Trt-Eval Interval						43 DALPOST	AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	0	0	0
9	Command	8	oz/a	0.188	lb ai/a	PRE	63 c	117 a	113 -	116 -
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
10	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	122 a	115 -	114 -
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
11	Command	8	oz/a	0.188	lb ai/a	PRE	48 d	117 a	115 -	118 -
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Facet	32	oz/a	0.375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
12	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	120 a	118 -	115 -
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Facet	32	oz/a	0.375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
13	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	113 ab	112 -	114 -
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Londax	1	oz/a	0.0375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					

LSU AgCenter SPESS

Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	35*	36*	37*	38*
Rating Date							Jul-19-2023	Aug-13-2023	Aug-13-2023	Aug-13-2023
Rating Type							CONTROL	HEIGHTS	HEIGHTS	HEIGHTS
Rating Unit/Min/Max							%, 0, 100	CM, -, -	CM, -, -	CM, -, -
Pest Type							W, Weed			
Pest Code							CYPIR	RICE	RICE	RICE
Trt-Eval Interval							43 DALPOST	AT HARVEST	AT HARVEST	AT HARVEST
Number of Decimals							0	0	0	0
14	Command	8	oz/a	0.188	lb ai/a	PRE	99 a	111 ab	118 -	118 -
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Londax	1	oz/a	0.0375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
LSD P=.05							4.5	7.7	8.2	8.6
Standard Deviation							2.70	4.60	4.90	5.10
CV							3.25	3.99	4.29	4.51
Levene's F^							1.571	0.447	0.678	0.418
Levene's Prob(F)							0.154	0.935	0.766	0.949
Shapiro-Wilk^							0.8474*	0.9730	0.9745	0.9598
P(Shapiro-Wilk)^							0.0*	0.4450	0.4926	0.1652
Skewness^							-0.4278	-0.1813	0.0540	-0.6346
P(Skewness)^							0.2647	0.6426	0.8898	0.1097
Kurtosis^							4.5893*	-0.547	0.065	0.038
P(Kurtosis)^							0.0*	0.4761	0.9324	0.9605
Analyzed as							RCB	RCB	RCB	RCB
Replicate F							1.216	1.413	0.278	0.305
Replicate Prob(F)							0.3128	0.2629	0.7600	0.7402
Treatment F							356.884	3.352	1.232	2.034
Treatment Prob(F)							0.0001	0.0050	0.3174	0.0638

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	39*	40*	41*	42*
Rating Date							Aug-13-2023	Aug-13-2023	Aug-15-2023	Aug-15-2023
Rating Type							HEIGHTS	AVG HEIGHTS	YIELD	MOICON
Rating Unit/Min/Max							CM, -, -	CM, -, -	lbs/plot, -, -	%, 0, 100
Pest Type										
Pest Code							RICE	RICE	RICE	RICE
Trt-Eval Interval							AT HARVEST	AT HARVEST	AT HARVEST	AT HARVEST
Number of Decimals							0	0	2	1
1	Command	8	oz/a	0.188	lb ai/a	PRE	109 -	105 b	0 e	0 b
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	No EPOST				lb ai/a					
	No LPOST				lb ai/a					
2	Command	8	oz/a	0.188	lb ai/a	PRE	110 -	110 ab	18.79 cd	8.8 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	No EPOST				lb ai/a					
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
3	Command	8	oz/a	0.188	lb ai/a	PRE	109 -	111 ab	15.58 d	10.4 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
4	Command	8	oz/a	0.188	lb ai/a	PRE	103 -	108 ab	24.12 ab	13.3 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
5	Command	8	oz/a	0.188	lb ai/a	PRE	109 -	110 ab	20.18 c	12.1 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Command	12.8	oz/a	0.3	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
6	Command	8	oz/a	0.188	lb ai/a	PRE	112 -	114 ab	25.35 a	13.4 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Command	12.8	oz/a	0.3	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
7	Command	8	oz/a	0.188	lb ai/a	PRE	113 -	113 ab	18.49 cd	9.1 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Prowl	33.7	oz/a	1	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
8	Command	8	oz/a	0.188	lb ai/a	PRE	114 -	117 a	24.53 ab	13.9 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Prowl	33.7	oz/a	1	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				

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Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	39*	40*	41*	42*
	Rating Date						Aug-13-2023	Aug-13-2023	Aug-15-2023	Aug-15-2023
	Rating Type						HEIGHTS	AVG HEIGHTS	YIELD	MOICON
	Rating Unit/Min/Max						CM, -, -	CM, -, -	lbs/plot, -, -	%, 0, 100
	Pest Type									
	Pest Code						RICE	RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	0	2	1
9	Command	8	oz/a	0.188	lb ai/a	PRE	119 -	116 a	21.28 bc	13.6 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
10	Command	8	oz/a	0.188	lb ai/a	PRE	113 -	116 a	26.39 a	13.6 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
11	Command	8	oz/a	0.188	lb ai/a	PRE	114 -	116 a	20.99 bc	10.3 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Facet	32	oz/a	0.375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
12	Command	8	oz/a	0.188	lb ai/a	PRE	114 -	117 a	26.11 a	14.1 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Facet	32	oz/a	0.375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
13	Command	8	oz/a	0.188	lb ai/a	PRE	114 -	113 ab	16.05 d	11.6 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Londax	1	oz/a	0.0375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					

LSU AgCenter SPESS

Row Rice Herbicide Programs

Trial ID: C23-08
Protocol ID: C23-08 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	Aug-13-2023 HEIGHTS	Aug-13-2023 AVG HEIGHTS	Aug-15-2023 YIELD	Aug-15-2023 MOICON
	Rating Date						Aug-13-2023	Aug-13-2023	Aug-15-2023	Aug-15-2023
	Rating Type						HEIGHTS	AVG HEIGHTS	YIELD	MOICON
	Rating Unit/Min/Max						CM, -, -	CM, -, -	lbs/plot, -, -	%, 0, 100
	Pest Type									
	Pest Code						RICE	RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	0	2	1
							39*	40*	41*	42*
14	Command	8	oz/a	0.188	lb ai/a	PRE	119 -	117 a	24.68 ab	15.1 a
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Londax	1	oz/a	0.0375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
	LSD P=.05						8.7	5.5	2.569	3.6
	Standard Deviation						5.10	3.20	1.53	2.14
	CV						4.57	2.86	7.58	18.76
	Levene's F^						0.359	0.476	0.670	0.673
	Levene's Prob(F)						0.972	0.919	0.773	0.771
	Shapiro-Wilk^						0.9620	0.9799	0.9748	0.9820
	P(Shapiro-Wilk)^						0.1961	0.6849	0.4883	0.7499
	Skewness^						-0.0507	-0.3631	-0.4569	-0.2954
	P(Skewness)^						0.8966	0.3547	0.2397	0.4449
	Kurtosis^						-0.947	-0.123	0.206	0.618
	P(Kurtosis)^						0.2201	0.8720	0.7856	0.4152
	Analyzed as						RCB	RCB	RCB	RCB
	Replicate F						0.152	0.442	0.960	0.471
	Replicate Prob(F)						0.8597	0.6480	0.3965	0.6301
	Treatment F						1.937	3.114	59.993	9.503
	Treatment Prob(F)						0.0778	0.0078	0.0001	0.0001

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Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	43*	44*	45*
	Rating Date						Aug-15-2023	Aug-15-2023	Aug-15-2023
	Rating Type						YIELD	YIELD	YIELD
	Rating Unit/Min/Max						LB, -, -	BU, -, -	KG/A, -, -
	Pest Type								
	Pest Code						RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	1	0
1	Command	8	oz/a	0.188	lb ai/a	PRE	0 f	0 f	0 f
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE			
	No EPOST				lb ai/a				
	No LPOST				lb ai/a				
2	Command	8	oz/a	0.188	lb ai/a	PRE	5975 d	132.8 d	6697 d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE			
	No EPOST				lb ai/a				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST			
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST			
	MSO	9.6	oz/a	0.75	% v/v	LPOST			
3	Command	8	oz/a	0.188	lb ai/a	PRE	4878 e	108.4 e	5468 e
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE			
	Stam	3	qt/a	3	lb ai/a	EPOST			
	No LPOST				lb ai/a				
4	Command	8	oz/a	0.188	lb ai/a	PRE	7299 abc	162.2 abc	8181 abc
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE			
	Stam	3	qt/a	3	lb ai/a	EPOST			
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST			
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST			
	MSO	9.6	oz/a	0.75	% v/v	LPOST			
5	Command	8	oz/a	0.188	lb ai/a	PRE	6182 d	137.4 d	6930 d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE			
	Command	12.8	oz/a	0.3	lb ai/a	EPOST			
	Stam	3	qt/a	3	lb ai/a	EPOST			
	No LPOST				lb ai/a				
6	Command	8	oz/a	0.188	lb ai/a	PRE	7664 ab	170.3 ab	8591 ab
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE			
	Command	12.8	oz/a	0.3	lb ai/a	EPOST			
	Stam	3	qt/a	3	lb ai/a	EPOST			
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST			
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST			
	MSO	9.6	oz/a	0.75	% v/v	LPOST			
7	Command	8	oz/a	0.188	lb ai/a	PRE	5862 d	130.3 d	6570 d
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE			
	Prowl	33.7	oz/a	1	lb ai/a	EPOST			
	Stam	3	qt/a	3	lb ai/a	EPOST			
	No LPOST				lb ai/a				
8	Command	8	oz/a	0.188	lb ai/a	PRE	7373 abc	163.9 abc	8264 abc
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE			
	Prowl	33.7	oz/a	1	lb ai/a	EPOST			
	Stam	3	qt/a	3	lb ai/a	EPOST			
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST			

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Rating Date							Aug-15-2023	Aug-15-2023	Aug-15-2023	
Rating Type							YIELD	YIELD	YIELD	
Rating Unit/Min/Max							LB, -, -	BU, -, -	KG/A, -, -	
Pest Type										
Pest Code							RICE	RICE	RICE	
Trt-Eval Interval							AT HARVEST	AT HARVEST	AT HARVEST	
Number of Decimals							0	1	0	
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	43*	44*	45*	
9	Command	8	oz/a	0.188	lb ai/a	PRE	6421 cd	142.7 cd	7197 cd	
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
10	Command	8	oz/a	0.188	lb ai/a	PRE	7958 a	176.9 a	8920 a	
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	RiceOne	36	oz/a	1.02	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
11	Command	8	oz/a	0.188	lb ai/a	PRE	6541 bcd	145.4 bcd	7332 bcd	
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Facet	32	oz/a	0.375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					
12	Command	8	oz/a	0.188	lb ai/a	PRE	7827 a	173.9 a	8773 a	
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Facet	32	oz/a	0.375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST				
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST				
	MSO	9.6	oz/a	0.75	% v/v	LPOST				
13	Command	8	oz/a	0.188	lb ai/a	PRE	4974 e	110.5 e	5575 e	
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE				
	Londax	1	oz/a	0.0375	lb ai/a	EPOST				
	Stam	3	qt/a	3	lb ai/a	EPOST				
	No LPOST				lb ai/a					

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Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	43*	44*	45*
Rating Date							Aug-15-2023	Aug-15-2023	Aug-15-2023
Rating Type							YIELD	YIELD	YIELD
Rating Unit/Min/Max							LB, -, -	BU, -, -	KG/A, -, -
Pest Type									
Pest Code							RICE	RICE	RICE
Trt-Eval Interval							AT HARVEST	AT HARVEST	AT HARVEST
Number of Decimals							0	1	0
14	Command	8	oz/a	0.188	lb ai/a	PRE	7315 abc	162.6 abc	8199 abc
	Sharpen	1	oz/a	0.0223	lb ai/a	PRE			
	Londax	1	oz/a	0.0375	lb ai/a	EPOST			
	Stam	3	qt/a	3	lb ai/a	EPOST			
	Regiment	0.6	oz/a	0.03	lb ai/a	LPOST			
	Gambit	1.5	oz/a	0.074	lb ai/a	LPOST			
	MSO	9.6	oz/a	0.75	% v/v	LPOST			
LSD P=.05							777	17.27	870.9
Standard Deviation							462.00	10.27	517.90
CV							7.51	7.51	7.51
Levene's F^							0.629	0.629	0.629
Levene's Prob(F)							0.809	0.809	0.809
Shapiro-Wilk^							0.9546	0.9546	0.9546
P(Shapiro-Wilk)^							0.1018	0.1018	0.1018
Skewness^							-0.8764*	-0.8764*	-0.8764*
P(Skewness)^							0.0274*	0.0274*	0.0274*
Kurtosis^							1.7105*	1.7105*	1.7105*
P(Kurtosis)^							0.0281*	0.0281*	0.0281*
Analyzed as							RCB	RCB	RCB
Replicate F							0.684	0.684	0.684
Replicate Prob(F)							0.5138	0.5138	0.5138
Treatment F							58.000	58.000	58.000
Treatment Prob(F)							0.0001	0.0001	0.0001

LSU AgCenter
School of Plant, Environmental and Soil Sciences

Comparison of Clomate and Command for Residual Grass Control

Experiment number	:	**C23-14**
Location	:	RRS-Crowley, LA
Experimental design	:	RCB
Number of reps	:	3
Plot size	:	10'x30'
Row width/# per plot	:	7.5"/16
Soil type	:	Crowley silt loam (3% sand, 69% silt, 28% clay)
% OM	:	1.4
pH	:	6.4
CEC	:	19.1
Crop/Variety	:	PVL03 @ 70 lb/A
Planting date	:	5/2/23
Emergence date	:	5/8/23
Harvest date	:	8/21/23
Uniform Standard Treatment.	:	Gambit at 1.5 oz/A on 5/16/2023

Application type	:	PRE	EPOST	MPOST	LPOST
Date applied [mm/dd/yy]	:	5/4/23	5/22/23	5/30/23	6/5/23
Time [hh:mm-hh:mm]	:	2:37-2:53p	1:22-1:27p	10:17-10:21a	11:35-11:39a
Air/Soil temperature [F]	:	87/82	79/74	NA	83/88
Relative humidity [%]	:	41%	56%	63%	60%
Wind [mph, direction]	:	4-6, NNW	3-4, NW	3-4, SW	3-5, ENE
Weather [sunny, etc.]	:	Sunny	Sunny	Sunny	Ptly Cloudy
Soil/Leaf surface moist	:	Dry/NA	Dry/Dry	Moist/Dry	Dry/Dry
Crop stage/Height	:	N/A	3-4lf/5-6"	3lf-1til/6-10"	2-3til/9-14"
Sprayer type/MPH	:	BKPK/3.0	BKPK/3.0	BKPK/3.0	BKPK/3.0
Nozzle type/Size*	:	FF/11001	FF/11001	FF/11001	FF/11001
Boom ht/# Noz/Spacing	:	20/7/20	20/7/20	20/7/20	20/7/20
GPA/PSI	:	10/33	10/33	10/33	10/33
Applied by	:	JAW/LNV	WBC/MPA	WBC/DZ	JAW/MPA
Weed Species (population)	:	(height/#leaves)	(height/#leaves)	(height/#leaves)	(height/#leaves)
ECHCG (40-50m2)	:	NA	2-4"/2-4lf	3-7"/4-5lf	7-10"/2-3til
BRAPP (20-30m2)	:	NA	2-4"/2-4lf	3-5"/4-6lf	6-10"/8-10lf
LEFPA (10-20m2)		NA	1-2"/1-2lf	2-5"/3-5lf	4-8"/4-5lf

Flush Dates	:	5/17, 5/29
Permanent Flood	:	6/8/23

*AMMF – Air mix flat fan nozzles

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Trial ID: C23-14
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Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*	4*
Rating Date							May-15-2023	Jun-1-2023	Jun-26-2023	Jul-19-2023
Rating Type							INJURY	INJURY	INJURY	INJURY
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type										
Pest Code							RICE	RICE	RICE	RICE
Trt-Eval Interval							11 DAPRE	10 DAEPOST	27 DAMPOST	50 DAMPOST
Number of Decimals							0	0	0	0
1	Nontreated						0 -	0 -	0 -	0 -
2	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	10 -	0 -	0 -	0 -
	Provisia	0.107	lb ai/a	15.5	fl oz/a	EPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	EPOST				
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	10 -	0 -	0 -	0 -
	Provisia	0.107	lb ai/a	15.5	fl oz/a	EPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	EPOST				
4	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	10 -	0 -		0 -
	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	MPOST				
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	10 -	0 -	0 -	0 -
	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	MPOST				
6	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	10 -	0 -	0 -	0 -
	Provisia	0.107	lb ai/a	15.5	fl oz/a	LPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	LPOST				
7	Command	0.188	lb ai/a	8	fl oz/a	PRE	10 -	0 -	0 -	0 -
	Provisia	0.107	lb ai/a	15.5	fl oz/a	LPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	LPOST				
8	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	10 -	0 -	0 -	0 -
9	Command	0.188	lb ai/a	8	fl oz/a	PRE	10 -	0 -	0 -	0 -
LSD P=.05							.	.	.	.
Standard Deviation							0.00	0.00	0.00	0.00
CV							0.00	0.00	0.00	0.00
Levene's F^							.	.	.	.
Levene's Prob(F)							.	.	.	.
Shapiro-Wilk^							.	.	.	.
P(Shapiro-Wilk)^							.	.	.	.
Skewness^							.	.	.	.
P(Skewness)^							.	.	.	.
Kurtosis^							.	.	.	.
P(Kurtosis)^							.	.	.	.
Replicate F							0.000	0.000	0.000	0.000
Replicate Prob(F)							1.0000	1.0000	1.0000	1.0000
Treatment F							0.000	0.000	0.000	0.000
Treatment Prob(F)							1.0000	1.0000	1.0000	1.0000

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Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	5*	6*	7*	8*
Rating Date							May-15-2023	Jun-1-2023	Jun-26-2023	Jul-19-2023
Rating Type							CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG	ECHCG
Trt-Eval Interval							11 DAPRE	10 DAEPOST	27 DAMPOST	50 DAMPOST
Number of Decimals							0	0	0	0
1	Nontreated						0 b	0 e	0 b	0 b
2	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	87 a	70 ab	96 a	99 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	EPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	EPOST				
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	85 a	78 a	95 a	99 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	EPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	EPOST				
4	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	89 a	55 bcd		99 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	MPOST				
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	85 a	57 bcd	96 a	99 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	MPOST				
6	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	90 a	60 bc	98 a	99 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	LPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	LPOST				
7	Command	0.188	lb ai/a	8	fl oz/a	PRE	83 a	50 cd	96 a	99 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	LPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	LPOST				
8	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	90 a	50 cd	0 b	0 b
9	Command	0.188	lb ai/a	8	fl oz/a	PRE	85 a	40 d	0 b	0 b
LSD P=.05							5.40	13.10	5.30	0.50
Standard Deviation							3.10	7.50	3.10	0.30
CV							4.03	14.76	4.77	0.46
Levene's F^							0.216	0.481	0.765	0.014
Levene's Prob(F)							0.984	0.854	0.637	1
Shapiro-Wilk^							0.8471*	0.9651	0.899*	0.8381*
P(Shapiro-Wilk)^							0.001*	0.4778	0.0127*	0.0007*
Skewness^							0.6743	0.5117	-0.7998	0.1676
P(Skewness)^							0.1653	0.2886	0.1024	0.7256
Kurtosis^							-1.1149	0.7613	0.3389	-1.469
P(Kurtosis)^							0.2364	0.4154	0.7155	0.1223
Replicate F							6.228	2.390	0.770	10.000
Replicate Prob(F)							0.0100	0.1235	0.4794	0.0015
Treatment F							261.638	26.085	742.195	78943.608
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

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Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	9*	10*	11*	12*
Rating Date							May-15-2023	Jun-1-2023	Jun-26-2023	Jul-19-2023
Rating Type							CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed	W, Weed
Pest Code							BRAPP	BRAPP	BRAPP	BRAPP
Trt-Eval Interval							11 DAPRE	10 DAEPOST	27 DAMPOST	50 DAMPOST
Number of Decimals							0	0	0	0
1	Nontreated						0 b	0 c	0 b	0 b
2	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	92 a	93 a	98 a	99 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	EPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	EPOST				
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	85 a	91 a	95 a	99 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	EPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	EPOST				
4	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	93 a	33 b		99 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	MPOST				
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	90 a	33 b	98 a	99 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	MPOST				
6	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	92 a	35 b	98 a	99 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	LPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	LPOST				
7	Command	0.188	lb ai/a	8	fl oz/a	PRE	88 a	37 b	98 a	99 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	LPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	LPOST				
8	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	93 a	32 b	0 b	0 b
9	Command	0.188	lb ai/a	8	fl oz/a	PRE	92 a	30 b	0 b	0 b
LSD P=.05							7.00	9.90	3.30	0.50
Standard Deviation							4.00	5.70	1.90	0.30
CV							5.01	13.42	2.90	0.46
Levene's F^							1.016	0.452	0.832	0.014
Levene's Prob(F)							0.459	0.873	0.586	1
Shapiro-Wilk^							0.9314	0.9878	0.7469*	0.8381*
P(Shapiro-Wilk)^							0.0747	0.9827	0.0*	0.0007*
Skewness^							-0.8701	0.1104	-1.778*	-0.1676
P(Skewness)^							0.0769	0.817	0.0009*	0.7256
Kurtosis^							3.2763*	-0.3576	9.0424*	-1.469
P(Kurtosis)^							0.0014*	0.7006	0.0*	0.1223
Replicate F							4.255	2.794	1.818	6.400
Replicate Prob(F)							0.0330	0.0910	0.1943	0.0091
Treatment F							169.021	83.021	2010.322	79032.708
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

LSU AgCenter SPESS

Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-14
Protocol ID: C23-14 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	13*	14*	15*	16*
Rating Date							Jun-1-2023	Jun-26-2023	Jul-19-2023	Aug-15-2023
Rating Type							CONTROL	CONTROL	CONTROL	HEIGTHS
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	CM, -, -
Pest Type							W, Weed	W, Weed	W, Weed	
Pest Code							LEFPA	LEFPA	LEFPA	RICE
Trt-Eval Interval							10 DAEPOST	27 DAMPOST	50 DAMPOST	AT HARVEST
Number of Decimals							0	0	0	0
1	Nontreated						0 b	0 b	0 c	78 c
2	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	97 a	98 a	82 b	106 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	EPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	EPOST				
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	95 a	98 a	80 b	105 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	EPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	EPOST				
4	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	0 b	98 a		107 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	MPOST				
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 b	98 a	99 a	104 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	MPOST				
6	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	0 b	98 a	99 a	108 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	LPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	LPOST				
7	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 b	98 a	92 a	107 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	LPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	LPOST				
8	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	0 b	0 b	0 c	89 b
9	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 b	0 b	0 c	84 bc
LSD P=.05							2.70	0.50	8.60	8.70
Standard Deviation							1.60	0.30	5.00	5.00
CV							7.37	0.44	8.16	5.07
Levene's F^							0.51	0.125	0.864	0.197
Levene's Prob(F)							0.833	0.997	0.563	0.988
Shapiro-Wilk^							0.7667*	0.7737*	0.8265*	0.9359
P(Shapiro-Wilk)^							0.0*	0.0*	0.0004*	0.0965
Skewness^							-1.488*	-0.5299	1.3474*	-0.3623
P(Skewness)^							0.0041*	0.2722	0.0084*	0.4499
Kurtosis^							6.4841*	-0.65	3.853*	-1.0455
P(Kurtosis)^							0.0*	0.486	0.0003*	0.266
Replicate F							1.806	16.000	0.707	3.539
Replicate Prob(F)							0.1962	0.0002	0.5079	0.0534
Treatment F							2174.187	87025.009	259.552	15.841
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

LSU AgCenter SPESS

Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-14
Protocol ID: C23-14 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	17*	18*	19*	20*
Rating Date							Aug-15-2023	Aug-15-2023	Aug-15-2023	Aug-15-2023
Rating Type							HEIGHTS	HEIGHTS	HEIGHTS	AVG HEIGHTS
Rating Unit/Min/Max							CM, -, -	CM, -, -	CM, -, -	CM, -, -
Pest Type										
Pest Code							RICE	RICE	RICE	RICE
Trt-Eval Interval							AT HARVEST	AT HARVEST	AT HARVEST	AT HARVEST
Number of Decimals							0	0	0	0
1	Nontreated						82 b	80 c	83 c	81 c
2	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	108 a	107 a	109 a	108 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	EPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	EPOST				
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	107 a	108 a	105 a	106 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	EPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	EPOST				
4	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	108 a	106 a		107 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	MPOST				
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	104 a	106 a	109 a	106 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	MPOST				
6	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	104 a	106 a	110 a	107 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	LPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	LPOST				
7	Command	0.188	lb ai/a	8	fl oz/a	PRE	108 a	108 a	109 a	108 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	LPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	LPOST				
8	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	90 b	94 b	95 b	92 b
9	Command	0.188	lb ai/a	8	fl oz/a	PRE	86 b	89 b	92 b	88 b
LSD P=.05							8.30	7.60	8.30	6.80
Standard Deviation							4.80	4.40	4.80	3.90
CV							4.83	4.38	4.70	3.94
Levene's F^							0.645	0.112	0.735	0.672
Levene's Prob(F)							0.73	0.998	0.661	0.71
Shapiro-Wilk^							0.9852	0.9485	0.9723	0.9906
P(Shapiro-Wilk)^							0.9563	0.1972	0.6636	0.9958
Skewness^							0.1798	0.1749	0.0089	0.0689
P(Skewness)^							0.7065	0.7142	0.9852	0.8852
Kurtosis^							0.3168	-1.1547	-0.284	0.105
P(Kurtosis)^							0.7333	0.2205	0.7599	0.91
Replicate F							3.830	0.981	1.176	3.176
Replicate Prob(F)							0.0437	0.3965	0.3338	0.0689
Treatment F							13.838	16.224	12.254	20.685
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-14
Protocol ID: C23-14 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	21*	22*	23*	24*
Rating Date							Aug-21-2023	Aug-21-2023	Aug-21-2023	Aug-21-2023
Rating Type							YIELD	MOICON	YIELD	YIELD
Rating Unit/Min/Max							lbs/plot, -, -	%, 0, 100	LB, -, -	BU, -, -
Pest Type										
Pest Code							RICE	RICE	RICE	RICE
Trt-Eval Interval							AT HARVEST	AT HARVEST	AT HARVEST	AT HARVEST
Number of Decimals							2	1	0	0
1	Nontreated						0 c	0 d	0 c	0 c
2	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	24.27 a	19.5 a	6616 a	147 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	EPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	EPOST				
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	24.2 a	20.9 a	6488 a	144 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	EPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	EPOST				
4	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	25.02 a	19.9 a		151 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	MPOST				
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	26.05 a	21 a	6977 a	155 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	MPOST				
6	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	25.73 a	20.9 a	6899 a	153 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	LPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	LPOST				
7	Command	0.188	lb ai/a	8	fl oz/a	PRE	24.81 a	20.5 a	6680 a	148 a
	Provisia	0.107	lb ai/a	15.5	fl oz/a	LPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	LPOST				
8	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	4.88 b	18.2 b	1358 b	30 b
9	Command	0.188	lb ai/a	8	fl oz/a	PRE	4.37 b	17 c	1231 b	27 b
LSD P=.05							2.97	1.05	780.90	17.40
Standard Deviation							1.72	0.61	451.20	10.00
CV							9.70	3.46	9.44	9.44
Levene's F^							0.547	0.519	0.64	0.64
Levene's Prob(F)							0.806	0.827	0.735	0.735
Shapiro-Wilk^							0.9698	0.9615	0.9655	0.9655
P(Shapiro-Wilk)^							0.5976	0.3986	0.4876	0.4876
Skewness^							-0.4653	-0.4683	-0.4532	-0.4532
P(Skewness)^							0.3337	0.3306	0.3462	0.3462
Kurtosis^							0.8181	-0.2739	1.2748	1.2748
P(Kurtosis)^							0.3819	0.7682	0.1775	0.1775
Replicate F							3.516	9.421	2.837	2.837
Replicate Prob(F)							0.0542	0.0020	0.0882	0.0882
Treatment F							124.407	367.392	129.688	129.688
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001

LSU AgCenter SPESS

Comparison of Clomate and Command for Residual Grass Control

Trial ID:	C23-14				
Protocol ID:	C23-14	Location:	Crowley, RRS	Trial Year:	2023
Project ID:		Project ID 2:		Project ID 3:	
Study Director:		Sponsor Contact:			
Investigator:					

Rating Date						Aug-21-2023			
Rating Type						YIELD			
Rating Unit/Min/Max						KG/HA, -, -			
Pest Type									
Pest Code						RICE			
Trt-Eval Interval						AT HARVEST			
Number of Decimals						0			
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	25*			
1	Nontreated						0 c			
2	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	7416 a			
	Provisia	0.107	lb ai/a	15.5	fl oz/a	EPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	EPOST				
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	7272 a			
	Provisia	0.107	lb ai/a	15.5	fl oz/a	EPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	EPOST				
4	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	7605 a			
	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	MPOST				
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	7820 a			
	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	MPOST				
6	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	7732 a			
	Provisia	0.107	lb ai/a	15.5	fl oz/a	LPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	LPOST				
7	Command	0.188	lb ai/a	8	fl oz/a	PRE	7488 a			
	Provisia	0.107	lb ai/a	15.5	fl oz/a	LPOST				
	Agri-Dex	1	% v/v	12.8	fl oz/a	LPOST				
8	Clomate	0.188	lb ai/a	8	fl oz/a	PRE	1522 b			
9	Command	0.188	lb ai/a	8	fl oz/a	PRE	1379 b			
LSD P=.05							875.30			
Standard Deviation							505.70			
CV							9.44			
Levene's F^							0.64			
Levene's Prob(F)							0.735			
Shapiro-Wilk^							0.9655			
P(Shapiro-Wilk)^							0.4876			
Skewness^							-0.4532			
P(Skewness)^							0.3462			
Kurtosis^							1.2748			
P(Kurtosis)^							0.1775			
Replicate F							2.837			
Replicate Prob(F)							0.0882			
Treatment F							129.688			
Treatment Prob(F)							0.0001			

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School of Plant, Environmental and Soil Sciences

Rindé program approaches in Provisia and Clearfield rice production

Experiment number	:	**C23-20**
Location	:	RRS-Crowley, LA
Experimental design	:	RCB
Number of reps	:	3
Plot size	:	10'x30'
Row width/# per plot	:	7.5"/16
Soil type	:	Crowley silt loam (3% sand, 69% silt, 28% clay)
% OM	:	1.4
pH	:	6.4
CEC	:	19.1
Crop/Variety	:	PVL03 @70 lbs/A and CLL17 @ 70 lbs/A
Planting date	:	5/2/23
Emergence date	:	5/8/23
Harvest date	:	8/22/23

Application type	:	PRE	DPRE	EPOST	PREFLOOD	POSTFLOOD
Date applied [mm/dd/yy]	:	5/4/23	5/8/23	5/22/23	6/6/23	6/13/23
Time [hh:mm-hh:mm]	:	5:36-5:53p	2:08-2:17p	1:51-2:00p	11:15-11:51a	10:55-11:04a
Air/Soil temperature [F]	:	81/76	83/78	80/75	3/16/00	86/81
Relative humidity [%]	:	42%	71%	55%	65%	62%
Wind [mph, direction]	:	6-8, S	8-10, NNW	2-4, N	2-4, NNE	8-11, S
Weather [sunny, etc.]	:	Ptly Cloudy	Cloudy	Sunny	Ptly Cloudy	Ptly Cloudy
Soil/Leaf surface moist	:	Dry	Moist/Dry	Dry/Dry	Moist/Dry	Flood/Dry
Crop stage/Height	:	N/A	N/A	3-4lf/5-6"	2-3til/12-20"	2-3til/16-20"
Sprayer type/MPH	:	BKPK/3.0	BKPK/3.0	BKPK/3.0	BKPK/3.0	BKPK/3.0
Nozzle type/Size*	:	FF/11001	FF/11001	FF/11001	FF/11001	FF/11001
Boom ht/# Noz/Spacing	:	18/7/20	18/7/20	24/7/20	18/7/20	18/7/20
GPA/PSI	:	10/33	10/40	10/33	10/33	10/33
Applied by	:	BS/JAW	JAW/LCW	WBC/MPA	JAW/MPA	WBC/MPA

Weed Species (population)		height/#leaves	height/#leaves	height/#leaves	height/#leaves	height/#leaves
ECHCG (50-75m2)	:	N/A	0.5-1"/1lf	6-10"/1-2til	12-18"/3-4til	12-18"/3til-head
BRAPP (10-20m2)	:	N/A	0.5-1"/1lf	4-8"/4-6lf	6-9"/1-2til	10-12"/2-4til
COMDI (2-3m2)	:	N/A	0.5-1"/1lf	1-4"/2-4lf	6-8"/6-8lf	6-10"/10-14lf
SEBEX (3-7m2)		N/A	N/A	2-3"/2-3lf	6-14"/8-12lf	12-16"/10-14lf
CYPES (8-12m2)		N/A	N/A	5-6"/6-9lf	10-15"/6-12lf	12-18"/9-12lf
CYPIR (20-30m2)		N/A	N/A	2-4"/6-9lf	6-8"/6-12lf	8-12"/9-12lf

Flush Dates	5/17, 5/29
Permanent Flood	6/8/23

*AMMF – Air mix flat fan nozzles

LSU AgCenter SPESS

Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date									Jun-9-2023	Jun-21-2023	Jul-6-2023
Rating Type									INJURY	INJURY	INJURY
Rating Unit/Min/Max									%, 0, 100	%, 0, 100	%, 0, 100
Pest Type									W, Weed	W, Weed	W, Weed
Pest Code									RICE	RICE	RICE
Trt-Eval Interval									18 DAEPOST	15 DAPFL	30 DAPFL
Number of Decimals									0	0	0
Trt No.	Treatment Name	Rate	Rate Unit		Other Rate	Other Rate Unit		Appl Timing	1*	2*	3*
1	Nontreated								0 b	0 b	0 c
	Command 3 ME	0.18	lb ai/a		7.7	fl oz/a		PRE			
2	Command 3 ME	0.18	lb ai/a		7.7	fl oz/a		PRE	0 b	0 b	0 c
	Rinde 1.62 L	0.267	lb ai/a		21.13	fl oz/a		EPOST			
	Dyne-A-Pak	1.42	% v/v		27.3	fl oz/a		EPOST			
	Arroz 80 WP	0.029	lb ai/a		0.58	oz/a		POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v		27.3	fl oz/a		POSTFLOOD			
3	Command 3 ME	0.18	lb ai/a		7.7	fl oz/a		PRE	0 b	0 b	0 c
	Prowl 3.3 EC	0.95	lb ai/a		2.3	pt/a		DPRE			
	Rinde 1.62 L	0.39	lb ai/a		30.77	fl oz/a		PREFLOOD			
	Dyne-A-Pak	1.42	% v/v		27.3	fl oz/a		PREFLOOD			
4	Command 3 ME	0.18	lb ai/a		7.7	fl oz/a		PRE	0 b	0 b	0 c
	Basagran 4 SL	0.72	lb ai/a		1.44	pt/a		EPOST			
	Rinde 1.62 L	0.267	lb ai/a		21.13	fl oz/a		EPOST			
	Dyne-A-Pak	1.42	% v/v		27.3	fl oz/a		EPOST			
	Arroz 80 WP	0.029	lb ai/a		0.58	oz/a		POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v		27.3	fl oz/a		POSTFLOOD			
5	Command 3 ME	0.18	lb ai/a		7.7	fl oz/a		PRE	0 b	0 b	0 c
	Bolero 8 EC	3.84	lb ai/a		3.84	pt/a		DPRE			
	Rinde 1.62 L	30.77	fl oz/a		0.39	lb ai/a		PREFLOOD			
	Dyne-A-Pak	1.42	% v/v		27.3	fl oz/a		PREFLOOD			
6	Command 3 ME	0.18	lb ai/a		7.7	fl oz/a		PRE	0 b	0 b	0 c
	Provisia 0.88 EC	0.103	lb ai/a		14.97	fl oz/a		EPOST			
	Rinde 1.62 L	0.267	lb ai/a		21.13	fl oz/a		EPOST			
	Dyne-A-Pak	1.42	% v/v		27.3	fl oz/a		EPOST			
	Provisia 0.88 EC	15	fl oz/a		14.97	fl oz/a		PREFLOOD			
	Crop Oil Concentrate	1.42	% v/v		27.3	fl oz/a		PREFLOOD			
7	Command 3 ME	0.18	lb ai/a		7.7	fl oz/a		PRE	0 b	0 b	0 c
	Rinde 1.62 L	0.34	lb ai/a		26.9	fl oz/a		PREFLOOD			
	Dyne-A-Pak	1.42	% v/v		27.3	fl oz/a		PREFLOOD			
8	Command 3 ME	0.18	lb ai/a		7.7	fl oz/a		PRE	0 b	0 b	0 c
	Rinde 1.62 L	0.39	lb ai/a		30.77	fl oz/a		PREFLOOD			
	Dyne-A-Pak	1.42	% v/v		27.3	fl oz/a		PREFLOOD			
9	Command 3 ME	0.18	lb ai/a		7.7	fl oz/a		PRE	0 b	0 b	92 b
	Rinde 1.62 L	0.39	lb ai/a		30.77	fl oz/a		PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a		5.79	fl oz/a		PREFLOOD			
	Dyne-A-Pak	1.42	% v/v		27.3	fl oz/a		PREFLOOD			
10	Command 3 ME	0.18	lb ai/a		7.7	fl oz/a		PRE	88 a	93 a	99 a
	Newpath 2 L	0.0905	lb ai/a		5.79	fl oz/a		DPRE			
	Agri-Dex	1.42	% v/v		27.3	fl oz/a		DPRE			
	Rinde 1.62 L	0.39	lb ai/a		30.77	fl oz/a		PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a		5.79	fl oz/a		PREFLOOD			
	Dyne-A-Pak	1.42	% v/v		27.3	fl oz/a		PREFLOOD			

LSU AgCenter SPESS

Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*
	Rating Date						Jun-9-2023	Jun-21-2023	Jul-6-2023
	Rating Type						INJURY	INJURY	INJURY
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						RICE	RICE	RICE
	Trt-Eval Interval						18 DAEPOST	15 DAPFL	30 DAPFL
	Number of Decimals						0	0	0
11	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 b	0 b	0 c
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Permit Plus 75 WG	0.045	lb ai/a	0.96	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
12	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 b	0 b	0 c
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Gambit 79 WDG	0.071	lb ai/a	1.44	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
13	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 b	0 b	0 c
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Ricestar HT 0.58 L	0.105	lb ai/a	23.1	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
14	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 b	0 b	0 c
	Rinde 1.62 L	0.44	lb ai/a	34.6	fl oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
	LSD P=.05						1.30	1.30	1.30
	Standard Deviation						0.80	0.80	0.80
	CV						12.23	11.57	5.66
	Levene's F^						0.791	0.791	0.791
	Levene's Prob(F)						0.663	0.663	0.663
	Shapiro-Wilk^						0.5154*	0.5154*	0.5154*
	P(Shapiro-Wilk)^						0.0*	0.0*	0.0*
	Skewness^						-2.4415*	-2.4415*	2.4415*
	P(Skewness)^						0.0*	0.0*	0.0*
	Kurtosis^						17.24*	17.24*	17.24*
	P(Kurtosis)^						0.0*	0.0*	0.0*
	Replicate F						1.000	1.000	1.000
	Replicate Prob(F)						0.3816	0.3816	0.3816
	Treatment F						2809.000	3136.000	6050.745
	Treatment Prob(F)						0.0001	0.0001	0.0001

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Comparison of Clomate and Command for Residual Grass Control

Trial ID:	C23-20				
Protocol ID:	C23-20	Location:	Crowley, RRS	Trial Year:	2023
Project ID:		Project ID 2:		Project ID 3:	
Study Director:		Sponsor Contact:			
Investigator:					

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	4*	5*	6*
Rating Date							Jun-9-2023	Jun-21-2023	Jul-6-2023
Rating Type							INJURY	INJURY	INJURY
Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							RICE	RICE	RICE
Trt-Eval Interval							18 DAEPOST	15 DAPFL	30 DAPFL
Number of Decimals							0	0	0
1	Nontreated						0 -	0 b	0 b
	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			
2	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 -	0 b	0 b
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
3	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 -	0 b	0 b
	Prowl 3.3 EC	0.95	lb ai/a	2.3	pt/a	DPRE			
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
4	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 -	0 b	0 b
	Basagran 4 SL	0.72	lb ai/a	1.44	pt/a	EPOST			
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
5	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 -	0 b	0 b
	Bolero 8 EC	3.84	lb ai/a	3.84	pt/a	DPRE			
	Rinde 1.62 L	30.77	fl oz/a	0.39	lb ai/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
6	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	99 -	98 a	95 a
	Provisia 0.88 EC	0.103	lb ai/a	14.97	fl oz/a	EPOST			
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Provisia 0.88 EC	15	fl oz/a	14.97	fl oz/a	PREFLOOD			
	Crop Oil Concentrate	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
7	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 -	0 b	0 b
	Rinde 1.62 L	0.34	lb ai/a	26.9	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
8	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 -	0 b	0 b
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
9	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 -	0 b	0 b
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
10	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 -	0 b	0 b
	Newpath 2 L	0.0905	lb ai/a	5.79	fl oz/a	DPRE			
	Agri-Dex	1.42	% v/v	27.3	fl oz/a	DPRE			
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	4*	5*	6*
	Rating Date						Jun-9-2023	Jun-21-2023	Jul-6-2023
	Rating Type						INJURY	INJURY	INJURY
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						RICE	RICE	RICE
	Trt-Eval Interval						18 DAEPOST	15 DAPFL	30 DAPFL
	Number of Decimals						0	0	0
11	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 -	0 b	0 b
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Permit Plus 75 WG	0.045	lb ai/a	0.96	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
12	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 -	0 b	0 b
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Gambit 79 WDG	0.071	lb ai/a	1.44	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
13	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 -	0 b	0 b
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Ricestar HT 0.58 L	0.105	lb ai/a	23.1	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
14	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 -	0 b	0 b
	Rinde 1.62 L	0.44	lb ai/a	34.6	fl oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
	LSD P=.05						.	1.00	2.70
	Standard Deviation						0.00	0.60	1.60
	CV						0	8.85	23.96
	Levene's F^						.	0.791	1.052
	Levene's Prob(F)						.	0.663	0.435
	Shapiro-Wilk^						.	0.5154*	0.5315*
	P(Shapiro-Wilk)^						.	0.0*	0.0*
	Skewness^						.	-2.4415*	-2.3674*
	P(Skewness)^						.	0.0*	0.0*
	Kurtosis^						.	17.24*	17.24*
	P(Kurtosis)^						.	0.0*	0.0*
	Replicate F						0.000	1.000	1.000
	Replicate Prob(F)						1.0000	0.3816	0.3816
	Treatment F						0.000	5365.563	731.757
	Treatment Prob(F)						1.0000	0.0001	0.0001

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Comparison of Clomate and Command for Residual Grass Control

Trial ID:	C23-20				
Protocol ID:	C23-20	Location:	Crowley, RRS	Trial Year:	2023
Project ID:		Project ID 2:		Project ID 3:	
Study Director:		Sponsor Contact:			
Investigator:					

Rating Date	Jun-9-2023	Jun-21-2023	Jul-6-2023
Rating Type	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100
Pest Type	W, Weed	W, Weed	W, Weed
Pest Code	ECHCG	ECHCG	ECHCG
Trt-Eval Interval	18 DAEPOST	15 DAPFL	30 DAPFL
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	7*	8*	9*
1	Nontreated						20 f	0 h	0 e
	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			
2	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	63 c	72 cde	87 ab
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
3	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	45 e	65 de	70 bcd
	Prowl 3.3 EC	0.95	lb ai/a	2.3	pt/a	DPRE			
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
4	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	72 b	82 abc	96 a
	Basagran 4 SL	0.72	lb ai/a	1.44	pt/a	EPOST			
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
5	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	57 d	79 bcd	88 a
	Bolero 8 EC	3.84	lb ai/a	3.84	pt/a	DPRE			
	Rinde 1.62 L	30.77	fl oz/a	0.39	lb ai/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
6	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	83 a	95 a	99 a
	Provisia 0.88 EC	0.103	lb ai/a	14.97	fl oz/a	EPOST			
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Provisia 0.88 EC	15	fl oz/a	14.97	fl oz/a	PREFLOOD			
	Crop Oil Concentrate	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
7	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	20 f	47 f	55 d
	Rinde 1.62 L	0.34	lb ai/a	26.9	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
8	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	20 f	48 f	58 cd
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
9	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	23 f	63 e	73 bc
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
10	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	72 b	87 ab	95 a
	Newpath 2 L	0.0905	lb ai/a	5.79	fl oz/a	DPRE			
	Agri-Dex	1.42	% v/v	27.3	fl oz/a	DPRE			
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	7*	8*	9*
	Rating Date						Jun-9-2023	Jun-21-2023	Jul-6-2023
	Rating Type						CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						ECHCG	ECHCG	ECHCG
	Trt-Eval Interval						18 DAEPOST	15 DAPFL	30 DAPFL
	Number of Decimals						0	0	0
11	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	20 f	67 de	73 bc
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Permit Plus 75 WG	0.045	lb ai/a	0.96	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
12	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	30 f	58 ef	72 bcd
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Gambit 79 WDG	0.071	lb ai/a	1.44	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
13	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	20 f	60 ef	70 bcd
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Ricestar HT 0.58 L	0.105	lb ai/a	23.1	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
14	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	27 f	30 g	63 cd
	Rinde 1.62 L	0.44	lb ai/a	34.6	fl oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
	LSD P=.05						6.60	11.20	11.20
	Standard Deviation						3.90	6.70	6.70
	CV						9.58	10.98	9.33
	Levene's F^						0.578	0.418	0.445
	Levene's Prob(F)						0.85	0.95	0.937
	Shapiro-Wilk^						0.9734	0.9803	0.9756
	P(Shapiro-Wilk)^						0.4263	0.6718	0.4976
	Skewness^						0.049	0.3818	-0.0146
	P(Skewness)^						0.8975	0.3187	0.9694
	Kurtosis^						-0.1613	0.5207	-0.1921
	P(Kurtosis)^						0.829	0.4868	0.797
	Replicate F						0.623	0.937	1.904
	Replicate Prob(F)						0.5443	0.4047	0.1691
	Treatment F						109.799	40.273	41.907
	Treatment Prob(F)						0.0001	0.0001	0.0001

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date									Jun-9-2023	Jun-21-2023	Jul-6-2023
Rating Type									CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max									%, 0, 100	%, 0, 100	%, 0, 100
Pest Type									W, Weed	W, Weed	W, Weed
Pest Code									BRAPP	BRAPP	BRAPP
Trt-Eval Interval									18 DAEPOST	15 DAPFL	30 DAPFL
Number of Decimals									0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing			10*	11*	12*
1	Nontreated								18 d	0 j	0 e
	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE					
2	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			73 ab	63 efg	43 d
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST					
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD					
3	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			48 c	72 de	78 bc
	Prowl 3.3 EC	0.95	lb ai/a	2.3	pt/a	DPRE					
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
4	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			80 a	80 c	78 bc
	Basagran 4 SL	0.72	lb ai/a	1.44	pt/a	EPOST					
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST					
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD					
5	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			65 b	73 cd	82 b
	Bolero 8 EC	3.84	lb ai/a	3.84	pt/a	DPRE					
	Rinde 1.62 L	30.77	fl oz/a	0.39	lb ai/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
6	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			80 a	99 a	99 a
	Provisia 0.88 EC	0.103	lb ai/a	14.97	fl oz/a	EPOST					
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST					
	Provisia 0.88 EC	15	fl oz/a	14.97	fl oz/a	PREFLOOD					
	Crop Oil Concentrate	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
7	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			17 d	57 g	60 c
	Rinde 1.62 L	0.34	lb ai/a	26.9	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
8	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			13 d	62 fg	67 bc
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
9	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			17 d	33 h	40 d
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
10	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			63 b	92 b	97 a
	Newpath 2 L	0.0905	lb ai/a	5.79	fl oz/a	DPRE					
	Agri-Dex	1.42	% v/v	27.3	fl oz/a	DPRE					
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					

LSU AgCenter SPESS

Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	10*	11*	12*
	Rating Date						Jun-9-2023	Jun-21-2023	Jul-6-2023
	Rating Type						CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						BRAPP	BRAPP	BRAPP
	Trt-Eval Interval						18 DAEPOST	15 DAPFL	30 DAPFL
	Number of Decimals						0	0	0
11	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	13 d	63 efg	70 bc
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Permit Plus 75 WG	0.045	lb ai/a	0.96	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
12	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	17 d	60 g	73 bc
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Gambit 79 WDG	0.071	lb ai/a	1.44	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
13	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	17 d	70 def	78 bc
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Ricestar HT 0.58 L	0.105	lb ai/a	23.1	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
14	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	17 d	23 i	67 bc
	Rinde 1.62 L	0.44	lb ai/a	34.6	fl oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
	LSD P=.05						9.10	6.90	12.60
	Standard Deviation						5.40	4.10	7.50
	CV						14.1	6.79	11.29
	Levene's F^						0.583	0.707	1.242
	Levene's Prob(F)						0.847	0.741	0.303
	Shapiro-Wilk^						0.9215*	0.9453*	0.9459*
	P(Shapiro-Wilk)^						0.0068*	0.0439*	0.0462*
	Skewness^						-1.1294*	-0.6417	-0.0859
	P(Skewness)^						0.0048*	0.0974	0.8216
	Kurtosis^						3.8404*	1.9558*	1.6973*
	P(Kurtosis)^						0.0*	0.0118*	0.0274*
	Replicate F						5.427	3.335	1.485
	Replicate Prob(F)						0.0107	0.0514	0.2451
	Treatment F						79.528	123.220	34.251
	Treatment Prob(F)						0.0001	0.0001	0.0001

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date									Jun-9-2023	Jun-21-2023	Jul-6-2023
Rating Type									CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max									%, 0, 100	%, 0, 100	%, 0, 100
Pest Type									W, Weed	W, Weed	W, Weed
Pest Code									SEBEX	SEBEX	SEBEX
Trt-Eval Interval									18 DAEPOST	15 DAPFL	30 DAPFL
Number of Decimals									0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing			13*	14*	15*
1	Nontreated								0 d	0 c	0 b
	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE					
2	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			99 a	99 a	99 a
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST					
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD					
3	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			33 b	99 a	99 a
	Prowl 3.3 EC	0.95	lb ai/a	2.3	pt/a	DPRE					
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
4	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			99 a	98 a	99 a
	Basagran 4 SL	0.72	lb ai/a	1.44	pt/a	EPOST					
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST					
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD					
5	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			20 c	98 a	99 a
	Bolero 8 EC	3.84	lb ai/a	3.84	pt/a	DPRE					
	Rinde 1.62 L	30.77	fl oz/a	0.39	lb ai/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
6	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			98 a	98 a	99 a
	Provisia 0.88 EC	0.103	lb ai/a	14.97	fl oz/a	EPOST					
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST					
	Provisia 0.88 EC	15	fl oz/a	14.97	fl oz/a	PREFLOOD					
	Crop Oil Concentrate	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
7	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			0 d	97 a	99 a
	Rinde 1.62 L	0.34	lb ai/a	26.9	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
8	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			0 d	98 a	99 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
9	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			0 d	98 a	99 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
10	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			20 c	97 a	99 a
	Newpath 2 L	0.0905	lb ai/a	5.79	fl oz/a	DPRE					
	Agri-Dex	1.42	% v/v	27.3	fl oz/a	DPRE					
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	13*	14*	15*
	Rating Date						Jun-9-2023	Jun-21-2023	Jul-6-2023
	Rating Type						CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						SEBEX	SEBEX	SEBEX
	Trt-Eval Interval						18 DAEPOST	15 DAPFL	30 DAPFL
	Number of Decimals						0	0	0
11	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 d	98 a	98 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Permit Plus 75 WG	0.045	lb ai/a	0.96	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
12	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 d	97 a	99 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Gambit 79 WDG	0.071	lb ai/a	1.44	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
13	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 d	99 a	99 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Ricestar HT 0.58 L	0.105	lb ai/a	23.1	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
14	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 d	85 b	97 a
	Rinde 1.62 L	0.44	lb ai/a	34.6	fl oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
	LSD P=.05						2.60	4.70	1.10
	Standard Deviation						1.60	2.80	0.70
	CV						5.9	3.11	0.73
	Levene's F^						0.819	0.743	0.757
	Levene's Prob(F)						0.637	0.708	0.695
	Shapiro-Wilk^						0.5581*	0.796*	0.8678*
	P(Shapiro-Wilk)^						0.0*	0.0*	0.0002*
	Skewness^						2.4106*	1.4983*	-1.2373*
	P(Skewness)^						0.0*	0.0003*	0.0022*
	Kurtosis^						16.8508*	9.1412*	6.057*
	P(Kurtosis)^						0.0*	0.0*	0.0*
	Replicate F						0.894	0.254	2.600
	Replicate Prob(F)						0.4211	0.7775	0.0935
	Treatment F						2040.152	260.835	4647.792
	Treatment Prob(F)						0.0001	0.0001	0.0001

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date									Jun-9-2023	Jun-21-2023	Jul-6-2023
Rating Type									CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max									%, 0, 100	%, 0, 100	%, 0, 100
Pest Type									W, Weed	W, Weed	W, Weed
Pest Code									COMDI	COMDI	COMDI
Trt-Eval Interval									18 DAEPOST	15 DAPFL	30 DAPFL
Number of Decimals									0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing			16*	17*	18*
1	Nontreated								0 d	0 d	0 c
	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE					
2	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			70 b	90 a	97 a
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST					
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD					
3	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			47 c	89 a	95 a
	Prowl 3.3 EC	0.95	lb ai/a	2.3	pt/a	DPRE					
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
4	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			73 b	86 a	97 a
	Basagran 4 SL	0.72	lb ai/a	1.44	pt/a	EPOST					
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST					
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD					
5	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			82 a	95 a	97 a
	Bolero 8 EC	3.84	lb ai/a	3.84	pt/a	DPRE					
	Rinde 1.62 L	30.77	fl oz/a	0.39	lb ai/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
6	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			43 c	57 c	96 a
	Provisia 0.88 EC	0.103	lb ai/a	14.97	fl oz/a	EPOST					
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST					
	Provisia 0.88 EC	15	fl oz/a	14.97	fl oz/a	PREFLOOD					
	Crop Oil Concentrate	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
7	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			0 d	88 a	95 a
	Rinde 1.62 L	0.34	lb ai/a	26.9	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
8	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			0 d	88 a	94 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
9	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			0 d	90 a	95 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
10	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			73 b	91 a	97 a
	Newpath 2 L	0.0905	lb ai/a	5.79	fl oz/a	DPRE					
	Agri-Dex	1.42	% v/v	27.3	fl oz/a	DPRE					
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	16*	17*	18*
	Rating Date						Jun-9-2023	Jun-21-2023	Jul-6-2023
	Rating Type						CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						COMDI	COMDI	COMDI
	Trt-Eval Interval						18 DAEPOST	15 DAPFL	30 DAPFL
	Number of Decimals						0	0	0
11	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 d	96 a	96 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Permit Plus 75 WG	0.045	lb ai/a	0.96	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
12	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 d	94 a	99 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Gambit 79 WDG	0.071	lb ai/a	1.44	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
13	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 d	89 a	90 b
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Ricestar HT 0.58 L	0.105	lb ai/a	23.1	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
14	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 d	70 b	88 b
	Rinde 1.62 L	0.44	lb ai/a	34.6	fl oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
	LSD P=.05						6.80	7.60	3.70
	Standard Deviation						4.10	4.50	2.20
	CV						14.64	5.63	2.47
	Levene's F^						1.082	1.214	0.577
	Levene's Prob(F)						0.412	0.32	0.852
	Shapiro-Wilk^						0.8706*	0.9364*	0.9623
	P(Shapiro-Wilk)^						0.0002*	0.0215*	0.1783
	Skewness^						-0.4163	-0.477	-0.5966
	P(Skewness)^						0.2776	0.2144	0.1225
	Kurtosis^						1.522*	1.3217	0.8534
	P(Kurtosis)^						0.0467*	0.0823	0.2567
	Replicate F						0.144	0.113	1.501
	Replicate Prob(F)						0.8662	0.8936	0.2416
	Treatment F						218.525	94.843	413.603
	Treatment Prob(F)						0.0001	0.0001	0.0001

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	19*	20*	21*
	Rating Date						Jun-9-2023	Jun-21-2023	Jul-6-2023
	Rating Type						CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						CYPIR	CYPIR	CYPIR
	Trt-Eval Interval						18 DAEPOST	15 DAPFL	30 DAPFL
	Number of Decimals						0	0	0
1	Nontreated						0 e	0 f	0 f
	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			
2	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	90 a	88 a	82 bcd
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
3	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 e	63 d	68 de
	Prowl 3.3 EC	0.95	lb ai/a	2.3	pt/a	DPRE			
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
4	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	85 b	80 b	88 abc
	Basagran 4 SL	0.72	lb ai/a	1.44	pt/a	EPOST			
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
5	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	82 b	80 b	80 bcd
	Bolero 8 EC	3.84	lb ai/a	3.84	pt/a	DPRE			
	Rinde 1.62 L	30.77	fl oz/a	0.39	lb ai/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
6	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	60 d	57 e	63 e
	Provisia 0.88 EC	0.103	lb ai/a	14.97	fl oz/a	EPOST			
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Provisia 0.88 EC	15	fl oz/a	14.97	fl oz/a	PREFLOOD			
	Crop Oil Concentrate	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
7	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 e	77 bc	82 bcd
	Rinde 1.62 L	0.34	lb ai/a	26.9	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
8	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 e	75 bc	77 cde
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
9	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 e	70 c	75 cde
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
10	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	73 c	89 a	93 ab
	Newpath 2 L	0.0905	lb ai/a	5.79	fl oz/a	DPRE			
	Agri-Dex	1.42	% v/v	27.3	fl oz/a	DPRE			
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			

LSU AgCenter SPESS

Comparison of Clomate and Command for Residual Grass Control

Trial ID:	C23-20				
Protocol ID:	C23-20	Location:	Crowley, RRS	Trial Year:	2023
Project ID:		Project ID 2:		Project ID 3:	
Study Director:		Sponsor Contact:			
Investigator:					

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	19*	20*	21*
	Rating Date						Jun-9-2023	Jun-21-2023	Jul-6-2023
	Rating Type						CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						CYPIR	CYPIR	CYPIR
	Trt-Eval Interval						18 DAEPOST	15 DAPFL	30 DAPFL
	Number of Decimals						0	0	0
11	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 e	95 a	99 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Permit Plus 75 WG	0.045	lb ai/a	0.96	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
12	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 e	96 a	99 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Gambit 79 WDG	0.071	lb ai/a	1.44	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
13	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 e	78 bc	82 bcd
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Ricestar HT 0.58 L	0.105	lb ai/a	23.1	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
14	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 e	53 e	67 de
	Rinde 1.62 L	0.44	lb ai/a	34.6	fl oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
	LSD P=.05						3.60	6.30	9.90
	Standard Deviation						2.20	3.70	5.90
	CV						7.8	5.23	7.81
	Levene's F^						0.947	0.416	0.572
	Levene's Prob(F)						0.521	0.951	0.855
	Shapiro-Wilk^						0.7703*	0.98	0.9505
	P(Shapiro-Wilk)^						0.0*	0.6614	0.067
	Skewness^						0.8337*	0.1429	-0.2654
	P(Skewness)^						0.0332*	0.7075	0.4868
	Kurtosis^						4.4641*	0.545	1.834*
	P(Kurtosis)^						0.0*	0.4668	0.0177*
	Replicate F						1.136	3.223	2.256
	Replicate Prob(F)						0.3366	0.0562	0.1249
	Treatment F						983.922	126.696	51.409
	Treatment Prob(F)						0.0001	0.0001	0.0001

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date									Jun-9-2023	Jun-21-2023	Jul-6-2023
Rating Type									CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max									%, 0, 100	%, 0, 100	%, 0, 100
Pest Type									W, Weed	W, Weed	W, Weed
Pest Code									CYPES	CYPES	CYPES
Trt-Eval Interval									18 DAEPOST	15 DAPFL	30 DAPFL
Number of Decimals									0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing			22*	23*	24*
1	Nontreated								0 c	0 f	0 f
	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE					
2	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			57 a	60 b	63 bc
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST					
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD					
3	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			0 c	43 c	43 d
	Prowl 3.3 EC	0.95	lb ai/a	2.3	pt/a	DPRE					
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
4	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			50 a	60 b	58 c
	Basagran 4 SL	0.72	lb ai/a	1.44	pt/a	EPOST					
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST					
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD					
5	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			13 b	32 d	40 d
	Bolero 8 EC	3.84	lb ai/a	3.84	pt/a	DPRE					
	Rinde 1.62 L	30.77	fl oz/a	0.39	lb ai/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
6	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			10 bc	10 ef	0 f
	Provisia 0.88 EC	0.103	lb ai/a	14.97	fl oz/a	EPOST					
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST					
	Provisia 0.88 EC	15	fl oz/a	14.97	fl oz/a	PREFLOOD					
	Crop Oil Concentrate	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
7	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			0 c	20 de	23 e
	Rinde 1.62 L	0.34	lb ai/a	26.9	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
8	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			0 c	20 de	23 e
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
9	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			0 c	15 e	17 e
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					
10	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			53 a	67 b	73 b
	Newpath 2 L	0.0905	lb ai/a	5.79	fl oz/a	DPRE					
	Agri-Dex	1.42	% v/v	27.3	fl oz/a	DPRE					
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD					
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD					
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD					

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	22*	23*	24*
	Rating Date						Jun-9-2023	Jun-21-2023	Jul-6-2023
	Rating Type						CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						CYPES	CYPES	CYPES
	Trt-Eval Interval						18 DAEPOST	15 DAPFL	30 DAPFL
	Number of Decimals						0	0	0
11	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 c	95 a	99 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Permit Plus 75 WG	0.045	lb ai/a	0.96	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
12	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 c	95 a	99 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Gambit 79 WDG	0.071	lb ai/a	1.44	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
13	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 c	22 de	23 e
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Ricestar HT 0.58 L	0.105	lb ai/a	23.1	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
14	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 c	13 e	27 e
	Rinde 1.62 L	0.44	lb ai/a	34.6	fl oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
	LSD P=.05						7.40	10.90	10.20
	Standard Deviation						4.40	6.50	6.10
	CV						33.45	16.55	14.45
	Levene's F^						0.862	0.8	0.491
	Levene's Prob(F)						0.598	0.655	0.911
	Shapiro-Wilk^						0.7774*	0.9399*	0.9661
	P(Shapiro-Wilk)^						0.0*	0.0284*	0.2427
	Skewness^						-0.9976*	-0.8119*	-0.1339
	P(Skewness)^						0.0118*	0.0378*	0.7252
	Kurtosis^						4.5032*	2.408*	-0.0546
	P(Kurtosis)^						0.0*	0.0023*	0.9417
	Replicate F						0.031	0.723	0.498
	Replicate Prob(F)						0.9695	0.4947	0.6133
	Treatment F						77.375	68.454	85.085
	Treatment Prob(F)						0.0001	0.0001	0.0001

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	25*	26*	27*
	Rating Date						Aug-15-2023	Aug-15-2023	Aug-15-2023
	Rating Type						HEIGHTS	HEIGHTS	HEIGHTS
	Rating Unit/Min/Max						CM, -, -	CM, -, -	CM, -, -
	Pest Type								
	Pest Code						RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	0	0
1	Nontreated						93 -	92 -	101 -
	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			
2	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	101 -	102 -	102 -
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
3	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	100 -	99 -	100 -
	Prowl 3.3 EC	0.95	lb ai/a	2.3	pt/a	DPRE			
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
4	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	102 -	104 -	98 -
	Basagran 4 SL	0.72	lb ai/a	1.44	pt/a	EPOST			
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
5	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	105 -	110 -	109 -
	Bolero 8 EC	3.84	lb ai/a	3.84	pt/a	DPRE			
	Rinde 1.62 L	30.77	fl oz/a	0.39	lb ai/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
6	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	105 -	107 -	105 -
	Provisia 0.88 EC	0.103	lb ai/a	14.97	fl oz/a	EPOST			
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Provisia 0.88 EC	15	fl oz/a	14.97	fl oz/a	PREFLOOD			
	Crop Oil Concentrate	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
7	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	100 -	101 -	99 -
	Rinde 1.62 L	0.34	lb ai/a	26.9	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
8	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	98 -	99 -	95 -
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
9	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	97 -	96 -	92 -
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
10	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	98 -	96 -	97 -
	Newpath 2 L	0.0905	lb ai/a	5.79	fl oz/a	DPRE			
	Agri-Dex	1.42	% v/v	27.3	fl oz/a	DPRE			
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	25*	26*	27*
	Rating Date						Aug-15-2023	Aug-15-2023	Aug-15-2023
	Rating Type						HEIGHTS	HEIGHTS	HEIGHTS
	Rating Unit/Min/Max						CM, -, -	CM, -, -	CM, -, -
	Pest Type								
	Pest Code						RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	0	0
11	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	103 -	103 -	103 -
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Permit Plus 75 WG	0.045	lb ai/a	0.96	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
12	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	104 -	100 -	101 -
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Gambit 79 WDG	0.071	lb ai/a	1.44	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
13	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	104 -	107 -	105 -
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Ricestar HT 0.58 L	0.105	lb ai/a	23.1	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
14	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	94 -	98 -	101 -
	Rinde 1.62 L	0.44	lb ai/a	34.6	fl oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
	LSD P=.05						11.40	11.10	11.00
	Standard Deviation						6.80	6.60	6.50
	CV						6.8	6.53	6.5
	Levene's F^						0.773	0.436	0.53
	Levene's Prob(F)						0.68	0.941	0.886
	Shapiro-Wilk^						0.9801	0.9907	0.9752
	P(Shapiro-Wilk)^						0.667	0.9791	0.4848
	Skewness^						-0.3111	0.0273	-0.2562
	P(Skewness)^						0.4156	0.9428	0.5021
	Kurtosis^						0.5047	-0.0468	-0.3133
	P(Kurtosis)^						0.5002	0.95	0.675
	Replicate F						0.365	0.397	0.948
	Replicate Prob(F)						0.6975	0.6765	0.4004
	Treatment F						1.020	1.740	1.342
	Treatment Prob(F)						0.4623	0.1113	0.2523

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	28*	29*	30*
	Rating Date						Aug-15-2023	Aug-15-2023	Aug-22-2023
	Rating Type						HEIGHTS	AVG HEIGHTS	YIELD
	Rating Unit/Min/Max						CM, -, -	CM, -, -	lbs/plot, -, -
	Pest Type								W, Weed
	Pest Code						RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	0	2
1	Nontreated						95 -	95 -	0 c
	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			
2	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	103 -	102 -	17.08 ab
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
3	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	101 -	100 -	15.99 ab
	Prowl 3.3 EC	0.95	lb ai/a	2.3	pt/a	DPRE			
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
4	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	101 -	101 -	17.43 ab
	Basagran 4 SL	0.72	lb ai/a	1.44	pt/a	EPOST			
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
5	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	104 -	107 -	17.73 ab
	Bolero 8 EC	3.84	lb ai/a	3.84	pt/a	DPRE			
	Rinde 1.62 L	30.77	fl oz/a	0.39	lb ai/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
6	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	104 -	105 -	0 c
	Provisia 0.88 EC	0.103	lb ai/a	14.97	fl oz/a	EPOST			
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Provisia 0.88 EC	15	fl oz/a	14.97	fl oz/a	PREFLOOD			
	Crop Oil Concentrate	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
7	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	100 -	100 -	10.28 b
	Rinde 1.62 L	0.34	lb ai/a	26.9	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
8	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	93 -	96 -	11.04 b
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
9	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	95 -	95 -	10.88 b
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
10	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	97 -	97 -	20.43 a
	Newpath 2 L	0.0905	lb ai/a	5.79	fl oz/a	DPRE			
	Agri-Dex	1.42	% v/v	27.3	fl oz/a	DPRE			
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	28*	29*	30*
	Rating Date						Aug-15-2023	Aug-15-2023	Aug-22-2023
	Rating Type						HEIGHTS	AVG HEIGHTS	YIELD
	Rating Unit/Min/Max						CM, -, -	CM, -, -	lbs/plot, -, -
	Pest Type								W, Weed
	Pest Code						RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	0	2
11	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	102 -	103 -	13.23 ab
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Permit Plus 75 WG	0.045	lb ai/a	0.96	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
12	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	103 -	102 -	15.73 ab
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Gambit 79 WDG	0.071	lb ai/a	1.44	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
13	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	107 -	106 -	15.57 ab
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Ricestar HT 0.58 L	0.105	lb ai/a	23.1	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
14	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	102 -	99 -	13.72 ab
	Rinde 1.62 L	0.44	lb ai/a	34.6	fl oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
	LSD P=.05						10.10	9.20	4.34
	Standard Deviation						6.00	5.50	2.56
	CV						5.96	5.46	20.11
	Levene's F^						0.321	0.765	1.526
	Levene's Prob(F)						0.983	0.688	0.179
	Shapiro-Wilk^						0.963	0.9756	0.9815
	P(Shapiro-Wilk)^						0.1891	0.4989	0.7701
	Skewness^						-0.5604	-0.4112	-0.2082
	P(Skewness)^						0.1462	0.2834	0.6038
	Kurtosis^						0.0367	0.466	-0.0414
	P(Kurtosis)^						0.9607	0.5334	0.9579
	Replicate F						1.128	0.627	2.000
	Replicate Prob(F)						0.3391	0.5420	0.1593
	Treatment F						1.405	1.511	17.271
	Treatment Prob(F)						0.2225	0.1793	0.0001

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	31*	32*	33*
	Rating Date						Aug-22-2023	Aug-22-2023	Aug-22-2023
	Rating Type						MOICON	YIELD	YIELD
	Rating Unit/Min/Max						%, 0, 100	LB/A, -, -	BU/A, -, -
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						1	0	0
1	Nontreated						0 b	0 c	0 c
	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			
2	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	18.4 a	2363 ab	53 ab
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
3	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	19.4 a	2183 ab	49 ab
	Prowl 3.3 EC	0.95	lb ai/a	2.3	pt/a	DPRE			
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
4	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	19.2 a	2386 ab	53 ab
	Basagran 4 SL	0.72	lb ai/a	1.44	pt/a	EPOST			
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
5	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	20.3 a	2395 ab	53 ab
	Bolero 8 EC	3.84	lb ai/a	3.84	pt/a	DPRE			
	Rinde 1.62 L	30.77	fl oz/a	0.39	lb ai/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
6	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 b	0 c	0 c
	Provisia 0.88 EC	0.103	lb ai/a	14.97	fl oz/a	EPOST			
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Provisia 0.88 EC	15	fl oz/a	14.97	fl oz/a	PREFLOOD			
	Crop Oil Concentrate	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
7	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	19.4 a	1408 b	31 b
	Rinde 1.62 L	0.34	lb ai/a	26.9	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
8	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	19.9 a	1502 b	33 b
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
9	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	19.6 a	1479 b	33 b
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
10	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	19.5 a	2788 a	62 a
	Newpath 2 L	0.0905	lb ai/a	5.79	fl oz/a	DPRE			
	Agri-Dex	1.42	% v/v	27.3	fl oz/a	DPRE			
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	31*	32*	33*
	Rating Date						Aug-22-2023	Aug-22-2023	Aug-22-2023
	Rating Type						MOICON	YIELD	YIELD
	Rating Unit/Min/Max						%, 0, 100	LB/A, -, -	BU/A, -, -
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						1	0	0
11	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	18.1 a	1839 ab	41 ab
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Permit Plus 75 WG	0.045	lb ai/a	0.96	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
12	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	19.6 a	2143 ab	48 ab
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Gambit 79 WDG	0.071	lb ai/a	1.44	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
13	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	16.5 a	2219 ab	49 ab
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Ricestar HT 0.58 L	0.105	lb ai/a	23.1	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
14	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	18.2 a	1906 ab	42 ab
	Rinde 1.62 L	0.44	lb ai/a	34.6	fl oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
	LSD P=.05						2.19	617.10	13.70
	Standard Deviation						1.30	364.40	8.10
	CV						8.07	20.86	20.86
	Levene's F^						0.733	1.578	1.578
	Levene's Prob(F)						0.716	0.161	0.161
	Shapiro-Wilk^						0.8346*	0.9781	0.9781
	P(Shapiro-Wilk)^						0.0*	0.6497	0.6497
	Skewness^						-1.5184*	-0.1385	-0.1385
	P(Skewness)^						0.0005*	0.7296	0.7296
	Kurtosis^						7.8702*	-0.0026	-0.0026
	P(Kurtosis)^						0.0*	0.9974	0.9974
	Replicate F						1.213	2.198	2.198
	Replicate Prob(F)						0.3164	0.1348	0.1348
	Treatment F						85.694	16.066	16.066
	Treatment Prob(F)						0.0001	0.0001	0.0001

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	34*	35*	36*
	Rating Date						Aug-22-2023	Aug-22-2023	Aug-22-2023
	Rating Type						YIELD	YIELD	MOICON
	Rating Unit/Min/Max						KG/HA, -, -	lbs/plot, -, -	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	2	1
1	Nontreated						0 c	0 d	-0.5 c
	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE			
2	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	2648 ab	18.66 bc	19.2 ab
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
3	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	2447 ab	21.35 abc	17.9 ab
	Prowl 3.3 EC	0.95	lb ai/a	2.3	pt/a	DPRE			
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
4	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	2675 ab	22.23 ab	17.4 ab
	Basagran 4 SL	0.72	lb ai/a	1.44	pt/a	EPOST			
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
5	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	2685 ab	24.16 a	22.4 a
	Bolero 8 EC	3.84	lb ai/a	3.84	pt/a	DPRE			
	Rinde 1.62 L	30.77	fl oz/a	0.39	lb ai/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
6	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	0 c	20.27 abc	18.5 ab
	Provisia 0.88 EC	0.103	lb ai/a	14.97	fl oz/a	EPOST			
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST			
	Provisia 0.88 EC	15	fl oz/a	14.97	fl oz/a	PREFLOOD			
	Crop Oil Concentrate	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
7	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	1579 b	17.51 bc	20.1 ab
	Rinde 1.62 L	0.34	lb ai/a	26.9	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
8	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	1683 b	18.39 bc	20.3 ab
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
9	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	1658 b		
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
10	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	3125 a	0 d	0 c
	Newpath 2 L	0.0905	lb ai/a	5.79	fl oz/a	DPRE			
	Agri-Dex	1.42	% v/v	27.3	fl oz/a	DPRE			
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	34*	35*	36*
	Rating Date						Aug-22-2023	Aug-22-2023	Aug-22-2023
	Rating Type						YIELD	YIELD	MOICON
	Rating Unit/Min/Max						KG/HA, -, -	lbs/plot, -, -	%, 0, 100
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	2	1
11	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	2062 ab	21.24 abc	16.7 ab
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Permit Plus 75 WG	0.045	lb ai/a	0.96	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
12	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	2402 ab	22.32 ab	18.3 ab
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Gambit 79 WDG	0.071	lb ai/a	1.44	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
13	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	2487 ab	22.99 ab	20.5 ab
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Ricestar HT 0.58 L	0.105	lb ai/a	23.1	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
14	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	2136 ab	16.62 c	15 b
	Rinde 1.62 L	0.44	lb ai/a	34.6	fl oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
	LSD P=.05						691.70	3.42	3.31
	Standard Deviation						408.50	2.03	1.96
	CV						20.86	11.68	12.04
	Levene's F^						1.578	0.414	0.308
	Levene's Prob(F)						0.161	0.944	0.981
	Shapiro-Wilk^						0.9781	0.9771	0.9817
	P(Shapiro-Wilk)^						0.6497	0.6001	0.7767
	Skewness^						-0.1385	0.1288	0.0925
	P(Skewness)^						0.7296	0.7447	0.8173
	Kurtosis^						-0.0026	-0.2115	0.1833
	P(Kurtosis)^						0.9974	0.7849	0.8153
	Replicate F						2.198	6.293	2.134
	Replicate Prob(F)						0.1348	0.0064	0.1412
	Treatment F						16.066	46.922	35.774
	Treatment Prob(F)						0.0001	0.0001	0.0001

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Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Rating Date								Aug-22-2023	Aug-22-2023	Aug-22-2023
Rating Type								YIELD	YIELD	YIELD
Rating Unit/Min/Max								LB/A, -, -	BU/A, -, -	KG/HA, -, -
Pest Type								W, Weed	W, Weed	W, Weed
Pest Code								RICE	RICE	RICE
Trt-Eval Interval								AT HARVEST	AT HARVEST	AT HARVEST
Number of Decimals								0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing		37*	38*	39*
1	Nontreated							0 b	0 b	0 b
	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE				
2	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE		2555 a	57 a	2863 a
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST				
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST				
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD				
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD				
3	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE		2968 a	66 a	3327 a
	Prowl 3.3 EC	0.95	lb ai/a	2.3	pt/a	DPRE				
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD				
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD				
4	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE		3103 a	69 a	3479 a
	Basagran 4 SL	0.72	lb ai/a	1.44	pt/a	EPOST				
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST				
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST				
	Arroz 80 WP	0.029	lb ai/a	0.58	oz/a	POSTFLOOD				
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD				
5	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE		3179 a	71 a	3563 a
	Bolero 8 EC	3.84	lb ai/a	3.84	pt/a	DPRE				
	Rinde 1.62 L	30.77	fl oz/a	0.39	lb ai/a	PREFLOOD				
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD				
6	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE		2798 a	62 a	3136 a
	Provisia 0.88 EC	0.103	lb ai/a	14.97	fl oz/a	EPOST				
	Rinde 1.62 L	0.267	lb ai/a	21.13	fl oz/a	EPOST				
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	EPOST				
	Provisia 0.88 EC	15	fl oz/a	14.97	fl oz/a	PREFLOOD				
	Crop Oil Concentrate	1.42	% v/v	27.3	fl oz/a	PREFLOOD				
7	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE		2364 a	53 a	2650 a
	Rinde 1.62 L	0.34	lb ai/a	26.9	fl oz/a	PREFLOOD				
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD				
8	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE		2487 a	55 a	2787 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD				
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD				
9	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE				
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD				
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD				
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD				
10	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE		0 b	0 b	0 b
	Newpath 2 L	0.0905	lb ai/a	5.79	fl oz/a	DPRE				
	Agri-Dex	1.42	% v/v	27.3	fl oz/a	DPRE				
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD				
	Beyond 1 L	0.0452	lb ai/a	5.79	fl oz/a	PREFLOOD				
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD				

LSU AgCenter SPESS

Comparison of Clomate and Command for Residual Grass Control

Trial ID: C23-20
Protocol ID: C23-20 Location: Crowley, RRS Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	37*	38*	39*
	Rating Date						Aug-22-2023	Aug-22-2023	Aug-22-2023
	Rating Type						YIELD	YIELD	YIELD
	Rating Unit/Min/Max						LB/A, -, -	BU/A, -, -	KG/HA, -, -
	Pest Type						W, Weed	W, Weed	W, Weed
	Pest Code						RICE	RICE	RICE
	Trt-Eval Interval						AT HARVEST	AT HARVEST	AT HARVEST
	Number of Decimals						0	0	0
11	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	2997 a	67 a	3359 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Permit Plus 75 WG	0.045	lb ai/a	0.96	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
12	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	3088 a	69 a	3462 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Gambit 79 WDG	0.071	lb ai/a	1.44	oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
13	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	3099 a	69 a	3473 a
	Rinde 1.62 L	0.39	lb ai/a	30.77	fl oz/a	PREFLOOD			
	Ricestar HT 0.58 L	0.105	lb ai/a	23.1	fl oz/a	PREFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	PREFLOOD			
14	Command 3 ME	0.18	lb ai/a	7.7	fl oz/a	PRE	2406 a	53 a	2697 a
	Rinde 1.62 L	0.44	lb ai/a	34.6	fl oz/a	POSTFLOOD			
	Dyne-A-Pak	1.42	% v/v	27.3	fl oz/a	POSTFLOOD			
	LSD P=.05						487.70	10.80	546.60
	Standard Deviation						289.40	6.40	324.40
	CV						12.12	12.12	12.12
	Levene's F^						0.557	0.557	0.557
	Levene's Prob(F)						0.856	0.856	0.856
	Shapiro-Wilk^						0.9828	0.9828	0.9828
	P(Shapiro-Wilk)^						0.8014	0.8014	0.8014
	Skewness^						-0.0046	-0.0046	-0.0046
	P(Skewness)^						0.9908	0.9908	0.9908
	Kurtosis^						0.0388	0.0388	0.0388
	P(Kurtosis)^						0.96	0.96	0.96
	Replicate F						5.379	5.379	5.379
	Replicate Prob(F)						0.0117	0.0117	0.0117
	Treatment F						43.141	43.141	43.141
	Treatment Prob(F)						0.0001	0.0001	0.0001

APPENDIX I

ABBREVIATIONS USED IN RICE WEED CONTROL RESEARCH

A	Acre
AM	Greenleaf Technologies AirMix nozzle
AMFF	Greenleaf Technologies AirMix Flatfan nozzle
AVG	Average
CO_2BKPK	CO_2-pressurized backpack sprayer
cm or CM	Centimeters
COC	Crop oil concentrate
Cot	Cotyledon
DA	Days after
DPRE	Delayed preemergence application
DAE	Days after emergence
DAEPOST	Days after early postemergence application
DAFLOOD	Days after flood establishment
DALPOST	Days after late postemergence application
DAMPOST	Days after mid postemergence application
DAP	Days after planting
DAPI	Days after panicle initiation
DAPOT	Days after postemergence application
DAT	Days after treatment
DG	Drift Guard nozzle
DRWDWN	Seedling flood drain/drawdown
EMGERGENCE	Emergence application
EPOST	Early postemergence application
EPOST-FLOOD	Early postemergence after flood establishment
F, FLD	Flood
FAT	Factorial arrangement of treatments
FF	Flat fan nozzles
FL OZ/A	Fluid ounces product per acre
FT	Feet
G	Grams
GPA	Gallons per acre
HT	Height
In	Inches
LB	Pounds
LB/A	Pounds product per acre
LB A/A	Pounds active ingredient per acre
lf	Leaf
LPOST	Late postemergence application
LPOST-FLOOD	Late postemergence after flood establishment
MC	Mostly cloudy
MOICON	Moisture content
MPOST	Mid postemergence application
MSO	Methylated soybean oil
MPOST	Mid postemergence application

Continued.

ABBREVIATIONS USED IN RICE WEED CONTROL RESEARCH (Continued)

MSO	Methylated soybean oil
N/A	Not applicable
NIS	Non-ionic surfactant
OC	Overcast cloud cover
OZ/A	Ounces product per acre
OZ A/A	Ounces active ingredient per acre
PD	Panicle differentiation
PEG	Pegging application
PEGFLD	Pegging application after flood establishment
PEGGING	Pegging application
PI	Panicle initiation
PPI	Preplant incorporated application
PRE	Preemergence application
PREFL	Pre-flood application
PREPLANT	Surface application prior to planting
PRE-SEED	Application to pregerminated seed
PRE-SOIL	Surface application prior to water-seeding
POST	Postemergence application
POFL, POST-FLOOD	After permanent flood establishment
PC	Partly cloudy
PT/A	Pints product per acre
QT/A	Quarts product per acre
RCB	Randomized complete block experimental design
RRS	Rice Research Station, Crowley, LA
SEED	Herbicide applied to exposed pregerminated seed
SPOON	Expanded ducksalad leaf application
STAND	Rice stand count
TDM	Total dry matter
TILL	Tiller
WAE	Weeks after emergence
WAT	Weeks after treatment
WT	Weight
1-2lf	1-2 leaf rice growth stage
2-3lf	2-3 leaf rice growth stage
3-4lf	3-4 leaf rice growth stage
4-5lf	4-5 leaf rice growth stage
5lf-1till	5 leaf to 1 tiller rice growth stage
24 PREFL	24 hours pre-flood
24 POFL	24 hours post flood

COMMON RICE WEEDS OF LOUISIANA

Bayer Code	Common Name	Scientific Name
AESIN	Indian jointvetch	*Aeschynomene indica*
ALRPH	alligatorweed	*Alternanthera philoxeroides*
BRAPP	broadleaf signalgrass	*Urochloa platyphylla*
CNPPA	Texasweed	*Caperonia palustris*
COMDI	spreading dayflower	*Commelina diffusa*
CYPIR	rice flatsedge	*Cyperus iria*
CYPES	yellow nutsedge	*Cyperus esculentus*
ECHCG	barnyardgrass	*Echinocloa crus-galli*
ECLAL	eclipta	*Eclipta prostrata*
ECOCO	creeping burhead	*Echinodorus cordifolius*
HETLI	ducksalad	*Heteranthera limosa*
IUSRG	creeping water primrose	*Ludwigia peploides*
LEFPA	Amazon sprangletop	*Leptochloa panicoides*
MEOCO	redweed	*Melochia corchorifolia*
ORYSA	red rice	*Oryza sativa*
POFCO	pickerelweed	*Pontederia cordata*
POLPE	ladysthumb	*Polygonum aviculare*
ROTRA	toothcup	*Rotala ramosior*
SAGGR	Grassy arrowhead	*Sagittaria graminea*
SEBEX	hemp sesbania	*Sesbania herbacea*

APPENDIX II

LIST OF HERBICIDES

Trade Name	Formulation	Company	Common Name	Chemical Name
Aim	2 EC	FMC	carfentrazone	ethyl α,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoate
Basagran	5 L	BASF	bentazon	3-(1-methylethyl)-1H-2,1,3,-benzothiadiazin-4(3H)-one 2,2-dioxide
Beyond	1 SC	BASF	imazamox	2-[4,5-dihydro-4-methyl-4-(1-methylethyl-5-oxo-1*H*-imidazol-2-yl]-5-(methoxymethyl)-3-pyridinecarboxylic acid
Ultra Blazer	2 L	BASF	acifluorfen	Sodium 5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoate
Bolero	8 EC	Valent	thiobencarb	S-[(4-chlorophenyl)methyl] diethylcarbamothioate
Clincher	2.4 EC	Corteva AgriSciences	cyhalofop-butyl	2-[4-(4-cyano-2-fluorphenoxy)phenoxy] propanoic acid, butyl ester, (R)
Command	3 ME	FMC	clomazone	2-(2-Chlorophenyl)methyl-4,4-dimethyl-3-isoxazolidinone
Diverge Silk	4 SC	Adama	propanil	3’,4’-dichloropropionanilide
Duet		UPL	propanil (4 lb ai/gal) + bensulfuron (14 g)	3’,4’-dichloropropionanilide + methyl-2-[[[[[4,6-dimethoxypyrimidin-2-yl)amino]-carbonyl]amino] sulfonyl]methyl]benzoate
Facet	75 DF	BASF	quinclorac	3,7-dichloro-8-quinolinecarboxylic acid
Facet L	1.5 L	BASF	quinclorac	3,7-dichloro-8-quinolinecarboxylic acid
Gambit	79 DF	Gowan	halosulfuron + prosulfuron	methyl 5-{[(4,6-dimethoxy-2-pyrimidinyl) amino] carbonylamino-sulfonyl}-3-chloro-1-methyl-1-H-pyrazole-4-carboxylate + 1-(4-methoxy-6-triazin-2-yl)-3-[2-(3,3,3-triflupropropyl)-phenylsulfonyl]-urea
Grandstand	3 SL	Corteva AgriScience	triclopyr	3,5,6-trichloro-2-pyridinyloxyacetic acid
Grasp	2 SC	Corteva AgriScience	penoxsulam	(2-(2,2-difluoroethoxy)-6-trifluoromethyl-N-(5,8-dimethoxy[1,2,4]triazolo-[1,5c]pyrimidin-2-yl)benzenesulfonamide)
Highcard	0.88 EC	Adama	quizalofop-P-ethyl	Ethyl®-2-[4-(6-chloroquinoxalin-2-yl oxy)phenoxy]propionate
League	75 DF	Valent	imazosulfuron	2-chloro-N-[[(4,6-dimethoxy-2-pyrimidinyl)-amino] carbonyl]imidazo[1,2-a]pyridine-3-sulfonamide
Londax	60 DF	Corteva AgriScience	bensulfuron	methyl-2-[[[[[4,6-dimethoxypyrimidin-2-yl)amino]-carbonyl]amino]sulfonyl]methyl]

Continued.

LIST OF HERBICIDES (Continued)

Trade Name	Formulation	Company	Common Name	Chemical Name
Loyant	2.7 EC	Corteva Agriscience	florpyrauxifen-benzyl	4-amino-3-chloro-6-(4-chloro-2-fluoro-3-methoxy-phenyl)-5-fluoro, phenyl methyl ester
Newpath	2 SC	BASF	imazethapyr	2-[4,5-dihydro-4-methyl-4-(1-methylethyl-5-oxo-1*H*-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid
Permit	75 DF	Gowan	halosulfuron	methyl 5-{[(4,6-dimethoxy-2-pyrimidinyl) amino] carbonylamino-sulfonyl}-3-chloro-1-methyl-1-H-pyrazole-4-carboxylate
Permit Plus	75 DF	Gowan	halosulfuron + thifensulfuron	methyl 5-{[(4,6-dimethoxy-2-pyrimidinyl) amino] carbonylamino-sulfonyl}-3-chloro-1-methyl-1-H-pyrazole-4-carboxylate + Methyl 3-[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]-sulfonyl]-2-thiophenecarboxylate
Provisia	0.88 EC	BASF	quizalofop-P-ethyl	Ethyl®-2-[4-(6-chloroquinoxalin-2-yl oxy)phenoxy]propionate
Prowl	3.3 EC	BASF	pendimethalin	N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine
Prowl H_20	3.8 AS	BASF	pendimethalin	N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine
Regiment	80 WP	Valent	V-10029	Sodium 2,6-bis [4,6-dimethoxy pyrimidin-2-yl)oxy] benzoate
RiceBeaux	6 EC	UPL	propanil + thiobencarb	3',4'-dichloropropionanilide + S-[(4-chlorophenyl)methyl] diethylcarbamothioate
RiceOne	3.69 AS	UPL	pendimethalin + clomazone	N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine + 2-(2-Chlorophenyl)methyl-4,4-dimethyl-3-isoxazolidinone
Ricestar HT	0.58 EC	Gowan	fenoxaprop-p-ethyl	(±)-ethyl 2-[4-[(6-chloro-2-benzoxazolyl) oxy]phenoxy] propanoate
Rogue	3.4 SC	Gowan	benzobicyclon	-3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio) bicyclo-[3.2.1]oct-3-en-2-one
Roundup Weathermax	5.5 SL	Bayer	glyphosate	N-(phosphonomethyl)glycine
Stam M4/SC	4 EC/4 SC	UPL	propanil	3',4'-dichloropropionanilide
Strada	50	Nichino	orthosulfamuron	N/A
Strada XT	50	Nichino	orthosulfamuron + quinclorac	N/A + 3,7-dichloro-8-quinolinecarboxylic acid
Vopak	3 ME	Adama	clomazone	2-(2-Chlorophenyl)methyl-4,4-dimethyl-3-isoxazolidinone
Zurax	1.5 L	Adama	quinclorac	3,7-dichloro-8-quinolinecarboxylic acid

Spray Adjuvants

Trade Name	Formulation	Company	Common Name	Composition
Agri-dex	99%	Helena	crop oil concentrate	Paraffin base petroleum oil (84%), polyol fatty acid esters and polyethoxylated derivatives (15%)
Dyne-a-pak	76%	Helena	nonionic surfactant	Blend of alkanolamides, alkanoates, trisiloxane, and carbamides
Induce	90%	Helena	nonionic surfactant	Blend of alkyl aryl polyoxylkane ether and free fatty acids
Kinetic	97%	Helena	nonionic surfactant	Blend of polyalkyleneoxide modified polydimethylsiloxane and polyoxypropylene-polyoxyethylene block copolymers
MSO	100%	N/A	methylated soybean oil	Methylated soybean oil, alkylphenol ethoxylate

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 176,270 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.

2023 ACTIVITIES

Of the 1351.5 cwt. of foundation seed rice sold in 2023, the varieties and quantities were as follows: Mermentau, 1.5 cwt.; Addi Jo, 266.5 cwt.; Titan, 91.5 cwt.; Jazzman, 60 cwt.; Avant, 162.5 cwt.; Cheniere, 376.5 cwt.; Jupiter, 215.5 cwt.; and Della-2, 177.5 cwt.

The HRCRRS's foundation seed crop in 2023 consisted of 6 acres of Cheniere, 6 acres of Jupiter, 3.5 acres of LA2207, 1.5 acres of LA2166, and 1.8 acres of Titan.

Headrows of Cheniere, Jupiter, Titan, LA2207, and LA2166 were grown for replenishment of breeder seed stock.

RICE PRODUCTION ECONOMICS RESEARCH IN 2023

M.A. Deliberto

The 2023 projected cost and return rice enterprise budgets were developed in December 2022 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 $736.21 per acre of variable costs and $853.67 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 $804.84 per acre of variable costs and $920.83 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 $862.24 per acre of variable costs and $971.25 per acre for total specified costs. Net return estimates for the ratoon crop production system (Table 4) are based on production cost estimates of $185.10 per acre of variable costs and $212.61 per acre for total specified costs. Also released in 2023 was a spreadsheet based Provisia rice enterprise budget. Net return estimates for the Provisia production system are based on production cost estimates of $852.50 per acre of variable costs and $987.19 per acre for total specified costs.

To further assist rice producers in planning for the 2023 crop year, the Projected 2023 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 2023, 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 PER ACRE above Total Specified Costs for a Tenant Operator Rice, Conventional Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2023.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield			Rice	Market	Price	($/cwt)			
Percent	(cwt.)	$12.80	$13.60	$14.40	$15.20	$16.00	$16.80	$17.60	$18.40	$19.20
80%	56.0	-$130	-$102	-$73	-$45	-$17	$11	$39	$67	$96
85%	59.5	-$98	-$68	-$38	-$8	$22	$52	$82	$112	$143
90%	63.0	-$67	-$35	-$3	$29	$61	$93	$125	$158	$190
95%	66.5	-$36	-$2	$32	$66	$101	$135	$169	$203	$237
100%	70.0	-$4	$32	$68	$104	$140	$176	$212	$248	$284
105%	73.5	$27	$65	$103	$141	$179	$217	$255	$293	$331
110%	77.0	$58	$98	$138	$178	$218	$258	$298	$338	$378
115%	80.5	$90	$132	$174	$215	$257	$299	$341	$383	$425
120%	84.0	$121	$165	$209	$253	$297	$340	$384	$428	$472

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 PER ACRE above Total Specified Costs for a Tenant Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2023.

		Percent								
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield			Rice	Market	Price	($/cwt)			
Percent	(cwt.)	$12.80	$13.60	$14.40	$15.20	$16.00	$16.80	$17.60	$18.40	$19.20
80%	56.0	-$197	-$169	-$141	-$112	-$84	-$56	-$28	$0	$28
85%	59.5	-$166	-$135	-$105	-$75	-$45	-$15	$15	$45	$75
90%	63.0	-$134	-$102	-$70	-$38	-$6	$26	$58	$90	$122
95%	66.5	-$103	-$69	-$35	-$1	$33	$67	$101	$135	$169
100%	70.0	-$71	-$35	$1	$37	$73	$109	$145	$181	$217
105%	73.5	-$40	-$2	$36	$74	$112	$150	$188	$226	$264
110%	77.0	-$9	$31	$71	$111	$151	$191	$231	$271	$311
115%	80.5	$23	$65	$106	$148	$190	$232	$274	$316	$358
120%	84.0	$54	$98	$142	$186	$229	$273	$317	$361	$405

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 PER ACRE above Total Specified Costs for a Tenant Operator Rice, Clearfield Hybrid Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2023.

						Percent				
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield			Rice	Market	Price	($/cwt)			
Percent	(cwt.)	$12.80	$13.60	$14.40	$15.20	$16.00	$16.80	$17.60	$18.40	$19.20
80%	64.0	-$170	-$138	-$106	-$73	-$41	-$9	$23	$55	$87
85%	68.0	-$134	-$100	-$65	-$31	$4	$38	$72	$107	$141
90%	72.0	-$98	-$62	-$25	$12	$48	$85	$122	$158	$195
95%	76.0	-$62	-$24	$15	$54	$93	$132	$171	$210	$249
100%	80.0	-$27	$15	$56	$97	$138	$179	$220	$261	$303
105%	84.0	$9	$53	$96	$139	$183	$226	$270	$313	$356
110%	88.0	$45	$91	$136	$182	$228	$273	$319	$364	$410
115%	92.0	$81	$129	$177	$225	$272	$320	$368	$416	$464
120%	96.0	$117	$167	$217	$267	$317	$367	$417	$467	$518

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 PER ACRE above Total Specified Costs for a Tenant Operator Rice, Ratoon Crop, Southwest Louisiana, 2023.

						Percent				
		80%	85%	90%	95%	100%	105%	110%	115%	120%
	Yield			Rice	Market	Price	($/cwt)			
Percent	(cwt.)	$12.80	$13.60	$14.40	$15.20	$16.00	$16.80	$17.60	$18.40	$19.20
80%	18.4	$18	$27	$36	$46	$55	$64	$73	$83	$92
85%	19.6	$28	$38	$48	$58	$68	$78	$87	$97	$107
90%	20.7	$38	$49	$59	$70	$81	$91	$102	$112	$123
95%	21.9	$49	$60	$71	$82	$93	$105	$116	$127	$138
100%	23.0	$59	$71	$83	$94	$106	$118	$130	$142	$154
105%	24.2	$69	$82	$94	$107	$119	$132	$144	$157	$169
110%	25.3	$80	$93	$106	$119	$132	$145	$158	$171	$185
115%	26.5	$90	$104	$117	$131	$145	$159	$172	$186	$200
120%	27.6	$100	$115	$129	$143	$158	$172	$187	$201	$215

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 - 2023[1]

R. Levy and K.A. Fontenot

Introduction

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 10 parishes (Acadia, Avoyelles, East Carroll, Evangeline, Madison, Morehouse, St. Landry, and Vermilion). From 1999 to 2022, 158 fields had been included in the verification program. In 2023, the program included five fields (Figure 1), in the parishes of Acadia, Allen, Avoyelles, Evangeline, and Vermilion.

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). The yield of the first crop averaged 6,049 lb/A 37.34 bbl/A (134 bu/A or) at 12% moisture.

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.

[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 2023.

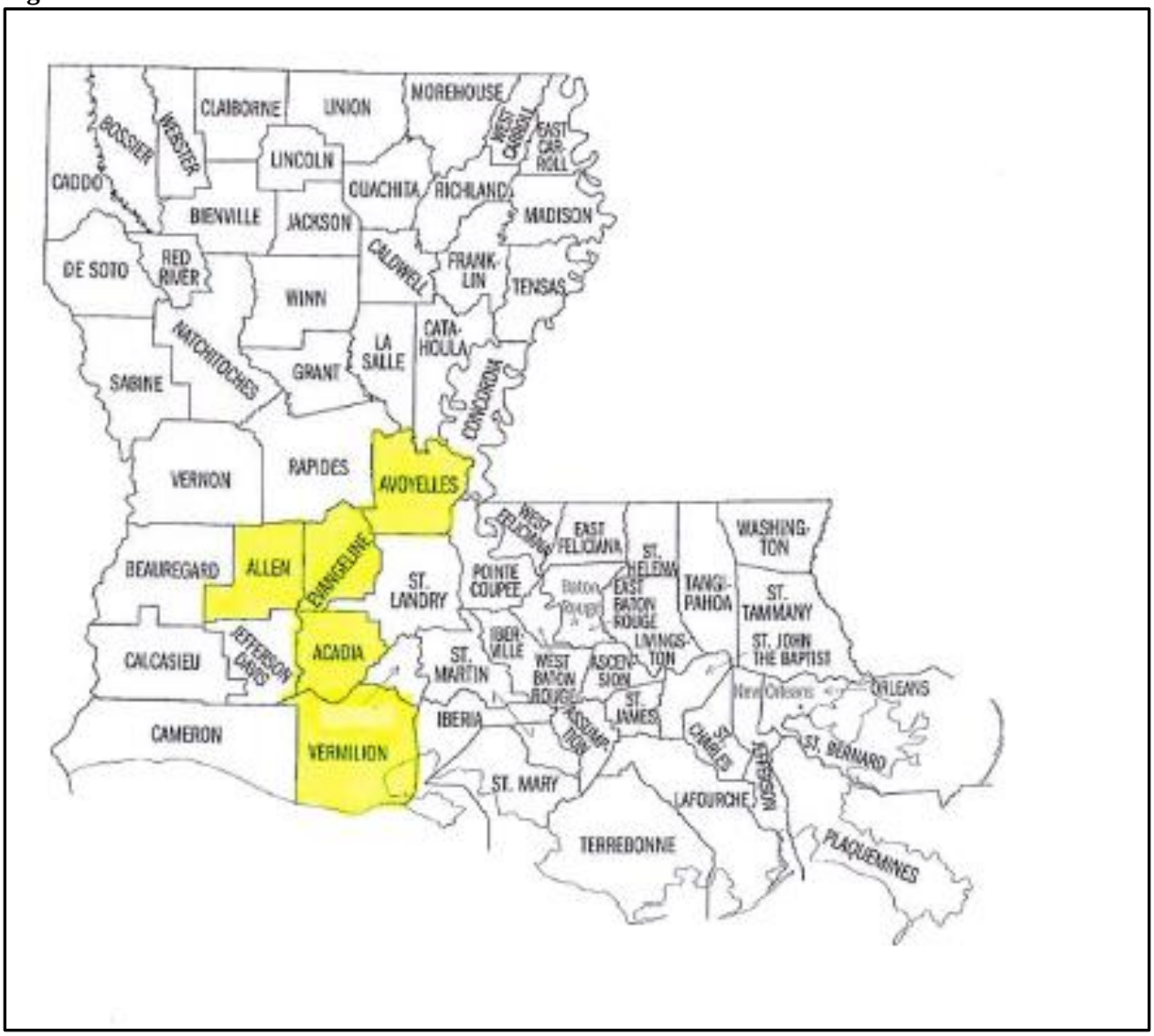

Table 1. Yields of Verification Fields in 2023.

Parish	Acres	Variety	Cwt/A green	Bbl/A green	Bu/A green	Cwt/A dry	Bbl/A dry	Bu/A dry
Acadia	50	PVL03	56.60	34.9	125	53.32	33	118
Allen [1]	18	Mermentau	89.56	55.3	199	83.57	51.5	185.7
Avoyelles	22	Mermentau	38.86	24	86.3	37.38	23	83
Evangeline	43.5	Jupiter	72.48	44.7	161	65.96	40.7	146
Vermilion	20.4	DynaGro 263L	105.32	65.01	234	100.05	61.7	222
Total Acres	153.9							

[1] Values include first and ratoon crop.

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	PVL03	53.32	52.5/69	829.16	15.55	(2.70)
Allen [3]	Mermentau	83.54	50.7/70.1	912.78	10.92	382.09
Avoyelles	Mermentau	37.38	30.4/68	661.32	17.69	(81.93)
Evangeline	Jupiter	65.96	58.1/66.8	687.68	10.42	400.66
Vermilion	DynaGro 263L	100.05	58.1/67.5	702.18	7.01	848.59

[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 $15.50/cwt.

[3] Values include first and ratoon crop.

ACADIA PARISH

The Acadia Parish field was in cooperation with producer Phillip Leonards near the Rayne area along with his father Jerry Leonards. This was Mr. Leonards' second year in the verification program. The cooperating extension agent was Jeremy Hebert.

Prior to planting, 300 lbs of 0-18-36 basic fertilizer was applied per acre. Provisia 3 seed treated with Dermacor XL was drill seeded on April 5th at a rate of 42 lbs/A under good moisture conditions. Fertilization and management were recommended and carried out according to AgCenter soil test recommendations and plant growth stages. Early season weed control was accomplished with 8 oz Loyant + 1 oz Gambit per acre. This was followed by 12 oz Provisia three days later. The stand was excellent and very uniform. Tillering was excellent and plant growth was vigorous through all growth stages, encountering no set-back.

The second application of 12 oz of Provisia + crop oil was made on May 29. Later during the growing season, some irrigation well repairs did delay the maintaining of the flood. There was no evidence of any significant amount of disease noted in the field, so no fungicide application was recommended. The late season stink bug population was very insignificant as well, never reaching anywhere near a threshold high enough to warrant control. Also, as this will be a crawfish production field, no recommendation would have been made in any case.

The plants matured and filled panicles as normal. When they reached the appropriate maturity level, the field was drained for harvest on August 6, with harvest taking place on August 17. Preliminary weights indicate this 50-acre field yielded a total of 283,014 lbs at a moisture reading of 17%. This equals 5,660 lbs per acre green or 36 bbls per acre. When adjusted to 12% moisture, the yield is 5,332 lbs per acre or 33 bbls per acre.

ACADIA PARISH

Cooperator: Phillip Leonards
Agent: Jeremy Hebert
Consultant:
Field Size: 50 acres

Cultural Practices

Variety: PVL03	**Seeding Rate:** 45 lb/A
Method of Planting: Drill	**Date of Planting:** 4/4/23
Water Management: Delayed flood	**Date of Emergence**: 4/17/23

Growth and Development

Stage	Observation Date
Green Ring	6/6
PD	6/12
50% Heading	7/11
Drain for Harvest	8/6
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]
First Crop	53.32	52.5/69.06	829.16	15.55	(2.70)

[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 $ 15.50/cwt.

Fertilization

Date	Source	Rate (lb/A)	N (lb/A)	P (lb/A)	K (lb/A)	S **(lb/A)**	Zn **(lb/A)**
4/5	0-18-36	300	0	54	108	24	10
5/9	46%	100	46	0	0	0	0
5/29	46%	150	69	0	0	0	0
6/8	46%	100	46				
Total			161	54	108	24	10

Weed Management

Weeds Present	**Date of Treatment Decision**	**Recommendation**
Grasses, Sedges, AW	5/5	8 oz Loyant +1 oz Gambit+ 17 oz crop oil
Grasses & sedges	5/8	12.8 oz Provisia + 17 oz crop oil
Grasses & sedges	5/18	12.8 oz Provisia + 17 oz crop oil

Disease Management

Diseases Present	**Date of Treatment Decision**	**Recommendation**

Insect Management

Insects Present	**Date of Treatment Decision**	**Recommendation**
	Seed Treatment	Dermacor X100

Comments:

ACADIA PARISH

FIRST CROP PRODUCTION COSTS

Item	Description	Cost/A	Acres	Total
Herbicide Burndown				
Application cost - herbicide				
Field Work, Disking, etc.	Disc& Cultivate 290 HP Tractor	$21.05	50	$1,052.50
Water leveling, Bed leveling, etc.	290 HP Tractor & 25 ft. blade scraper	$12.50	50	$625.00
Ditching	150 HP Tractor + Ditcher	$1.84	50	$92.00
Seed	45 #/A PVL03 +Dermacor X-100+Duvet+ Revize	$91.11	50	$4,555.50
Seed treatment (if separate)				
Planting	250 HP Tractor and 20 Ft. Drill	$14.98	50	$749.00
Fertilizer	300 #/A 0-18-36 + S + ZN Fertilizer	$131.22	50	$6,561.00
Application cost - fertilizer	Aerial Application Costs	$19.17	50	$958.50
Herbicide	8 oz Loyant + 1 oz Gambnit + 17 oz crop oil	$51.57	50	$2,578.50
Application cost - herbicide	Ground Rig Custom Application	$12.00	50	$600.00
Herbicide	12.8 oz Provisia + 17 oz crop oil	$26.37	50	$1,318.50
Application cost - herbicide	Ground Rig Custom Application	$12.00	50	$600.00
Herbicide	100 #/A Urea	$35.89	50	$1,794.50
Application cost - herbicide	Aerial Application Costs	$7.84	50	$392.00
Herbicide	12.8 oz Provisia + 17 oz crop oil	$26.37	50	$1,318.50
Application cost - herbicide	Ground Rig Custom Application	$12.00	50	$600.00
Fertilizer	150 #/A Urea	$42.07	50	$2,103.50
Application cost - fertilizer	Aerial Application Costs	$7.85	50	$392.50
Fertilizer	100 #/A Urea	$35.90	50	$1,795.00
Application cost - fertilizer	Aerial Application Costs	$7.85	50	$392.50
Harvest - cart 1 w tractor	From AgCenter Budget	$9.46	50	$473.00
Harvest - combine 1	From AgCenter Budget	$54.75	50	$2,737.50
Water costs	From AgCenter Budget	$195.37	50	$9,768.50
First Crop Totals		$829.16		$41,458.00

RATOON CROP PRODUCTION COSTS

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

		Cost/A		Total
	TOTAL FOR 1st CROP and RATOON	**$829.16**		**$41,458.00**

ALLEN PARISH

The Allen Parish verification field was located just east of Kinder, LA. The cooperator, Aaron Unkel, is a first-year participant in the verification program. Assisting in the field visits and recommendations were Evangeline Parish, County Agent, Vince Deshotel.

The 18-acre field was water planted with 135 lbs per acre of Mermentau seed on March 28. Seed treatments included Dermacor X-100 and fungicide. Plant emergence was very good. The stand was uniform, however it included a light infestation of red rice by spots. Basic fertilizer consisting of 200 lbs of 20-10-20, impregnated with 8 oz of Command herbicide was applied on April 3. On April 25, 10oz Loyant + 1 oz Gambit was applied for early season weed control, followed by 200 lbs per acre of 26-9-18 fertilizer on April 27. The field fertilization and water management followed AgCenter guidelines.

At Green Ring stage of growth 100 lbs of Urea was applied. This very uniform field grew well under good management and conditions. In the late boot stage, 18 oz of Quilt Excel was applied for a very scattered sheath blight infestation. The plants reached the “50% heading” stage around June 22. The field was slowly drained for harvest beginning around July 11, with harvest on August 3. The Mermentau field had a green yield of 5,336 lbs per acre or 33.57 bbl/A @ 16.6% moisture, which when adjusted to 12% was 5,063 lbs per acre or 31.2 bbl/A.

After the first crop harvest, the field was rolled with a 40-foot roller to enhance the uniformity of emergence of second crop tillers, Urea fertilizer was applied at a rate of 200 lbs per acre and the field flooded up to accelerate plant growth. The growth of the second crop was very uniform. The second crop was harvested on November 11. The yields of the second crop were as follows: The 18-acre field yielded a total of 65,170 pounds. When adjusted to 12% moisture, the per acre yield averaged 3,294 lbs or 20.3 bbls or 73.2 bushels. When you combine the total yields of first and second crop adjusted to 12% moisture, yields are: 8,357 lbs, 51.5 bbls or 185.7 bu to the acre.

ALLEN PARISH

Cooperator: Aaron Unkel
Agent: Vince Deshotel
Consultant: Chet Marcantel
Field Size: 18

Cultural Practices

Variety: Mermentau	**Seeding Rate:** 135 lb/A
Method of Planting: Water	**Date of Planting**: 3/28/23
Water Management: Delayed Flood	**Date of Emergence:** 4/4/23

Growth and Development

Stage	Observation Date
Green Ring	5/16
PD	5/23
50% Heading	6/22
Drain for Harvest	7/14
Harvest	8/3 & 11/09

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	50.6	50.72/70.13	724.39	14.31	59.91
Second Cro	32.94	N/A	188.39	5.71	322.18
Total	83.54		912.78	10.92	382.09

[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 $15.50/cwt.

Fertilization

Date	Source	Rate (lb/A)	N (lb/A)	P (lb/A)	K (lb/A)	S **(lb/A)**	ZN **(lb/A)**
4/3	20-10-20	200	40	20	40	0	0
4/21	26-9-18	200	52	18	36	0	0
5/16	46-0-0	100	46	23	30	0	0
First crop total			138	38	76	0	0
Second Crop	46-0-0	200	92	0	0	0	0
Totals			230	38	76	0	0

Weed Management

Weeds Present	**Date of Treatment Decision**	**Recommendation**
Grasses, sedges, AW, some red rice by spots	4/3	8 oz Command impregnated on fertilizer
	4/25	10 oz Loyant + 1 oz Gambit

Disease Management

Diseases Present	**Date of Treatment Decision**	**Recommendation**
Sheath blight	6/12	20 oz Quilt XL

Insect Management

Insects Present	**Date of Treatment Decision**	**Recommendation**
RWW Prevention	3/28	Dermacor X-100

ALLEN PARISH

FIRST CROP PRODUCTION COSTS

Item	Description	Cost/A	Acres	Total
Herbicide Burndown				
Application cost - herbicide				
Field Work, Disking, etc.	350 HP Tractor + 34 ft disc (2X)	$24.06	18	$433.08
Water leveling, Bed leveling, etc.	350 HP Tractor + 32 ft water level	$37.31	18	$671.58
Ditching	100 HP Tractor + Ditcher	$1.84	18	$33.12
Seed	135 #/A Mermentau	$47.34	18	$852.12
Seed treatment (if separate)	Dermacor X-100	$35.86	18	$645.48
Planting	Aerial Application Costs	$15.73	18	$283.14
Fertilizer	200 #/A 20-10-20 + 8 oz Command	$84.12	18	$1,514.16
Application cost - fertilizer	Aerial Application Costs	$17.30	18	$311.40
Herbicide	8 oz Command impregnated on fertilizer	$8.45	18	$152.10
Application cost - herbicide	N/A			$0.00
Herbicide	10 oz Loyant + 1 oz Gambit	$47.13	18	$848.34
Application cost - herbicide	Aerial Application Costs	$11.35	18	$204.30
Application cost - fertilizer	200 #/A 26-9-18	$59.83	18	$1,076.94
Fertilizer	Aerial Application Costs	$17.30	18	$311.40
Application cost - fertilizer	100 #/A Urea	$26.55	18	$477.90
Fungicide	Aerial Application Costs	$10.50	18	$189.00
Application cost - fungicide	20 oz/A Quilt XL	$21.45	18	$386.10
Fungicide	Aerial Application Costs	$11.35	18	$204.30
Harvest - cart 1 w tractor	From AgCenter Budget	$7.70	18	$138.60
Harvest - combine 1	From AgCenter Budget	$54.75	18	$985.50
Water costs	From AgCenter Budget	$184.47	18	$3,320.46
First Crop Totals		$724.39		$13,039.02

RATOON CROP PRODUCTION COSTS

Item	Description	Cost/A	Acres	Total
Ratoon Crop Manipulation	150 HP Tractor + 40 ft Roller	$5.79	18	$104.22
Ratoon Crop Fertilizer	200 #/A Urea	$53.10	18	$955.80
Ratoon Fertilizer Application Cost	Ground Rig	$12.00	18	$216.00
Ratoon Crop Water Cost	From AgCenter Budget	$55.05	18	$990.90
Ratoon Crop Harvest Cart 1	From AgCenter Budget	$7.70	18	$138.60
Ratoon Crop Harvest Combine 1	From AgCenter Budget	$54.75	18	$985.50
Ratoon Crop Totals		$188.39		$3,391.02

		Cost/A		Total
	TOTAL FOR 1st CROP and RATOON	**$912.78**		**$16,430.04**

AVOYELLES PARISH

The Avoyelles Parish verification participant was Cody Dauzat, a first-time participant in the program. Although Cody had experience growing soybeans, corn, and pastures, this was Cody's first attempt to grow rice. We were assisted by Justin Dufour, County Agent in Avoyelles Parish. This was a 22-acre field that was laser leveled last fall. Severe topsoil removal of up to 18 inches from one area of the field to another led to some fertility issues that needed addressing. This soil correction started with an application of 1.5 tons of chicken litter, as well as 200 lbs/acre of 0-26-26 fertilizer based on soil test results.

Due to persistent rains, field work and planting were delayed. Finally on May 10, 100 lbs per acre of Mermentau seed was dry broadcast. Emergence was May 22, with a uniform but weed infested stand. Early weed control included 1 gal. Propanil per acre, followed by 100 lbs of Urea fertilizer. This was followed by 150 lbs Urea impregnated with 12 oz of Loyant herbicide ten days later.

Although this field was laser leveled, some dozer work on field border levees and some slight ridges remained present in the field. This would impact weed control as well as water management during the season. As the season progressed, the field turnaround including plant tillering and uniformity was very impressive. There was no noticeable disease present in the field, thus no fungicide application was made. However, once the heading stages began, the differences between the areas that had been severely cut during the laser leveling, compared to the areas that had been filled, became very evident. These differences in plant heading, filling and maturity did delay the harvest of the field. This as well as the late planting date resulted in severe yield loss due to shattering, as well as extreme quality loss to milling.

Once harvest was completed and yields adjusted to 12% moisture, the field yielded the following averages per acre: 3.738 lb/A, or 23.07 bbls/A or 83 bu/A. Much of the loss of yield was attributed to later planting date, fertility issues, high nighttime temperatures at flowering and filling stages, and uneven maturity, as evidenced by high amounts of chaff or unfilled panicles. We look forward to working with Cody again next year to continue his progression into rice production.

AVOYELLES PARISH

Cooperator: Cody Dauzaut
Agent: Justin Dufour
Consultant:
Field Size: 22 Acres

Cultural Practices

Variety: Mermentau	**Seeding Rate:** 100 lb/A
Method of Planting: Dry Broadcast planted	**Date of Planting:** 5/10/23
Water Management: Delayed flood	**Date of Emergence:** 3/22/23

Growth and Development

Stage	Observation Date
Green Ring	6/21
PD	6/27
50% Heading	7/27
Drain for Harvest	9/1
Harvest	9/21

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	37.38	30.45/68.87	661.32	17.69	(81.93)

[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 $15.50/cwt.

Fertilization

Date	Source	Rate (lb/A)	N (lb/A)	P (lb/A)	K (lb/A)	S **(lb/A)**	ZN **(lb/A)**
5/10	0-26-26	200	0	52	52	0	0
6/1	46%	100	46	0	0	0	0
6/10	46%	150	69	0	0	0	0
6/25	46%	100	46	0	0	0	0
Season Total			161	52	52	0	0

Weed Management

Weeds Present	**Date of Treatment Decision**	**Recommendation**
Grasses, sedge	5/31	1 gal/A Propanil
	6/10	12 oz/A Loyant impregnated on fertilizer

Disease Management

Diseases Present	**Date of Treatment Decision**	**Recommendation**

Insect Management

Insects Present	**Date of Treatment Decision**	**Recommendation**
RWW prevention	5/10	Dermacor X-100

AVOYELLES PARISH

FIRST CROP PRODUCTION COSTS

Item	Description	Cost/A	Acres	Total
Herbicide Burndown	Fall Appl. 2 oz Valor + 2 oz Venturi surfactant	$12.76	22	$280.72
Application cost - herbicide	Ground Rig Custom Application	$7.85	22	$172.70
Field Work, Disking, etc.	Disc 335 HP & Cultivate 380 HP Tractor	$29.46	22	$648.12
Water leveling, Bed leveling, etc.	380 HP Tractor & 17 ft. Blade Scraper	$52.69	22	$1,159.18
Ditching	ATV & Ditching tires	$5.96	22	$131.12
Seed	100 #/A Mermentau + Dermacor X-100 + Zn	$44.79	22	$985.38
Seed treatment (if separate)			22	$0.00
Planting	Spreader Cart Broadcast	$4.90	22	$107.80
Fertilizer	200 #/A 0-26-26 Fertilizer	$68.14	22	$1,499.08
Application cost - fertilizer	Aerial Application Costs	$7.50	22	$165.00
Herbicide	1 gal/A Propanil	$22.00	22	$484.00
Application cost - herbicide	Aerial Application Costs	$7.50	22	$165.00
Herbicide	12 oz/A Loyant impregnated on fertilizer	$26.16	22	$575.52
Application cost - herbicide	N/A			$0.00
Application cost - fertilizer	150 #/A Urea impregnated with Loyant	$69.69	22	$1,533.18
Fertilizer	Aerial Application Costs	$7.50	22	$165.00
Application cost - fertilizer	100 #/A Urea	$29.10	22	$640.20
Fungicide	Aerial Application Costs	$7.50	22	$165.00
Harvest - cart 1 w tractor	From AgCenter Budget	$7.70	22	$169.40
Harvest - combine 1	From AgCenter Budget	$54.75	22	$1,204.50
Water costs	From AgCenter Budget	$195.37	22	$4,298.14
First Crop Totals		$661.32		$14,549.04

RATOON CROP PRODUCTION COSTS

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

		Cost/A		Total
	TOTAL FOR 1st CROP and RATOON	**$661.32**		**$14,549.04**

EVANGELINE PARISH

The Evangeline Parish producer cooperating in the the 2023 verification program was Mr. Alex Sylvester of the Whiteville community. This was Alex's second year in the program. He was assisted and encouraged to participate by his father, Jeffery Sylvester, another former participant from previous years. Vince Deshotel, Evangeline County Agent and Dennis Fontenot, a Nutrien Ag Company crop consultant also assisted with the field visits and decision-making processes on this field.

Alex water planted 90lbs per acre of Jupiter seed treated with AV1011 bird repellent, and Dermacour XL insecticide. This 43.5 acre field was planted on March 25. Early rains stretched this 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 10oz./A Command were applied on April 14 for early weed control. A total of 141 lbs of Nitrogen went into this field which grew vigorously after the slow start.

Stand was very uniform, and tillering was excellent throughout the field. Plants reached green ring on May 22, and 50% heading on June 28. This field as many others was affected by high night temperatures duing the growing season especially from flowering through the harvest. There was some light sheath blight as well as leaf blast observed in the field. Cercospora affected this field as well during the panicle filling stage. A fungicide was applied in late boot stage to offset some of the disease damage.

Draining the field started on July 19, and harvest was on August 7. Yield from this field was approximately 7,248 lb/A or 44.7 bbls/A at 20% moisture, and when adjusted to 12% totaled 6,596 lb/A or 41 bbl/A.

EVANGELINE PARISH

Cooperator: Alex Sylvester
Agent: Vince Deshotel
Consultant: Dennis Fontenot
Field Size: 43.5 acres

Cultural Practices

Variety: Jupiter	**Seeding Rate:** 90 lb/A
Method of Planting: Water planted	**Date of Planting:** 3/25/23
Water Management: Delayed flood	**Date of Emergence:** 3/31/23

Growth and Development

Stage	Observation Date
Green Ring	5/22
PD	5/31
50% Heading	6/28
Drain for Harvest	7/9
Harvest	8/7

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	65.96	58.1/66.89	687.68	10.42	400.66

[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 $15.50/cwt.

Fertilization

Date	Source	Rate (lb/A)	N (lb/A)	P (lb/A)	K (lb/A)	S **(lb/A)**	ZN **(lb/A)**
4/25	46%	100	46	0	0	0	0
5/4	DAP	100	18	46	0	0	0
5/4	46%	100	46	0	0	0	0
5/24	33%	100	33	0	0	0	0
Season Total			143	46	0	0	0

Weed Management

Weeds Present	**Date of Treatment Decision**	**Recommendation**
Grasses, sedge, duck salad	4/14	1 Gal. Propanil +.10 oz Command

Disease Management

Diseases Present	**Date of Treatment Decision**	**Recommendation**
	6/22	21oz Quilt Excel + 1.5 oz Franchise

Insect Management

Insects Present	**Date of Treatment Decision**	**Recommendation**
RWW prevention	3/25	Dermacor X-100

EVANGELINE PARISH

FIRST CROP PRODUCTION COSTS

Item	Description	Cost/A	Acres	Total
Herbicide Burndown				$0.00
Application cost - herbicide				$0.00
Field Work, Disking, etc.	470 HP Tractor + 45 ft Diamond Disc (2X)	$42.72	43.5	$1,858.32
Water leveling, Bed leveling, etc.	470 HP Tractor + 30 ft Water Level & 35 ft pipe drag (2X)	$52.68	43.5	$2,291.58
Ditching	150 HP Tractor + Ditcher (2X)	$3.68	43.5	$160.08
Seed	90 #/A Jupiter + AV 1011 + Dermacor X-100	$86.31	43.5	$3,754.49
Seed treatment (if separate)			43.5	$0.00
Planting	Aerial Application Costs - Water Planted	$9.93	43.5	$431.96
Fertilizer	100 #/A Urea	$27.56	43.5	$1,198.86
Application cost - fertilizer	Aerial Application Costs	$8.95	43.5	$389.33
Herbicide	1 gal/A Propanil + 10 oz Command	$40.03	43.5	$1,741.31
Application cost - herbicide	Aerial Application Costs	$8.42	43.5	$366.27
Fertilizer	100 #/A Urea + 100 #/A DAP	$68.50	43.5	$2,979.75
Application cost - fertilizer	Aerial Application Costs	$14.77	43.5	$642.50
Fertilizer	100 #/A of 33%	$29.00	43.5	$1,261.50
Application cost - fertilizer	Aerial Application Costs	$8.67	43.5	$377.15
Fungicide	21 oz/A Quilt Excel + Franchise @ 1.5 oz/A	$27.10	43.5	$1,178.85
Application cost - fungicide	Aerial Application Costs	$10.68	43.5	$464.58
Harvest - cart 1 w tractor	From AgCenter Budget	$9.46	43.5	$411.51
Harvest - combine 1	From AgCenter Budget	$54.75	43.5	$2,381.63
Water costs	From AgCenter Budget	$184.47	43.5	$8,024.45
First Crop Totals		$687.68		$29,914.08

RATOON CROP PRODUCTION COSTS

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

		Cost/A		Total
	TOTAL FOR 1st CROP and RATOON	**$687.68**		**$29,914.08**

Vermilion Parish

The Vermilion Parish verification cooperator was Sandrus Stelly, a first-time participant in the program although he farms together with his brother Adler Stelly, who had previously participated. This field was located further south than any other field we've had, at least in the last ten to twelve years. This 20-acre field was 2.5 miles south of the intracoastal canal bridge on Hwy 82.

This was a new acquisition to the Stelly farm and as such we had no previous cropping history to assist us with making any decisions. This field had been in pasture for several years and was very compacted. Initial tillage required multiple passes with a heavy breaking disc in the fall. Later a water level would also be used to further work and level the ground. After this intensive dirt work in the fall, the field was allowed to hold water to assist in vegetation control. Then prior to planting, the blade was dragged again to loosen up any weeds, and to create a slightly rough surface for the water seeding to come.

The field was water planted with 100 lbs /acre of DG 263L seed treated with Dermacor XL and AV1011 bird repellent on March 8. On April 18, 200 lbs of 19-19-19 impregnated with 12 oz. of Loyant was applied for control of the grasses and weeds present in the field. Weed control proved excellent apart from several spots of sedge located on higher hills in the field which persisted.

From this point on, this stand of rice exploded. Tillering was excellent, as well as overall root and stem growth. Green ring was reached on May 2 with 50% heading on June 14. No evidence of disease was observed nor was there any evidence of rice stink bug infestations.

Expenses were kept to a minimum with basic fertilizer impregnated with herbicide, along with 153 pounds of nitrogen in split applications being the only inputs after planting, other than flood cost.

The field was drained on July 11, with harvest occurring on July 25. Total harvest yield was 10,532 lbs/acre or 65.01 bbls/acre @ 16.7% moisture. When adjusted to 12% moisture this equates to 10,005 lbs/acre or 61.76 bbls/acre.

Vermilion Parish

Cooperator: Sandrus & Adler Stelly
Agent: Jeremy Hebert
Consultant:
Field Size: 20.4 acres

Cultural Practices

Variety: DynaGro 263L	**Seeding Rate: 6**0 lb/A
Method of Planting: Water Planted	**Date of Planting:** 3/8/23
Water Management: Delayed Flood	**Date of Emergence:** 3/18/23

Growth and Development

Stage	Observation Date
Green Ring	5/2
PD	5/16
50% Heading	6/14
Drain for Harvest	7/11
Harvest	7/25

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	100.05	58.13/67.50	702.18	7.01	848.59

[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 $15.50/cwt.

Fertilization

Date	Source	Rate (lb/A)	N (lb/A)	P (lb/A)	K (lb/A)	S **(lb/A)**	Zn **(lb/A)**
4/18	19-19-19	200	38	38	38	0	0
4/29	46%	150	69	0	0	0	0
5/9	46%	100	46	0	0	0	0
Season Total			153	38	38	0	0

Weed Management

Weeds Present	**Date of Treatment Decision**	**Recommendation**
Sedge, Grasses,	4/16	12oz/A Loyant impregnated on fertilizer

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**
	3/8	Dermacor X-100

VERMILION PARISH

FIRST CROP PRODUCTION COSTS

Item	Description	Cost/A	Acres	Total
Herbicide Burndown				$0.00
Application cost - herbicide				$0.00
Field Work, Disking, etc.	420 HP Tractor + 30 ft Disc (4X)	$85.44	20.4	$1,742.98
Water leveling, Bed leveling, etc.	420 HP Tractor + 20 ft Water Level	$52.69	20.4	$1,074.88
Ditching	150 HP Tractor + Ditcher	$1.84	20.4	$37.54
Seed	60 #/A DynaGro 263L + Dermacor X-100 + AV1011	$86.77	20.4	$1,770.11
Seed treatment (if separate)				$0.00
Planting	Aerial Application Costs	$11.15	20.4	$227.46
Fertilizer	225 #/A 19-19-19 impregnated with Loyant	$73.12	20.4	$1,491.65
Application cost - fertilizer	Aerial Application Costs	$14.00	20.4	$285.60
Herbicide	12 oz/a Loyant impregnated on fertilizer	$38.00	20.4	$775.20
Application cost - herbicide	N/A		20.4	$0.00
Fertilizer	150 #/A Urea	$41.25	20.4	$841.50
Application cost - fertilizer	Aerial Application Costs	$11.75	20.4	$239.70
Fertilizer	100 #/A of Yrea	$27.50	20.4	$561.00
Application cost - fertilizer	Aerial Application Costs	$11.75	20.4	$239.70
Harvest - cart 1 w tractor	From AgCenter Budget	$7.70	20.4	$157.08
Harvest - combine 1	From AgCenter Budget	$54.75	20.4	$1,116.90
Water costs	From AgCenter Budget	$184.47	20.4	$3,763.19
First Crop Totals		$702.18		$14,324.47

RATOON CROP PRODUCTION COSTS

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

		Cost/A		Total
	TOTAL FOR 1st CROP and RATOON	**$702.18**		**$14,324.47**

Table 1. Summary of Management Practices and Economic Data per Acre for 2023 Verification Fields

Parish	Planting Method	Rice Variety	Planting Date	Water Management	Seed Costs ($/Acre)	Planting Costs ($/Acre)	Herbicide Costs ($/Acre)	Herbicide Application Costs ($/Acre)
Acadia	Drill	PVL03	4/4	Delayed	$91.11	$14.98	$104.31	$36.00
Allen [1]	Water	Mermentau	3/28	Delayed	$47.34	$15.73	$55.58	$28.65
Avoyelles	Dry Broadcast	Mermentau	5/10	Delayed	$44.79	$4.90	$48.16	$15.00
Evangeline	Water	Jupiter	3/25	Delayed	$86.31	$9.93	$40.03	$8.42
Vermilion	Drill	DynaGro 263L	3/20	Delayed	$86.77	$11.15	$38.00	$14.00

Table 1. Summary of Management Practices and Economic Data per Acre for 2023 Verification Fields (Continued)

Parish	Fertilizer Costs ($/Acre)	Fertilizer Application Costs ($/Acre)	Fungicide Costs ($/Acre)	Fungicide Application Costs ($/Acre)	Insecticide Costs ($/Acre)	Insecticide Application Costs ($/Acre)	Water Costs ($/Acre)
Acadia	$245.00	$42.77	N/A	N/A	N/A	N/A	$195.37
Allen [1]	$170.05	$45.10	$21.45	$11.35	N/A	N/A	$184.40
Avoyelles	$166.93	$22.50	N/A	N/A	N/A	N/A	$195.37
Evangeline	$125.66	$32.39	$27.00	$10.66	N/A	N/A	$184.47
Vermilion	$141.87	$37.50	N/A	N/A	N/A	N/A	$184.47

Table 1. Summary of Management Practices and Economic Data per Acre for 2023 Verification Fields (Continued)

Parish	Harvest Date	Yield at 12% Moisture (Cwts)	Yield at 12% Moisture (Bbls)	Yield at 12% Moisture (Bu)	Milling % (% Whole/ % Total)	Variable Costs ($/Acre)	Cost of Production ($/Cwt)	Return on Variable Costs ($/Acre)
Acadia	8/17	53.32	33.00	118.00	52.5/69	$829.16	$15.55	($2.70)
Allen [1]	8/3 & 11/09	83.57	51.50	185.70	50.72/70.01	$912.78	$10.92	$382.09
Avoyelles	9/21	37.38	23.00	83.00	30.4/68.8	$661.32	$17.69	($81.93)
Evangeline	8/7	65.96	40.70	146.00	58.1/66.8	$687.68	$10.42	$400.66
Vermilion	7/25	100.05	61.76	222.00	58.1/67.5	$702.18	$7.01	$848.59

[1] Values include first and ratoon crop.

[2] This value was obtained using a selling price of $15.50/cwt.

Table 2. 1998 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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**

*Yields include second crop

Table 3. 1999 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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**

*Yields include second crop

Table 4. 2000 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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**

*Yields include second crop

Table 5. 2001 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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**

*Yields include second crop

Table 6. 2002 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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**

*Yields include second crop

Table 7. 2003 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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**

*Yields include second crop

Table 8. 2004 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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**

*Yields include second crop

Table 9. 2005 Verification Acres and Yields*

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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 9. 2006 Verification Acres and Yields*

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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 2006.

Table 10. 2007 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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**

*Yields include second crop

Table 11. 2008 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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**

*Yields include second crop

Table 12. 2009 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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**

*Yields include second crop

Table 13. 2010 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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**

*Yields include second crop

Table 14. 2011 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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 15. 2012 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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.

Table 16. 2013 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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.

Table 17. 2014 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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 18. 2015 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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.

Table 19. 2016 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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
TOTALS[3]	**112**	**60.4**	**217**	**9,814**

[1] Yield includes second crop.
[2] Not harvested due to flood.
[3] Harvested acres only.

Table 20. 2017 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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.

Table 21. 2018 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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.

Table 22. 2019 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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.

Table 23. 2020 Verification Acres and Yields[1]

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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**

[1] No ratoon crop harvested in 2020 Verification program.

Table 24. 2021 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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**

[1] Yield includes second crop.

Table 25. 2022 Verification Acres and Yields[1]

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (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	**193.5**	**51.4**	**185**	**8339**

[1] No ratoon crop harvested in 2022 Verification program

Table 26. 2023 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Barrels/A)	Yield at 12% Moisture (Bushels/A)	Yield at 12% Moisture (Pounds/A)
Acadia	50	33	118	5660
Allen [1]	18	51.5	185.7	8357
Avoyelles	22	23	83	3738
Evangeline	43.5	40.7	146	6596
Vermilion	20.4	61.7	222	10005
TOTALS	**153.9**	**37.3**	**134**	**6049**

[1] Yield includes second crop.

1998 – 2023 Rice Research Verification Yield Summary

Year	Verification Totals Acres	Verification Totals Pounds/Acre	Verification Parish Totals[1] Acres	Verification Parish Totals[1] Pounds/Acre	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	112.0	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	70.0	6,801	240,391	6,093	708
2020	127.5	7,581	269,997	6,793	788
2021	193.5	8,339	162,350	6,792	1,547
2022	306.6	7,050	172,426	6,747	303
2023	153.9	6,049			
Totals	6,908.8		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

2023 CRAWFISH PRODUCTION AND DEMONSTRATION

M. Shirley, T. Fontenot, C. Benoit, and K. Guidry

INTRODUCTION

The H. Rouse Caffey Rice Research Station conducted crawfish research annually from the early to mid-1980's through 2017 until the retirement of the crawfish researcher, Dr. Ray McClain. Over those years, research conducted focused on a variety of issues ranging from different forage types to different baits to different trap arrangements and numbers. Despite the lack of a research faculty member devoted to crawfish research, the station has kept two 14-acre ponds in a rice/crawfish production system. Starting during the 2019/20 production season, Mr. Mark Shirley was named as Extension Crawfish Specialist and began to conduct demonstration trials. In the first two years as Extension Crawfish Specialist, Mr. Shirley implemented a demonstration trial that compared crawfish production with and without a ratoon rice harvest. In addition, Mr. Shirley has looked at different rice stubble management on biomass production. Future plans call for additional demonstration trials to be conducted at the H. Rouse Caffey Rice Research Station to address questions and issues for the crawfish industry. These efforts will be led by Mr. Mark Shirley and Mr. Todd Fontenot. Mr. Fontenot was named Extension Crawfish Specialist in 2023 and will work collaboratively with Mr. Shirley to address industry needs. At Mr. Shirley's retirement, Mr. Fontenot will assume the leadership role for crawfish activities at the H. Rouse Caffey Rice Research Station.

2022/23 PRODUCTION YEAR

Crawfish harvest was delayed for the 2022/23 production year until February 1, 2023. The primary reason for the delay was due to personnel limitations at the rice station. It wasn't until February 1st until the station was able to identify and hire someone whose primary responsibilities were to oversee crawfish production and harvest. Also, because of the lack of personnel, no formal demonstration trial was planned.

The crawfish production season at the H. Rouse Caffey Rice Research station started on February 1, 2023 and finished on June 9, 2023. Production was on a 14-acre pond following rice production and harvest. A ratoon rice crop was not conducted. The following tables and graph provide a summary of the pounds of crawfish caught each month of the season, the total revenue generated, and the price per pound received. It should be noted that the revenue generated was net of crawfish sacks and bait purchased.

Table 1. Crawfish Production Statistics, 2022/23 Production Season, H. Rouse Caffey Rice Research Station.

Item	February	March	April	May	June	Season Total
Total Catch (pounds)	2,612.0	5,784.0	7,124.0	5,653.0	1,061.0	22,234.0
Days Fished	17	23	20	23	7	90
Acres Fished	14	14	14	14	14	14
Total Traps	200	200	200	200	200	200
Average Catch Per Acre (pounds)	186.6	413.1	508.9	403.8	75.8	1,588.1
Average Catch Per Day (pounds)	153.6	251.5	356.2	245.8	151.6	247.0
Average Catch Per Acre Per Day (pounds)	11.0	18.0	25.4	17.6	10.8	17.6
Average Catch Per Trap Per Day (pounds)	0.8	1.3	1.8	1.2	0.8	1.2

Table 2. Crawfish Production Statistics, FIELD RUN, 2022/23 Production Season, H. Rouse Caffey Rice Research Station.

Item	February	March	April	May	June	Season Total
Total Catch (pounds)	2,612.0	5,784.0	4,381.0	0.0	0.0	12,777.0
Days Fished	17	23	20	23	7	90
Acres Fished	14	14	14	14	14	14
Total Traps	200	200	200	200	200	200
Average Catch Per Acre (pounds)	186.6	413.1	312.9	0.0	0.0	912.6
Average Catch Per Day (pounds)	153.6	251.5	219.1	0.0	0.0	142.0
Average Catch Per Acre Per Day (pounds)	11.0	18.0	15.6	0.0	0.0	10.1
Average Catch Per Trap Per Day (pounds)	0.8	1.3	1.1	0.0	0.0	0.7

Table 3. Crawfish Production Statistics, PEELERS, 2022/23 Production Season, H. Rouse Caffey Rice Research Station.

Item	February	March	April	May	June	Season Total
Total Catch (pounds)	0.0	0.0	2,743.0	5,653.0	1,061.0	9,457.0
Days Fished	17	23	20	23	7	90
Acres Fished	14	14	14	14	14	14
Total Traps	200	200	200	200	200	200
Average Catch Per Acre (pounds)	0.0	0.0	195.9	403.8	75.8	675.5
Average Catch Per Day (pounds)	0.0	0.0	137.2	245.8	151.6	105.1
Average Catch Per Acre Per Day (pounds)	0.0	0.0	9.8	17.6	10.8	7.5
Average Catch Per Trap Per Day (pounds)	0.0	0.0	0.7	1.2	0.8	0.5

Table 4. Crawfish Revenue Statistics, 2022/23 Production Season, H. Rouse Caffey Rice Research Station.

Item	February	March	April	May	June	Season Total
Total Revenue (dollars)	$6,334.50	$8,369.25	$6,847.75	$2,826.50	$530.50	$24,908.50
Days Fished	17	23	20	23	7	90
Acres Fished	14	14	14	14	14	14
Total Traps	200	200	200	200	200	200
Average Revenue Per Acre (dollars)	$452.46	$597.80	$489.13	$201.89	$37.89	$1,779.18
Average Revenue Per Day (dollars)	$372.62	$363.88	$342.39	$122.89	$75.79	$276.76
Average Revenue Per Acre Per Day (dollars)	$26.62	$25.99	$24.46	$8.78	$5.41	$19.77
Average Revenue Per Trap Per Day (dollars)	$1.86	$1.82	$1.71	$0.61	$0.38	$1.38
Average Price Received (dollars per pound)	$2.43	$1.45	$0.96	$0.50	$0.50	$1.12

Figure 1. Average Monthly Price Received For Field Run and Peeler Crawfish
H. Rouse Caffey Rice Research Station
2022/23 Production Year

PLANS FOR 2023/24 PRODUCTION SEASON

With faculty and staff positions stabilized, there are several issues that are planned to be examined during the 2023/24 production season. Some of the issues include:

- Examining the effect of fertilization on rice stubble on both total crawfish harvest and size of crawfish harvested,
- Examining the effectiveness of newly developed crawfish baits,
- Examining the accuracy of a pondside test kit for determining presence of White Spot Syndrome Virus (WSSV), and
- Examining control practices for apple snails

While much of the proposed work would occur at the rice research station, some is being planned for off-station sites with cooperating producers. There is, however, some uncertainty regarding the ability to perform some of the planned work. Given the uncertainty regarding crawfish inventory levels in ponds due to drought conditions and excessive heat in 2023, there are questions as to whether there will be sufficient supplies of crawfish to effectively conduct some or any of the work planned.

STATION PERSONNEL

Kurt M. Guidry, Professor	**Resident Coordinator**
Kimberly G. Guidry	Administrative Program Specialist-A
Carol D. LeDoux	Administrative Program Specialist-A
Hannah Derouen	Accounting Specialist 2
Jennifer A. Gary[1]	Administrative Coordinator 3
Andy Mullins[2]	Administrative Coordinator 3
Kim J. Landry	Safety Coordinator
Adam N. Famoso, Associate Professor	**Rice Breeding**
Brijesh Angira	**Assistant Professor- Research**
Jose Moreno Amores[3]	Postdoctoral Researcher
Valerie B. Dartez	Research Associate Coordinator
Jennifer D. Dartez	Research Farm Specialist 2
Brady L. Williams	Research Farm Specialist 2
Tara R. Vanicor[4]	Research Farm Specialist 2
Andrew P. Thibodeaux[5]	Research Farm Specialist 1
Blaise Frey	Research Farm Specialist 2
Colby W. LeJeune[6]	Research Associate Specialist
Madeline C. LeJeune	Research Associate Specialist
Jessica L. Thornton	Research Associate Specialist
Raul Guerra[7]	Research Farm Specialist 2
Jennifer Manangkil	Graduate Assistant
Maria G. Montiel	Graduate Assistant
Weiki Li[8]	Visiting Scholar
Paola Mosquera[9]	Postdoctoral Researcher
Felipe Dalla Lana da Silva, Assistant Professor	**Rice Pathology**
Laura L. Monte	Research Farm Specialist 2
Dylan M. Trahan[10]	Research Farm Specialist 2
Anderson Da Cruz Cerutti[11]	Graduate Assistant
Irish Pabuayon[12], Assistant Professor	**Rice Agronomy/Rotational Crops**
Manoch Kongchum[13], Associate Professor-Research	**Rice Agronomy/Rotational Crops**
Jacob S. Fluitt	Research Associate Coordinator
James P. Leonards	Research Associate Specialist
Bradley Beard	Research Associate Specialist
Matthew J. Breaux[14]	Research Farm Specialist 1

[1] Resigned 09/27/2023
[2] Appointed 11/20/2023
[3] Resigned 07/31/2023
[4] Promoted to Research Farm Specialist 2 – 06/07/2023
[5] Appointed 10/24/203
[6] Resigned 01/10/2023
[7] Resigned 07/10/2023
[8] Resigned 04/14/2023
[9] Resigned 07/04/2023
[10] Appointed 01/09/2023
[11] Appointed 07/01/2023
[12] Resigned 06/30/2023
[13] Appointed 11/15/2023
[15] Promoted to Research Farm Specialist 1 – 06/07/2023

STATION PERSONNEL (Continued)

Brent Theunissen, Research Associate/Coordinator/Manager	**Farm Management**
Brandon J. Frey	Research Farm Manager 1
Jason R. Hartman[15]	Research Farm Specialist 2
Paul A. Miller	Research Farm Specialist 2
Jimmy D. Pellerin	Research Farm Specialist 2
Thomas J. Reed	Research Farm Specialist 2
Mark G. Shirley, Agent	**Crawfish Production and Demonstration**
Todd Fontenot[16]	Extension Crawfish Specialist
Caden S. Benoit[17]	Research Farm Specialist 2
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 Breeding/Biotechnology**
Bradley Beard	Research Associate Specialist
Ida Wenefrida[18], Associate Professor-Research	**Biotechnology**
Roberto Fritsche-Neto, Assistant Professor	**Quantitative Genetics**
Karina Lima Reis Borges[19]	Postdoctoral Researcher
Kajal Gupta[20]	Graduate Assistant
Melina Prado[21]	Graduate Assistant
Dulakshi Mohottiage[22]	Graduate Assistant
Richard E. Zaunbrecher, Research Associate Coordinator	**Foundation Seed Rice**

[15] Promoted to Research Farm Specialist 2 – 06/14/2023
[16] Appointed 04/17/2023
[17] Appointed 02/13/2023
[18] Deceased 03/27/2023
[19] Appointed 08/01/203
[20] Appointed 01/11/2023
[21] Appointed 09/01/2023
[22] Appointed 08/14/2023

LSU AGCENTER CAMPUS PERSONNEL

LSU AgCenter personnel conducting research at H. Rouse Caffey Rice Research Station include the following:

Michael A. Deliberto, Assistant Professor	**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	
Blake E. Wilson, Assistant Professor	**Rice Entomology**
Department of Entomology	
Michael J. Stout	Professor
Christine Gambino	Extension/Research Associate
Tyler R. T. Musgrove	Research Associate
Carlos Wiggins	Research Associate
Tanner Hartley	Graduate Assistant
Jyoti Sharma	Graduate Assistant
L. Connor Webster, Assistant Professor	**Rice Weed Control**
School of Plant, Environmental, and Soil Sciences	
John Williams	Graduate Assistant
Ben Stoker	Graduate Assistant
Maranda Arcement	Graduate Assistant
Wesley Carr	Graduate Assistant

COOPERATING PERSONNEL

Cooperating personnel on research projects at H. Rouse Caffey Rice Research Station include the following:

Steve A. Harrison — **Wheat, Oats, and Coastal Erosion Control**
School of Plant, Environmental, and Soil Sciences
Lousiaina State University Agricultural Center

David Moseley — **Soybeans**
Dean Lee Research and Extension Center
Lousiaina State University Agricultural Center

Anthony Rivera — **Rice Breeding**
University of Puerto Rico Research & Extension Center
Lajas, Puerto Rico

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