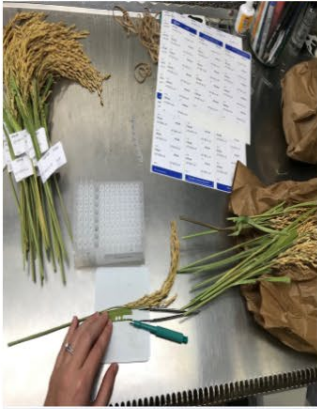


H. Rouse Caffey Rice Research Station

116th Annual Research Report

2024

Crowley, Louisiana



116th Annual Research Report

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

2024

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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 2024 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 2024 are presented in this report representing the 116th 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 2024. 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 2024.

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 2024 are listed.

MONTHLY RAINFALL DATA

H. ROUSE CAFFEY RICE RESEARCH STATION – CROWLEY, LA – 2024

DATE	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEAR TOTALS
1			0.33			0.81			0.09		2.50		3.73
2						0.31							0.31
3	0.60				0.98	0.19	0.10						1.87
4		1.52			1.00			0.03					2.55
5		0.12	0.14			0.72	0.31		1.16		0.02	1.78	4.25
6	1.20		0.95		0.21	0.32	0.70		1.45		0.01		4.84
7									0.56		0.48		1.04
8							0.39					0.41	0.8
9	1.22	0.04	0.56	0.08			0.32					1.70	3.92
10				2.00							0.18	0.69	2.87
11													0
12	0.03						0.15		0.62				0.8
13					0.20						1.85		2.05
14					1.20			0.93			0.27		2.4
15	0.03								0.04				0.07
16	0.03		0.74					0.07					0.84
17		0.08			1.74	0.78							2.6
18			1.22		0.12	0.30	0.17						1.81
19						0.12	2.06				0.50	0.15	2.83
20													0
21				0.27		0.19	0.21						0.67
22	0.02		0.69	0.03			0.04						0.78
23	0.24												0.24
24	1.74						0.12						1.86
25	1.56						1.10						2.66
26	0.18		0.86				1.62	0.05				0.15	2.86
27	1.11						0.38					0.29	1.78
28						0.61							0.61
29				1.78	1.72			0.72				1.22	5.44
30				0.68	0.17			2.51					3.36
31					0.70								0.7
MONTHLY TOTALS													
2024	7.93	1.76	5.49	4.84	8.04	4.35	7.67	4.31	3.92	0	5.81	6.39	54.15
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

RICE BREEDING

GENETIC IMPROVEMENT OF RICE FOR LOUISIANA PRODUCTION¹

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, K.L.R. Borges, J. Punzalan, M.G. Montiel, J. Manangkil, and F. Furlan.

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 2024 rice breeding nursery included more than 28,000 breeding rows. Over 600 new breeding crosses were made, and 20 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 9,400 yield plots. Preliminary Yield testing (PYT) included 2,124 new lines evaluated in 3,990 plots. In 2024, the Regional Yield Test (RYT) consisted of 149 entries in their second year of yield testing. The RYT was conducted over five locations and 1,652 plots. Advanced stages of testing included the Cooperative Uniform Regional Rice Nursery (URRN) and the Advanced Yield Trial (AYT). The URRN contained 40 experimental lines and checks (10 Louisiana entries). The AYT consisted of 67 entries and was tested across eight locations totaling 2,062 plots.

¹This 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 2024 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.

In total, 67 entries and 16 checks 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 3-26 and listed in order of descending yield (lb/A).

Table 1. Planting and harvesting dates for the Advanced Yield Trial in 2024.

Location	Trial	Planting	Harvesting	Table
HRCRRS	AYT-CL-RRS	2/26	7/22	3
	AYT-CN-RRS	2/27	7/22	4
	AYT-PV-RRS	2/27	7/22	5
HRCRRS-Late	AYT-CL-RRSL	4/3	8/5	6
	AYT-CN-RRSL	4/2	8/5	7
	AYT-PV-RRSL	3/28	7/31	8
HRCRRS South Farm	AYT-CL-SF	2/29	7/30	9
	AYT-CN-SF	2/29	7/30	10
	AYT-PV-SF	2/29	7/30	11
Calcasieu (McNeese)	AYT-CL-McN	4/16	8/21	12
	AYT-CN-McN	4/16	8/21	13
Evangeline (Mamou)	AYT-PV-MM	4/5	8/9	14
Franklin (Winnsboro)	AYT-CL-WB	4/4	8/13	15
	AYT-CN-WB	4/4	8/12	16
	AYT-PV-WB	4/4	8/12	17
Tensas (St. Joseph)	AYT-CL-SJ	4/26	9/26	18
	AYT-CN-SJ	4/26	9/24	19
	AYT-PV-SJ	4/26	9/24	20
St. Landry (Palmetto)	AYT-CL-PL	4/4	8/13	21
	AYT-CN-PL	4/4	8/13	22
	AYT-PV-PL	4/4	8/13	23
Vermilion (Lake Arthur)	AYT-CL-LK	4/1	8/8	24
	AYT-CN-LK	4/1	8/7	25
	AYT-PV-LK	4/1	8/7	26

Table 2. Entry number, pedigree, grain type, and source information for entries in the Advanced Yield Trial, 2024.

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	222L1147	RU1801169/RU1902126	HI	LAES
CL	4	202L2141	CL163/CLJ01	HI	LAES
CL	5	RU2102222	CL172/Lakast	LG	LAES
CL	6	RU2102217	CL161//Cocodrie/9770532DH2/3/Cypress/Kaybonnet// RU9502008A/4/Catahoula/5/CL172/6/CL172	LG	LAES
CL	7	RU1902034	Cocodrie/Drew//CLR20/3/Cypress/Kaybonnet//Cocodrie/6/ Katy/Cypress//Newbonnet/Katy/3/Cocodrie/4/CLR9/5/ Cocodrie/Tacauri//CLR5	LG	LAES
CL	8	19T-029-4	182L1278/RU1702183	LG	LAES
CL	9	19T-030-24	182L2195/RU1702183	LG	LAES
CL	10	19T-033-31	CL153/RU1702183	LG	LAES
CL	11	19T-033-35	CL153/RU1702183	LG	LAES
CL	12	19T-033-38	CL153/RU1702183	LG	LAES
CL	13	19T-033-63	CL153/RU1702183	LG	LAES
CL	14	222L1075	CL153/RU1602195	LG	LAES
CL	15	222L1082	171L1786/CL153	LG	LAES
CL	16	222L1161	Diamond/RU1902146	LG	LAES
CL	17	MP6_397	CL111/RoyJ//CL153/Lakast/3/CL153/Lakast//CL172/Cypress	LG	LAES
CL	18	212M1144	RU1902182/Lynx	MG	LAES
CL	19	19T-179-23	RU1902182/Lynx	MG	LAES
CL	20	19T-183-CL-1	RU1902174/RU1801211	MG	LAES
CL	21	222M1096	RU1902174/Lynx	MG	LAES
CL	22	212M1076	RU1702162/RU1702180	MG	LAES
CL	23	19T-183-CL-6	RU1902174/RU1801211	MG	LAES
CL	24	CLJ01	Jazzman/08CLR004//RU0802146/3/RU0802146	AL	LAES
CL	25	CLL19	Wells/CL161//Drew/CL161/3/Cheniere//Cocodrie/Jefferson	LG	LAES
CL	26	CLL18	RoyJ/CL142AR	LG	AAES
CL	27	CL153	RU9502008A//Ahrent/Cocodrie/3/CFX26/RU9702128/4/ Cheniere	LG	LAES
CL	28	CLHA03	CL163/CL153	HI	LAES
CL	29	CLM04	RU1202168/Jupiter	MG	AAES
CL	30	CLM05	Earl/PI350298//Jupiter/RU1501096	MG	AAES
CN	1	211L1331	RU1602195/Della2	AI	LAES
CN	2	19T-238-13	RU1902207/RU1804187	LG	LAES
CN	3	19T-238-62	RU1902207/RU1804187	LG	LAES
CN	4	201L1251	Catahoula/Lakast	LG	LAES
CN	5	211L1008	RU1702183/Avant	LG	LAES
CN	6	211L1032	RU1801169/Avant	LG	LAES
CN	7	211L1056	182L2195/RU2002150	LG	LAES
CN	8	19T-217-39	Catahoula/Avant	LG	LAES
CN	9	19T-218-30	RU1702140/RU1902207	LG	LAES
CN	10	19T-218-43	RU1702140/RU1902207	LG	LAES
CN	11	211L1124	RU1902186/182L2166	LG	LAES
CN	12	221L1002	CL131/Lakast	LG	LAES
CN	13	221L1013	RU1702183/Avant	LG	LAES
CN	14	221L1087	CL153/RU1902207	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CN	15	221L1099	RU1702140/CL111	LG	LAES
CN	16	MP6_295	CL111/RoyJ//CL153/Lakast/3/CL153/Lakast//CL172/Cypress	LG	LAES
CN	17	19T-176- CONV-36	RU1702165/RU1801211	MG	LAES
CL	18	19T-176- CONV-38	RU1702165/RU1801211	MG	LAES
CN	19	RU2102066	Titan/Jupiter	MG	LAES
CN	20	Venus	Titan/Jupiter	MG	LAES
CN	21	19T-176- CONV-6	RU1702165/RU1801211	MG	LAES
CN	22	Taurus	Rico1/Bengal//RU0602162/RU0502031	MG	AAES
CN	23	Jupiter	Bengal/Rico1/3/Bengal//Mercury/Rico1	MG	LAES
CN	24	Avant	Trenasse//Cocodrie/Jefferson/3/Ahrent/Cocodrie//Cocodrie/ LaGrue	LG	LAES
CN	25	Cheniere	Newbonnet/Katy/3/L202/Lemont//L202	HI	LAES
CN	26	Della2	Cypress//L205/Della	AI	LAES
CN	27	Fitzgerald	Jazzman2/Catahoula	AL	LAES
CN	28	DG263L		HI	NAS
PV	1	203L1104	RU1502115/PVL01	LG	LAES
PV	2	213L1041	PVL03/RU1902194	LG	LAES
PV	3	213L1130	PVL01/Catahoula	LG	LAES
PV	4	213L1140	PVL01/Catahoula	HI	LAES
PV	5	RU2102186	PVL01/Catahoula	HI	LAES
PV	6	19T-262-128	Catahoula/PVL03	LG	LAES
PV	7	19T-262-244	Catahoula/PVL03	LG	LAES
PV	8	19T-262-62	Catahoula/PVL03	LG	LAES
PV	9	223L1027	CL111/183L2070	LG	LAES
PV	10	223L1037	RU1902126/PVL01	HI	LAES
PV	11	223L1065	PVL03/Cheniere	HI	LAES
PV	12	223L1139	Diamond/183L2070	LG	LAES
PV	13	223L1213	PVL03/RU1902194	LG	LAES
PV	14	223L1216	PVL03/RU1902194	LG	LAES
PV	15	223L1236	INIA06/PVL03	LG	LAES
PV	16	23DGL- 002PV		LG	NAS
PV	17	23DGL- 007PV-2		LG	NAS
PV	18	23DGL- 015PV-3		LG	NAS
PV	19	23DGL- 017PV-1		LG	NAS
PV	20	23DGL- 024PV-3		LG	NAS
PV	21	23AR2133	Diamond*2/4/RU1601070/RU1201145//HPHI2/3/17SIT556 (RU0801093/Mermentau)/Jewel	LG	AAES
PV	22	23AR2134	Diamond*2/4/RU1601070/RU1201145//HPHI2/3/17SIT556 (RU0801093/Mermentau)/Jewel	LG	AAES
PV	23	23AR2205	RU1901125/3/18SIT0877 (Neptune//RU0502183/Catahoula/3/RU9902028)/HPHI2// Jupiter	MG	AAES
PV	24	PVL03	PVL01/Catahoula	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
PV	25	PVL04	18SIT0557*3/HPHI2	HI	AAES

* Herbicide Type – Clearfield (CL), Conventional (CN), and Provisia (PV).

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

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

Table 3. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial Clearfield. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
19	19T-179-23	3.0	98.3	118.7	61.3	67.5	30.3	11980.6	2970.2
23	19T-183-CL-6	3.0	95.0	103.7	62.1	69.3	31.6	11813.6	2833.2
20	19T-183-CL-1	3.0	97.7	109.0	61.2	67.5	44.3	11590.1	2631.3
3	222L1147	3.0	97.7	103.0	57.0	69.1	27.1	11426.0	2901.1
21	222M1096	3.0	99.0	108.0	66.5	70.0	20.0	11416.7	2722.3
30	CLM05	1.7	98.3	111.3	62.7	67.1	27.2	11298.6	3207.9
18	212M1144	1.7	97.7	122.0	57.1	67.0	32.2	11071.2	2319.2
22	212M1076	2.3	97.3	103.3	64.6	70.5	29.9	11038.3	2563.9
29	CLM04	2.3	97.7	110.3	63.9	68.7	23.1	10915.3	2523.9
15	222L1082	5.0	97.3	105.3	63.1	69.5	21.7	10830.9	3126.0
6	RU2102217	3.0	94.3	98.0	58.7	69.2	39.1	10736.8	3260.2
11	19T-033-35	3.0	98.0	104.0	63.1	69.4	24.5	10673.2	3265.5
10	19T-033-31	4.3	98.3	106.7	63.6	69.9	23.8	10597.0	3266.4
7	RU1902034	3.7	97.0	101.7	59.0	67.9	33.6	10516.1	2865.5
12	19T-033-38	4.3	98.3	107.3	61.8	68.9	25.2	10457.2	2855.2
14	222L1075	3.7	97.3	103.7	63.0	69.5	29.7	10379.2	2715.1
25	CLL19	3.0	95.0	96.7	61.7	69.5	34.6	10373.6	2947.2
27	CL153	3.0	98.0	103.0	65.0	70.3	22.5	10305.7	2994.4
8	19T-029-4	4.3	98.0	104.7	61.4	69.2	23.2	10276.3	3104.9
13	19T-033-63	3.7	98.7	101.3	62.7	69.4	24.1	10199.1	3066.0
17	MP6_397	3.0	97.0	103.3	61.1	69.6	31.9	10174.9	3281.1
5	RU2102222	3.7	97.7	96.7	65.3	71.0	17.6	10074.5	3069.9
9	19T-030-24	3.0	95.7	103.3	64.3	69.9	28.0	10035.7	3538.1
28	CLHA03	3.0	97.0	101.3	61.6	68.7	25.8	9493.9	2844.7
16	222L1161	4.3	97.3	97.0	59.6	67.0	26.7	9278.0	3652.5
2	212L2252	3.7	97.0	97.3	65.8	71.3	16.3	9158.0	3167.7
24	CLJ01	3.7	99.3	101.0	67.4	71.1	9.9	9074.7	3112.0
26	CLL18	3.0	99.7	109.3	54.9	65.8	36.0	8994.4	3031.5
4	202L2141	3.7	100.7	114.7	57.3	67.2	23.0	8720.9	2301.6
1	202L2096	4.3	99.0	119.7	63.6	69.1	16.1	8674.7	2728.6

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

Table 4. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Conventional. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
20	Venus	2.3	94.7	97.3	61.6	68.8	25.9	10426.8	3729.3
18	19T-176-CONV-38	2.3	97.7	103.0	65.4	70.6	20.7	10310.2	3670.5
10	19T-218-43	2.3	98.7	99.0	63.9	71.0	30.1	10269.2	3409.8
3	19T-238-62	3.0	98.0	105.0	63.2	70.4	38.9	10212.4	3524.4
16	MP6_295	3.0	98.0	95.0	58.8	68.7	40.3	10023.6	4024.5
2	19T-238-13	3.7	98.3	102.0	65.9	71.5	37.5	9973.5	3582.1
19	RU2102066	3.7	96.0	92.0	59.9	68.3	34.6	9867.8	2888.7
17	19T-176-CONV-36	1.7	95.7	109.7	59.0	69.5	21.9	9773.3	3802.1
21	19T-176-CONV-6	1.0	98.0	108.0	65.4	70.4	18.0	9694.2	3479.3
13	221L1013	3.0	95.0	90.7	64.8	70.8	21.4	9618.2	3747.7
9	19T-218-30	3.0	98.7	100.7	63.9	71.2	24.7	9469.7	3736.2
12	221L1002	3.0	97.7	100.3	64.3	71.2	33.2	9458.2	3236.8
27	Fitzgerald	3.0	96.3	91.7	66.7	71.6	14.2	9418.6	3165.5
4	201L1251	2.3	99.3	95.7	60.7	69.8	28.1	9356.9	3669.3
14	221L1087	3.0	96.3	97.7	65.4	70.7	30.7	9349.1	3879.2
28	DG263L	4.3	99.3	101.0	56.9	66.4	27.7	9342.0	3141.5
22	Taurus	2.3	95.0	86.7	63.1	70.3	19.1	9335.0	3156.1
8	19T-217-39	3.7	95.0	98.7	67.3	71.6	27.0	9285.7	3680.2
15	221L1099	4.0	96.3	100.3	63.1	70.0	26.3	9229.8	3534.2
11	211L1124	3.0	98.3	108.7	66.8	71.1	27.1	9209.2	3902.7
5	211L1008	3.7	95.0	96.3	65.5	70.8	25.3	9131.8	3772.1
1	211L1331	3.0	102.3	101.7	65.7	69.8	15.2	9124.9	3878.6
7	211L1056	3.0	99.0	97.7	64.9	70.8	26.0	9120.4	3336.0
25	Cheniere	3.0	98.0	95.7	66.5	72.1	17.0	8787.7	3617.8
24	Avant	1.7	92.0	92.0	65.6	71.3	23.7	8760.3	3953.3
6	211L1032	3.0	96.3	97.7	63.8	70.7	25.7	8755.1	3584.7
26	Della2	2.3	99.7	103.0	63.6	68.9	17.5	8562.5	3596.3
23	Jupiter	3.0	99.3	97.0	59.7	66.8	35.0	8399.0	2991.5

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

Table 5. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Provisia. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
23	23AR2205	3.7	99.7	100.0	61.1	68.0	36.4	10438.4	2952.4
13	223L1213	2.3	94.3	104.7	63.5	70.9	37.9	10311.3	3221.6
15	223L1236	1.7	95.0	104.0	58.7	68.8	30.1	10249.2	3268.2
22	23AR2134	3.0	98.0	100.7	59.2	67.4	37.9	9968.1	3653.2
11	223L1065	3.0	96.0	96.3	63.8	71.6	33.1	9915.3	3430.8
24	PVL03	1.7	98.0	99.3	62.8	70.9	29.2	9876.8	3317.3
14	223L1216	2.3	97.0	96.0	65.7	70.9	31.7	9672.3	3562.2
5	RU2102186	2.3	98.0	98.3	62.1	70.7	32.3	9658.2	3426.3
8	19T-262-62	2.3	95.7	99.3	62.0	69.8	28.7	9517.5	3065.6
2	213L1041	3.0	97.0	105.3	64.1	71.2	29.4	9506.9	3449.8
21	23AR2133	2.3	99.3	102.3	63.2	69.8	47.9	9472.3	3724.5
4	213L1140	3.7	99.7	98.0	52.2	68.0	27.8	9420.2	3175.6
7	19T-262-244	2.3	96.7	98.0	65.9	72.1	30.0	9328.1	3436.5
6	19T-262-128	3.7	96.7	97.0	62.8	70.6	31.9	9183.3	3566.2
18	23DGL-015PV-3	4.3	98.7	98.0	62.4	68.9	33.8	9174.1	2778.8
9	223L1027	3.0	97.3	98.7	65.9	71.6	30.4	9156.6	3275.7
12	223L1139	3.0	101.0	98.0	65.4	70.5	28.1	9122.2	3689.3
16	23DGL-002PV	3.0	103.0	91.3	61.3	67.7	34.4	9084.9	2574.8
20	23DGL-024PV-3	5.0	106.0	97.0	63.6	68.4	28.6	8990.2	2260.4
3	213L1130	2.3	97.3	101.0	62.5	70.0	28.0	8932.3	3228.8
25	PVL04	3.0	104.3	101.0	63.4	69.2	31.7	8763.3	3798.3
19	23DGL-017PV-1	3.7	101.0	94.0	59.7	67.6	36.6	8708.9	2637.0
17	23DGL-007PV-2	4.3	104.0	94.7	64.5	69.2	25.9	8699.5	2518.8
1	203L1104	4.3	106.7	92.3	65.9	70.4	24.5	8351.9	3593.5
10	223L1037	3.7	106.3	93.0	61.4	68.7	20.7	7704.7	2516.6

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

Table 6. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Clearfield. H. Rouse Caffey Rice Research Station, Rayne, LA – Late Planting.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
19	19T-179-23	-	78.7	107.7	61.0	67.5	22.0	10758.1	5286.6
26	CLL18	-	75.0	108.3	55.8	68.1	21.1	10141.8	3312.7
30	CLM05	-	78.0	98.0	54.9	66.5	19.9	10100.1	3263.3
21	222M1096	-	79.7	100.7	62.3	68.7	17.5	10027.1	6714.9
23	19T-183-CL-6	-	74.0	100.7	59.5	68.3	24.7	9806.3	5107.6
18	212M1144	-	77.7	107.7	59.5	68.1	22.5	9546.2	3702.8
16	222L1161	-	71.3	94.3	57.2	68.6	18.5	9391.7	4600.1
20	19T-183-CL-1	-	76.3	107.3	60.5	67.0	27.9	9379.7	5069.4
3	222L1147	-	75.0	101.0	60.6	70.3	15.1	9324.5	3572.8
29	CLM04	-	78.0	107.0	59.9	67.4	19.6	9219.7	2957.0
17	MP6_397	-	72.7	93.7	58.1	70.0	17.4	9181.8	4246.8
9	19T-030-24	-	72.0	101.7	55.0	65.9	13.8	9181.6	4467.3
6	RU2102217	-	69.7	90.3	50.2	68.3	30.3	9172.0	5258.4
22	212M1076	-	76.3	98.3	63.2	70.8	25.1	9044.8	4035.8
13	19T-033-63	-	74.0	97.0	61.0	70.1	19.8	9012.1	4405.5
5	RU2102222	-	73.3	90.3	61.8	73.3	17.5	8727.8	6385.9
15	222L1082	-	72.3	107.7	61.1	69.9	11.6	8675.9	4818.2
25	CLL19	-	69.0	94.7	52.5	68.4	22.4	8645.7	3358.5
7	RU1902034	-	72.7	96.7	56.2	68.4	24.2	8586.1	4195.1
8	19T-029-4	-	73.7	99.7	58.8	68.1	17.5	8582.0	5129.5
27	CL153	-	74.0	97.3	60.7	68.7	14.5	8569.2	4664.4
10	19T-033-31	-	74.3	102.0	56.3	68.8	19.9	8507.0	4411.6
2	212L2252	-	71.3	94.3	58.9	69.4	15.1	8407.3	4770.8
14	222L1075	-	74.3	105.0	61.8	70.2	17.9	8375.0	4725.3
12	19T-033-38	-	73.3	98.0	55.8	67.7	18.0	8260.5	3457.1
28	CLHA03	-	74.0	97.7	61.8	69.3	15.0	8259.7	4308.1
11	19T-033-35	-	74.3	100.7	59.5	69.0	16.5	8230.3	4380.7
1	202L2096	-	77.3	109.7	59.0	68.9	15.3	8078.3	4085.9
4	202L2141	-	79.0	103.7	58.0	68.0	16.3	7204.9	2893.3
24	CLJ01	-	75.7	98.7	63.2	70.1	12.6	6269.1	4466.8

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 7. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Conventional. H. Rouse Caffey Rice Research Station, Rayne, LA – Late Planting.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
18	19T-176-CONV-38	-	76.7	106.7	58.1	70.0	17.4	11182.9	5814.8
22	Taurus	-	73.0	92.3	54.0	70.2	17.0	11056.6	5325.6
19	RU2102066	-	73.7	94.7	61.2	69.1	21.5	10717.6	4548.9
20	Venus	-	73.0	107.3	59.7	69.0	19.1	10638.0	5290.6
17	19T-176-CONV-36	-	76.3	114.7	50.7	68.6	18.3	10499.0	5897.2
28	DG263L	-	71.3	99.3	55.3	67.0	21.4	10299.9	3254.6
5	211L1008	-	67.7	100.3	60.2	70.5	20.8	10198.1	5206.6
3	19T-238-62	-	72.7	109.0	58.6	70.9	29.6	10092.6	5205.2
24	Avant	-	66.3	100.7	61.1	71.1	22.2	10017.8	5489.5
14	221L1087	-	71.0	87.0	61.5	70.9	25.1	10017.2	5854.0
23	Jupiter	-	78.3	96.7	60.3	68.5	18.4	9988.7	4276.8
8	19T-217-39	-	67.0	101.0	55.3	70.4	25.7	9877.4	5709.7
11	211L1124	-	70.3	109.7	64.0	71.3	20.0	9691.1	6840.6
6	211L1032	-	70.3	98.7	61.2	70.9	21.3	9677.3	5996.9
7	211L1056	-	71.7	98.7	59.8	71.2	20.8	9644.7	5339.8
12	221L1002	-	72.3	104.7	61.0	71.1	26.4	9606.0	5147.8
16	MP6_295	-	72.3	96.7	55.1	70.2	27.8	9591.6	5696.6
4	201L1251	-	75.0	98.7	57.6	70.7	20.1	9543.0	5283.5
21	19T-176-CONV-6	-	78.3	114.0	57.7	69.3	17.4	9366.9	5048.1
13	221L1013	-	68.3	95.0	57.9	70.7	21.6	9351.3	5017.5
15	221L1099	-	69.7	106.0	56.5	68.6	17.7	9246.5	5383.7
2	19T-238-13	-	73.3	108.3	62.9	71.5	24.0	9205.8	6163.8
10	19T-218-43	-	72.7	101.0	63.5	71.5	18.6	9176.9	4688.3
27	Fitzgerald	-	70.3	95.0	61.8	71.0	12.2	8877.4	4021.9
1	211L1331	-	77.7	102.7	58.5	69.8	14.4	8869.3	6315.7
9	19T-218-30	-	71.7	98.7	62.0	71.0	17.3	8729.0	5125.2
26	Della2	-	76.0	105.3	59.9	69.2	13.0	8266.8	5312.7
25	Cheniere	-	74.0	99.0	63.9	72.2	8.5	7574.3	5495.6

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 8. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Provisia. H. Rouse Caffey Rice Research Station, Rayne, LA – Late Planting.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
4	213L1140	2.3	78.3	103.3	59.5	71.1	24.7	10430.2	2106.9
22	23AR2134	3.0	77.3	106.7	63.2	70.9	31.6	10290.2	4264.1
21	23AR2133	3.0	78.7	106.0	63.3	71.1	36.3	10139.5	3777.1
23	23AR2205	3.0	81.0	105.7	64.6	71.3	30.9	9968.9	2770.1
13	223L1213	1.0	71.0	109.3	66.0	72.8	32.6	9690.3	2661.2
2	213L1041	1.0	74.7	105.0	66.9	73.6	22.8	9561.9	3357.5
16	23DGL-002PV	3.0	80.3	99.7	64.6	70.4	29.5	9415.0	1396.5
17	23DGL-007PV-2	1.7	79.7	100.7	66.2	71.4	23.6	9286.5	2350.2
20	23DGL-024PV-3	1.7	81.0	100.3	64.9	70.6	28.1	9249.5	2532.0
14	223L1216	2.3	74.0	99.3	67.6	72.8	24.4	9176.8	3168.8
12	223L1139	3.7	79.3	101.0	68.5	72.6	24.0	9062.1	3836.2
15	223L1236	5.0	74.0	105.7	61.1	70.3	22.5	9031.0	3139.1
18	23DGL-015PV-3	2.3	76.0	103.0	64.4	71.2	32.1	9002.5	2351.9
25	PVL04	3.0	80.7	104.0	66.3	72.6	25.5	8934.5	2996.6
3	213L1130	3.0	78.3	103.7	65.0	71.6	23.2	8922.7	3588.0
6	19T-262-128	3.7	76.0	98.0	64.7	71.7	23.7	8913.0	3515.3
19	23DGL-017PV-1	2.3	77.7	93.7	62.8	69.9	32.9	8838.2	1873.1
11	223L1065	4.3	75.3	99.7	65.4	72.7	27.0	8798.9	2372.3
8	19T-262-62	3.7	74.7	101.0	66.1	72.4	23.1	8788.9	3278.4
24	PVL03	1.7	77.3	106.0	64.5	72.4	24.6	8782.8	3234.6
7	19T-262-244	3.0	75.7	94.7	63.0	71.4	24.1	8628.5	3004.2
5	RU2102186	3.0	77.7	103.3	66.0	72.6	25.3	8624.7	2507.6
1	203L1104	4.3	83.0	101.7	69.5	73.4	21.4	8523.3	3435.2
9	223L1027	2.3	72.0	96.7	65.3	72.6	26.3	8503.2	2923.8
10	223L1037	3.0	83.7	97.7	66.3	71.8	17.1	7779.0	2307.1

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

Table 9. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Clearfield. H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
26	CLL18	1.0	91.3	108.3	54.0	67.0	33.8	13481.2	4041.5
29	CLM04	1.0	93.0	110.7	63.7	68.8	21.2	11611.5	3219.8
30	CLM05	1.7	91.3	107.3	59.8	66.7	21.3	11607.3	3909.6
5	RU2102222	3.0	89.7	96.3	60.6	69.9	17.4	10737.4	3896.5
15	222L1082	3.0	88.0	108.3	59.6	68.2	15.7	10644.2	2759.8
16	222L1161	3.0	87.7	100.3	56.9	68.3	23.4	10484.5	3033.5
8	19T-029-4	3.0	88.0	103.7	59.0	69.1	17.2	10186.6	4519.0
6	RU2102217	2.3	86.7	97.0	49.9	68.0	32.6	10030.3	4079.9
3	222L1147	3.0	89.7	103.7	52.4	68.8	19.7	9917.9	3710.9
19	19T-179-23	2.3	93.7	113.0	60.0	67.8	27.4	9863.8	3836.8
21	222M1096	3.0	95.0	101.0	64.2	68.4	17.0	9820.2	3501.0
4	202L2141	3.0	94.7	107.7	54.7	67.8	25.1	9734.9	3525.2
23	19T-183-CL-6	2.3	88.0	103.0	59.1	68.2	27.3	9706.7	2958.4
20	19T-183-CL-1	3.0	92.7	108.7	58.4	66.7	35.4	9619.3	2750.7
12	19T-033-38	3.0	89.3	109.3	59.5	68.0	18.4	9616.2	3188.6
22	212M1076	1.7	92.0	105.0	62.6	69.0	21.7	9524.7	2729.5
28	CLHA03	3.0	90.7	99.7	61.7	68.9	20.1	9363.1	3071.2
17	MP6_397	3.0	88.0	95.0	59.0	69.3	19.1	9315.2	2966.2
11	19T-033-35	3.0	89.3	104.0	59.8	68.6	17.3	9279.0	3194.8
27	CL153	3.0	90.0	102.7	62.3	69.4	17.4	8998.7	2664.5
13	19T-033-63	3.0	89.3	102.7	59.3	68.6	19.9	8804.3	3794.6
9	19T-030-24	3.0	87.0	100.3	58.8	68.2	21.9	8771.2	3004.6
25	CLL19	3.0	87.3	99.7	56.0	67.4	27.2	8631.9	3186.9
10	19T-033-31	3.0	89.7	104.3	58.6	68.2	17.5	8631.4	3516.0
14	222L1075	2.3	89.0	108.3	58.8	69.0	22.2	8467.1	2697.3
2	212L2252	3.0	87.7	99.0	62.6	70.1	10.1	8448.6	2055.4
7	RU1902034	3.0	87.3	100.0	54.0	66.8	26.1	8401.9	3368.3
24	CLJ01	2.3	94.7	102.3	67.0	71.0	8.8	7972.3	2850.5
18	212M1144	1.0	92.0	109.7	55.8	67.6	26.0	7385.4	3048.5
1	202L2096	3.0	93.0	107.7	54.9	66.8	12.8	6516.9	3740.6

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

Table 10. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial Conventional. H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
22	Taurus	1.7	90.0	97.3	64.3	69.4	21.2	11523.4	3457.2
9	19T-218-30	3.0	88.7	106.3	59.3	68.5	26.2	11023.7	2789.0
19	RU2102066	3.0	89.7	94.0	65.2	68.6	25.8	10775.6	3590.3
3	19T-238-62	3.0	90.3	111.7	61.4	69.7	30.6	10774.3	3501.3
18	19T-176-CONV-38	2.3	92.3	107.3	63.2	68.8	20.9	10694.6	2624.1
20	Venus	3.0	88.7	98.7	64.2	68.3	24.6	10640.6	4000.8
12	221L1002	3.0	88.3	112.3	59.2	68.2	25.5	10554.3	2659.4
23	Jupiter	3.0	93.7	94.0	62.5	67.8	27.3	10547.8	3494.5
10	19T-218-43	3.0	90.0	105.7	61.2	69.0	22.0	10530.0	2734.4
17	19T-176-CONV-36	2.3	92.3	116.0	62.8	68.3	18.7	10251.4	2747.9
2	19T-238-13	3.0	88.7	99.7	62.2	69.8	30.5	10203.2	3280.2
4	201L1251	3.0	92.0	101.0	57.4	68.7	25.6	10020.5	3677.4
21	19T-176-CONV-6	1.7	92.7	111.7	64.2	68.8	15.9	10000.2	2118.4
7	211L1056	3.0	86.7	100.7	58.2	68.5	22.4	9969.9	3527.4
16	MP6_295	3.0	89.3	102.0	52.6	67.0	25.6	9798.8	3859.7
15	221L1099	3.0	87.3	102.7	61.2	68.4	24.3	9679.3	3169.1
14	221L1087	3.0	87.7	102.0	60.9	68.6	25.5	9656.9	2881.1
13	221L1013	3.0	86.0	101.7	60.2	69.0	20.4	9630.5	2864.6
25	Cheniere	3.0	90.7	102.3	59.6	68.5	18.3	9589.1	2863.2
6	211L1032	3.0	87.0	104.0	61.2	67.7	22.3	9563.8	3319.7
11	211L1124	3.0	88.7	114.0	61.9	68.6	22.3	9555.9	2927.7
5	211L1008	3.0	85.3	104.0	62.0	68.8	20.7	9541.7	3502.6
24	Avant	3.0	84.3	95.7	62.4	69.3	22.9	9470.6	2890.6
8	19T-217-39	3.0	84.3	101.3	62.1	69.2	18.7	9373.6	2449.3
27	Fitzgerald	3.0	87.3	97.7	63.1	69.4	13.4	9332.3	2062.1
28	DG263L	3.0	90.0	104.3	59.0	67.4	26.0	9290.4	4045.6
1	211L1331	3.0	94.3	106.3	60.5	67.9	19.9	9015.3	4215.1
26	Della2	3.0	94.3	104.3	61.6	67.9	20.2	8482.2	2737.7

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

Table 11. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Provisia. H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
22	23AR2134	2.3	91.0	104.0	53.4	67.1	28.7	11060.3	4356.6
23	23AR2205	3.0	94.7	107.0	63.5	68.5	30.7	10846.6	3603.8
17	23DGL-007PV-2	3.0	94.7	102.0	60.6	68.9	21.4	10802.3	3805.5
21	23AR2133	3.0	91.7	103.0	55.7	68.0	33.1	10792.2	4344.6
4	213L1140	2.3	92.7	101.3	54.1	68.8	21.4	10561.5	3160.3
20	23DGL-024PV-3	3.0	95.0	101.0	58.5	67.5	26.1	10156.2	3181.3
12	223L1139	2.3	93.7	105.0	60.2	68.8	23.1	10085.9	3578.5
11	223L1065	3.0	89.0	100.7	60.9	70.2	24.0	10058.3	2225.7
9	223L1027	2.3	87.7	103.0	59.9	69.7	13.1	9956.9	2409.2
15	223L1236	2.3	87.3	107.7	57.0	68.5	15.7	9901.5	2285.4
14	223L1216	2.3	88.3	98.7	61.8	69.8	18.2	9866.8	2442.5
19	23DGL-017PV-1	1.7	94.3	96.7	57.1	67.3	28.5	9865.1	2398.3
16	23DGL-002PV	3.0	95.0	98.7	57.8	67.2	30.6	9812.3	2314.6
5	RU2102186	1.0	92.3	104.0	56.9	68.8	23.6	9734.9	2279.1
25	PVL04	3.0	94.3	105.3	57.8	68.1	23.6	9718.6	3155.1
3	213L1130	2.3	91.7	101.7	58.1	68.3	21.0	9710.2	2743.0
24	PVL03	1.0	90.3	105.0	58.8	69.3	18.0	9494.8	2781.0
2	213L1041	1.0	89.7	111.3	58.7	67.9	19.6	9472.3	2267.5
18	23DGL-015PV-3	2.3	93.3	103.0	57.1	68.3	24.1	9333.1	3108.0
13	223L1213	1.0	86.0	106.0	58.2	69.0	24.0	9300.8	2253.6
7	19T-262-244	1.7	89.0	100.7	60.7	69.7	15.0	9297.1	1992.0
6	19T-262-128	3.0	89.0	101.0	60.8	69.2	14.5	9281.6	2257.3
8	19T-262-62	1.7	88.0	107.3	59.8	69.3	15.1	9232.4	1854.7
1	203L1104	3.0	95.0	94.0	60.1	68.3	23.9	9192.6	3395.7
10	223L1037	3.7	94.3	95.0	56.8	67.0	23.5	8864.4	2920.3

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

Table 12. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Clearfield. McNeese State University, Calcasieu Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
12	19T-033-38	-	-	102.3	60.0	69.4	21.3	8160.8	-
13	19T-033-63	-	-	103.0	60.0	69.6	20.1	7762.8	-
5	RU2102222	-	-	100.3	62.9	70.8	18.0	7727.5	-
16	222L1161	-	-	102.3	51.7	64.8	27.1	7706.6	-
8	19T-029-4	-	-	114.0	58.0	68.2	16.6	7670.2	-
21	222M1096	-	-	100.0	57.9	65.9	14.5	7636.3	-
30	CLM05	-	-	99.3	54.0	64.5	22.9	7577.5	-
29	CLM04	-	-	98.7	59.7	66.6	19.0	7544.9	-
7	RU1902034	-	-	105.0	60.7	69.6	27.4	7543.2	-
15	222L1082	-	-	112.0	57.5	68.7	15.9	7502.8	-
27	CL153	-	-	110.3	61.0	69.7	16.6	7399.6	-
14	222L1075	-	-	110.0	61.0	69.5	22.0	7383.0	-
22	212M1076	-	-	99.0	57.4	69.0	23.0	7342.4	-
11	19T-033-35	-	-	108.0	55.8	66.1	19.7	7336.9	-
19	19T-179-23	-	-	104.3	58.6	66.2	28.8	7330.6	-
20	19T-183-CL-1	-	-	101.3	58.0	66.6	30.9	7325.2	-
10	19T-033-31	-	-	107.0	59.0	68.8	20.5	7291.3	-
23	19T-183-CL-6	-	-	101.0	56.4	67.5	23.7	7256.6	-
6	RU2102217	-	-	94.7	46.1	66.8	28.9	7134.0	-
25	CLL19	-	-	101.3	57.1	68.4	25.8	7124.5	-
26	CLL18	-	-	107.0	52.2	66.2	31.3	7065.8	-
9	19T-030-24	-	-	108.0	58.9	69.0	21.2	6997.6	-
18	212M1144	-	-	102.7	56.8	66.3	21.0	6923.3	-
17	MP6_397	-	-	101.0	54.2	68.4	18.7	6871.8	-
3	222L1147	-	-	103.3	51.6	68.1	16.6	6827.0	-
24	CLJ01	-	-	105.3	62.6	70.6	6.8	6641.5	-
2	212L2252	-	-	104.3	56.1	68.5	12.1	6622.9	-
28	CLHA03	-	-	102.3	57.2	68.6	22.3	6207.5	-
1	202L2096	-	-	108.3	58.1	68.7	17.0	5622.9	-
4	202L2141	-	-	107.7	50.1	66.5	26.5	5462.7	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 13. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Conventional. McNeese State University, Calcasieu Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
17	19T-176-CONV-36	-	-	117.3	56.5	68.5	26.0	8075.8	-
18	19T-176-CONV-38	-	-	104.7	59.4	67.8	20.8	8020.9	-
21	19T-176-CONV-6	-	-	116.7	58.5	67.6	19.2	7567.7	-
12	221L1002	-	-	111.3	57.9	70.0	24.8	7351.7	-
16	MP6_295	-	-	98.0	55.3	68.0	23.3	7325.5	-
14	221L1087	-	-	98.3	61.2	71.1	29.1	7271.0	-
9	19T-218-30	-	-	105.0	62.7	71.8	26.1	7249.4	-
2	19T-238-13	-	-	108.0	58.2	69.5	34.9	7079.2	-
6	211L1032	-	-	104.7	62.0	69.8	28.9	7062.6	-
13	221L1013	-	-	107.0	62.6	71.6	22.2	7060.5	-
20	Venus	-	-	99.3	56.1	66.8	21.4	6984.7	-
11	211L1124	-	-	120.3	61.9	70.1	29.3	6843.6	-
22	Taurus	-	-	92.3	48.8	69.3	24.9	6811.0	-
4	201L1251	-	-	103.3	53.5	67.9	27.9	6767.7	-
15	221L1099	-	-	107.0	53.6	67.5	23.2	6715.5	-
3	19T-238-62	-	-	116.3	56.3	68.6	30.4	6644.1	-
10	19T-218-43	-	-	108.7	59.8	70.6	20.2	6609.5	-
19	RU2102066	-	-	91.3	61.3	67.9	24.5	6561.1	-
1	211L1331	-	-	108.0	59.5	69.1	19.9	6501.2	-
24	Avant	-	-	101.0	62.0	70.7	22.9	6320.0	-
28	DG263L	-	-	97.7	46.3	65.9	28.9	6253.8	-
7	211L1056	-	-	102.3	57.6	70.0	24.7	6239.2	-
8	19T-217-39	-	-	102.7	59.9	70.9	18.9	6215.8	-
5	211L1008	-	-	104.0	63.3	70.8	23.1	6215.7	-
25	Cheniere	-	-	99.3	65.5	73.3	13.3	5934.1	-
23	Jupiter	-	-	89.0	58.9	67.3	29.2	5840.1	-
26	Della2	-	-	108.3	51.2	65.2	17.4	5746.3	-
27	Fitzgerald	-	-	101.7	59.8	71.4	10.0	5427.0	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 14. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Provisia. Mamou, Evangeline Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
17	23DGL-007PV-2	-	-	99.7	59.5	71.1	16.0	10768.5	-
19	23DGL-017PV-1	-	-	95.7	54.4	69.2	22.8	10399.0	-
22	23AR2134	-	-	104.7	48.9	69.5	26.0	10379.7	-
18	23DGL-015PV-3	-	-	102.7	52.4	70.1	23.4	10254.6	-
21	23AR2133	-	-	102.0	49.6	69.7	29.6	10225.4	-
16	23DGL-002PV	-	-	98.0	57.9	69.8	20.2	10115.6	-
23	23AR2205	-	-	99.3	61.0	70.1	22.7	9912.1	-
25	PVL04	-	-	105.3	59.6	70.0	12.2	9832.1	-
15	223L1236	-	-	103.3	41.0	70.2	22.1	9703.7	-
20	23DGL-024PV-3	-	-	100.0	58.8	70.5	16.1	9646.9	-
4	213L1140	-	-	97.7	49.2	69.2	18.5	9556.0	-
12	223L1139	-	-	99.7	55.7	70.3	18.0	9303.8	-
13	223L1213	-	-	106.0	49.4	70.4	31.5	9269.6	-
1	203L1104	-	-	97.3	62.1	71.1	14.8	9247.9	-
9	223L1027	-	-	94.0	38.8	70.0	21.5	9225.6	-
14	223L1216	-	-	94.0	57.9	71.1	19.3	9061.2	-
2	213L1041	-	-	102.3	53.1	70.9	18.6	8798.2	-
3	213L1130	-	-	97.0	52.9	69.9	17.6	8718.0	-
24	PVL03	-	-	103.0	52.7	70.6	14.6	8654.3	-
5	RU2102186	-	-	98.7	53.7	69.1	17.6	8328.9	-
11	223L1065	-	-	94.7	51.1	70.5	19.0	8310.1	-
7	19T-262-244	-	-	99.0	47.8	70.7	16.3	8298.2	-
6	19T-262-128	-	-	95.0	46.3	70.2	16.9	8151.7	-
10	223L1037	-	-	93.3	60.6	70.0	11.6	7843.8	-
8	19T-262-62	-	-	96.3	45.6	70.1	18.3	7784.3	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 15. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Clearfield. Winnsboro, Franklin Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
20	19T-183-CL-1	-	-	-	-	-	-	8883.5	-
23	19T-183-CL-6	-	-	-	-	-	-	8716.3	-
12	19T-033-38	-	-	-	-	-	-	8675.9	-
21	222M1096	-	-	-	-	-	-	8585.8	-
6	RU2102217	-	-	-	-	-	-	8331.4	-
5	RU2102222	-	-	-	-	-	-	8316.7	-
26	CLL18	-	-	-	-	-	-	8305.3	-
3	222L1147	-	-	-	-	-	-	8305.0	-
25	CLL19	-	-	-	-	-	-	8200.7	-
15	222L1082	-	-	-	-	-	-	8091.4	-
19	19T-179-23	-	-	-	-	-	-	8044.8	-
22	212M1076	-	-	-	-	-	-	8016.3	-
17	MP6_397	-	-	-	-	-	-	8011.1	-
30	CLM05	-	-	-	-	-	-	7971.5	-
10	19T-033-31	-	-	-	-	-	-	7912.8	-
18	212M1144	-	-	-	-	-	-	7911.5	-
13	19T-033-63	-	-	-	-	-	-	7894.3	-
11	19T-033-35	-	-	-	-	-	-	7869.9	-
9	19T-030-24	-	-	-	-	-	-	7811.1	-
16	222L1161	-	-	-	-	-	-	7783.7	-
8	19T-029-4	-	-	-	-	-	-	7662.3	-
7	RU1902034	-	-	-	-	-	-	7482.6	-
29	CLM04	-	-	-	-	-	-	7371.1	-
1	202L2096	-	-	-	-	-	-	7311.4	-
28	CLHA03	-	-	-	-	-	-	6922.7	-
27	CL153	-	-	-	-	-	-	6862.3	-
14	222L1075	-	-	-	-	-	-	6665.7	-
2	212L2252	-	-	-	-	-	-	6592.1	-
4	202L2141	-	-	-	-	-	-	5979.1	-
24	CLJ01	-	-	-	-	-	-	5392.7	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 16. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Conventional. Winnsboro, Franklin Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
18	19T-176-CONV-38	-	-	-	-	-	-	9357.2	-
17	19T-176-CONV-36	-	-	-	-	-	-	9316.1	-
22	Taurus	-	-	-	-	-	-	9179.8	-
20	Venus	-	-	-	-	-	-	9177.5	-
28	DG263L	-	-	-	-	-	-	9010.5	-
21	19T-176-CONV-6	-	-	-	-	-	-	8871.9	-
4	201L1251	-	-	-	-	-	-	8753.8	-
2	19T-238-13	-	-	-	-	-	-	8688.7	-
16	MP6_295	-	-	-	-	-	-	8637.8	-
6	211L1032	-	-	-	-	-	-	8393.7	-
12	221L1002	-	-	-	-	-	-	8235.7	-
13	221L1013	-	-	-	-	-	-	8171.0	-
5	211L1008	-	-	-	-	-	-	8108.4	-
7	211L1056	-	-	-	-	-	-	8062.6	-
8	19T-217-39	-	-	-	-	-	-	7989.9	-
24	Avant	-	-	-	-	-	-	7960.6	-
15	221L1099	-	-	-	-	-	-	7919.8	-
25	Cheniere	-	-	-	-	-	-	7842.4	-
19	RU2102066	-	-	-	-	-	-	7814.8	-
9	19T-218-30	-	-	-	-	-	-	7803.9	-
3	19T-238-62	-	-	-	-	-	-	7548.7	-
10	19T-218-43	-	-	-	-	-	-	7483.6	-
26	Della2	-	-	-	-	-	-	7087.9	-
11	211L1124	-	-	-	-	-	-	7039.8	-
1	211L1331	-	-	-	-	-	-	7032.1	-
14	221L1087	-	-	-	-	-	-	6975.0	-
27	Fitzgerald	-	-	-	-	-	-	6899.1	-
23	Jupiter	-	-	-	-	-	-	6689.5	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 17. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Provisia. Winnsboro, Franklin Parish, LA.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
22	23AR2134	-	-	-	-	-	-	8562.4	-
5	RU2102186	-	-	-	-	-	-	8298.2	-
21	23AR2133	-	-	-	-	-	-	8183.1	-
17	23DGL-007PV-2	-	-	-	-	-	-	8130.8	-
11	223L1065	-	-	-	-	-	-	7980.2	-
6	19T-262-128	-	-	-	-	-	-	7962.7	-
4	213L1140	-	-	-	-	-	-	7913.0	-
12	223L1139	-	-	-	-	-	-	7888.0	-
7	19T-262-244	-	-	-	-	-	-	7852.4	-
14	223L1216	-	-	-	-	-	-	7758.4	-
24	PVL03	-	-	-	-	-	-	7711.2	-
8	19T-262-62	-	-	-	-	-	-	7672.5	-
9	223L1027	-	-	-	-	-	-	7643.2	-
18	23DGL-015PV-3	-	-	-	-	-	-	7565.8	-
3	213L1130	-	-	-	-	-	-	7556.7	-
16	23DGL-002PV	-	-	-	-	-	-	7396.2	-
13	223L1213	-	-	-	-	-	-	7357.0	-
19	23DGL-017PV-1	-	-	-	-	-	-	7262.8	-
20	23DGL-024PV-3	-	-	-	-	-	-	7202.1	-
23	23AR2205	-	-	-	-	-	-	6504.6	-
15	223L1236	-	-	-	-	-	-	6357.1	-
10	223L1037	-	-	-	-	-	-	6219.8	-
1	203L1104	-	-	-	-	-	-	5963.1	-
2	213L1041	-	-	-	-	-	-	4614.2	-
25	PVL04	-	-	-	-	-	-	788.7	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 18. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Clearfield. St. Joseph, Tensas Parish, LA.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
21	222M1096	-	-	-	-	-	-	7374.4	-
15	222L1082	-	-	-	-	-	-	6812.4	-
30	CLM05	-	-	-	-	-	-	6538.5	-
5	RU2102222	-	-	-	-	-	-	6512.4	-
13	19T-033-63	-	-	-	-	-	-	6315.4	-
16	222L1161	-	-	-	-	-	-	6184.2	-
22	212M1076	-	-	-	-	-	-	6044.1	-
8	19T-029-4	-	-	-	-	-	-	6044.0	-
12	19T-033-38	-	-	-	-	-	-	5910.7	-
11	19T-033-35	-	-	-	-	-	-	5775.3	-
23	19T-183-CL-6	-	-	-	-	-	-	5602.4	-
4	202L2141	-	-	-	-	-	-	5582.8	-
27	CL153	-	-	-	-	-	-	5411.2	-
28	CLHA03	-	-	-	-	-	-	5232.3	-
26	CLL18	-	-	-	-	-	-	5161.8	-
14	222L1075	-	-	-	-	-	-	5040.8	-
10	19T-033-31	-	-	-	-	-	-	4866.2	-
9	19T-030-24	-	-	-	-	-	-	4757.3	-
7	RU1902034	-	-	-	-	-	-	4562.2	-
24	CLJ01	-	-	-	-	-	-	4423.8	-
29	CLM04	-	-	-	-	-	-	4292.7	-
25	CLL19	-	-	-	-	-	-	4128.7	-
19	19T-179-23	-	-	-	-	-	-	4078.0	-
6	RU2102217	-	-	-	-	-	-	3993.9	-
3	222L1147	-	-	-	-	-	-	3732.3	-
2	212L2252	-	-	-	-	-	-	3619.7	-
17	MP6_397	-	-	-	-	-	-	3337.5	-
21	222M1096	-	-	-	-	-	-	7374.4	-
15	222L1082	-	-	-	-	-	-	6812.4	-
30	CLM05	-	-	-	-	-	-	6538.5	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 19. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Conventional. St. Joseph, Tensas Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
28	DG263L	-	-	-	-	-	-	8364.1	-
14	221L1087	-	-	-	-	-	-	7733.7	-
16	MP6_295	-	-	-	-	-	-	6952.4	-
4	201L1251	-	-	-	-	-	-	6902.4	-
1	211L1331	-	-	-	-	-	-	6865.8	-
17	19T-176-CONV-36	-	-	-	-	-	-	6854.9	-
18	19T-176-CONV-38	-	-	-	-	-	-	6785.4	-
13	221L1013	-	-	-	-	-	-	6563.9	-
11	211L1124	-	-	-	-	-	-	6466.0	-
3	19T-238-62	-	-	-	-	-	-	6053.0	-
25	Cheniere	-	-	-	-	-	-	5991.3	-
26	Della2	-	-	-	-	-	-	5945.5	-
20	Venus	-	-	-	-	-	-	5859.8	-
6	211L1032	-	-	-	-	-	-	5796.1	-
23	Jupiter	-	-	-	-	-	-	5794.9	-
9	19T-218-30	-	-	-	-	-	-	5598.8	-
8	19T-217-39	-	-	-	-	-	-	5572.1	-
19	RU2102066	-	-	-	-	-	-	5472.3	-
15	221L1099	-	-	-	-	-	-	5380.2	-
2	19T-238-13	-	-	-	-	-	-	5127.7	-
21	19T-176-CONV-6	-	-	-	-	-	-	5033.6	-
5	211L1008	-	-	-	-	-	-	4929.3	-
24	Avant	-	-	-	-	-	-	4635.8	-
12	221L1002	-	-	-	-	-	-	4624.0	-
27	Fitzgerald	-	-	-	-	-	-	4552.7	-
7	211L1056	-	-	-	-	-	-	4504.8	-
10	19T-218-43	-	-	-	-	-	-	3710.2	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 20. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Provisia, St. Joseph, Tensas Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
11	223L1065	-	-	-	-	-	-	8729.2	-
22	23AR2134	-	-	-	-	-	-	8528.9	-
25	PVL04	-	-	-	-	-	-	8269.7	-
1	203L1104	-	-	-	-	-	-	8105.5	-
23	23AR2205	-	-	-	-	-	-	7905.6	-
17	23DGL-007PV-2	-	-	-	-	-	-	7275.0	-
18	23DGL-015PV-3	-	-	-	-	-	-	7083.3	-
9	223L1027	-	-	-	-	-	-	6786.8	-
10	223L1037	-	-	-	-	-	-	6619.4	-
12	223L1139	-	-	-	-	-	-	6445.6	-
21	23AR2133	-	-	-	-	-	-	6391.7	-
20	23DGL-024PV-3	-	-	-	-	-	-	6023.2	-
6	19T-262-128	-	-	-	-	-	-	5702.5	-
24	PVL03	-	-	-	-	-	-	5676.7	-
15	223L1236	-	-	-	-	-	-	5323.4	-
14	223L1216	-	-	-	-	-	-	5305.7	-
3	213L1130	-	-	-	-	-	-	5215.2	-
4	213L1140	-	-	-	-	-	-	5163.0	-
5	RU2102186	-	-	-	-	-	-	5118.6	-
19	23DGL-017PV-1	-	-	-	-	-	-	5000.0	-
2	213L1041	-	-	-	-	-	-	4990.9	-
7	19T-262-244	-	-	-	-	-	-	4956.7	-
16	23DGL-002PV	-	-	-	-	-	-	4874.0	-
8	19T-262-62	-	-	-	-	-	-	3908.6	-
13	223L1213	-	-	-	-	-	-	3904.6	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 21. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Clearfield. Palmetto, St. Landry Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
15	222L1082	-	81.0	110.1	57.7	70.3	15.4	9908.7	-
20	19T-183-CL-1	-	84.0	108.4	59.7	68.0	35.5	9656.6	-
13	19T-033-63	-	82.3	104.1	56.4	71.0	22.4	9597.5	-
19	19T-179-23	-	88.7	116.0	59.6	68.9	26.6	9448.7	-
21	222M1096	-	88.7	102.4	62.6	70.6	16.6	9444.9	-
10	19T-033-31	-	82.7	105.8	56.1	69.9	17.8	9438.5	-
12	19T-033-38	-	81.0	106.7	51.2	70.6	20.5	9362.0	-
8	19T-029-4	-	81.3	104.1	52.0	71.2	21.1	9233.9	-
6	RU2102217	-	76.3	92.3	36.1	70.5	34.0	8963.6	-
26	CLL18	-	84.0	111.8	51.9	68.1	27.5	8957.4	-
16	222L1161	-	82.7	99.9	52.3	68.1	22.1	8937.3	-
7	RU1902034	-	81.7	104.1	48.8	69.9	26.1	8897.3	-
3	222L1147	-	82.3	105.0	53.8	70.3	17.3	8860.2	-
25	CLL19	-	81.0	100.8	47.8	70.1	24.8	8840.7	-
11	19T-033-35	-	81.0	108.4	51.5	70.3	20.9	8819.1	-
9	19T-030-24	-	77.0	103.3	43.5	69.4	22.9	8645.9	-
28	CLHA03	-	82.0	101.6	58.8	68.9	20.4	8556.4	-
23	19T-183-CL-6	-	82.0	103.3	49.6	69.7	25.5	8541.3	-
27	CL153	-	83.3	101.6	56.5	70.2	13.2	8457.2	-
17	MP6_397	-	80.3	96.5	47.8	70.1	16.9	8353.6	-
14	222L1075	-	82.3	110.9	52.3	69.9	21.9	8311.6	-
18	212M1144	-	86.0	119.4	50.2	68.7	33.8	8289.8	-
29	CLM04	-	87.7	108.4	59.8	69.2	19.2	8040.9	-
30	CLM05	-	87.3	103.3	45.3	67.1	24.4	7963.4	-
5	RU2102222	-	83.3	94.8	61.7	71.6	16.4	7921.4	-
22	212M1076	-	84.3	105.0	45.5	70.5	27.2	7881.6	-
1	202L2096	-	85.3	110.1	61.8	70.6	14.2	7565.9	-
2	212L2252	-	80.3	98.2	49.3	70.7	8.7	7057.6	-
24	CLJ01	-	84.7	104.1	59.2	71.3	5.7	6709.5	-
4	202L2141	-	89.3	110.1	56.1	68.3	19.5	6618.3	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 22. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Conventional. Palmetto, St. Landry Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
18	19T-176-CONV-38	-	82.7	109.2	49.7	68.3	19.4	9665.6	-
2	19T-238-13	-	81.3	102.4	55.2	70.3	29.4	9381.8	-
4	201L1251	-	85.0	99.1	52.5	70.0	21.7	9226.0	-
22	Taurus	-	82.0	90.6	49.8	70.9	20.7	9216.6	-
20	Venus	-	82.3	98.2	49.9	67.9	22.7	8654.7	-
16	MP6_295	-	84.7	100.8	53.3	70.7	25.0	8468.0	-
12	221L1002	-	79.7	109.2	56.3	72.4	24.0	8463.3	-
28	DG263L	-	80.7	99.9	53.8	66.8	20.4	8451.7	-
8	19T-217-39	-	77.7	105.0	55.8	70.5	21.4	8395.4	-
5	211L1008	-	76.3	104.1	60.4	71.4	29.8	8370.3	-
10	19T-218-43	-	80.3	103.3	61.5	72.0	22.6	8300.5	-
14	221L1087	-	82.0	98.2	60.1	72.2	24.5	8269.4	-
7	211L1056	-	76.3	95.7	42.6	69.1	28.0	8236.8	-
17	19T-176-CONV-36	-	85.7	110.9	49.7	68.4	20.7	8207.9	-
9	19T-218-30	-	81.3	104.1	58.4	70.9	19.1	8181.0	-
11	211L1124	-	80.7	107.5	60.5	71.1	24.7	8109.4	-
13	221L1013	-	74.3	97.4	55.6	70.4	23.1	7990.4	-
15	221L1099	-	78.0	103.3	49.4	68.9	22.8	7977.0	-
6	211L1032	-	80.7	99.1	55.4	69.7	26.2	7916.0	-
24	Avant	-	74.7	94.8	57.3	70.1	23.4	7758.4	-
1	211L1331	-	87.0	104.1	57.2	70.1	21.6	7753.2	-
21	19T-176-CONV-6	-	84.7	108.4	47.5	69.1	18.4	7641.8	-
3	19T-238-62	-	83.3	110.1	51.6	69.7	26.8	7361.3	-
26	Della2	-	86.0	105.0	52.7	66.5	16.1	7217.5	-
27	Fitzgerald	-	79.3	94.8	57.1	71.6	11.8	7217.1	-
19	RU2102066	-	83.0	93.1	56.7	68.1	25.2	7117.1	-
23	Jupiter	-	87.3	98.2	61.3	69.3	25.8	6893.8	-
25	Cheniere	-	84.7	99.1	67.0	74.4	14.4	6502.7	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 23. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Provisia. Palmetto, St. Landry Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
24	PVL03	-	80.3	110.1	57.9	73.8	22.0	9608.4	-
22	23AR2134	-	80.7	109.2	56.1	71.8	30.7	9463.3	-
23	23AR2205	-	86.0	107.5	66.1	72.5	25.0	9384.6	-
21	23AR2133	-	81.3	111.8	60.2	72.8	34.2	9226.9	-
14	223L1216	-	76.7	100.8	65.1	75.0	28.5	9202.5	-
17	23DGL-007PV-2	-	82.3	105.8	61.5	72.4	23.4	9026.1	-
6	19T-262-128	-	76.3	99.1	44.0	72.4	21.2	8933.1	-
12	223L1139	-	83.0	99.9	57.8	72.9	27.8	8798.9	-
13	223L1213	-	74.0	114.3	59.3	73.7	33.2	8789.9	-
2	213L1041	-	79.7	110.1	56.2	73.7	22.4	8774.9	-
18	23DGL-015PV-3	-	80.0	104.1	58.2	72.9	23.9	8485.5	-
4	213L1140	-	82.3	101.6	54.9	70.5	22.0	8440.2	-
3	213L1130	-	81.0	101.6	53.3	72.5	22.0	8384.0	-
15	223L1236	-	73.7	109.2	50.5	71.8	16.7	8360.2	-
11	223L1065	-	79.3	99.9	61.2	74.3	24.5	8160.5	-
5	RU2102186	-	82.0	100.8	61.1	72.7	18.7	8116.6	-
10	223L1037	-	86.0	94.0	67.7	74.1	20.2	8025.8	-
16	23DGL-002PV	-	83.0	99.1	63.6	72.1	29.6	8023.0	-
25	PVL04	-	90.0	111.8	63.7	73.9	26.4	7918.8	-
20	23DGL-024PV-3	-	84.3	100.8	62.4	72.3	26.2	7767.2	-
8	19T-262-62	-	76.0	104.1	37.8	72.4	18.1	7765.1	-
7	19T-262-244	-	77.0	99.1	42.7	72.2	19.7	7746.5	-
9	223L1027	-	77.7	103.3	45.6	72.7	14.4	7663.9	-
1	203L1104	-	89.0	100.8	67.2	73.4	24.4	7485.6	-
19	23DGL-017PV-1	-	81.3	95.7	57.2	70.9	22.6	6880.9	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 24. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Clearfield. Lake Arthur, Vermilion Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
26	CLL18	-	-	106.7	48.0	64.8	20.9	8348.2	-
30	CLM05	-	-	89.3	54.1	64.5	21.8	8269.1	-
15	222L1082	-	-	100.3	56.7	68.3	13.3	8025.4	-
8	19T-029-4	-	-	102.0	57.4	68.7	16.0	7876.2	-
25	CLL19	-	-	91.3	53.4	68.1	22.0	7759.7	-
16	222L1161	-	-	92.7	54.9	66.9	16.9	7722.6	-
23	19T-183-CL-6	-	-	94.0	56.0	67.5	23.9	7667.7	-
29	CLM04	-	-	101.7	56.9	66.1	20.0	7660.2	-
9	19T-030-24	-	-	92.0	51.2	66.9	19.1	7419.2	-
28	CLHA03	-	-	96.7	57.6	67.2	15.9	7392.4	-
21	222M1096	-	-	95.0	60.5	67.6	15.8	7382.7	-
27	CL153	-	-	99.3	59.2	69.5	12.6	7294.9	-
7	RU1902034	-	-	93.3	56.1	68.6	22.5	7229.0	-
14	222L1075	-	-	102.0	56.1	66.4	16.1	7123.2	-
17	MP6_397	-	-	94.0	50.6	69.2	19.6	7065.9	-
22	212M1076	-	-	94.0	55.0	68.1	24.0	7045.0	-
6	RU2102217	-	-	90.0	37.8	65.9	26.5	7044.1	-
11	19T-033-35	-	-	99.0	55.6	68.2	19.5	7021.2	-
13	19T-033-63	-	-	92.0	55.5	67.7	14.2	6882.3	-
20	19T-183-CL-1	-	-	98.3	58.4	66.4	25.8	6841.1	-
2	212L2252	-	-	90.7	54.4	69.0	9.8	6698.2	-
10	19T-033-31	-	-	93.3	56.1	67.9	17.0	6579.2	-
12	19T-033-38	-	-	101.0	56.9	67.3	17.6	6487.3	-
18	212M1144	-	-	99.7	48.9	65.9	27.4	6409.7	-
3	222L1147	-	-	98.3	51.9	69.1	16.7	6359.5	-
5	RU2102222	-	-	90.0	56.9	69.5	14.2	6354.7	-
19	19T-179-23	-	-	102.3	48.4	64.3	24.9	6341.0	-
24	CLJ01	-	-	95.0	59.8	69.5	6.1	6153.4	-
4	202L2141	-	-	98.0	47.8	65.4	17.1	5439.8	-
1	202L2096	-	-	99.7	54.2	67.2	12.5	4578.1	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 25. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Conventional. Lake Arthur, Vermilion Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
28	DG263L	-	-	99.3	53.7	65.4	21.1	7971.6	-
16	MP6_295	-	-	99.3	54.3	67.8	28.1	7935.8	-
18	19T-176-CONV-38	-	-	98.7	53.6	67.4	22.0	7919.9	-
5	211L1008	-	-	95.3	58.8	68.4	20.1	7874.8	-
4	201L1251	-	-	94.7	54.1	69.2	21.1	7773.8	-
17	19T-176-CONV-36	-	-	110.7	56.3	67.7	23.5	7681.4	-
7	211L1056	-	-	95.7	55.7	69.3	24.4	7599.6	-
13	221L1013	-	-	91.3	56.6	69.6	18.3	7592.7	-
11	211L1124	-	-	105.7	57.9	67.6	21.3	7552.7	-
14	221L1087	-	-	93.0	55.3	67.6	21.3	7532.7	-
10	19T-218-43	-	-	102.3	60.2	69.5	20.7	7493.9	-
22	Taurus	-	-	91.0	52.0	67.7	22.7	7346.3	-
8	19T-217-39	-	-	94.0	55.2	69.4	19.7	7343.8	-
3	19T-238-62	-	-	111.0	53.4	67.2	28.5	7324.4	-
20	Venus	-	-	93.3	52.8	66.5	24.6	7199.7	-
6	211L1032	-	-	100.0	58.8	68.3	18.0	7105.3	-
15	221L1099	-	-	97.3	55.7	67.6	17.8	7063.5	-
24	Avant	-	-	86.3	54.5	67.8	15.3	7057.7	-
19	RU2102066	-	-	85.0	55.5	68.9	21.4	6993.1	-
1	211L1331	-	-	98.3	58.6	68.4	14.1	6863.0	-
21	19T-176-CONV-6	-	-	105.0	54.4	66.6	23.1	6846.3	-
12	221L1002	-	-	105.3	57.4	69.7	19.8	6814.2	-
27	Fitzgerald	-	-	97.0	60.3	70.2	11.6	6791.0	-
9	19T-218-30	-	-	102.0	59.3	69.0	16.4	6768.7	-
2	19T-238-13	-	-	105.0	54.2	66.9	28.6	6705.6	-
23	Jupiter	-	-	95.7	58.1	67.5	25.5	6639.0	-
26	Della2	-	-	97.0	58.9	68.5	12.3	6509.7	-
25	Cheniere	-	-	97.7	60.3	70.6	8.4	6257.0	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 26. Grain and milling yields and agronomic performance of entries in the 2024 Advanced Yield Trial – Provisia. Lake Arthur, Vermilion Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
13	223L1213	-	-	105.7	49.5	67.6	28.5	8599.9	-
4	213L1140	-	-	101.7	52.7	66.4	15.5	8297.2	-
11	223L1065	-	-	97.3	56.4	69.6	23.0	8155.7	-
17	23DGL-007PV-2	-	-	93.0	59.6	69.0	15.7	8141.2	-
14	223L1216	-	-	95.3	53.9	68.1	19.3	8105.6	-
22	23AR2134	-	-	101.3	50.5	65.9	21.2	8032.6	-
12	223L1139	-	-	97.7	56.9	68.3	18.2	7989.8	-
6	19T-262-128	-	-	99.0	51.5	68.5	17.3	7825.5	-
21	23AR2133	-	-	101.3	49.5	67.2	23.5	7822.9	-
2	213L1041	-	-	105.3	52.5	68.1	20.2	7799.1	-
24	PVL03	-	-	103.3	54.8	69.0	18.5	7792.8	-
16	23DGL-002PV	-	-	94.7	56.2	67.0	20.4	7772.5	-
9	223L1027	-	-	95.3	49.8	70.0	15.3	7759.3	-
7	19T-262-244	-	-	97.7	52.0	68.8	19.1	7758.7	-
8	19T-262-62	-	-	101.3	47.3	68.7	18.5	7724.8	-
25	PVL04	-	-	106.0	53.6	66.0	15.5	7724.5	-
19	23DGL-017PV-1	-	-	89.3	56.0	67.3	18.3	7651.7	-
3	213L1130	-	-	101.0	55.0	67.6	17.1	7609.9	-
23	23AR2205	-	-	97.3	57.7	66.9	21.9	7547.8	-
15	223L1236	-	-	103.0	46.1	67.2	19.8	7485.1	-
20	23DGL-024PV-3	-	-	94.7	59.0	68.1	16.5	7312.2	-
10	223L1037	-	-	91.3	50.3	64.1	15.3	7301.0	-
5	RU2102186	-	-	102.7	53.0	66.9	20.3	7209.9	-
1	203L1104	-	-	95.0	54.3	66.6	15.5	7191.3	-
18	23DGL-015PV-3	-	-	92.7	56.0	67.8	18.5	6735.3	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

REGIONAL YIELD TEST

The Regional Yield Test (RYT) in 2024 included five environments with two planting dates at the H. Rouse Caffey Rice Research Station (HRCRRS), one environment at the HRCRRS South Farm (SF), one environment in Franklin Parish (Winnsboro – WB), and one environment in Vermilion Parish (Lake Arthur – LK). Planting and harvesting dates are shown in Table 1 across all locations.

In total, 149 entries and 15 checks 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 3-17 and listed in order of descending yield (lb/A).

Table 1. Planting and harvesting dates for the Regional Yield Test in 2024.

Location	Trial	Planting	Harvesting	Table
HRCRRS	RYT-CL-RRS	2/26	7/29	3
	RYT-CN-RRS	2/27	7/23 and 27	4
	RYT-PV-RRS	2/27	7/22 and 23	5
HRCRRS-Late	RYT-CL-RRSL	4/3	8/5	6
	RYT-CN-RRSL	4/2	8/5	7
	RYT-PV-RRSL	3/28	7/31	8
HRCRRS South Farm	RYT-CL-SF	2/29	7/30	9
	RYT-CN-SF	2/29	7/30	10
	RYT-PV-SF	2/29	7/30	11
Franklin (Winnsboro)	RYT-CL-WB	4/4	8/13	12
	RYT-CN-WB	4/4	8/12	13
	RYT-PV-WB	4/4	8/12	14
Vermilion (Lake Arthur)	RYT-CL-LK	4/1	8/7	15
	RYT-CN-LK	4/1	8/8	16
	RYT-PV-LK	4/1	8/7	17

Table 2. Entry number, pedigree, and grain type for entries in the Regional Yield Test, 2024.

Herbicide Type*	Entry	Line	Pedigree	Grain Type†	Source‡
CL	1	222A2014	RU1602195/RU1902170	AL	LAES
CL	2	232L1032	RU1902207/RU1702183	LG	LAES
CL	3	232L1034	RU1902207/RU1702183	LG	LAES
CL	4	232L1040	171L1786/CL153	LG	LAES
CL	5	232L1043	RU1702183/CL111	LG	LAES
CL	6	232L1044	RU1702183/CL111	LG	LAES
CL	7	232L1071	RU1602195/CL153	LG	LAES
CL	8	232L1101	RU2002114/RU1801169	LG	LAES
CL	9	232L1131	Avant/CL111	LG	LAES
CL	10	232L1135	Avant/CL111	LG	LAES
CL	11	232L1187	CL111/RU2002217	LG	LAES
CL	12	232L1194	CL111/RU2002217	LG	LAES
CL	13	232L1210	RU1702183/Avant	LG	LAES
CL	14	232L1211	RU1702183/Avant	LG	LAES
CL	15	232L1213	RU1702183/Avant	LG	LAES
CL	16	232L1215	RU1702183/Avant	LG	LAES
CL	17	232L1217	RU1702183/Avant	LG	LAES
CL	18	232L1225	RU1702183/Avant	LG	LAES
CL	19	232L1226	CLL16/RU1702183	LG	LAES
CL	20	232L1227	CLL16/RU1702183	LG	LAES
CL	21	232L1233	RU2002146/CL111	LG	LAES
CL	22	232L1235	RU1702140/RU1901121	LG	LAES
CL	23	232L1240	Mermentau/RU1801101	LG	LAES
CL	24	232L1242	Mermentau/RU1801101	LG	LAES
CL	25	232L1245	Mermentau/RU1801101	LG	LAES
CL	26	232L1251	RU1902034/RU1702140	LG	LAES
CL	27	232L1268	CLL19/RU2002122	LG	LAES
CL	28	232L1295	CLL17/RU2002114	LG	LAES
CL	29	MP6_220	CL111/RoyJ//CL153/Lakast/3/CL153/Lakast//CL172/Cypress	LG	LAES
CL	30	MP6_313	CL111/RoyJ//CL153/Lakast/3/CL153/Lakast//CL172/Cypress	LG	LAES
CL	31	MP8_187	CL111/RoyJ//CL153/Lakast/3/CL172/Cypress//Presidio/ Catahoula	LG	LAES
CL	32	MP8_379	CL111/RoyJ//CL153/Lakast/3/CL172/Cypress//Presidio/ Catahoula	LG	LAES
CL	33	232L1074	RU1902126/RU2002114	HI	LAES
CL	34	232L1075	RU1902126/RU2002114	HI	LAES
CL	35	232L1111	RU1902126/182L2166	HI	LAES
CL	36	232L1112	RU1902126/182L2166	HI	LAES
CL	37	232L1170	RU1902194/RU1902126	HI	LAES
CL	38	232L1171	RU1902194/RU1902126	LG	LAES
CL	39	232L1263	CLL19/RU2002122	HI	LAES
CL	40	232L1278	CL153/AddiJo	HI	LAES
CL	41	232L1279	CL153/AddiJo	HI	LAES
CL	42	231L2007	RU1801221/DG263L	HI	LAES
CL	43	231L2145	201L1159/DG263L	HI	LAES
CL	44	232M1044	RU1902174/Lynx	MG	LAES
CL	45	232M1046	RU1902174/Lynx	MG	LAES
CL	46	232M1047	RU1902174/Lynx	MG	LAES
CL	47	232M1051	RU1902174/Lynx	MG	LAES
CL	48	232M1063	181M1740/RU1902174	MG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CL	49	232M1064	181M1740/RU1902174	MG	LAES
CL	50	232M1070	RU1902174/RU1801211	MG	LAES
CL	51	232M1097	RU1902174/Jupiter	MG	LAES
CL	52	232M1114	Taurus/CLM04	MG	LAES
CL	53	19T-176-CL-64	RU1702165/RU1801211	MG	LAES
CL	54	19T-176-CONV-10	RU1702165/RU1801211	MG	LAES
CL	55	CLJ01	Jazzman/08CLR004//RU0802146/3/RU0802146	AL	LAES
CL	56	CL153	RU9502008A//Ahrent/Cocodrie/3/CFX26/RU9702128/4/ Cheniere	LG	LAES
CL	57	CLL19	Wells/CL161//Drew/CL161/3/Cheniere//Cocodrie/Jefferson	LG	LAES
CL	58	CLL18	RoyJ/CL142AR	LG	AAES
CL	59	CLM04	RU1202168/Jupiter	MG	AAES
CL	60	CLM05	Earl/PI350298//Jupiter/RU1501096	MG	AAES
CN	1	211L1008	RU1702183/Avant	LG	LAES
CN	2	MP8_104	CL111/RoyJ//CL153/Lakast/3/CL172/Cypress//Presidio/ Catahoula	LG	LAES
CN	3	231L1018	Avant/Diamond	LG	LAES
CN	4	231L1027	RU1702183/Avant	LG	LAES
CN	5	231L1029	Avant/CL111	LG	LAES
CN	6	231L1039	RoyJ/182L2166	LG	LAES
CN	7	231L1049	Mermentau/Avant	LG	LAES
CN	8	231L1061	RU1902207/RU1702183	LG	LAES
CN	9	231L1082	RU2002217/Avant	LG	LAES
CN	10	231L1084	RU2002217/Avant	LG	LAES
CN	11	231L1085	RU2002217/Avant	LG	LAES
CN	12	231L1086	RU2002217/Avant	LG	LAES
CN	13	231L1093	RU2002222/RU2002217	LG	LAES
CN	14	231L1094	RU2002222/RU2002217	LG	LAES
CN	15	231L1100	RU1902207/RU2002217	LG	LAES
CN	16	231L1103	RU2002222/RU1902207	LG	LAES
CN	17	231L1107	RU2002222/RU1902207	LG	LAES
CN	18	231L1115	RU2002146/Avant	LG	LAES
CN	19	231L1121	RU2002146/Avant	LG	LAES
CN	20	231L1146	RU1902207/RU2002232	LG	LAES
CN	21	231L1055	RU1902207/RU1702183	LG	LAES
CN	22	231L1261	RU2002232/RU2002150	LG	LAES
CN	23	231L1191	RU2002186/RU2002232	LG	LAES
CN	24	231L1196	RU2002186/RU2002232	LG	LAES
CN	25	231L1207	RU2002232/RU1702140	LG	LAES
CN	26	231L1208	RU2002232/RU1702140	LG	LAES
CN	27	231L1209	RU2002232/RU1702140	LG	LAES
CN	28	231L1241	RU2002232/RU2002150	LG	LAES
CN	29	231L1243	RU2002232/RU2002150	LG	LAES
CN	30	231L1253	RU2002232/RU2002150	LG	LAES
CN	31	231L1256	RU2002232/RU2002150	LG	LAES
CN	32	231L1228	RU2002186/RU2002150	HI	LAES
CN	33	231L2064	Avant/DG263L	HI	LAES

Continued.

Table 2. Continued.

Herbicide Type*	Entry	Line	Pedigree	Grain Type†	Source‡
CN	34	Venus 19T-176-	Titan/Jupiter	MG	LAES
CN	35	CONV-2	RU1702165/RU1801211	MG	LAES
CN	36	231M1053	RU1902227/RU1801211	MG	LAES
CN	37	231M1054	RU1902227/RU1801211	MG	LAES
CN	38	231M1056	RU1902227/RU1801211	MG	LAES
CN	39	231M1058	RU1902227/RU1801211	MG	LAES
CN	40	231M1075	Lynx/RU2002090	MG	LAES
CN	41	231M1076	Lynx/RU2002090	MG	LAES
CN	42	231M1102	Titan/RU1801211	MG	LAES
CN	43	231M1103	Titan/RU1801211	MG	LAES
CN	44	231M1107	Titan/RU1801211	MG	LAES
CN	45	231M1108	Titan/RU1801211	MG	LAES
CN	46	DG263L		HI	NAS
CN	47	Della2	Cypress//L205/Della	AI	LAES
CN	48	Avant	Trenasse//Cocodrie/Jefferson/3/Ahrent/Cocodrie//Cocodrie/ LaGrue	LG	LAES
CN	49	Cheniere	Newbonnet/Katy/3/L202/Lemont//L202	HI	LAES
CN	50	AddiJo	Thad/Catahoula	HI	LAES
CN	51	Taurus	Rico1/Bengal//RU0602162/RU0502031	MG	AAES
CN	52	Jupiter	Bengal/Rico1/3/Bengal//Mercury/Rico1	MG	LAES
PV	1	213L1130	PVL01/Catahoula	LG	LAES
PV	2	213L1041	PVL03/RU1902194	LG	LAES
PV	3	233L1018	183L2070/182L1278	LG	LAES
PV	4	233L1020	183L2070/182L1278	LG	LAES
PV	5	233L1108	RU2002174/RU1902207	LG	LAES
PV	6	233L1121	19T262-F2-P2/RU2002232	LG	LAES
PV	7	233L1123	19T262-F2-P2/RU2002232	LG	LAES
PV	8	233L1124	19T262-F2-P2/RU2002232	LG	LAES
PV	9	233L1125	19T262-F2-P2/RU2002232	LG	LAES
PV	10	233L1168	CLL19/RU2002070	LG	LAES
PV	11	233L1197	PVL03/Cheniere	LG	LAES
PV	12	233L1203	CL111/183L2070	LG	LAES
PV	13	233L1218	Catahoula/19T262-F2-P3	LG	LAES
PV	14	233L1262	PVL03/RU1902207	LG	LAES
PV	15	233L1264	PVL03/RU1902207	LG	LAES
PV	16	233L1268	PVL03/RU1902207	LG	LAES
PV	17	233L1269	PVL03/RU1902207	LG	LAES
PV	18	233L1271	PVL03/RU1902207	LG	LAES
PV	19	233L1283	19T262-F2-P1/RU1902207	LG	LAES
PV	20	233L1284	19T262-F2-P1/RU1902207	LG	LAES
PV	21	233L1286	19T262-F2-P1/RU1902207	LG	LAES
PV	22	233L1061	Diamond/183L2070	LG	LAES
PV	23	233L1062	Diamond/183L2070	LG	LAES
PV	24	233L1063	Diamond/183L2070	LG	LAES
PV	25	233L1068	183L2070/RU1902186	LG	LAES
PV	26	233L1074	PVL03/RU1902194	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type*	Entry	Line	Pedigree	Grain Type†	Source‡
PV	27	233L1075	PVL03/Diamond	LG	LAES
PV	28	233L1079	PVL03/Diamond	LG	LAES
PV	29	233L1081	PVL03/Diamond	LG	LAES
PV	30	233L1085	PVL03/RU2002222	LG	LAES
PV	31	233L1086	PVL03/RU2002222	LG	LAES
PV	32	233L1088	PVL03/RU2002222	LG	LAES
PV	33	233L1089	RU2002070/RU2002232	LG	LAES
PV	34	233L1091	RU2002070/RU2002232	LG	LAES
PV	35	233L1093	RU2002070/RU2002232	LG	LAES
PV	36	233L1095	RU2002070/RU2002232	LG	LAES
PV	37	19T-262-55	Catahoula/PVL03	LG	LAES
PV	38	19T-262-255	Catahoula/PVL03	LG	LAES
PV	39	19T-262-73	Catahoula/PVL03	LG	LAES
PV	40	19T-262-167	Catahoula/PVL03	LG	LAES
PV	41	19T-262-227	Catahoula/PVL03	LG	LAES
PV	42	19T-262-206	Catahoula/PVL03	LG	LAES
PV	43	213L1140	PVL01/Catahoula	HI	LAES
PV	44	233L1237	RU2002070/RU2002146	HI	LAES
PV	45	233L1294	RU2002070/RU2002122	HI	LAES
PV	46	233L1206	RU2002070/AddiJo	HI	LAES
PV	47	233L1225	19T262-F2-P2/RU2002122	HI	LAES
PV	48	233L1227	19T262-F2-P2/RU2002122	HI	LAES
PV	49	233L1232	19T262-F2-P2/RU2002122	HI	LAES
PV	50	233L1228	19T262-F2-P2/RU2002122	HI	LAES
PV	51	PVL03	PVL01/Catahoula	LG	LAES
PV	52	PVL04	18SIT0557*3/HPHI2	HI	AAES

* Herbicide Type – Clearfield (CL), Conventional (CN), and Provisia (PV).

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

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

Table 3. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test – Clearfield. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
52	232M1114	3.0	99.0	99.5	63.6	69.6	23.6	10809.9	1891.1
50	232M1070	2.0	95.5	96.5	55.1	70.0	27.6	10754.8	3751.9
51	232M1097	3.0	99.0	94.0	64.4	68.8	22.3	10751.5	3232.0
60	CLM05	2.0	99.5	92.0	64.8	68.2	26.4	10668.5	3683.1
45	232M1046	3.0	100.0	101.5	64.2	69.8	29.1	10647.2	3153.5
37	232L1170	3.0	99.0	99.0	64.0	70.5	26.4	10638.3	3550.4
33	232L1074	2.0	98.0	98.5	63.7	71.1	20.2	10490.0	3218.9
44	232M1044	3.0	99.0	101.5	64.7	69.7	26.3	10444.7	3691.1
12	232L1194	2.0	99.0	97.0	61.2	69.6	23.4	10339.4	3780.9
59	CLM04	3.0	99.0	100.5	63.9	68.7	25.8	10313.5	2910.5
53	19T-176-CL-64	3.0	97.5	97.5	60.4	70.2	19.9	10252.4	2616.0
54	19T-176-CONV-10	3.0	98.0	102.5	54.6	70.2	21.0	10181.2	3168.2
29	MP6_220	1.0	98.0	110.0	60.7	69.9	33.6	10160.7	2234.7
30	MP6_313	3.0	101.0	113.0	59.6	69.4	40.6	9978.3	3221.8
38	232L1171	3.0	99.0	96.0	65.5	70.7	20.7	9975.0	3293.3
58	CLL18	3.0	102.0	107.5	57.6	68.3	36.2	9916.1	2122.0
24	232L1242	3.0	95.5	97.5	64.4	71.5	30.1	9887.5	2591.1
11	232L1187	5.0	99.0	93.0	62.7	70.2	26.8	9820.0	3630.5
46	232M1047	3.0	100.0	98.0	65.9	70.0	17.8	9777.0	3790.0
47	232M1051	3.0	103.0	94.5	65.2	69.8	24.3	9679.6	3973.2
4	232L1040	5.0	100.0	106.0	63.3	70.2	23.3	9641.4	3636.3
27	232L1268	3.0	97.5	95.5	58.9	68.9	37.5	9555.3	2726.3
18	232L1225	3.0	94.5	93.5	63.8	70.4	16.7	9484.7	3571.0
32	MP8_379	3.0	97.5	91.5	61.4	70.6	34.0	9472.2	3741.0
3	232L1034	3.0	97.0	96.5	64.6	70.2	25.6	9470.4	2946.1
7	232L1071	4.0	99.0	94.5	64.2	70.1	27.2	9417.2	2989.0
41	232L1279	3.0	98.0	110.0	61.2	70.0	27.4	9387.3	3491.4
49	232M1064	3.0	98.5	99.0	63.7	69.3	26.4	9349.6	3872.4
35	232L1111	3.0	99.0	96.0	62.9	70.5	21.6	9343.2	3035.3
13	232L1210	4.0	96.5	90.0	62.8	69.4	25.5	9339.9	3784.8
31	MP8_187	2.0	99.0	118.5	59.6	69.3	32.6	9334.4	3289.3
23	232L1240	3.0	96.0	100.0	64.0	71.2	23.7	9310.3	3411.8
36	232L1112	3.0	101.5	103.0	63.1	69.7	15.4	9298.8	3228.1
25	232L1245	4.0	97.0	102.5	63.5	71.5	26.1	9264.5	3269.2
14	232L1211	3.0	95.0	91.0	64.5	70.8	24.6	9255.5	3248.7
15	232L1213	4.0	95.0	92.0	65.0	70.9	25.2	9239.3	3386.3
39	232L1263	3.0	98.0	98.5	60.8	69.7	31.4	9236.1	3406.4
57	CLL19	3.0	97.5	89.0	59.9	69.4	33.0	9232.8	2530.1
48	232M1063	2.0	98.0	96.5	48.6	68.0	33.0	9199.9	3725.2
34	232L1075	4.0	100.0	87.5	60.5	69.8	23.2	9163.6	4490.3
10	232L1135	3.0	98.5	96.5	64.7	70.6	27.1	9161.3	3279.5
5	232L1043	3.0	96.5	97.0	63.4	70.3	20.6	9158.0	3247.3
17	232L1217	3.0	96.0	87.5	65.4	71.4	27.7	9042.4	3009.2
28	232L1295	3.0	98.5	90.5	64.4	70.4	21.9	9022.6	3505.0

Continued.

Table 3. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
2	232L1032	3.0	98.0	93.0	64.2	70.6	23.6	9012.1	3244.3
1	222A2014	4.0	96.5	104.5	63.4	70.6	19.1	8971.7	2840.7
21	232L1233	4.0	97.0	101.0	65.2	71.4	28.6	8943.1	3110.9
9	232L1131	4.0	95.0	93.5	65.9	71.2	21.5	8938.8	3022.8
20	232L1227	3.0	98.0	82.5	64.8	71.0	17.7	8856.2	2701.5
6	232L1044	3.0	97.5	100.5	64.3	69.9	28.3	8854.0	3607.2
16	232L1215	4.0	94.0	100.5	63.8	70.4	29.9	8853.0	2827.2
56	CL153	3.0	99.0	94.5	65.2	70.5	21.4	8817.9	3325.0
43	231L2145	4.0	103.0	97.0	58.0	69.4	29.3	8787.2	2434.1
26	232L1251	5.0	98.5	97.5	61.6	70.1	24.5	8746.2	2872.3
40	232L1278	5.0	100.0	101.0	63.9	69.3	22.0	8742.9	3628.3
8	232L1101	3.0	97.5	94.0	63.0	70.6	25.2	8731.6	3097.2
19	232L1226	3.0	96.0	90.0	62.5	69.6	28.0	8722.3	3543.4
22	232L1235	3.0	95.5	97.5	64.5	71.8	21.1	8718.4	2890.2
42	231L2007	6.0	101.5	108.5	52.6	64.5	25.9	8422.3	2338.9
55	CLJ01	4.0	102.0	92.0	67.7	71.4	11.5	7656.6	3417.8

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

Table 4. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test – Conventional. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
40	231M1075	4.0	96.0	99.5	55.9	66.3	38.9	11316.8	2698.5
41	231M1076	3.0	99.0	100.0	65.8	69.2	19.4	11098.0	3429.3
22	231L1261	3.0	97.0	104.5	65.2	70.8	31.1	10982.4	3398.2
9	231L1082	3.0	94.5	97.0	67.1	71.9	19.9	10755.7	3924.9
45	231M1108	3.0	95.0	100.5	62.2	69.1	36.1	10693.7	2415.5
29	231L1243	3.0	99.0	97.0	66.6	72.2	27.1	10692.4	3353.4
38	231M1056	3.0	96.5	103.5	60.9	68.3	31.0	10636.0	3029.8
5	231L1029	3.0	94.5	104.0	67.9	72.6	28.1	10441.8	3969.8
31	231L1256	3.0	97.5	98.5	65.9	71.8	32.3	10427.4	3789.6
28	231L1241	3.0	97.0	101.0	67.9	72.5	31.0	10336.8	4201.3
43	231M1103	3.0	95.0	102.0	62.3	68.7	31.4	10333.6	3524.8
11	231L1085	6.0	94.5	99.0	66.3	71.4	21.0	10265.1	4123.3
12	231L1086	3.0	93.5	91.0	65.4	71.3	22.7	10263.7	3873.5
48	Avant	2.0	92.0	95.0	66.6	71.6	25.1	10241.4	3874.9
7	231L1049	3.0	94.5	93.0	66.9	71.9	26.9	10220.0	4327.2
35	19T-176-CONV-2	2.0	95.0	112.0	63.5	69.1	18.9	10163.3	3058.6
24	231L1196	3.0	99.0	93.0	66.2	72.2	30.9	10137.2	3298.2
13	231L1093	3.0	95.5	95.5	67.0	72.1	22.7	10134.7	3600.1
20	231L1146	3.0	97.0	95.0	59.4	64.3	26.9	10123.2	3264.3
51	Taurus	2.0	94.5	91.5	62.8	69.8	17.2	10116.9	3457.1
44	231M1107	3.0	95.0	93.0	65.4	69.3	24.4	10037.3	3399.7
25	231L1207	4.0	96.5	100.0	66.6	71.8	30.9	9925.7	4337.6
4	231L1027	3.0	92.5	99.0	66.5	71.0	27.8	9910.4	3810.8
27	231L1209	4.0	100.0	97.0	64.7	70.7	28.4	9840.5	4202.8
26	231L1208	4.0	99.0	100.0	66.0	71.1	32.2	9770.7	4411.6
36	231M1053	3.0	95.0	99.5	64.6	69.9	23.4	9745.4	3449.8
42	231M1102	3.0	95.5	98.5	64.5	69.2	21.1	9743.7	3020.4
17	231L1107	3.0	98.5	100.0	64.4	71.0	25.6	9737.0	3285.7
8	231L1061	3.0	97.5	106.5	66.1	70.9	26.1	9730.3	3694.0
34	Venus	3.0	95.0	95.5	64.3	67.9	26.2	9721.8	3355.3
21	231L1055	3.0	95.0	99.0	65.6	71.5	29.6	9719.5	3599.4
6	231L1039	3.0	98.5	113.5	65.2	71.0	27.6	9700.5	4079.9
23	231L1191	3.0	99.0	94.0	65.9	71.2	21.1	9634.2	4232.9
18	231L1115	3.0	94.5	95.0	65.9	71.0	22.2	9621.1	4486.9
19	231L1121	3.0	95.0	96.0	67.6	72.6	29.3	9594.9	3825.5
30	231L1253	4.0	98.5	100.0	67.8	72.6	24.2	9585.4	3267.8
16	231L1103	3.0	97.5	101.0	68.2	73.2	23.9	9575.0	3505.7
15	231L1100	5.0	102.5	100.5	65.1	71.2	25.6	9562.4	4036.8
39	231M1058	3.0	95.0	100.5	66.3	71.0	15.3	9546.4	2959.3
14	231L1094	3.0	95.5	101.0	64.9	71.7	22.4	9364.1	3105.8
1	211L1008	3.0	95.0	101.0	66.3	71.2	26.7	9309.8	3535.3
10	231L1084	3.0	95.5	98.0	67.2	72.2	24.9	9269.5	3752.7
52	Jupiter	3.0	101.5	94.5	41.0	48.7	32.4	9255.8	2528.8
37	231M1054	3.0	96.0	96.0	61.5	69.1	29.5	9175.9	2836.6

Continued.

Table 4. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
2	MP8_104	4.0	99.0	97.0	64.7	70.2	21.1	9118.6	4086.9
46	DG263L	4.0	98.5	100.5	55.4	65.4	27.4	9087.5	2381.2
32	231L1228	3.0	99.0	96.0	62.7	70.6	25.4	9010.8	3331.8
49	Cheniere	4.0	98.5	97.0	68.3	73.4	17.7	8983.3	3722.3
33	231L2064	5.0	98.5	105.0	48.1	64.4	34.9	8695.0	3215.8
50	AddiJo	3.0	100.0	102.0	61.5	70.4	30.4	8665.8	3061.7
47	Della2	1.0	98.5	100.5	63.7	69.2	19.1	8595.7	3601.1
3	231L1018	5.0	99.0	94.0	65.9	71.5	22.1	8155.8	3342.3

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

Table 5. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test – Provisia. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
14	233L1262	3.0	97.0	102.0	59.6	69.3	35.2	10154.1	3604.5
44	233L1237	4.0	97.0	94.0	55.2	68.2	32.5	10107.5	3634.7
32	233L1088	2.0	97.5	106.5	61.9	70.4	38.8	9847.7	3860.5
36	233L1095	3.0	97.5	98.0	63.7	70.8	23.4	9550.8	4403.1
21	233L1286	4.0	99.0	99.0	61.9	69.8	41.7	9508.6	3804.3
50	233L1228	3.0	97.5	97.0	66.4	71.7	32.4	9463.7	3761.7
38	19T-262-255	4.0	98.0	101.5	59.7	69.1	26.6	9430.1	3607.2
7	233L1123	3.0	97.0	98.5	66.1	71.5	26.8	9426.8	3541.5
30	233L1085	3.0	97.5	99.5	64.8	72.3	28.6	9383.8	3164.8
17	233L1269	3.0	98.5	97.0	63.2	70.5	32.4	9357.3	3810.4
48	233L1227	2.0	98.5	98.5	63.9	71.1	26.1	9328.8	3290.9
51	PVL03	2.0	99.5	103.5	60.4	70.1	28.0	9323.0	3780.5
24	233L1063	4.0	101.0	92.5	54.9	66.6	38.3	9307.0	4836.0
9	233L1125	3.0	97.0	95.0	66.7	72.0	25.0	9299.1	3830.8
33	233L1089	3.0	98.0	95.5	65.5	71.1	19.1	9276.5	3989.8
26	233L1074	3.0	97.5	97.5	68.9	72.5	31.6	9259.6	3855.9
37	19T-262-55	3.0	98.0	99.0	59.6	69.3	24.7	9241.3	3157.2
16	233L1268	3.0	98.5	102.5	67.5	72.0	31.6	9211.8	3696.2
8	233L1124	3.0	97.0	94.0	66.4	71.4	30.2	9205.3	3818.1
31	233L1086	2.0	96.5	98.5	63.0	70.3	25.0	9169.2	3673.1
47	233L1225	3.0	100.0	99.0	63.0	69.6	29.7	9073.8	4011.2
39	19T-262-73	3.0	98.0	100.0	59.8	69.6	31.7	9035.3	3335.5
49	233L1232	3.0	96.0	91.0	63.3	70.8	35.5	8986.5	3609.1
19	233L1283	3.0	99.5	98.0	61.8	69.4	35.4	8970.7	3681.0
25	233L1068	3.0	104.5	104.0	61.3	68.9	31.7	8924.4	4308.2
4	233L1020	3.0	105.0	102.0	64.6	70.4	22.0	8875.1	4265.6
20	233L1284	3.0	98.0	98.5	61.6	70.0	27.4	8823.9	3463.2
2	213L1041	3.0	97.0	103.5	63.0	70.6	28.3	8815.5	3822.8
1	213L1130	3.0	98.5	97.5	59.8	69.2	27.9	8777.6	3871.9
15	233L1264	5.0	98.5	99.0	62.8	70.7	28.5	8774.4	3370.5
40	19T-262-167	3.0	98.0	98.0	59.2	69.4	30.0	8727.3	3682.6
18	233L1271	2.0	99.5	102.0	66.4	71.6	28.9	8659.8	3239.8
22	233L1061	4.0	103.0	87.5	64.1	70.1	32.5	8634.6	3199.8
3	233L1018	3.0	104.5	96.5	66.9	71.2	26.2	8617.0	4614.6
28	233L1079	4.0	98.5	95.0	65.3	71.5	32.8	8585.5	4070.1
29	233L1081	3.0	99.5	100.0	64.9	70.8	27.1	8575.0	3812.6
34	233L1091	3.0	100.0	96.0	69.4	72.5	19.0	8567.0	4335.6
12	233L1203	3.0	101.5	93.5	63.7	70.1	22.9	8471.5	3155.4
43	213L1140	4.0	102.0	100.0	47.4	65.7	21.3	8354.9	3472.7
42	19T-262-206	4.0	98.5	99.0	59.1	68.9	25.7	8326.2	3398.9
46	233L1206	3.0	103.5	97.5	58.1	69.0	26.9	8321.3	3907.2
35	233L1093	3.0	100.0	100.5	63.3	70.1	29.9	8302.5	3250.7
41	19T-262-227	4.0	99.0	98.0	62.6	69.9	25.3	8286.8	3244.8
6	233L1121	3.0	98.0	95.5	64.9	71.0	28.9	8260.7	3227.1

Continued.

Table 5. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
11	233L1197	4.0	99.5	100.0	66.8	71.3	22.0	8225.7	4145.1
27	233L1075	3.0	99.0	104.5	64.6	70.9	27.1	8184.6	3362.1
5	233L1108	4.0	103.5	99.5	67.0	71.9	29.2	8086.4	4409.2
45	233L1294	3.0	100.5	88.5	57.2	67.9	26.4	8064.8	4456.9
23	233L1062	2.0	107.0	105.5	59.9	69.0	22.8	7863.8	4348.6
10	233L1168	3.0	98.0	96.5	59.1	68.3	24.6	7773.8	3474.9
52	PVL04	3.0	105.5	106.0	63.8	71.6	29.7	7659.6	3976.3
13	233L1218	5.0	105.0	98.5	65.2	70.4	24.6	7246.3	3929.0

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

Table 6. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test – Clearfield. H. Rouse Caffey Rice Research Station, Rayne, LA – Late Planting.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
58	CLL18	-	75.0	109.5	59.4	70.0	25.3	10828.1	3668.2
54	19T-176-CONV-10	-	77.0	106.5	59.4	70.1	19.2	10594.4	4007.2
29	MP6_220	-	74.0	118.5	57.9	70.5	26.4	10533.5	3815.3
17	232L1217	-	69.0	95.5	62.0	71.6	26.0	10352.6	5141.5
51	232M1097	-	78.5	100.0	62.7	68.7	18.8	10283.8	3991.0
50	232M1070	-	76.5	103.0	61.0	70.1	18.6	10057.1	5431.8
44	232M1044	-	78.0	106.0	64.7	70.3	21.6	10042.1	4920.8
45	232M1046	-	80.0	105.5	63.6	70.9	25.7	9987.1	3466.7
52	232M1114	-	77.5	107.0	61.6	70.0	16.8	9905.6	4813.4
49	232M1064	-	77.0	101.5	64.7	71.0	25.6	9896.5	5614.2
60	CLM05	-	76.5	98.5	57.1	67.6	23.0	9828.5	3059.2
1	222A2014	-	70.0	107.0	65.7	72.0	18.9	9690.4	5309.8
18	232L1225	-	69.5	97.0	62.4	71.0	19.4	9676.8	4561.2
32	MP8_379	-	72.0	88.5	53.7	70.9	33.3	9660.6	5483.9
30	MP6_313	-	75.0	112.5	58.9	70.5	31.5	9638.5	5102.4
19	232L1226	-	72.5	97.5	60.5	70.8	22.6	9590.4	4453.3
53	19T-176-CL-64	-	76.5	102.0	57.0	69.5	18.3	9554.5	5443.8
33	232L1074	-	75.5	103.5	62.9	70.1	18.9	9449.5	4773.9
27	232L1268	-	73.0	97.5	56.9	69.1	28.0	9448.7	5249.6
2	232L1032	-	69.5	96.5	56.4	70.7	19.1	9421.9	5244.4
47	232M1051	-	80.5	98.0	60.8	68.2	19.1	9396.7	5247.0
13	232L1210	-	70.0	94.5	58.6	69.8	21.6	9382.5	4705.5
38	232L1171	-	75.5	99.5	67.5	72.3	15.1	9377.5	5717.5
20	232L1227	-	73.5	89.5	64.7	72.3	16.2	9366.2	4301.7
15	232L1213	-	69.5	90.0	63.4	72.3	24.4	9235.2	4485.0
12	232L1194	-	75.0	101.0	57.4	70.4	18.2	9234.1	4743.2
48	232M1063	-	76.5	100.0	60.4	69.2	28.3	9223.5	5023.1
46	232M1047	-	79.0	99.5	65.9	71.2	16.3	9200.6	5090.7
24	232L1242	-	70.0	98.5	61.2	72.0	22.6	9130.3	4021.0
11	232L1187	-	74.5	100.5	59.4	70.4	19.0	9118.6	4537.3
26	232L1251	-	71.5	94.5	61.4	71.5	19.9	9036.1	4677.7
43	231L2145	-	76.5	109.0	53.7	68.3	25.3	9026.0	3777.7
59	CLM04	-	77.5	105.0	62.1	69.2	18.2	8980.0	2287.2
22	232L1235	-	71.0	101.0	58.6	71.8	20.0	8975.5	3950.7
8	232L1101	-	72.0	94.0	59.9	70.8	22.8	8971.7	5036.9
10	232L1135	-	72.5	103.5	61.6	72.2	25.7	8940.4	4794.8
34	232L1075	-	75.0	93.0	64.9	71.2	15.6	8917.8	5784.3
39	232L1263	-	77.0	104.5	61.8	71.6	21.8	8915.6	4265.2
42	231L2007	-	74.5	108.0	52.7	67.1	19.4	8899.0	3161.7
35	232L1111	-	75.5	101.5	63.3	71.6	17.7	8757.3	3969.2
56	CL153	-	74.0	96.5	65.4	71.5	16.1	8741.8	4749.0
9	232L1131	-	68.5	98.0	60.9	71.6	19.1	8735.5	4515.8
41	232L1279	-	74.5	113.0	65.0	71.4	20.5	8678.6	4944.0
21	232L1233	-	71.0	102.0	60.5	71.2	27.0	8667.4	5051.1

Continued.

Table 6. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
57	CLL19	-	70.0	91.5	53.1	69.6	29.5	8655.0	3707.8
16	232L1215	-	60.0	99.5	55.0	70.6	23.9	8627.7	4018.8
37	232L1170	-	76.5	104.0	65.8	71.0	15.0	8618.0	6494.6
14	232L1211	-	68.5	94.5	59.7	71.4	19.3	8610.1	4110.6
36	232L1112	-	76.0	103.0	63.5	71.2	13.2	8531.6	5406.4
6	232L1044	-	71.0	106.0	56.5	69.9	24.9	8507.1	4407.7
4	232L1040	-	75.0	106.0	64.7	72.1	16.5	8472.0	5268.5
25	232L1245	-	71.0	103.5	61.4	71.3	21.2	8433.9	5383.5
28	232L1295	-	74.5	98.0	59.9	70.9	15.7	8413.9	4616.0
23	232L1240	-	67.0	94.5	56.7	70.4	19.2	8299.9	4343.9
7	232L1071	-	74.0	98.0	61.1	70.9	20.2	8279.6	4965.9
40	232L1278	-	76.0	103.5	65.1	70.5	15.2	8255.4	4955.9
3	232L1034	-	70.0	98.5	57.6	70.7	21.4	7953.0	3918.1
5	232L1043	-	71.0	100.0	54.5	69.1	15.0	7722.8	4508.5
31	MP8_187	-	73.0	120.5	52.9	68.8	29.6	7105.7	4757.7
55	CLJ01	-	76.0	97.5	65.7	72.2	13.6	6252.3	5019.5

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 7. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test Conventional. H. Rouse Caffey Rice Research Station, Rayne, LA – Late Planting.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
43	231M1103	-	74.5	110.5	57.4	68.6	21.1	11421.3	5659.6
45	231M1108	-	74.5	103.5	52.2	67.4	29.7	11314.7	2268.6
42	231M1102	-	74.5	106.5	46.3	67.9	15.2	11006.4	4939.0
51	Taurus	-	73.5	90.0	45.9	68.2	15.8	10904.2	4510.5
34	Venus	-	73.0	101.5	50.4	66.9	21.1	10863.5	5366.2
31	231L1256	-	71.0	96.5	56.0	69.9	20.5	10628.0	5464.1
1	211L1008	-	68.0	102.0	57.6	69.5	23.2	10573.0	4644.9
16	231L1103	-	70.0	97.5	61.8	71.1	20.0	10487.9	5444.7
12	231L1086	-	67.0	97.5	57.5	69.9	17.4	10476.7	5025.7
38	231M1056	-	77.0	108.5	55.6	67.7	19.4	10449.4	3950.4
46	DG263L	-	71.5	96.5	54.4	65.9	19.0	10443.7	2781.7
11	231L1085	-	68.5	100.5	54.4	70.5	16.9	10341.7	4693.6
36	231M1053	-	75.0	101.0	45.3	68.0	18.0	10244.0	4416.3
22	231L1261	-	72.5	111.0	59.4	70.8	18.9	10236.5	4455.5
40	231M1075	-	77.0	102.5	56.1	65.5	25.9	10209.4	2471.0
39	231M1058	-	74.0	107.0	49.1	69.2	14.1	10158.9	4292.3
44	231M1107	-	72.0	105.0	45.5	67.4	17.6	10115.5	3764.5
28	231L1241	-	71.0	104.0	58.0	70.3	19.3	10030.1	4015.9
52	Jupiter	-	78.0	98.0	58.8	66.6	19.5	9950.5	4952.8
24	231L1196	-	72.5	98.0	61.2	70.3	19.9	9906.6	4849.5
48	Avant	-	67.0	96.5	57.7	70.3	22.1	9885.0	4381.0
41	231M1076	-	76.5	104.0	53.8	67.4	15.8	9818.5	4794.3
4	231L1027	-	67.0	99.5	52.4	67.7	23.0	9794.1	4197.8
14	231L1094	-	70.5	101.0	63.1	71.7	18.3	9749.0	4873.7
29	231L1243	-	73.5	107.0	59.8	71.0	16.1	9733.2	4064.2
3	231L1018	-	77.0	92.0	59.9	70.2	12.9	9643.4	3507.7
2	MP8_104	-	72.0	95.5	54.5	68.9	18.3	9634.5	5066.0
6	231L1039	-	73.0	115.0	61.5	71.1	20.2	9568.7	4389.5
9	231L1082	-	70.0	99.5	60.6	71.9	14.5	9552.5	4227.4
20	231L1146	-	71.0	100.0	59.9	71.4	18.2	9532.5	4692.1
10	231L1084	-	71.5	96.0	60.4	71.4	15.2	9529.3	4333.9
21	231L1055	-	68.5	103.5	57.9	70.8	25.9	9513.9	3597.2
35	19T-176-CONV-2	-	77.5	113.5	45.3	67.9	12.7	9508.3	4778.3
37	231M1054	-	75.0	99.0	49.5	69.3	15.5	9396.1	4138.0
5	231L1029	-	66.0	101.0	56.3	70.7	24.9	9360.5	4573.8
7	231L1049	-	68.5	93.0	63.2	71.3	22.0	9347.3	4936.3
19	231L1121	-	69.0	99.5	57.7	69.6	28.1	9343.5	5550.7
23	231L1191	-	73.5	99.0	61.6	70.2	11.2	9238.9	5110.0
26	231L1208	-	73.5	104.0	62.7	70.7	15.4	9213.2	4690.3
27	231L1209	-	73.0	101.0	62.1	70.4	14.6	9134.2	4833.3
50	AddiJo	-	76.5	102.5	61.3	69.8	13.4	9035.6	4487.4
25	231L1207	-	70.0	97.0	55.2	69.1	20.2	9016.5	4950.3
30	231L1253	-	73.5	102.5	59.3	70.5	13.5	9012.1	4384.9
18	231L1115	-	68.5	92.5	58.5	70.0	19.0	9006.9	4757.8

Continued.

Table 7. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
8	231L1061	-	70.5	99.5	57.0	70.5	17.2	8917.6	4132.5
33	231L2064	-	75.0	107.5	51.9	66.8	26.1	8858.6	3437.0
32	231L1228	-	73.5	97.5	61.2	70.7	16.8	8707.8	4871.4
13	231L1093	-	70.0	96.0	63.4	72.5	15.6	8667.4	3891.0
15	231L1100	-	74.5	101.0	62.3	70.9	14.6	8491.4	4234.6
47	Della2	-	76.0	106.0	57.6	68.7	11.2	8197.0	4272.4
17	231L1107	-	72.5	102.5	63.8	71.8	15.5	7956.0	4281.9
49	Cheniere	-	73.5	95.0	63.1	71.7	10.5	7597.4	5588.7

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 8. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test – Provisia. H. Rouse Caffey Rice Research Station, Rayne, LA – Late Planting.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
33	233L1089	3.0	78.0	107.5	61.9	69.4	16.4	9980.3	4420.8
2	213L1041	2.0	76.0	114.5	63.6	71.1	21.6	9663.5	3353.7
36	233L1095	2.0	75.5	102.0	63.8	70.8	20.1	9625.1	3453.3
43	213L1140	3.0	78.5	104.0	51.4	66.3	15.9	9567.0	2735.6
32	233L1088	3.0	77.0	107.0	63.6	70.8	25.6	9527.8	3758.3
24	233L1063	3.0	81.0	105.5	54.2	65.9	25.5	9395.8	4149.6
21	233L1286	3.0	78.5	109.0	63.1	70.3	22.1	9348.2	3375.8
16	233L1268	3.0	79.0	108.5	69.7	73.6	21.0	9330.9	3815.6
25	233L1068	3.0	80.5	115.5	59.0	66.9	18.0	9250.4	4301.3
29	233L1081	2.0	78.5	102.0	66.3	71.6	22.3	9215.1	3706.5
1	213L1130	3.0	78.0	103.0	62.1	69.7	18.7	9183.1	3651.4
42	19T-262-206	3.0	78.0	101.5	61.8	70.0	18.5	9167.0	3436.5
15	233L1264	3.0	76.0	107.5	63.1	70.1	18.4	9132.0	3887.6
14	233L1262	3.0	76.0	110.0	61.9	69.9	22.7	9115.1	3303.8
30	233L1085	3.0	76.0	116.0	62.3	70.1	16.8	9039.1	3251.0
34	233L1091	3.0	78.5	105.0	71.4	74.3	13.4	9020.5	4014.0
7	233L1123	3.0	74.5	113.5	65.1	70.9	17.6	9019.3	3992.2
6	233L1121	3.0	78.0	114.0	62.0	69.2	16.5	8943.1	3681.8
8	233L1124	3.0	74.0	97.5	66.3	71.2	19.9	8925.2	3789.9
47	233L1225	5.0	80.5	110.5	64.8	70.1	17.2	8921.7	3746.0
37	19T-262-55	3.0	78.0	109.0	62.8	70.6	15.3	8883.7	3326.0
44	233L1237	1.0	72.5	105.5	54.0	66.8	25.3	8878.3	3009.7
51	PVL03	1.0	76.0	105.0	58.8	69.2	20.5	8865.6	3327.2
9	233L1125	5.0	77.0	96.0	66.1	71.3	16.4	8862.8	3043.6
40	19T-262-167	5.0	78.0	98.5	62.3	70.4	19.4	8846.5	3531.1
38	19T-262-255	3.0	77.5	108.5	63.4	70.5	17.6	8809.3	2808.2
35	233L1093	3.0	76.5	104.5	62.2	69.8	22.8	8808.6	3398.3
22	233L1061	3.0	80.0	92.0	60.6	68.0	19.1	8793.3	2294.3
39	19T-262-73	3.0	76.5	102.0	58.8	69.0	21.2	8765.4	3456.6
28	233L1079	3.0	79.5	110.0	65.3	71.8	22.0	8762.9	4636.4
50	233L1228	3.0	77.5	106.0	63.2	70.9	19.0	8750.7	3441.7
26	233L1074	3.0	75.5	114.0	69.9	73.4	20.7	8729.3	3879.4
5	233L1108	3.0	81.0	107.0	67.1	71.4	12.8	8625.5	4572.3
20	233L1284	3.0	76.5	113.5	61.3	69.2	20.4	8570.8	3950.4
48	233L1227	3.0	79.0	107.5	62.2	69.0	14.0	8562.5	3661.1
41	19T-262-227	4.0	78.5	108.0	65.6	71.1	15.5	8562.3	3766.7
4	233L1020	2.0	82.0	105.0	67.1	71.9	17.0	8557.6	3155.5
27	233L1075	2.0	78.0	101.5	60.6	67.9	17.6	8497.5	4136.8
17	233L1269	3.0	77.0	104.5	63.0	69.8	18.4	8486.8	3217.7
31	233L1086	3.0	75.5	105.0	65.6	71.4	18.3	8461.7	3559.3
18	233L1271	3.0	78.5	116.0	65.1	70.7	14.9	8415.9	3514.6
19	233L1283	3.0	78.5	115.0	62.8	69.5	20.1	8364.0	3616.0
23	233L1062	3.0	86.0	116.5	64.1	70.1	11.1	8180.7	2702.2
49	233L1232	3.0	73.5	97.5	62.0	69.6	24.2	8066.2	3701.0

Continued.

Table 8. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
12	233L1203	3.0	81.0	116.5	65.5	71.1	12.4	8004.9	3424.5
3	233L1018	2.0	83.5	109.0	65.5	70.2	13.0	7966.1	4537.6
11	233L1197	2.0	78.0	98.5	67.8	72.2	16.8	7930.4	3690.0
46	233L1206	3.0	82.0	105.0	59.9	69.0	13.8	7897.1	3715.7
52	PVL04	3.0	81.5	107.0	66.9	72.5	23.1	7852.4	2935.1
10	233L1168	3.0	75.5	100.5	58.2	68.2	21.1	7834.4	3785.5
13	233L1218	3.0	81.5	107.5	63.4	68.9	12.3	7360.2	4646.8
45	233L1294	3.0	82.0	93.5	60.0	68.8	13.8	6684.1	4217.5

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

Table 9. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test – Clearfield. H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
60	CLM05	1.0	94.0	103.5	60.2	66.9	20.3	12675.9	4218.7
52	232M1114	2.0	92.5	109.0	63.0	68.7	20.8	12349.2	3192.7
58	CLL18	1.0	92.5	113.5	56.1	67.9	35.5	11995.7	4202.9
51	232M1097	3.0	93.5	103.5	62.6	67.8	19.5	11982.2	4744.9
59	CLM04	1.0	93.0	108.5	63.8	68.5	19.7	11744.3	3757.9
50	232M1070	3.0	92.0	107.5	68.0	65.9	18.8	11301.3	3014.4
11	232L1187	3.0	90.5	104.0	57.6	68.2	25.8	11197.7	3167.3
54	19T-176-CONV-10	1.0	92.0	106.5	61.3	68.1	19.3	11192.6	2654.1
33	232L1074	3.0	90.0	105.5	64.9	71.2	18.9	11169.8	2825.8
22	232L1235	3.0	88.0	102.5	65.1	72.1	19.1	10602.5	2013.2
38	232L1171	3.0	91.0	104.5	62.9	69.2	16.2	10474.8	2893.4
53	19T-176-CL-64	2.0	92.5	106.5	62.4	68.5	19.3	10407.3	2895.4
37	232L1170	3.0	91.5	107.0	62.8	69.8	22.1	10390.9	3697.3
3	232L1034	3.0	88.0	104.5	65.0	71.1	22.3	10315.1	3581.0
56	CL153	3.0	90.5	104.5	64.8	70.6	19.1	10240.4	3041.7
47	232M1051	2.0	95.0	98.0	63.7	69.1	19.7	10170.9	4133.0
45	232M1046	2.0	94.5	109.5	64.0	68.7	28.7	10117.6	4655.3
32	MP8_379	2.0	87.5	97.5	57.9	68.8	32.8	10085.7	4421.9
44	232M1044	2.0	95.0	109.0	62.5	68.2	19.9	10067.9	4258.4
57	CLL19	3.0	87.0	95.5	58.0	68.0	25.6	10040.8	3496.4
7	232L1071	3.0	91.0	105.0	59.9	68.9	24.3	9968.4	3797.2
34	232L1075	3.0	90.0	94.0	59.7	68.8	18.9	9962.3	2923.9
46	232M1047	2.0	95.0	109.0	65.9	69.3	16.4	9919.3	4091.1
12	232L1194	2.0	89.5	108.0	58.5	69.3	16.3	9912.3	3784.4
24	232L1242	2.0	86.0	102.0	64.7	71.3	21.8	9848.0	2896.7
15	232L1213	3.0	87.5	93.5	65.6	70.1	19.5	9791.7	2665.7
27	232L1268	3.0	89.0	102.0	59.4	69.0	28.2	9783.0	3523.0
13	232L1210	3.0	86.5	95.5	60.9	68.8	20.9	9718.0	3146.5
20	232L1227	3.0	91.0	96.0	62.9	71.1	15.8	9624.3	3486.0
2	232L1032	2.0	87.0	100.0	62.2	69.5	20.0	9578.7	2793.6
4	232L1040	3.0	90.5	109.5	63.1	70.4	20.2	9576.5	3684.8
25	232L1245	2.0	87.5	113.5	64.1	70.6	21.3	9401.0	3336.1
5	232L1043	3.0	87.5	96.0	63.2	70.0	19.3	9370.9	3096.5
41	232L1279	3.0	86.5	107.0	63.3	70.5	19.6	9269.0	2796.8
48	232M1063	3.0	93.0	94.5	59.2	67.8	27.8	9248.6	3555.2
30	MP6_313	3.0	91.5	114.5	55.9	69.0	33.5	9233.2	4403.4
8	232L1101	3.0	88.0	99.5	63.2	70.0	21.9	9230.9	3054.6
49	232M1064	3.0	94.5	106.0	63.4	68.5	24.6	9204.1	3815.9
43	231L2145	3.0	93.0	103.0	52.5	67.2	31.7	9155.6	4831.5
19	232L1226	3.0	88.5	97.5	62.6	62.1	20.9	8926.0	3864.3
18	232L1225	3.0	86.0	93.0	65.7	70.9	14.3	8874.3	2933.9
23	232L1240	1.0	85.5	102.0	66.1	71.1	17.5	8873.4	3251.5
14	232L1211	3.0	85.5	93.5	61.4	69.1	15.4	8759.6	3388.8
39	232L1263	3.0	89.0	102.0	57.0	68.4	25.2	8743.8	3728.4

Continued.

Table 9. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
1	222A2014	3.0	88.5	110.5	62.4	69.5	12.2	8521.5	2762.8
40	232L1278	2.0	90.0	99.5	60.1	68.9	17.6	8493.7	3220.0
55	CLJ01	3.0	94.5	100.0	67.9	71.7	10.3	8460.7	3106.6
21	232L1233	2.0	87.5	97.5	63.4	71.1	26.6	8409.9	2327.0
10	232L1135	2.0	88.5	102.0	62.7	71.0	27.7	8189.1	3709.7
17	232L1217	3.0	85.5	92.5	64.1	71.3	20.8	8128.3	3521.7
35	232L1111	3.0	91.5	104.5	57.3	69.5	18.5	7885.2	3108.3
42	231L2007	3.0	88.5	105.0	45.8	63.4	23.7	7876.2	3673.8
9	232L1131	3.0	86.0	98.0	60.7	70.0	16.2	7854.8	3443.8
36	232L1112	3.0	94.0	106.0	57.6	68.0	17.2	7702.2	3875.3
28	232L1295	3.0	92.0	100.0	63.1	70.1	19.8	7454.4	4137.8
26	232L1251	3.0	87.0	104.5	60.0	70.3	17.2	7364.1	1879.2
6	232L1044	2.0	87.5	104.5	56.3	67.3	25.2	6716.1	3557.7
16	232L1215	2.0	83.5	95.5	56.8	68.1	24.1	6630.6	2890.7
29	MP6_220	1.0	87.0	113.0	50.2	65.9	30.6	6293.5	4424.4
31	MP8_187	2.0	88.0	126.5	58.4	68.2	24.2	5025.0	2795.2

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

Table 10. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test – Conventional. H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
45	231M1108	2.0	92.0	102.5	63.1	68.8	36.1	12066.8	3881.9
40	231M1075	3.0	94.0	98.0	57.4	66.0	36.7	11748.7	3271.4
34	Venus	3.0	92.0	101.5	63.3	67.8	21.1	11652.5	3914.8
41	231M1076	3.0	96.0	105.0	63.7	68.3	18.2	11453.0	3314.2
43	231M1103	3.0	91.0	108.0	62.7	68.3	24.2	11170.3	3328.5
44	231M1107	2.0	88.5	103.0	62.5	67.6	19.2	11158.5	4154.2
52	Jupiter	3.0	97.0	96.5	62.4	67.9	31.8	11110.1	4155.9
42	231M1102	3.0	92.0	101.0	64.2	68.7	15.6	10912.5	3764.2
22	231L1261	2.0	88.0	108.0	60.7	69.4	26.7	10873.5	3343.0
51	Taurus	1.0	92.0	89.0	59.4	68.5	14.8	10797.5	3272.2
15	231L1100	3.0	96.5	101.5	62.3	70.2	23.0	10732.3	4461.5
32	231L1228	3.0	90.5	100.0	60.7	70.5	24.9	10617.7	3513.5
36	231M1053	1.0	94.0	105.0	60.9	67.6	16.8	10594.5	2870.5
25	231L1207	3.0	88.0	95.0	63.1	70.7	26.1	10549.8	3175.3
26	231L1208	2.0	91.5	103.5	59.9	69.0	24.0	10540.5	3491.2
17	231L1107	3.0	89.0	101.0	62.5	70.9	23.4	10523.3	3801.5
29	231L1243	3.0	89.5	107.5	62.1	69.8	21.0	10435.3	3113.7
20	231L1146	3.0	89.0	102.5	63.5	70.8	22.2	10423.0	2872.7
35	19T-176-CONV-2	2.0	92.0	120.0	62.5	68.7	13.3	10411.9	2077.7
9	231L1082	3.0	85.5	100.5	65.1	70.9	17.9	10387.7	3189.7
28	231L1241	3.0	89.0	104.0	61.4	66.0	22.2	10374.2	2695.9
23	231L1191	3.0	95.0	95.5	62.2	69.8	21.6	10352.8	3674.1
16	231L1103	3.0	88.5	103.5	64.4	71.1	20.9	10323.9	3528.2
38	231M1056	3.0	95.5	107.0	61.5	68.3	26.4	10302.9	2989.6
27	231L1209	3.0	92.0	99.0	62.5	69.9	25.7	10295.9	3460.4
2	MP8_104	3.0	88.0	92.5	59.0	68.3	21.8	10219.5	3195.3
5	231L1029	2.0	85.5	101.0	63.0	70.7	24.7	10206.5	3508.4
14	231L1094	3.0	89.0	103.0	64.6	71.4	21.3	10146.9	3524.1
11	231L1085	2.0	85.0	102.0	63.0	70.5	18.3	10138.7	3388.4
37	231M1054	2.0	93.5	105.5	59.7	68.0	17.9	10110.4	3012.4
39	231M1058	2.0	91.5	102.5	63.6	69.2	12.2	10098.4	2678.7
12	231L1086	2.0	84.5	97.5	61.8	69.8	17.7	10075.2	3041.3
19	231L1121	3.0	85.0	96.0	62.4	70.2	27.3	10059.3	3255.9
6	231L1039	3.0	92.5	115.5	60.7	68.8	23.0	10037.0	3184.5
48	Avant	3.0	84.0	95.0	64.1	70.5	19.8	9992.4	3130.9
24	231L1196	3.0	92.5	96.0	61.8	70.4	24.9	9964.3	3107.5
46	DG263L	3.0	93.0	100.5	55.4	65.5	26.5	9961.7	3588.2
3	231L1018	3.0	93.0	93.0	61.9	69.1	22.2	9952.2	3917.1
50	AddiJo	2.0	90.5	100.5	59.4	69.5	24.2	9947.6	4369.6
10	231L1084	3.0	88.0	96.5	63.3	70.9	18.2	9901.8	3681.0
49	Cheniere	3.0	93.5	99.0	62.5	71.1	17.7	9824.0	3196.3
4	231L1027	3.0	84.0	100.5	61.9	69.7	21.3	9786.7	3771.1
13	231L1093	3.0	86.5	93.5	62.5	70.0	17.2	9704.2	3201.3
30	231L1253	3.0	91.5	99.5	61.7	70.1	17.6	9638.5	3074.3

Continued.

Table 10. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
7	231L1049	3.0	84.0	92.5	63.8	69.9	24.1	9571.1	3802.1
1	211L1008	3.0	85.5	100.5	60.9	69.1	21.7	9513.7	3744.7
18	231L1115	3.0	85.0	92.0	62.1	69.4	22.5	9481.5	3024.2
8	231L1061	3.0	88.0	102.0	61.3	69.7	21.2	9451.5	3377.3
31	231L1256	2.0	90.5	102.0	59.8	69.3	24.3	9320.5	2821.3
21	231L1055	3.0	86.5	103.5	59.0	68.9	20.2	8767.7	2894.5
33	231L2064	3.0	89.0	104.0	53.8	66.0	31.8	8699.1	3711.6
47	Della2	2.0	97.0	102.0	59.5	67.7	16.5	8204.8	3140.2

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

Table 11. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test – Provisia. H. Rouse Caffey Rice Research Station – South Farm, Crowley, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
43	213L1140	2.0	93.5	103.0	48.2	66.0	16.45	10718.1	3034.1
14	233L1262	2.0	88.5	103.0	59.2	68.7	19.15	10547.1	2522.4
32	233L1088	1.0	90.0	115.0	62.1	69.8	21.1	10346.1	2437.6
44	233L1237	2.0	89.0	99.5	55.7	67.2	21.9	10265.6	2809.4
16	233L1268	2.0	91.0	106.0	64.8	70.7	15.25	10224.4	2647.6
35	233L1093	3.0	90.5	106.5	58.9	67.8	17.35	10075.6	2422.2
8	233L1124	3.0	88.5	97.0	63.6	70.3	17.05	10017.1	1958.6
33	233L1089	1.0	90.5	98.0	64.1	70.1	8.7	9991.9	2743.3
1	213L1130	3.0	91.5	101.5	58.7	68.2	16.6	9848.3	2414.1
48	233L1227	3.0	90.5	106.0	62.8	70.5	14.45	9845.9	3194.2
31	233L1086	2.0	89.0	96.0	63.1	69.6	13.95	9791.9	2165.5
22	233L1061	2.0	94.5	93.5	58.6	68.0	22.1	9718.6	3245.3
26	233L1074	3.0	87.5	99.0	65.2	71.1	15.75	9673.0	2534.6
17	233L1269	3.0	90.5	101.0	59.8	68.3	17.05	9624.0	2431.5
15	233L1264	2.0	90.0	104.5	61.4	68.8	13.45	9609.7	2321.7
5	233L1108	2.0	93.0	104.5	65.3	70.9	14.7	9603.5	2553.0
24	233L1063	3.0	95.5	102.0	52.5	65.4	27.4	9597.9	4382.1
51	PVL03	2.0	92.0	107.5	55.4	67.6	15.85	9576.4	2404.4
28	233L1079	2.0	90.5	99.0	63.6	70.5	19.45	9534.1	3021.8
37	19T-262-55	3.0	92.5	106.0	58.5	68.4	10.45	9465.1	1999.5
47	233L1225	3.0	92.0	103.0	61.1	68.5	18.9	9459.5	3019.6
6	233L1121	3.0	90.0	97.5	61.5	69.6	13.45	9444.1	2201.9
18	233L1271	1.0	92.0	105.0	62.5	69.4	12.25	9424.6	2058.0
2	213L1041	3.0	90.0	109.0	59.7	69.3	17.6	9404.8	2246.2
50	233L1228	3.0	89.5	102.0	62.9	69.8	13.95	9380.4	2650.6
52	PVL04	3.0	95.0	109.0	60.6	69.6	21.6	9368.6	3023.2
36	233L1095	1.0	87.5	98.0	60.6	69.5	9.25	9334.5	2890.6
34	233L1091	2.0	92.0	103.5	67.4	72.1	8.5	9309.7	2342.2
27	233L1075	4.0	90.5	101.5	62.9	70.0	13.95	9302.4	2578.1
29	233L1081	3.0	92.0	102.5	61.6	69.2	14.75	9301.9	2966.6
13	233L1218	3.0	95.0	104.5	61.4	68.0	10.9	9237.8	2187.1
38	19T-262-255	1.0	89.5	109.0	56.6	67.2	10.8	9227.1	2369.4
9	233L1125	4.0	89.0	92.0	63.2	69.4	9.4	9151.7	1983.9
42	19T-262-206	3.0	91.0	102.5	58.3	68.0	10.55	9151.4	2025.1
4	233L1020	3.0	95.0	102.0	61.6	69.4	12.95	9058.1	3589.8
12	233L1203	2.0	93.5	101.5	61.0	69.5	11.85	9036.9	2593.5
40	19T-262-167	3.0	92.5	98.5	58.5	68.0	12.25	8969.8	2028.4
30	233L1085	2.0	88.5	102.0	60.1	69.2	12.65	8953.1	2640.1
41	19T-262-227	2.0	90.5	98.0	60.6	68.6	6.1	8932.0	2303.3
21	233L1286	3.0	93.0	99.0	60.0	68.1	24.25	8930.6	2723.6
7	233L1123	2.0	87.5	96.5	62.6	69.8	12	8900.3	2751.1
39	19T-262-73	2.0	89.0	104.5	57.1	68.3	15.8	8893.7	1796.9
19	233L1283	2.0	92.0	105.5	61.0	68.5	16.85	8705.9	1797.3
20	233L1284	4.0	91.0	99.0	60.1	68.2	11.45	8673.4	2371.3

Continued.

Table 11. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
3	233L1018	3.0	95.5	105.0	62.2	69.0	11.95	8651.4	3600.6
11	233L1197	3.0	90.5	107.0	62.6	69.3	7.7	8633.4	2362.3
49	233L1232	1.0	88.0	94.0	61.1	69.8	20.75	8625.4	2710.1
25	233L1068	2.0	94.5	108.0	54.5	66.0	22.35	8332.1	3997.8
45	233L1294	3.0	93.5	99.0	55.6	67.7	17.25	8281.5	3642.2
10	233L1168	3.0	90.0	105.0	56.7	66.2	13.55	8269.2	2827.3
46	233L1206	3.0	95.5	97.5	56.0	68.0	16.75	8192.7	2959.0
23	233L1062	3.0	96.0	107.5	55.4	66.9	16.95	7507.6	4242.6

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

Table 12. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test – Clearfield. Winnsboro, Franklin Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
50	232M1070	-	-	-	-	-	-	9516.4	-
32	MP8_379	-	-	-	-	-	-	9246.5	-
53	19T-176-CL-64	-	-	-	-	-	-	8957.1	-
44	232M1044	-	-	-	-	-	-	8938.3	-
13	232L1210	-	-	-	-	-	-	8902.9	-
54	19T-176-CONV-10	-	-	-	-	-	-	8873.5	-
27	232L1268	-	-	-	-	-	-	8772.0	-
29	MP6_220	-	-	-	-	-	-	8609.1	-
58	CLL18	-	-	-	-	-	-	8488.3	-
37	232L1170	-	-	-	-	-	-	8464.6	-
33	232L1074	-	-	-	-	-	-	8437.2	-
49	232M1064	-	-	-	-	-	-	8417.7	-
24	232L1242	-	-	-	-	-	-	8415.0	-
12	232L1194	-	-	-	-	-	-	8368.3	-
52	232M1114	-	-	-	-	-	-	8356.5	-
42	231L2007	-	-	-	-	-	-	8323.0	-
45	232M1046	-	-	-	-	-	-	8307.0	-
31	MP8_187	-	-	-	-	-	-	8259.1	-
19	232L1226	-	-	-	-	-	-	8167.2	-
35	232L1111	-	-	-	-	-	-	8089.0	-
51	232M1097	-	-	-	-	-	-	8026.3	-
15	232L1213	-	-	-	-	-	-	8023.0	-
30	MP6_313	-	-	-	-	-	-	8008.6	-
2	232L1032	-	-	-	-	-	-	8001.3	-
36	232L1112	-	-	-	-	-	-	7979.6	-
60	CLM05	-	-	-	-	-	-	7962.7	-
17	232L1217	-	-	-	-	-	-	7930.4	-
8	232L1101	-	-	-	-	-	-	7858.7	-
48	232M1063	-	-	-	-	-	-	7847.4	-
1	222A2014	-	-	-	-	-	-	7833.4	-
14	232L1211	-	-	-	-	-	-	7800.8	-
9	232L1131	-	-	-	-	-	-	7754.6	-
40	232L1278	-	-	-	-	-	-	7748.8	-
18	232L1225	-	-	-	-	-	-	7673.2	-
5	232L1043	-	-	-	-	-	-	7641.6	-
34	232L1075	-	-	-	-	-	-	7631.6	-
16	232L1215	-	-	-	-	-	-	7617.1	-
4	232L1040	-	-	-	-	-	-	7569.2	-
46	232M1047	-	-	-	-	-	-	7443.4	-
22	232L1235	-	-	-	-	-	-	7392.9	-
57	CLL19	-	-	-	-	-	-	7336.5	-
6	232L1044	-	-	-	-	-	-	7322.1	-
41	232L1279	-	-	-	-	-	-	7298.1	-
39	232L1263	-	-	-	-	-	-	7269.4	-

Continued.

Table 12. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
11	232L1187	-	-	-	-	-	-	7212.7	-
7	232L1071	-	-	-	-	-	-	7140.2	-
59	CLM04	-	-	-	-	-	-	7137.5	-
10	232L1135	-	-	-	-	-	-	7074.5	-
25	232L1245	-	-	-	-	-	-	7056.2	-
26	232L1251	-	-	-	-	-	-	7054.4	-
47	232M1051	-	-	-	-	-	-	7043.9	-
43	231L2145	-	-	-	-	-	-	6990.4	-
38	232L1171	-	-	-	-	-	-	6983.2	-
23	232L1240	-	-	-	-	-	-	6924.1	-
21	232L1233	-	-	-	-	-	-	6868.7	-
20	232L1227	-	-	-	-	-	-	6774.1	-
3	232L1034	-	-	-	-	-	-	6667.1	-
56	CL153	-	-	-	-	-	-	6606.3	-
28	232L1295	-	-	-	-	-	-	5408.1	-
55	CLJ01	-	-	-	-	-	-	4554.0	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 13. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test – Conventional. Winnsboro, Franklin Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
51	Taurus	-	-	-	-	-	-	9877.8	-
43	231M1103	-	-	-	-	-	-	9776.4	-
44	231M1107	-	-	-	-	-	-	9455.0	-
9	231L1082	-	-	-	-	-	-	9423.3	-
46	DG263L	-	-	-	-	-	-	9382.4	-
36	231M1053	-	-	-	-	-	-	9339.9	-
35	19T-176-CONV-2	-	-	-	-	-	-	9338.1	-
18	231L1115	-	-	-	-	-	-	9251.7	-
29	231L1243	-	-	-	-	-	-	9251.6	-
11	231L1085	-	-	-	-	-	-	9234.0	-
27	231L1209	-	-	-	-	-	-	9114.6	-
34	Venus	-	-	-	-	-	-	9092.8	-
40	231M1075	-	-	-	-	-	-	9077.3	-
4	231L1027	-	-	-	-	-	-	9035.1	-
16	231L1103	-	-	-	-	-	-	9016.6	-
13	231L1093	-	-	-	-	-	-	9007.9	-
48	Avant	-	-	-	-	-	-	8972.7	-
15	231L1100	-	-	-	-	-	-	8964.6	-
45	231M1108	-	-	-	-	-	-	8909.3	-
39	231M1058	-	-	-	-	-	-	8874.8	-
17	231L1107	-	-	-	-	-	-	8795.9	-
42	231M1102	-	-	-	-	-	-	8793.8	-
1	211L1008	-	-	-	-	-	-	8741.3	-
25	231L1207	-	-	-	-	-	-	8732.4	-
28	231L1241	-	-	-	-	-	-	8712.5	-
8	231L1061	-	-	-	-	-	-	8711.8	-
21	231L1055	-	-	-	-	-	-	8628.8	-
10	231L1084	-	-	-	-	-	-	8627.5	-
6	231L1039	-	-	-	-	-	-	8539.7	-
38	231M1056	-	-	-	-	-	-	8489.7	-
37	231M1054	-	-	-	-	-	-	8459.1	-
33	231L2064	-	-	-	-	-	-	8457.4	-
24	231L1196	-	-	-	-	-	-	8395.3	-
7	231L1049	-	-	-	-	-	-	8395.3	-
22	231L1261	-	-	-	-	-	-	8325.7	-
2	MP8_104	-	-	-	-	-	-	8270.2	-
14	231L1094	-	-	-	-	-	-	8243.9	-
12	231L1086	-	-	-	-	-	-	8235.3	-
19	231L1121	-	-	-	-	-	-	8146.7	-
26	231L1208	-	-	-	-	-	-	8008.1	-
31	231L1256	-	-	-	-	-	-	7957.0	-
49	Cheniere	-	-	-	-	-	-	7944.7	-
5	231L1029	-	-	-	-	-	-	7941.1	-
50	AddiJo	-	-	-	-	-	-	7737.5	-

Continued.

Table 13. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
30	231L1253	-	-	-	-	-	-	7557.0	-
32	231L1228	-	-	-	-	-	-	7464.9	-
41	231M1076	-	-	-	-	-	-	7413.4	-
47	Della2	-	-	-	-	-	-	7360.8	-
3	231L1018	-	-	-	-	-	-	7108.8	-
23	231L1191	-	-	-	-	-	-	6938.7	-
52	Jupiter	-	-	-	-	-	-	6809.5	-
20	231L1146	-	-	-	-	-	-	5218.9	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 14. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test – Provisia. Lake Arthur, Vermilion Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
35	233L1093	-	-	-	-	-	-	12060.7	-
28	233L1079	-	-	-	-	-	-	9942.4	-
43	213L1140	-	-	-	-	-	-	8877.9	-
33	233L1089	-	-	-	-	-	-	8741.5	-
30	233L1085	-	-	-	-	-	-	8697.0	-
29	233L1081	-	-	-	-	-	-	8634.0	-
27	233L1075	-	-	-	-	-	-	8558.6	-
14	233L1262	-	-	-	-	-	-	8545.6	-
38	19T-262-255	-	-	-	-	-	-	8499.7	-
32	233L1088	-	-	-	-	-	-	8496.8	-
51	PVL03	-	-	-	-	-	-	8385.2	-
37	19T-262-55	-	-	-	-	-	-	8339.9	-
24	233L1063	-	-	-	-	-	-	8339.9	-
39	19T-262-73	-	-	-	-	-	-	8264.8	-
42	19T-262-206	-	-	-	-	-	-	8160.4	-
7	233L1123	-	-	-	-	-	-	7969.1	-
4	233L1020	-	-	-	-	-	-	7910.8	-
40	19T-262-167	-	-	-	-	-	-	7903.3	-
41	19T-262-227	-	-	-	-	-	-	7898.5	-
12	233L1203	-	-	-	-	-	-	7784.6	-
22	233L1061	-	-	-	-	-	-	7772.3	-
50	233L1228	-	-	-	-	-	-	7665.5	-
26	233L1074	-	-	-	-	-	-	7648.7	-
46	233L1206	-	-	-	-	-	-	7568.3	-
31	233L1086	-	-	-	-	-	-	7543.8	-
1	213L1130	-	-	-	-	-	-	7450.9	-
23	233L1062	-	-	-	-	-	-	7427.6	-
15	233L1264	-	-	-	-	-	-	7398.6	-
11	233L1197	-	-	-	-	-	-	7384.2	-
36	233L1095	-	-	-	-	-	-	7364.5	-
44	233L1237	-	-	-	-	-	-	7190.1	-
6	233L1121	-	-	-	-	-	-	6948.9	-
10	233L1168	-	-	-	-	-	-	6693.4	-
49	233L1232	-	-	-	-	-	-	6691.0	-
47	233L1225	-	-	-	-	-	-	6690.5	-
16	233L1268	-	-	-	-	-	-	6614.7	-
48	233L1227	-	-	-	-	-	-	6569.3	-
3	233L1018	-	-	-	-	-	-	6563.8	-
9	233L1125	-	-	-	-	-	-	6551.0	-
45	233L1294	-	-	-	-	-	-	6518.2	-
20	233L1284	-	-	-	-	-	-	5814.4	-
21	233L1286	-	-	-	-	-	-	5810.2	-
17	233L1269	-	-	-	-	-	-	5732.9	-
5	233L1108	-	-	-	-	-	-	5728.9	-

Continued.

Table 14. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
18	233L1271	-	-	-	-	-	-	5647.0	-
13	233L1218	-	-	-	-	-	-	5399.4	-
34	233L1091	-	-	-	-	-	-	5067.9	-
8	233L1124	-	-	-	-	-	-	4671.3	-
2	213L1041	-	-	-	-	-	-	4564.9	-
19	233L1283	-	-	-	-	-	-	3690.2	-
25	233L1068	-	-	-	-	-	-	3603.2	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 15. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test – Clearfield. Lake Arthur, Vermilion Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
18	232L1225	-	-	88.5	59.3	69.9	12.9	8469.6	-
54	19T-176-CONV-10	-	-	92.5	55.2	67.7	20.4	8436.0	-
32	MP8_379	-	-	103.5	55.4	69.0	25.7	8334.0	-
44	232M1044	-	-	104.0	59.0	68.5	19.8	8322.1	-
57	CLL19	-	-	90.0	53.4	68.1	26.3	8297.3	-
58	CLL18	-	-	106.5	53.4	66.9	24.7	8193.0	-
17	232L1217	-	-	87.0	59.8	70.4	22.1	8169.6	-
37	232L1170	-	-	104.5	57.5	68.5	18.8	8146.2	-
46	232M1047	-	-	98.0	63.7	70.2	16.7	8126.3	-
35	232L1111	-	-	101.5	58.8	70.0	14.4	8033.0	-
49	232M1064	-	-	96.0	61.1	69.3	23.9	8020.4	-
21	232L1233	-	-	98.0	59.4	70.0	23.0	7977.4	-
24	232L1242	-	-	95.5	60.2	70.5	21.9	7969.2	-
19	232L1226	-	-	95.5	57.4	67.9	16.2	7936.3	-
51	232M1097	-	-	101.0	57.7	67.0	16.6	7924.4	-
14	232L1211	-	-	85.5	59.0	70.0	14.5	7922.1	-
56	CL153	-	-	95.5	61.8	70.1	13.9	7815.9	-
60	CLM05	-	-	92.5	56.1	65.5	21.2	7809.0	-
13	232L1210	-	-	90.0	58.7	68.3	16.6	7798.6	-
59	CLM04	-	-	104.0	59.8	66.7	20.1	7750.7	-
27	232L1268	-	-	93.5	55.1	68.1	23.5	7685.1	-
33	232L1074	-	-	94.5	57.3	69.0	15.5	7682.3	-
52	232M1114	-	-	103.5	58.4	68.7	18.3	7664.5	-
48	232M1063	-	-	92.5	56.4	68.3	26.9	7640.8	-
20	232L1227	-	-	86.0	61.0	69.4	12.0	7531.9	-
8	232L1101	-	-	93.5	61.0	69.5	21.7	7520.3	-
38	232L1171	-	-	101.5	59.4	69.8	12.8	7504.2	-
5	232L1043	-	-	95.5	58.6	68.7	17.1	7402.3	-
3	232L1034	-	-	94.5	60.2	71.8	21.5	7388.1	-
53	19T-176-CL-64	-	-	104.0	53.5	66.6	22.8	7382.7	-
50	232M1070	-	-	96.5	54.8	66.6	22.5	7376.9	-
10	232L1135	-	-	95.0	59.1	69.8	24.1	7369.2	-
43	231L2145	-	-	105.0	52.1	67.4	25.6	7365.9	-
11	232L1187	-	-	100.5	59.0	68.1	16.9	7346.7	-
25	232L1245	-	-	103.0	61.3	70.6	17.6	7318.3	-
36	232L1112	-	-	102.0	56.8	68.6	12.0	7304.2	-
15	232L1213	-	-	88.0	61.2	69.5	17.9	7261.1	-
34	232L1075	-	-	99.5	58.8	68.9	15.8	7241.0	-
12	232L1194	-	-	102.0	55.1	68.9	16.8	7080.1	-
26	232L1251	-	-	95.0	61.6	70.6	14.1	7027.7	-
7	232L1071	-	-	93.5	58.8	68.2	18.9	7002.5	-
29	MP6_220	-	-	113.5	54.6	68.4	22.0	6976.3	-
45	232M1046	-	-	101.5	59.7	68.1	22.9	6920.6	-
2	232L1032	-	-	94.5	56.9	68.2	18.1	6899.9	-

Continued.

Table 15. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
22	232L1235	-	-	107.0	57.8	70.7	12.9	6889.7	-
47	232M1051	-	-	99.5	55.1	65.8	20.3	6857.4	-
4	232L1040	-	-	102.0	59.2	69.4	16.9	6840.0	-
1	222A2014	-	-	103.5	59.7	69.5	14.5	6769.0	-
42	231L2007	-	-	101.0	47.4	59.0	19.0	6726.6	-
28	232L1295	-	-	93.0	58.5	68.4	18.6	6689.5	-
9	232L1131	-	-	87.5	58.0	69.9	16.7	6492.9	-
39	232L1263	-	-	99.0	57.4	68.0	16.5	6445.8	-
16	232L1215	-	-	97.0	54.8	68.4	21.2	6382.3	-
55	CLJ01	-	-	99.0	62.3	70.8	12.6	6311.6	-
6	232L1044	-	-	97.0	55.3	67.3	23.7	6268.7	-
41	232L1279	-	-	112.0	57.9	68.4	18.9	6181.8	-
40	232L1278	-	-	104.5	55.4	66.2	16.7	6005.9	-
23	232L1240	-	-	97.0	62.6	69.9	17.1	5919.7	-
30	MP6_313	-	-	102.0	55.9	68.5	24.5	5915.6	-
31	MP8_187	-	-	108.5	53.3	67.8	24.1	4015.9	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 16. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test – Conventional. Lake Arthur, Vermilion Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
28	231L1241	-	-	100.0	54.7	67.7	18.3	9223.1	-
29	231L1243	-	-	103.0	53.9	67.2	17.4	9067.2	-
46	DG263L	-	-	97.0	56.6	66.0	22.0	8902.6	-
39	231M1058	-	-	101.0	55.3	68.0	14.2	8676.5	-
24	231L1196	-	-	97.0	58.2	68.5	22.2	8656.7	-
6	231L1039	-	-	97.5	55.2	67.4	23.5	8605.1	-
45	231M1108	-	-	99.5	53.4	66.2	25.4	8532.4	-
12	231L1086	-	-	88.0	59.0	69.1	17.1	8448.6	-
1	211L1008	-	-	92.5	59.0	69.4	19.4	8291.6	-
41	231M1076	-	-	98.0	51.0	63.5	18.0	8271.2	-
31	231L1256	-	-	103.5	55.0	68.9	24.1	8221.9	-
51	Taurus	-	-	84.5	49.2	65.7	15.5	8121.3	-
38	231M1056	-	-	98.0	56.9	66.6	20.6	8108.7	-
43	231M1103	-	-	98.0	55.6	67.6	22.8	8101.6	-
27	231L1209	-	-	94.5	59.3	69.2	15.9	8097.0	-
16	231L1103	-	-	94.5	57.0	68.3	17.8	8086.9	-
11	231L1085	-	-	93.0	50.1	66.9	15.3	8082.1	-
22	231L1261	-	-	91.5	50.1	67.4	24.6	8015.6	-
20	231L1146	-	-	95.0	56.5	68.3	15.7	7955.3	-
35	19T-176-CONV-2	-	-	109.0	49.4	65.7	18.4	7950.1	-
25	231L1207	-	-	95.5	55.8	69.0	21.8	7949.4	-
21	231L1055	-	-	93.5	50.4	66.5	21.5	7924.4	-
5	231L1029	-	-	90.5	51.5	68.5	24.8	7797.2	-
48	Avant	-	-	88.5	54.4	67.2	15.4	7629.7	-
13	231L1093	-	-	91.5	53.6	67.6	15.4	7544.6	-
9	231L1082	-	-	92.5	53.5	67.1	12.7	7510.9	-
8	231L1061	-	-	96.0	53.5	66.2	18.2	7499.6	-
42	231M1102	-	-	96.0	41.3	64.6	21.1	7482.9	-
2	MP8_104	-	-	86.0	57.5	70.0	14.4	7428.6	-
26	231L1208	-	-	103.0	54.6	68.0	15.7	7386.5	-
34	Venus	-	-	96.5	46.4	62.9	21.1	7371.4	-
37	231M1054	-	-	99.5	54.1	67.4	18.8	7365.0	-
30	231L1253	-	-	101.0	56.2	68.2	15.4	7363.7	-
40	231M1075	-	-	89.0	44.2	61.2	27.0	7347.2	-
32	231L1228	-	-	95.0	51.6	66.7	16.5	7344.6	-
4	231L1027	-	-	96.0	51.0	66.4	23.8	7339.6	-
36	231M1053	-	-	96.5	45.0	63.7	20.6	7323.1	-
19	231L1121	-	-	96.5	58.0	68.5	22.2	7283.5	-
15	231L1100	-	-	96.0	52.1	67.2	19.7	7255.0	-
33	231L2064	-	-	96.0	48.5	63.5	21.0	7248.3	-
52	Jupiter	-	-	91.5	57.7	66.5	22.3	7172.4	-
44	231M1107	-	-	93.5	41.8	65.2	22.1	7081.5	-
14	231L1094	-	-	100.0	56.7	68.2	19.0	7075.7	-
18	231L1115	-	-	89.0	58.7	68.8	18.5	7051.5	-

Continued.

Table 16. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
50	AddiJo	-	-	102.0	53.0	67.1	14.9	7040.1	-
10	231L1084	-	-	94.0	57.2	68.4	20.4	6967.3	-
23	231L1191	-	-	99.5	55.8	67.5	15.6	6956.1	-
17	231L1107	-	-	105.0	56.5	67.7	17.3	6807.4	-
47	Della2	-	-	97.5	54.5	66.5	12.3	6770.3	-
7	231L1049	-	-	89.5	53.1	67.3	15.1	6735.3	-
49	Cheniere	-	-	91.0	64.8	72.8	12.0	6654.8	-
3	231L1018	-	-	90.0	61.6	69.6	16.0	6147.5	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 17. Grain and milling yields and agronomic performance of entries in the 2024 Regional Yield Test – Provisia. Lake Arthur, Vermilion Parish, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
44	233L1237	-	-	92.5	52.3	67.0	22.0	8856.4	-
36	233L1095	-	-	94.0	47.1	66.9	16.2	8699.0	-
32	233L1088	-	-	108.0	53.2	67.0	21.4	8132.1	-
34	233L1091	-	-	101.0	62.0	71.0	9.2	8010.4	-
16	233L1268	-	-	102.0	57.5	69.8	18.6	8004.8	-
43	213L1140	-	-	96.0	52.0	65.8	14.9	7988.4	-
33	233L1089	-	-	94.0	57.0	68.8	11.0	7962.6	-
2	213L1041	-	-	105.5	53.3	67.8	18.9	7897.9	-
19	233L1283	-	-	103.0	46.1	68.4	20.2	7788.0	-
40	19T-262-167	-	-	97.5	50.6	68.3	18.7	7769.0	-
24	233L1063	-	-	96.0	49.6	64.7	20.4	7602.1	-
15	233L1264	-	-	99.0	55.9	68.5	17.2	7595.1	-
51	PVL03	-	-	97.0	52.4	67.5	17.8	7520.7	-
30	233L1085	-	-	103.0	49.1	67.9	18.4	7488.3	-
25	233L1068	-	-	112.5	51.1	64.6	18.1	7483.7	-
42	19T-262-206	-	-	102.5	56.7	68.5	15.8	7474.4	-
26	233L1074	-	-	91.5	53.7	69.1	20.5	7454.7	-
6	233L1121	-	-	98.5	52.8	68.8	17.3	7439.1	-
29	233L1081	-	-	97.5	49.0	68.3	19.3	7438.2	-
37	19T-262-55	-	-	99.5	53.6	68.3	12.9	7420.3	-
5	233L1108	-	-	98.0	60.3	70.7	14.2	7416.0	-
41	19T-262-227	-	-	100.5	52.3	67.3	12.7	7411.4	-
39	19T-262-73	-	-	100.0	48.9	66.8	20.3	7390.3	-
14	233L1262	-	-	101.0	52.1	66.4	22.0	7384.9	-
50	233L1228	-	-	90.5	51.7	68.2	16.2	7364.5	-
10	233L1168	-	-	89.5	50.4	67.3	13.6	7347.0	-
4	233L1020	-	-	98.5	59.3	69.3	18.0	7316.9	-
7	233L1123	-	-	92.0	48.0	66.7	15.3	7304.0	-
47	233L1225	-	-	101.5	56.8	69.4	17.3	7253.2	-
31	233L1086	-	-	97.5	57.9	69.4	13.3	7237.9	-
20	233L1284	-	-	99.0	54.8	68.3	15.3	7221.9	-
21	233L1286	-	-	97.0	55.8	68.0	19.4	7182.8	-
38	19T-262-255	-	-	104.5	49.2	67.3	17.8	7163.3	-
35	233L1093	-	-	100.5	52.4	67.3	16.4	7142.2	-
9	233L1125	-	-	90.0	52.8	68.2	13.2	7138.5	-
8	233L1124	-	-	93.0	49.0	68.2	17.8	7068.6	-
52	PVL04	-	-	105.5	53.3	66.7	17.2	6996.8	-
28	233L1079	-	-	94.5	53.9	68.3	15.6	6983.3	-
17	233L1269	-	-	94.0	53.5	67.5	17.0	6970.8	-
46	233L1206	-	-	98.5	55.6	67.4	14.9	6954.2	-
22	233L1061	-	-	87.0	51.5	65.8	14.6	6935.7	-
1	213L1130	-	-	98.5	54.9	67.4	15.5	6872.8	-
12	233L1203	-	-	98.5	54.8	67.6	12.5	6839.7	-
13	233L1218	-	-	102.5	55.3	67.6	13.4	6785.9	-

Continued.

Table 17. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
18	233L1271	-	-	95.0	55.9	67.8	14.3	6733.6	-
11	233L1197	-	-	97.0	52.2	68.4	12.9	6705.9	-
48	233L1227	-	-	100.0	58.1	70.1	16.1	6528.1	-
49	233L1232	-	-	87.0	43.0	66.9	22.6	6498.4	-
23	233L1062	-	-	103.0	53.8	67.3	17.5	6476.4	-
27	233L1075	-	-	99.0	53.8	68.0	14.9	6273.3	-
3	233L1018	-	-	95.5	56.3	68.2	15.8	6207.4	-
45	233L1294	-	-	94.0	53.5	67.7	11.9	6016.3	-

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

CONVENTIONAL PRELIMINARY YIELD TRIALS

Conventional Preliminary Yield (CNPY) 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 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 in order of descending yield (lb/A).

Table 1. Planting and harvesting dates for the 2024 Conventional Preliminary Yield trials.

Location	Trial	Planting	Harvesting
HRCRRS	CNPYL	2/27	7/28
	CNPYL – Late Planting	4/2	8/2
	CNPYM	2/27	7/27 and 28
	CNPYM – Late Planting	4/2	8/5

Table 2. Entry number, pedigree, grain type, and source information for entries in the 2024 Conventional Preliminary Yield trials.

Herbicide Type*	Entry	Line	Pedigree	Grain Type†	Source‡
CN	1	241A1001	Della2/RU1902142	AI	LAES
Seg	2	241A1002	Della2/RU1902142	AI	LAES
Seg	3	241A1003	Della2/RU1902142	AI	LAES
CN	4	241A1004	Della2/RU1902142	AI	LAES
Seg	5	241A1005	Della2/RU1902142	AI	LAES
CN	6	241A1006	Della2/RU1902142	AI	LAES
CN	7	241A1007	Della2/RU1902142	AI	LAES
CL	8	241A1008	Della2/RU1902142	AI	LAES
CL	9	241A1009	Della2/RU1902142	AI	LAES
CL	10	241A1010	Della2/RU1902142	AI	LAES
Seg	11	241A1011	Fitzgerald/191L1189	AL	LAES
CL	12	241L1012	RU1702183/Avant	LG	LAES
Seg	13	241L1013	RU1702183/Avant	LG	LAES
CL	14	241L1014	RU1702183/Avant	LG	LAES
CL	15	241L1015	RU1702183/Avant	LG	LAES
CL	16	241L1016	RU1602195/RU1902207	LG	LAES
CL	17	241L1017	RU1602195/RU1902207	LG	LAES
CL	18	241L1018	RU1602195/RU1902207	LG	LAES
CL	19	241L1019	CL153/RU1702140	LG	LAES
Seg	20	241L1020	CL153/RU1702140	LG	LAES
CL	21	241L1021	CL153/RU1702140	LG	LAES
CL	22	241L1022	182L2195/RU2002150	LG	LAES
CL	23	241L1023	182L2195/RU2002150	LG	LAES
CL	24	241L1024	182L2195/RU2002150	LG	LAES
CN	25	241L1025	RU2002150/CLL19	LG	LAES
Seg	26	241L1026	Cheniere/CL153	LG	LAES
CN	27	241L1027	RU1902207/RU1602195	LG	LAES
Seg	28	241L1028	RU1902207/RU1602195	LG	LAES
CN	29	241L1029	RU1902207/RU1602195	LG	LAES
CN	30	241L1030	Avant/191L2073	LG	LAES
CN	31	241L1031	Catahoula/RU2002217	LG	LAES
CN	32	241L1032	RU2002217/Avant	LG	LAES
CN	33	241L1033	RU2002217/Avant	LG	LAES
CN	34	241L1034	RU2002217/Avant	LG	LAES
CN	35	241L1035	RU2002217/Avant	LG	LAES
CN	36	241L1036	RU2002222/Mermentau	LG	LAES
CN	37	241L1037	RU2002222/Mermentau	LG	LAES
CN	38	241L1038	RU2002186/RU2002232	LG	LAES
CN	39	241L1039	RU2002186/RU2002232	LG	LAES
CN	40	241L1040	RU2002186/RU2002232	LG	LAES
CN	41	241L1041	RU2002186/RU2002232	LG	LAES
CN	42	241L1042	RU2002186/RU2002232	LG	LAES
CN	43	241L1043	RU2002222/RU2002217	LG	LAES
CN	44	241L1044	RU2002222/RU2002217	LG	LAES
CN	45	241L1045	RU2002222/RU2002217	LG	LAES
Seg	46	241L1046	RU1902034/RU2002222	LG	LAES
CL	47	241L1047	RU1902034/RU2002222	LG	LAES
Seg	48	241L1048	RU1902034/RU2002222	LG	LAES
CL	49	241L1049	RU1902034/RU2002222	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
Seg	50	241L1050	RU1902207/RU1702183	LG	LAES
Seg	51	241L1051	RU1902207/RU1702183	LG	LAES
CN	52	241L1052	RU1902207/RU1702183	LG	LAES
CL	53	241L1053	RU1902207/RU1702183	LG	LAES
CL	54	241L1054	RU1902207/RU1702183	LG	LAES
Seg	55	241L1055	RU1902207/RU1702183	LG	LAES
CN	56	241L1056	RU2002222/RU1902207	LG	LAES
CN	57	241L1057	RU2002222/RU1902207	LG	LAES
CN	58	241L1058	RU2002222/RU1902207	LG	LAES
CN	59	241L1059	RU2002222/RU1902207	LG	LAES
CN	60	241L1060	RU2002222/RU1902207	LG	LAES
CN	61	241L1061	RU2002146/Avant	LG	LAES
CN	62	241L1062	RU2002146/Avant	LG	LAES
CN	63	241L1063	Cheniere/191L2073	LG	LAES
CN	64	241L1064	RU1902207/RU2002186	LG	LAES
CL	65	241L1065	CL153/RU2002222	LG	LAES
CL	66	241L1066	CL153/RU2002222	LG	LAES
Seg	67	241L1067	CL153/RU2002222	LG	LAES
CL	68	241L1068	CL153/RU2002222	LG	LAES
CN	69	241L1069	CL153/RU2002222	LG	LAES
CN	70	241L1070	RU1902207/RU2002217	LG	LAES
CN	71	241L1071	RU1902207/RU2002217	LG	LAES
CN	72	241L1072	RU2002232/Mermentau	LG	LAES
Seg	73	241L1073	RU2002232/Mermentau	LG	LAES
CN	74	241L1074	RU2002232/Mermentau	LG	LAES
CN	75	241L1075	RU2002232/Mermentau	LG	LAES
CN	76	241L1076	Catahoula/RU1902207	LG	LAES
CN	77	241L1077	Mermentau/RU1902207	LG	LAES
CN	78	241L1078	Mermentau/RU1902207	LG	LAES
CN	79	241L1079	Mermentau/RU1902207	LG	LAES
CN	80	241L1080	Mermentau/RU1902207	LG	LAES
CN	81	241L1081	Mermentau/RU1902207	LG	LAES
CN	82	241L1082	Mermentau/RU1902207	LG	LAES
CN	83	241L1083	Mermentau/Avant	LG	LAES
CN	84	241L1084	Mermentau/Avant	LG	LAES
CN	85	241L1085	Mermentau/Avant	LG	LAES
CN	86	241L1086	Mermentau/Avant	LG	LAES
CN	87	241L1087	RU2002186/RU2002150	LG	LAES
CN	88	241L1088	RU2002186/RU2002150	LG	LAES
CN	89	241L1089	RU2002190/RU1902207	LG	LAES
CN	90	241L1090	RU2002190/RU1902207	LG	LAES
CN	91	241L1091	RU2002232/RU2002150	LG	LAES
CN	92	241L1092	RU2002232/RU2002150	LG	LAES
CN	93	241L1093	RU2002232/RU2002150	LG	LAES
CN	94	241L1094	RU2002232/RU2002150	LG	LAES
CN	95	241L1095	RU2002232/RU2002150	LG	LAES
CN	96	241L1096	RU2002232/RU2002150	LG	LAES
CN	97	241L1097	RU2002232/RU2002150	LG	LAES
CN	98	241L1098	RU2002232/RU2002150	LG	LAES
CN	99	241L1099	RU2002232/RU2002150	LG	LAES
CN	100	241L1100	RU2002232/RU2002150	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CN	101	241L1101	RU2002232/RU2002150	LG	LAES
CN	102	241L1102	RU1902207/RU2002232	LG	LAES
CN	103	241L1103	RU1902207/RU2002232	LG	LAES
CN	104	241L1104	RU1902207/RU2002232	LG	LAES
CN	105	241L1105	RU1902207/RU2002232	LG	LAES
CN	106	241L1106	RU2002190/RU2002222	LG	LAES
CN	107	241L1107	RU2002190/RU2002222	LG	LAES
CN	108	241L1108	RU2002190/RU2002222	LG	LAES
CN	109	241L1109	RU2002190/RU2002222	LG	LAES
CL	110	241L1110	Mermentau/RU1702183	LG	LAES
Seg	111	241L1111	RU2002232/RU2002114	LG	LAES
CN	112	241L1112	RU2002232/RU2002114	LG	LAES
CL	113	241L1113	RU2002232/RU2002114	LG	LAES
CN	114	241L1114	RU1702140/RU2002150	LG	LAES
CN	115	241L1115	RU1702140/RU2002150	LG	LAES
CN	116	241L1116	RU1702140/RU2002150	LG	LAES
CL	117	241L1117	CL111/RU2002222	LG	LAES
Seg	118	241L1118	CL111/RU2002222	LG	LAES
CL	119	241L1119	CLL19/Avant	LG	LAES
CL	120	241L1120	CLL19/Avant	LG	LAES
Seg	121	241L1121	CLL19/Avant	LG	LAES
CL	122	241L1122	CLL19/Avant	LG	LAES
Seg	123	241L1123	CLL19/Avant	LG	LAES
CL	124	241L1124	CLL19/Avant	LG	LAES
Seg	125	241L1125	RU2002222/RU1901121	LG	LAES
CL	126	241L1126	RU2002222/RU1901121	LG	LAES
Seg	127	241L1127	RU2002222/RU1901121	LG	LAES
Seg	128	241L1128	RU2002222/RU1901121	LG	LAES
CL	129	241L1129	RU1702140/RU1801101	LG	LAES
CL	130	241L1130	191L1056/192L1072	LG	LAES
CL	131	241L1131	191L1056/192L1072	LG	LAES
CL	132	241L1132	191L1056/192L1072	LG	LAES
CL	133	241L1133	191L1056/192L1072	LG	LAES
CL	134	241L1134	Catahoula/CLL19	LG	LAES
CL	135	241L1135	Catahoula/CLL19	LG	LAES
CL	136	241L1136	Catahoula/CLL19	LG	LAES
Seg	137	241L1137	Catahoula/CLL19	LG	LAES
CL	138	241L1138	Catahoula/RU1702183	LG	LAES
Seg	139	241L1139	Catahoula/RU1702183	LG	LAES
CN	140	241L1140	Catahoula/RU1702183	LG	LAES
CN	141	241L1141	Catahoula/RU1702183	LG	LAES
Seg	142	241L1142	Catahoula/RU1702183	LG	LAES
CN	143	241L1143	Catahoula/RU1702183	LG	LAES
CL	144	241L1144	RU2002232/RU1902142	LG	LAES
Seg	145	241L1145	RU2002232/RU1902142	LG	LAES
CN	146	241L1146	RU2002232/RU1902142	LG	LAES
Seg	147	241L1147	RU2002232/RU1902142	LG	LAES
CL	148	241L1148	Cheniere/RU1902110	LG	LAES
CL	149	241L1149	Cheniere/RU1902110	LG	LAES
CL	150	241L1150	Cheniere/RU1902110	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain
Type*	Entry	Line	Pedigree	Type† Source‡
CL	151	241L1151	Cheniere/RU1902110	LG LAES
CL	152	241L1152	Catahoula/RU1902034	LG LAES
CL	153	241L1153	RU2002190/RU2002114	LG LAES
CL	154	241L1154	RU2002190/RU2002114	LG LAES
Seg	155	241L1155	20DGL2056/RU2102217	LG LAES
CL	156	241L1156	20DGL2056/RU2102217	LG LAES
CL	157	241L1157	20DGL2056/RU2102217	LG LAES
Seg	158	241L1158	20DGL2056/RU2102217	LG LAES
Seg	159	241L1159	20DGL2056/RU2102217	LG LAES
CL	160	241L1160	AddiJo/RU1902142	LG LAES
Seg	161	241L1161	AddiJo/RU1902142	LG LAES
Seg	162	241L1162	AddiJo/RU1902142	LG LAES
Seg	163	241L1163	AddiJo/RU1902142	LG LAES
CL	164	241L1164	AddiJo/RU1902142	LG LAES
CL	165	241L1165	AddiJo/RU1902142	LG LAES
Seg	166	241L1166	19-53035/Mermentau	LG LAES
CL	167	241L1167	RU1702140/19-53006	LG LAES
CL	168	241L1168	RU1702140/19-53006	LG LAES
Seg	169	241L1169	RU1702140/19-53006	LG LAES
Seg	170	241L1170	RU1702140/19-53006	LG LAES
CL	171	241L1171	RU1702140/19-53006	LG LAES
CL	172	241L1172	RU1702140/19-53006	LG LAES
CL	173	241L1173	Cheniere/Cl-Toro	LG LAES
Seg	174	241L1174	Cheniere/Cl-Toro	LG LAES
Seg	175	241L1175	Cheniere/Cl-Toro	LG LAES
CN	176	241L1176	RU2002122/RU1702140	LG LAES
CN	177	241L1177	RU2002122/RU1702140	LG LAES
CN	178	241L1178	RU2002122/RU2002146	LG LAES
CN	179	241L1179	20DGL2131/Ozark	LG LAES
CN	180	241L1180	20DGL2131/Ozark	LG LAES
CN	181	241L1181	20DGL2131/Ozark	LG LAES
CN	182	241L1182	20DGL2131/Ozark	LG LAES
CN	183	241L1183	191L2009/201L1114	LG LAES
CN	184	241L1184	191L2009/201L1114	LG LAES
CN	185	241L1185	191L2009/201L1114	LG LAES
CN	186	241L1186	191L1123/20DGL2131	LG LAES
CN	187	241L1187	191L1123/20DGL2131	LG LAES
CN	188	241L1188	191L1123/20DGL2131	LG LAES
CN	189	241L1189	191L1123/20DGL2131	LG LAES
CN	190	241L1190	191L1123/20DGL2131	LG LAES
CN	191	241L1191	191L1123/20DGL2131	LG LAES
CN	192	241L1192	191L1123/20DGL2131	LG LAES
CN	193	241L1193	Rondo/Cheniere	LG LAES
CN	194	241L1194	RU2002122/Rondo	LG LAES
Seg	195	241L1195	RU1702140/RU1902110	LG LAES
Seg	196	241L1196	RU1702140/RU1902110	LG LAES
CL	197	241L1197	RU1702140/RU1902110	LG LAES
CN	198	241L1198	201L1114/191L1033	LG LAES
CN	199	241L1199	201L1114/191L1033	LG LAES
CN	200	241L1200	201L1114/191L1033	LG LAES

Continued.

Table 2. Continued.

Herbicide Type*	Entry	Line	Pedigree	Grain	
				Type†	Source‡
CN	201	241L1201	201L1114/191L1033	LG	LAES
CN	202	241L1202	201L1114/191L1033	LG	LAES
CN	203	241L1203	201L1114/191L1033	LG	LAES
CN	204	241L1204	201L1114/191L1033	LG	LAES
CN	205	241L1205	Cheniere/191L1033	LG	LAES
CN	206	241L1206	Cheniere/191L1033	LG	LAES
CN	207	241L1207	Cheniere/191L1033	LG	LAES
CN	208	241L1208	Cheniere/191L1033	LG	LAES
CN	209	241L1209	Cheniere/191L1033	LG	LAES
CN	210	241L1210	Cheniere/191L1033	LG	LAES
CN	211	241L1211	Avant/191L1033	LG	LAES
CN	212	241L1212	Avant/191L1033	LG	LAES
CN	213	241L1213	Avant/191L1033	LG	LAES
CN	214	241L1214	RU1902207/201L1114	LG	LAES
CN	215	241L1215	RU1902207/201L1114	LG	LAES
CN	216	241L1216	RU1902207/201L1114	LG	LAES
CN	217	241L1217	RU1902207/201L1114	LG	LAES
CN	218	241L1218	RU1902207/201L1114	LG	LAES
CN	219	241L1219	191L2009/Avant	LG	LAES
Seg	220	241L1220	191L2009/Avant	LG	LAES
CN	221	241L1221	191L2009/Avant	LG	LAES
CN	222	241L1222	RU2002182/191L2009	LG	LAES
CN	223	241L1223	RU2002182/191L2009	LG	LAES
CN	224	241L1224	RU2002182/191L2009	LG	LAES
CN	225	241L1225	RU2002182/191L2009	LG	LAES
CN	226	241L1226	Frontiere/RU1902207	LG	LAES
CN	227	241L1227	Frontiere/RU1902207	LG	LAES
CN	228	241L1228	Frontiere/RU1902207	LG	LAES
CN	229	241L1229	Frontiere/RU1902207	LG	LAES
CN	230	241L1230	Frontiere/RU1902207	LG	LAES
CN	231	241L1231	Frontiere/RU1902207	LG	LAES
CN	232	241L1232	Frontiere/RU1902207	LG	LAES
CN	233	241L1233	Frontiere/RU1902207	LG	LAES
CN	234	241L1234	Frontiere/RU1902207	LG	LAES
CN	235	241L1235	Frontiere/RU1902207	LG	LAES
CN	236	241L1236	Frontiere/RU1902207	LG	LAES
Seg	237	241L1237	Frontiere/RU1902207	LG	LAES
CN	238	241L1238	Frontiere/RU1902207	LG	LAES
CN	239	241L1239	Frontiere/RU1902207	LG	LAES
CN	240	241L1240	Frontiere/RU1902207	LG	LAES
CN	241	241L1241	RU2002150/191L2066	LG	LAES
CN	242	241L1242	RU2002150/191L2066	LG	LAES
CN	243	241L1243	RU2002150/191L2066	LG	LAES
CN	244	241L1244	RU2002150/191L2066	LG	LAES
CN	245	241L1245	RU2002150/191L2066	LG	LAES
CN	246	241L1246	RU2002150/191L2066	LG	LAES
CN	247	241L1247	RU2002182/Avant	LG	LAES
CN	248	241L1248	RU2002182/Avant	LG	LAES
CN	249	241L1249	RU2002182/Avant	LG	LAES
CN	250	241L1250	RU2002182/Avant	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CN	251	241L1251	RU2002182/Avant	LG	LAES
CN	252	241L1252	RU2002182/Avant	LG	LAES
CN	253	241L1253	RU2002182/Avant	LG	LAES
CN	254	241L1254	201L1159/191L2066	LG	LAES
CN	255	241L1255	201L1159/191L2066	LG	LAES
CN	256	241L1256	201L1159/191L2066	LG	LAES
CN	257	241L1257	201L1159/191L2066	LG	LAES
CN	258	241L1258	201L1159/191L2066	LG	LAES
CN	259	241L1259	201L1159/191L2066	LG	LAES
CN	260	241L1260	201L1159/191L2066	LG	LAES
CN	261	241L1261	191L1123/RU1902207	LG	LAES
CN	262	241L1262	191L1123/RU1902207	LG	LAES
CN	263	241L1263	191L1123/RU1902207	LG	LAES
CN	264	241L1264	191L1123/RU1902207	LG	LAES
CN	265	241L1265	191L1123/RU1902207	LG	LAES
CN	266	241L1266	191L1123/RU1902207	LG	LAES
CN	267	241L1267	191L1123/RU1902207	LG	LAES
CN	268	241L1268	191L1123/RU1902207	LG	LAES
CN	269	241L1269	191L1123/RU1902207	LG	LAES
CN	270	241L1270	191L1123/RU1902207	LG	LAES
CN	271	241L1271	191L1123/RU1902207	LG	LAES
CN	272	241L1272	RU1902207/Ozark	LG	LAES
CL	273	241L1273	RU2002150/RU2102217	LG	LAES
CL	274	241L1274	RU2002150/RU2102217	LG	LAES
Seg	275	241L1275	RU2002150/RU2102217	LG	LAES
CN	276	241L1276	RU2102217/191L2066	LG	LAES
CN	277	241L1277	RU2102217/191L2066	LG	LAES
CN	278	241L1278	RU2102217/191L2066	LG	LAES
CN	279	241L1279	RU2002182/CL153	LG	LAES
CN	280	241L1280	RU2002182/CL153	LG	LAES
CN	281	241L1281	RU2002182/CL153	LG	LAES
CN	282	241L1282	RU2002182/CL153	LG	LAES
CN	283	241L1283	RU2002182/CL153	LG	LAES
CN	284	241L1284	RU2002150/192L2050	LG	LAES
CN	285	241L1285	RU2002150/192L2050	LG	LAES
CN	286	241L1286	RU2002150/192L2050	LG	LAES
CN	287	241L1287	RU2002150/192L2050	LG	LAES
CN	288	241L1288	CLL15/RU2002150	LG	LAES
Seg	289	241L1289	CLL15/RU2002150	LG	LAES
CN	290	241L1290	201L1288/Avant	LG	LAES
CN	291	241L1291	201L1288/Avant	LG	LAES
CN	292	241L1292	201L1288/Avant	LG	LAES
CN	293	241L1293	201L1288/Avant	LG	LAES
CN	294	241L1294	201L1288/Avant	LG	LAES
CN	295	241L1295	201L1288/Avant	LG	LAES
CN	296	241L1296	201L1288/Avant	LG	LAES
CN	297	241L1297	201L1288/Avant	LG	LAES
CN	298	241L1298	201L1288/Avant	LG	LAES
CN	299	241L1299	201L1288/Avant	LG	LAES
CN	300	241L1300	201L1288/Avant	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CN	301	241L1301	201L1288/Avant	LG	LAES
CN	302	241L1302	201L1288/Avant	LG	LAES
CN	303	241L1303	201L1288/Avant	LG	LAES
CN	304	241L1304	201L1288/Avant	LG	LAES
CN	305	241L1305	201L1324/201L1251	LG	LAES
CN	306	241L1306	201L1324/201L1251	LG	LAES
CN	307	241L1307	201L1324/201L1251	LG	LAES
CN	308	241L1308	201L1324/201L1251	LG	LAES
CN	309	241L1309	201L1324/201L1251	LG	LAES
CN	310	241L1310	201L1324/201L1251	LG	LAES
CN	311	241L1311	201L1324/201L1251	LG	LAES
CN	312	241L1312	201L1324/201L1251	LG	LAES
CN	313	241L1313	201L1324/201L1251	LG	LAES
CN	314	241L1314	201L1324/201L1251	LG	LAES
CN	315	241L1315	201L1324/201L1251	LG	LAES
CN	316	241L1316	RU1902207/201L1251	LG	LAES
CN	317	241L1317	RU1902207/201L1251	LG	LAES
CN	318	241L1318	RU1902207/201L1251	LG	LAES
CN	319	241L1319	RU1902207/201L1251	LG	LAES
CN	320	241L1320	RU1902207/201L1251	LG	LAES
CN	321	241L1321	RU1902207/201L1251	LG	LAES
CN	322	241L1322	RU1902207/201L1251	LG	LAES
CN	323	241L1323	RU1902207/201L1251	LG	LAES
CN	324	241L1324	RU1902207/201L1251	LG	LAES
CN	325	241L1325	RU1902207/201L1251	LG	LAES
CN	326	Avant	Trenasse//Cocodrie/Jefferson/3/Ahrent/Cocodrie//Cocodrie/ LaGrue	LG	LAES
CN	327	DG263L		LG	NAS
CN	328	AddiJo	Thad/Catahoula	LG	LAES
CN	329	211L1008	RU1702183/Avant	LG	LAES
CN	330	Fitzgerald	Jazzman2/Catahoula	AL	LAES
CN	1	241M1001	RU2002190/RU2002090	MG	LAES
Seg	2	241M1002	181M1740/RU1902170	AL	LAES
CN	3	241M1003	BBC17-1/Taurus	MG	LAES
CN	4	241M1004	BBC17-1/181M1740	MG	LAES
Seg	5	241M1005	RU2002094/BBC17-1	MG	LAES
CN	6	241M1006	BBC35-1/Taurus	MG	LAES
CN	7	241M1007	BBC35-1/Lynx	MG	LAES
CN	8	241M1008	BBC35-1/Titan	MG	LAES
CN	9	241M1009	181M1740/BBC35-1	MG	LAES
CL	10	241M1010	RU2002090/BBC35-1	MG	LAES
CN	11	241M1011	BBC35-1/Jupiter	MG	LAES
CN	12	241M1012	BBC17-1/RU2002090	MG	LAES
CN	13	241M1013	Jazzman/RU1801211	AL	LAES
CN	14	241M1014	Titan/M206	MG	LAES
CN	15	241M1015	RU2002094/RU1801211	MG	LAES
CN	16	241M1016	RU1801211/Jupiter	MG	LAES
CN	17	241M1017	Jupiter/RU1902227	MG	LAES
CN	18	241M1018	RU2002094/Taurus	MG	LAES
CN	19	241M1019	RU2002090/RU1801211	MG	LAES
CN	20	241M1020	181M1740/Lynx	MG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CN	21	241M1021	Taurus/RU2002090	MG	LAES
CN	22	241M1022	Taurus/RU2002090	MG	LAES
Seg	23	241M1023	RU1902174/M206	MG	LAES
Seg	24	241M1024	RU1902174/M402	MG	LAES
Seg	25	241M1025	BBC17-1/RU1802174	MG	LAES
CN	26	241M1026	RU1801211/BBC17-1	MG	LAES
CN	27	241M1027	Titan/CLM04	MG	LAES
CN	28	241M1028	Jupiter/BBC17-1	MG	LAES
CN	29	241M1029	RU2002090/RU1902227	MG	LAES
CN	30	241M1030	RU2002094/Lynx	MG	LAES
CN	31	241M1031	RU2002094/Lynx	MG	LAES
CN	32	241M1032	Titan/RU2002094	MG	LAES
CN	33	241M1033	Jupiter/Titan	MG	LAES
CN	34	241M1034	Lynx/Titan	MG	LAES
CN	35	241M1035	Lynx/Titan	MG	LAES
CN	36	241M1036	Lynx/Titan	MG	LAES
CN	37	241M1037	RU1902227/RU2002094	MG	LAES
CN	38	241M1038	RU1902227/RU2002094	MG	LAES
CN	39	241M1039	RU1902227/RU2002094	MG	LAES
CN	40	241M1040	Lynx/RU2002090	MG	LAES
CN	41	241M1041	Lynx/RU2002090	MG	LAES
CN	42	241M1042	Lynx/RU2002090	MG	LAES
CN	43	241M1043	Lynx/RU2002090	MG	LAES
CN	44	241M1044	RU2002094/Jupiter	MG	LAES
CN	45	241M1045	RU1902227/RU1801211	MG	LAES
CN	46	241M1046	RU1902227/RU1801211	MG	LAES
CN	47	241M1047	RU2002090/RU2002094	MG	LAES
CN	48	241M1048	RU2002090/RU2002094	MG	LAES
CN	49	241M1049	RU2002090/RU2002094	MG	LAES
CN	50	241M1050	RU1802174/RU2002090	MG	LAES
CN	51	241M1051	RU1802174/RU2002090	MG	LAES
CN	52	241M1052	RU1802174/RU2002090	MG	LAES
CN	53	241M1053	Jupiter/Taurus	MG	LAES
CN	54	241M1054	Jupiter/Taurus	MG	LAES
CN	55	241M1055	Titan/RU2002090	MG	LAES
CN	56	241M1056	Titan/RU2002090	MG	LAES
CN	57	241M1057	RU2002090/Jupiter	MG	LAES
CN	58	241M1058	RU2002090/Jupiter	MG	LAES
CN	59	241M1059	RU2002090/Jupiter	MG	LAES
CN	60	241M1060	RU2002090/Jupiter	MG	LAES
CN	61	241M1061	RU2002094/181M1740	MG	LAES
CN	62	241M1062	RU2002094/181M1740	MG	LAES
CN	63	241M1063	181M1740/RU1902227	MG	LAES
CN	64	241M1064	181M1740/RU1902227	MG	LAES
CN	65	241M1065	RU1902227/RU1802174	MG	LAES
CN	66	241M1066	RU1902227/RU1802174	MG	LAES
CN	67	241M1067	RU1902227/RU1802174	MG	LAES
CN	68	241M1068	RU1902227/RU1802174	MG	LAES
CN	69	241M1069	RU1902227/RU1802174	MG	LAES
CN	70	241M1070	181M1740/Titan	MG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CN	71	241M1071	181M1740/Titan	MG	LAES
CN	72	241M1072	Jupiter/Venus	MG	LAES
CN	75	241M1075	181M1740/RU1801211	MG	LAES
CN	76	241M1076	Lynx/RU1902227	MG	LAES
CN	77	241M1077	Lynx/RU1902227	MG	LAES
CN	78	241M1078	Lynx/RU1902227	MG	LAES
CN	79	241M1079	Lynx/RU1902227	MG	LAES
CN	80	241M1080	Lynx/RU1902227	MG	LAES
CN	81	241M1081	Lynx/RU1902227	MG	LAES
CN	82	241M1082	BBC37-1/BBC41-2	MG	LAES
CN	83	241M1083	RU1802174/BBC35-1	MG	LAES
CN	84	241M1084	RU1802174/BBC35-1	MG	LAES
CN	85	241M1085	BBC50-1/Venus	MG	LAES
CN	86	241M1086	BBC50-1/Venus	MG	LAES
CN	87	241M1087	BBC50-1/Venus	MG	LAES
CN	88	241M1088	BBC50-1/Venus	MG	LAES
CN	89	241M1089	BBC50-1/Venus	MG	LAES
CN	90	241M1090	BBC50-1/Venus	MG	LAES
CN	91	241M1091	Taurus/Venus	MG	LAES
CN	92	241M1092	Taurus/Venus	MG	LAES
CN	93	241M1093	Taurus/Venus	MG	LAES
CN	94	241M1094	Taurus/Venus	MG	LAES
CN	95	241M1095	Taurus/Venus	MG	LAES
CN	96	241M1096	Taurus/Venus	MG	LAES
CN	97	241M1097	Taurus/Venus	MG	LAES
CN	98	241M1098	Taurus/RU1902227	MG	LAES
CN	99	241M1099	Taurus/RU1902227	MG	LAES
CN	100	241M1100	Taurus/RU1902227	MG	LAES
CN	101	241M1101	Taurus/RU1902227	MG	LAES
CN	102	241M1102	Taurus/RU1902227	MG	LAES
CN	103	241M1103	Taurus/RU1902227	MG	LAES
CN	104	241M1104	Taurus/RU1902227	MG	LAES
CN	105	241M1105	Taurus/RU1902227	MG	LAES
CN	106	241M1106	191M1192/RU1902227	MG	LAES
CN	107	241M1107	191M1192/RU1902227	MG	LAES
CN	108	241M1108	191M1192/RU1902227	MG	LAES
CN	109	241M1109	191M1192/RU1902227	MG	LAES
CN	110	241M1110	191M1192/RU1902227	MG	LAES
CN	111	241M1111	191M1192/RU1902227	MG	LAES
CN	112	241M1112	191M1192/RU1902227	MG	LAES
CN	113	241M1113	Titan/191M1192	MG	LAES
CN	114	241M1114	Titan/191M1192	MG	LAES
CN	115	241M1115	Titan/191M1192	MG	LAES
CN	116	241M1116	Titan/191M1192	MG	LAES
CN	117	241M1117	Titan/191M1192	MG	LAES
CN	118	241M1118	191M1192/Jupiter	MG	LAES
CN	119	241M1119	191M1192/Jupiter	MG	LAES
CL	120	241M1120	CLM04/Jupiter	MG	LAES
Seg	121	241M1121	CLM04/Jupiter	MG	LAES
CL	122	241M1122	CLM04/Jupiter	MG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
Seg	123	241M1123	Titan/RU1801238	MG	LAES
CL	124	241M1124	Titan/RU1801238	MG	LAES
Seg	125	241M1125	Titan/RU1801238	MG	LAES
CL	126	241M1126	RU1801238/Jupiter	MG	LAES
Seg	127	241M1127	RU1801238/Jupiter	MG	LAES
CN	128	241M1128	RU1801238/Jupiter	MG	LAES
CN	129	241M1129	Taurus/Venus	MG	LAES
CN	130	241M1130	Taurus/Venus	MG	LAES
CN	131	241M1131	RU2102066/Taurus	MG	LAES
CN	132	241M1132	RU2102066/Taurus	MG	LAES
CN	133	241M1133	RU2102066/Taurus	MG	LAES
CN	134	241M1134	RU2102066/Taurus	MG	LAES
CN	135	241M1135	RU2102066/Taurus	MG	LAES
CN	136	241M1136	RU2102066/Taurus	MG	LAES
CN	137	241M1137	RU2102066/Taurus	MG	LAES
CN	138	241M1138	Avant/SG_mutantP1_RU2002174	SG	LAES
CN	139	241M1139	Avant/SG_mutantP1_RU2002174	SG	LAES
CN	140	241M1140	Avant/SG_mutantP1_RU2002174	SG	LAES
CN	141	241M1141	Avant/SG_mutantP1_RU2002174	SG	LAES
CN	142	241M1142	Avant/SG_mutantP1_RU2002174	SG	LAES
CN	143	241M1143	Avant/SG_mutantP1_RU2002174	SG	LAES
CN	144	241M1144	Avant/SG_mutantP1_RU2002174	SG	LAES
CN	145	241M1145	Avant/SG_mutantP1_RU2002174	SG	LAES
CN	146	241M1146	Avant/SG_mutantP1_RU2002174	SG	LAES
CN	147	Venus	Titan/Jupiter	MG	LAES
CN	148	Jupiter	Bengal/Rico1/3/Bengal/Mercury/Rico1	MG	LAES
CN	149	Taurus	Rico1/Bengal/RU0602162/RU0502031	MG	AAES
CN	150	Titan	M206/STG99F507118/Jupiter	MG	AAES

* Herbicide Type – Clearfield (CL), Conventional (CN), Provisia (PV), Segregating (Seg).

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

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

Table 3. Grain and milling yields and agronomic performance of entries in the 2024 Conventional Preliminary Yield Long-Grain trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
100	241L1100	-	97.0	95.0	60.9	70.0	30.5	11533.0	3782.1
324	241L1324	-	98.0	102.0	60.6	69.3	28.7	11328.6	3963.3
319	241L1319	-	97.0	100.0	63.0	70.4	30.5	11298.3	3313.8
42	241L1042	-	95.0	93.0	60.6	68.8	23.4	11255.5	3242.8
269	241L1269	-	97.0	93.0	56.7	67.9	32.8	11212.6	2595.4
77	241L1077	-	96.0	93.0	62.6	70.8	33.1	11196.6	3281.6
280	241L1280	-	96.0	95.0	63.6	70.9	23.9	11104.6	3881.6
177	241L1177	-	94.0	98.0	53.3	67.3	39.9	11101.1	3691.2
327	DG263L	-	97.0	98.0	56.6	66.2	28.4	11096.5	2295.9
316	241L1316	-	95.0	97.0	59.5	68.6	24.6	11083.2	3023.5
60	241L1060	-	94.0	87.0	63.8	71.3	25.8	11006.8	3270.3
275	241L1275	-	94.0	100.0	60.5	69.5	28.3	10973.1	3290.6
124	241L1124	-	96.0	85.0	63.7	69.8	23.1	10943.2	3985.7
67	241L1067	-	95.0	95.0	65.5	71.4	20.5	10925.4	4125.3
323	241L1323	-	97.0	96.0	62.0	70.5	27.2	10909.5	3290.8
56	241L1056	-	94.0	90.0	66.4	72.0	23.2	10897.4	4331.7
101	241L1101	-	97.0	95.0	62.6	70.1	25.6	10896.6	2793.1
313	241L1313	-	94.0	99.0	55.3	66.7	33.8	10896.1	3323.8
83	241L1083	-	94.0	94.0	68.1	73.0	27.8	10889.9	3321.3
154	241L1154	-	97.0	102.0	62.7	70.6	27.1	10883.8	3990.3
309	241L1309	-	97.0	97.0	61.0	69.0	26.6	10881.7	4026.6
308	241L1308	-	98.0	105.0	59.1	68.3	25.7	10835.8	3741.9
322	241L1322	-	97.0	98.0	58.7	69.0	30.5	10831.6	3218.0
45	241L1045	-	93.0	102.0	62.3	70.6	25.0	10797.8	3755.3
306	241L1306	-	97.0	98.0	59.3	68.1	26.3	10793.9	3442.4
89	241L1089	-	97.0	106.0	65.3	71.8	24.2	10793.8	3947.7
325	241L1325	-	97.0	99.0	61.8	69.3	31.2	10792.8	3662.5
238	241L1238	-	96.0	99.0	62.0	69.9	30.4	10776.6	2925.3
103	241L1103	-	97.0	102.0	63.6	70.1	30.3	10760.7	3822.9
310	241L1310	-	94.0	108.0	57.0	68.0	32.6	10754.9	3604.1
152	241L1152	-	98.0	102.0	63.6	70.3	29.7	10750.6	3070.6
307	241L1307	-	94.0	99.0	57.0	67.7	29.5	10748.1	3184.0
300	241L1300	-	93.0	87.0	66.3	72.1	26.0	10745.9	4521.7
311	241L1311	-	93.0	104.0	57.7	67.9	34.1	10734.5	3309.4
80	241L1080	-	96.0	92.0	63.8	71.2	29.5	10728.1	3952.3
102	241L1102	-	95.0	93.0	64.7	71.4	28.6	10724.5	3965.1
35	241L1035	-	93.0	89.0	61.8	69.4	22.2	10723.8	4015.6
268	241L1268	-	98.0	97.0	60.1	68.4	30.0	10716.2	3539.9
126	241L1126	-	94.0	100.0	62.6	70.3	18.2	10704.3	3362.7
86	241L1086	-	94.0	86.0	64.1	70.1	30.1	10691.5	4184.4
76	241L1076	-	97.0	104.0	65.4	71.2	24.0	10686.5	3645.4
137	241L1137	-	94.0	90.0	59.7	68.4	26.3	10666.5	3762.9
108	241L1108	-	96.0	103.0	65.8	71.6	23.8	10659.9	3317.4
129	241L1129	-	96.0	103.0	66.0	72.3	22.8	10657.7	3502.2
38	241L1038	-	97.0	95.0	67.0	71.9	22.4	10656.4	3799.1
274	241L1274	-	96.0	99.0	61.9	69.7	27.7	10653.8	3842.6
305	241L1305	-	96.0	96.0	56.7	67.4	32.0	10634.5	3137.9
290	241L1290	-	93.0	96.0	60.5	68.7	24.1	10633.5	3438.9
84	241L1084	-	96.0	99.0	66.2	72.4	29.5	10609.2	3759.3

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
277	241L1277	-	96.0	91.0	60.2	70.2	30.9	10602.9	3743.0
106	241L1106	-	95.0	97.0	61.0	69.4	31.7	10583.5	3587.4
54	241L1054	-	98.0	93.0	65.7	70.9	22.4	10583.4	3404.1
148	241L1148	-	96.0	108.0	60.3	70.2	30.7	10570.1	3944.5
276	241L1276	-	93.0	87.0	55.0	67.6	23.0	10558.4	3615.9
64	241L1064	-	95.0	103.0	65.3	71.9	27.8	10532.6	3501.7
195	241L1195	-	94.0	102.0	56.2	69.0	34.5	10526.3	3258.5
40	241L1040	-	98.0	95.0	68.6	73.1	26.0	10520.8	3394.8
295	241L1295	-	92.0	97.0	60.8	68.9	25.6	10519.9	3354.0
155	241L1155	-	94.0	90.0	53.3	66.2	36.3	10513.0	3212.5
244	241L1244	-	97.0	106.0	64.5	70.8	27.4	10493.5	3697.7
142	241L1142	-	97.0	101.0	63.7	70.0	23.8	10482.9	3082.8
57	241L1057	-	97.0	94.0	63.6	71.2	28.6	10469.4	3368.9
234	241L1234	-	94.0	104.0	62.6	70.1	31.9	10464.1	3567.6
58	241L1058	-	94.0	95.0	62.5	69.8	26.3	10449.9	3601.8
232	241L1232	-	98.0	92.0	64.7	70.8	23.7	10447.4	3828.4
25	241L1025	-	97.0	97.0	58.8	67.6	34.2	10438.7	3023.3
312	241L1312	-	97.0	93.0	62.5	69.5	29.2	10431.2	3993.4
19	241L1019	-	94.0	96.0	61.7	70.2	28.6	10426.3	4100.7
202	241L1202	-	96.0	109.0	56.4	67.9	35.1	10418.9	3402.7
75	241L1075	-	96.0	86.0	65.3	70.9	21.7	10416.5	3921.1
78	241L1078	-	98.0	100.0	65.2	72.0	31.3	10407.5	4105.0
188	241L1188	-	97.0	101.0	65.7	71.7	17.5	10395.0	4067.9
221	241L1221	-	96.0	94.0	61.3	68.7	16.9	10380.8	2967.3
301	241L1301	-	95.0	91.0	61.8	69.3	27.0	10362.1	4108.0
304	241L1304	-	94.0	92.0	60.2	69.6	23.3	10360.7	2921.2
318	241L1318	-	97.0	96.0	58.5	68.3	25.0	10342.4	3725.6
37	241L1037	-	93.0	88.0	59.8	69.1	28.5	10339.5	2843.2
294	241L1294	-	93.0	93.0	62.5	70.2	28.5	10323.3	3729.4
74	241L1074	-	92.0	88.0	63.1	71.0	20.1	10317.7	3770.6
81	241L1081	-	95.0	89.0	61.8	69.8	29.6	10313.3	3259.9
226	241L1226	-	94.0	100.0	59.8	68.5	23.0	10313.0	3536.4
27	241L1027	-	96.0	101.0	64.5	69.8	21.4	10312.6	3894.2
121	241L1121	-	92.0	93.0	64.0	70.2	25.5	10306.9	4007.9
321	241L1321	-	97.0	92.0	60.0	69.1	29.8	10288.3	3252.9
156	241L1156	-	95.0	99.0	51.7	68.2	32.6	10280.1	3177.1
22	241L1022	-	98.0	103.0	61.9	69.3	25.1	10279.7	3635.3
187	241L1187	-	97.0	95.0	62.8	71.2	19.9	10278.3	3316.4
171	241L1171	-	93.0	97.0	62.8	70.7	22.4	10275.5	3128.0
237	241L1237	-	98.0	103.0	65.1	71.0	24.2	10269.8	4108.0
52	241L1052	-	96.0	94.0	64.8	72.0	28.3	10262.6	3122.3
315	241L1315	-	94.0	110.0	60.9	69.5	31.0	10255.3	3376.3
159	241L1159	-	97.0	96.0	56.0	68.2	28.3	10249.5	3102.6
181	241L1181	-	92.0	111.0	58.7	68.5	20.7	10244.3	4432.5
68	241L1068	-	98.0	97.0	64.8	70.4	19.9	10239.6	3357.2
24	241L1024	-	97.0	95.0	62.6	70.6	27.9	10236.9	3435.8
138	241L1138	-	94.0	99.0	63.4	70.4	21.6	10230.9	3915.4
283	241L1283	-	94.0	96.0	62.2	70.2	30.2	10229.2	3303.8
279	241L1279	-	91.0	91.0	60.5	69.6	25.1	10219.9	2567.8
272	241L1272	-	94.0	90.0	60.0	68.5	29.2	10211.2	3059.3
254	241L1254	-	97.0	92.0	59.9	69.2	23.9	10201.0	4421.3

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
107	241L1107	-	94.0	103.0	57.0	67.5	27.9	10191.5	2810.0
82	241L1082	-	98.0	96.0	66.6	72.0	32.2	10175.9	4248.7
99	241L1099	-	97.0	98.0	65.5	71.9	29.4	10174.8	3661.9
33	241L1033	-	91.0	90.0	62.6	70.1	23.0	10173.7	3844.2
69	241L1069	-	96.0	96.0	64.5	70.6	25.7	10168.2	3693.2
115	241L1115	-	96.0	98.0	60.1	70.4	32.3	10163.3	3281.4
320	241L1320	-	97.0	95.0	58.5	68.4	31.6	10161.1	3615.0
168	241L1168	-	92.0	97.0	63.8	70.9	31.3	10160.2	3872.3
207	241L1207	-	93.0	95.0	59.6	69.7	22.6	10150.4	2833.4
256	241L1256	-	97.0	91.0	59.4	68.5	25.8	10150.4	3420.7
30	241L1030	-	97.0	93.0	65.1	71.0	20.7	10150.0	3642.3
263	241L1263	-	97.0	95.0	64.6	70.6	25.1	10140.7	4384.4
71	241L1071	-	97.0	95.0	61.3	70.6	29.0	10140.1	2795.8
262	241L1262	-	97.0	85.0	51.4	65.7	32.6	10137.1	3386.0
266	241L1266	-	97.0	91.0	59.8	69.3	31.2	10135.4	3651.8
241	241L1241	-	95.0	97.0	59.7	68.9	25.5	10133.8	3892.7
144	241L1144	-	96.0	87.0	60.8	69.3	20.5	10132.3	3893.8
167	241L1167	-	94.0	96.0	61.8	69.9	33.5	10131.8	3628.5
18	241L1018	-	96.0	103.0	64.9	70.5	25.9	10125.5	3275.4
97	241L1097	-	94.0	105.0	63.0	69.9	28.6	10116.4	3454.0
143	241L1143	-	98.0	98.0	63.9	69.7	23.7	10114.0	3855.8
43	241L1043	-	93.0	103.0	64.9	71.1	22.7	10113.5	3601.8
116	241L1116	-	95.0	90.0	62.9	70.6	30.1	10092.6	3356.1
66	241L1066	-	94.0	99.0	62.4	69.8	18.5	10092.2	3619.2
205	241L1205	-	95.0	103.0	61.2	70.7	21.7	10058.7	3417.0
31	241L1031	-	95.0	100.0	64.4	71.4	22.6	10057.7	3722.6
88	241L1088	-	98.0	94.0	61.5	69.7	28.7	10034.9	3336.0
291	241L1291	-	94.0	99.0	61.3	69.4	24.3	10034.7	3226.5
90	241L1090	-	97.0	95.0	64.7	71.1	22.7	10033.4	3267.7
182	241L1182	-	94.0	102.0	53.8	67.2	24.8	10032.3	3534.1
191	241L1191	-	96.0	90.0	58.2	69.2	25.2	10018.2	3078.4
248	241L1248	-	93.0	91.0	63.8	71.1	25.5	10018.1	3510.4
134	241L1134	-	94.0	97.0	60.2	68.5	24.1	10017.6	3527.7
302	241L1302	-	92.0	102.0	64.5	71.2	29.4	10006.0	4288.2
303	241L1303	-	93.0	87.0	64.0	71.3	23.3	10004.5	3171.2
157	241L1157	-	93.0	99.0	61.8	69.4	29.9	10003.1	2915.3
14	241L1014	-	93.0	92.0	59.2	68.8	26.3	10000.6	3500.4
48	241L1048	-	93.0	92.0	62.7	70.1	20.5	10000.6	3221.1
127	241L1127	-	93.0	93.0	61.5	69.3	22.7	9995.0	3759.0
111	241L1111	-	96.0	95.0	61.3	69.6	21.2	9993.5	3684.8
246	241L1246	-	96.0	97.0	61.1	69.8	24.3	9982.9	3547.1
298	241L1298	-	94.0	89.0	59.5	68.5	26.8	9975.6	3271.4
65	241L1065	-	101.0	99.0	63.9	70.6	21.9	9966.4	3212.9
231	241L1231	-	98.0	96.0	63.8	70.5	28.0	9956.4	3101.6
85	241L1085	-	93.0	91.0	69.5	73.9	19.8	9956.3	4146.6
93	241L1093	-	95.0	92.0	60.2	69.5	24.1	9956.2	3172.3
186	241L1186	-	96.0	97.0	59.0	69.6	30.4	9944.6	3010.4
227	241L1227	-	93.0	93.0	59.8	68.8	25.2	9943.6	3228.6
117	241L1117	-	96.0	98.0	59.8	69.0	26.0	9934.7	2861.7
110	241L1110	-	93.0	96.0	64.5	71.4	29.0	9933.9	4169.3
190	241L1190	-	97.0	93.0	61.3	72.2	24.4	9932.8	2837.2

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
26	241L1026	-	98.0	92.0	62.4	70.0	19.2	9930.6	3627.9
230	241L1230	-	98.0	93.0	64.1	69.4	20.0	9926.9	4047.0
163	241L1163	-	95.0	94.0	55.6	67.6	23.6	9926.4	4157.5
119	241L1119	-	92.0	88.0	61.1	68.8	24.4	9917.2	3685.2
243	241L1243	-	97.0	101.0	61.0	69.2	25.3	9871.3	3388.2
242	241L1242	-	93.0	93.0	57.0	67.8	27.1	9867.5	3685.9
233	241L1233	-	97.0	99.0	62.5	69.6	18.8	9864.6	3825.5
125	241L1125	-	96.0	106.0	65.8	70.7	18.6	9856.5	4135.3
180	241L1180	-	94.0	120.0	57.3	70.5	36.3	9849.3	4354.8
199	241L1199	-	93.0	96.0	59.9	69.9	26.0	9848.5	3551.2
41	241L1041	-	98.0	90.0	63.2	70.1	19.0	9844.2	2908.6
172	241L1172	-	94.0	103.0	64.5	71.3	20.6	9842.2	3969.9
13	241L1013	-	93.0	85.0	60.4	69.5	22.5	9839.2	3430.8
114	241L1114	-	98.0	94.0	63.8	72.2	26.6	9833.8	2714.5
92	241L1092	-	93.0	95.0	60.0	68.4	24.7	9819.7	2856.1
150	241L1150	-	97.0	97.0	64.1	70.4	20.9	9818.6	3253.1
105	241L1105	-	93.0	104.0	61.8	70.2	21.0	9815.7	3507.0
164	241L1164	-	96.0	100.0	63.2	70.1	29.9	9811.6	3162.2
8	241A1008	-	96.0	90.0	63.7	70.4	18.6	9804.2	3194.4
317	241L1317	-	93.0	91.0	53.3	66.0	29.8	9802.9	2707.9
197	241L1197	-	96.0	99.0	65.5	72.1	26.0	9801.4	3469.2
282	241L1282	-	97.0	92.0	61.1	69.6	24.6	9799.7	3246.9
79	241L1079	-	96.0	100.0	64.1	71.2	27.6	9798.3	2946.1
210	241L1210	-	97.0	97.0	65.2	71.5	17.6	9794.0	3858.7
36	241L1036	-	93.0	92.0	64.8	72.3	28.7	9787.2	3638.2
229	241L1229	-	96.0	95.0	63.2	69.8	18.8	9783.7	3651.4
53	241L1053	-	97.0	97.0	62.8	69.8	21.0	9777.4	3691.4
123	241L1123	-	93.0	94.0	61.2	69.7	24.1	9773.6	3844.1
212	241L1212	-	93.0	93.0	58.0	67.6	23.8	9773.6	2988.2
250	241L1250	-	96.0	100.0	63.7	70.8	32.0	9769.1	3606.4
28	241L1028	-	98.0	99.0	62.8	68.9	20.7	9762.8	3341.3
32	241L1032	-	94.0	92.0	67.6	72.7	19.5	9762.1	3842.9
63	241L1063	-	97.0	96.0	54.7	67.8	21.8	9754.2	3008.7
6	241A1006	-	98.0	98.0	62.6	68.3	16.1	9749.2	3431.4
135	241L1135	-	94.0	92.0	61.1	69.4	30.3	9747.2	3195.8
228	241L1228	-	96.0	95.0	64.3	71.0	27.8	9746.6	3832.3
55	241L1055	-	93.0	101.0	63.6	69.9	21.0	9741.7	3584.8
95	241L1095	-	97.0	100.0	63.4	71.1	37.3	9741.4	3454.5
214	241L1214	-	97.0	104.0	65.2	71.1	30.3	9739.6	3318.0
98	241L1098	-	96.0	94.0	60.7	69.5	28.1	9739.0	3542.4
16	241L1016	-	97.0	102.0	61.0	68.6	26.0	9734.3	3154.0
39	241L1039	-	94.0	94.0	57.4	67.5	30.2	9730.0	2691.7
29	241L1029	-	96.0	92.0	61.1	69.3	31.7	9729.2	3240.4
94	241L1094	-	97.0	92.0	63.6	70.6	35.5	9727.5	3850.9
314	241L1314	-	97.0	102.0	63.2	69.8	29.6	9714.7	3969.2
146	241L1146	-	94.0	79.0	62.5	71.3	23.0	9713.1	3750.6
286	241L1286	-	94.0	105.0	62.4	70.3	28.9	9712.0	3996.1
2	241A1002	-	97.0	95.0	56.9	66.7	17.3	9712.0	3462.7
120	241L1120	-	95.0	91.0	57.7	67.8	21.7	9701.0	3636.3
271	241L1271	-	94.0	97.0	61.7	70.2	25.8	9700.2	3401.0
44	241L1044	-	93.0	89.0	61.7	70.6	17.0	9699.2	3216.5

Continued.

Table 3. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
328	AddiJo	-	97.0	104.0	58.4	68.8	26.8	9695.1	3642.5
267	241L1267	-	98.0	89.0	60.0	68.8	31.5	9694.1	3048.8
292	241L1292	-	92.0	95.0	64.4	71.1	20.8	9694.1	4092.6
151	241L1151	-	99.0	95.0	68.5	73.4	17.4	9694.0	3844.8
329	211L1008	-	93.0	95.0	60.9	69.3	25.4	9683.7	3978.5
264	241L1264	-	97.0	89.0	61.4	69.3	27.7	9678.9	3718.4
278	241L1278	-	96.0	95.0	59.0	69.2	23.9	9667.4	3739.7
200	241L1200	-	91.0	93.0	57.2	68.9	27.3	9663.5	3229.3
11	241A1011	-	96.0	104.0	62.7	69.4	19.6	9661.5	3342.4
218	241L1218	-	94.0	100.0	58.0	68.1	25.8	9653.8	3390.1
189	241L1189	-	97.0	98.0	64.3	71.3	24.1	9647.0	4414.6
87	241L1087	-	96.0	94.0	59.4	69.2	20.2	9639.2	2798.0
225	241L1225	-	93.0	95.0	58.2	68.1	18.7	9637.7	3411.3
61	241L1061	-	96.0	91.0	66.1	72.3	33.8	9630.5	3496.3
287	241L1287	-	97.0	94.0	57.3	66.7	21.2	9608.9	3529.7
173	241L1173	-	97.0	92.0	66.1	71.2	18.1	9585.5	3208.4
10	241A1010	-	96.0	99.0	57.7	66.7	21.4	9581.3	3685.8
140	241L1140	-	93.0	94.0	59.7	67.8	22.7	9578.2	3302.5
166	241L1166	-	96.0	93.0	63.1	71.2	25.3	9574.6	3367.3
59	241L1059	-	96.0	94.0	66.3	72.5	25.5	9568.8	3227.8
217	241L1217	-	92.0	93.0	59.0	69.3	25.6	9563.2	2941.8
160	241L1160	-	94.0	93.0	57.0	67.3	19.9	9554.1	3325.2
258	241L1258	-	96.0	98.0	54.8	68.5	27.7	9534.3	4049.0
128	241L1128	-	94.0	101.0	60.1	68.2	20.7	9524.0	2519.3
109	241L1109	-	95.0	95.0	59.9	69.4	24.0	9523.7	2941.8
51	241L1051	-	93.0	97.0	63.2	69.7	17.9	9498.5	3801.2
141	241L1141	-	94.0	94.0	65.3	71.3	20.3	9489.6	3217.4
288	241L1288	-	93.0	101.0	61.5	69.0	21.4	9488.0	3092.6
209	241L1209	-	98.0	96.0	66.0	71.8	21.1	9479.5	3879.3
326	Avant	-	89.0	85.0	63.7	71.1	24.4	9467.6	3511.7
72	241L1072	-	93.0	102.0	59.5	69.1	24.2	9466.4	3663.4
3	241A1003	-	96.0	100.0	63.0	69.0	23.0	9460.2	3529.3
284	241L1284	-	99.0	95.0	61.6	70.0	28.1	9455.5	3997.5
7	241A1007	-	97.0	101.0	60.3	68.4	20.4	9446.1	4122.7
194	241L1194	-	95.0	102.0	57.4	68.8	25.5	9418.6	4043.3
131	241L1131	-	98.0	95.0	61.6	69.7	28.4	9415.9	3645.3
261	241L1261	-	96.0	92.0	57.3	68.0	27.2	9399.6	3160.5
265	241L1265	-	97.0	105.0	65.1	71.1	22.8	9398.8	4034.0
260	241L1260	-	98.0	89.0	62.1	70.2	24.2	9392.1	4234.7
259	241L1259	-	98.0	88.0	59.6	71.6	31.2	9385.6	3282.6
132	241L1132	-	98.0	93.0	60.9	68.4	25.7	9366.1	4497.6
235	241L1235	-	98.0	100.0	65.0	71.0	26.4	9364.9	3670.7
245	241L1245	-	95.0	95.0	61.3	69.5	29.3	9363.8	3179.4
224	241L1224	-	94.0	102.0	62.6	70.3	22.3	9360.0	3814.6
162	241L1162	-	93.0	100.0	57.9	67.7	21.9	9348.1	3523.8
216	241L1216	-	93.0	99.0	58.8	68.6	21.5	9341.2	2832.7
104	241L1104	-	96.0	106.0	62.4	70.5	25.2	9337.8	3438.2
236	241L1236	-	98.0	94.0	63.3	70.5	20.8	9333.2	2583.2
299	241L1299	-	92.0	85.0	61.7	69.7	27.0	9330.0	3216.5
257	241L1257	-	96.0	96.0	62.2	69.7	22.0	9301.2	4598.4
9	241A1009	-	98.0	102.0	62.6	69.2	21.7	9296.8	3371.1

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
208	241L1208	-	96.0	101.0	65.4	72.5	19.8	9286.7	3303.1
133	241L1133	-	96.0	103.0	63.3	70.5	21.4	9266.4	3804.2
158	241L1158	-	97.0	82.0	61.1	69.9	24.1	9260.1	3917.5
147	241L1147	-	94.0	90.0	61.4	69.5	27.4	9244.0	2911.3
192	241L1192	-	98.0	94.0	64.1	73.9	19.4	9241.2	4322.7
251	241L1251	-	92.0	86.0	63.2	70.2	31.4	9225.9	3357.5
96	241L1096	-	96.0	94.0	61.3	69.8	29.6	9225.5	3144.3
136	241L1136	-	96.0	95.0	57.0	67.8	25.2	9222.3	2855.4
204	241L1204	-	93.0	105.0	57.5	68.5	26.3	9221.9	3444.4
296	241L1296	-	94.0	96.0	63.2	70.4	21.0	9213.5	4141.0
252	241L1252	-	89.0	90.0	64.3	70.8	27.1	9203.3	4236.9
91	241L1091	-	98.0	88.0	63.3	70.9	29.2	9181.9	3113.2
118	241L1118	-	92.0	104.0	64.2	70.9	23.7	9170.3	3308.9
73	241L1073	-	94.0	91.0	60.1	69.7	26.7	9159.5	2651.6
62	241L1062	-	93.0	97.0	68.5	73.7	23.6	9148.2	3973.0
249	241L1249	-	92.0	83.0	61.9	69.8	26.4	9142.8	3500.5
50	241L1050	-	93.0	92.0	65.4	71.7	23.8	9134.0	3731.0
170	241L1170	-	96.0	95.0	63.1	71.5	32.2	9134.0	3368.6
293	241L1293	-	92.0	93.0	61.6	69.9	25.8	9125.5	3422.1
34	241L1034	-	93.0	91.0	64.2	71.2	21.7	9123.9	3835.6
247	241L1247	-	91.0	89.0	60.1	68.7	24.6	9118.1	3363.2
206	241L1206	-	97.0	94.0	65.8	72.3	17.9	9115.2	3695.2
185	241L1185	-	94.0	103.0	53.6	66.4	16.7	9112.8	2802.6
240	241L1240	-	94.0	96.0	59.9	68.5	16.4	9112.7	2634.9
174	241L1174	-	97.0	86.0	60.8	71.1	21.9	9107.3	3564.5
273	241L1273	-	93.0	91.0	61.0	69.3	31.4	9099.0	4065.3
253	241L1253	-	92.0	91.0	65.5	71.8	26.7	9096.8	3980.2
17	241L1017	-	96.0	104.0	59.3	67.4	20.6	9088.2	3275.2
4	241A1004	-	94.0	94.0	60.0	69.0	34.2	9071.3	3875.5
113	241L1113	-	94.0	96.0	62.9	69.6	16.6	9040.4	3233.2
196	241L1196	-	94.0	92.0	66.4	72.7	29.3	9035.3	4034.4
270	241L1270	-	98.0	94.0	61.2	70.1	30.5	9023.7	4320.2
222	241L1222	-	91.0	95.0	63.9	70.4	22.7	9016.0	3695.2
201	241L1201	-	94.0	104.0	59.9	69.4	24.6	8988.9	2717.6
130	241L1130	-	96.0	98.0	61.6	69.7	27.0	8980.3	3729.7
153	241L1153	-	97.0	104.0	60.8	69.7	26.4	8969.5	3578.7
145	241L1145	-	92.0	91.0	55.9	67.3	22.2	8958.8	2278.7
198	241L1198	-	97.0	101.0	59.9	69.7	34.5	8954.4	3104.0
165	241L1165	-	94.0	93.0	63.1	69.9	29.8	8941.6	3583.1
169	241L1169	-	94.0	91.0	60.2	69.4	20.8	8907.7	3121.1
70	241L1070	-	94.0	92.0	63.9	71.8	17.1	8896.0	3867.9
223	241L1223	-	91.0	86.0	60.3	69.2	24.9	8890.6	3047.6
5	241A1005	-	93.0	96.0	58.4	68.2	19.9	8890.3	3287.4
15	241L1015	-	92.0	89.0	63.6	70.3	24.2	8854.2	3644.9
297	241L1297	-	94.0	92.0	63.2	70.5	22.8	8841.7	3757.8
47	241L1047	-	93.0	94.0	66.7	72.0	14.2	8835.8	2707.4
220	241L1220	-	92.0	89.0	59.5	67.8	17.3	8799.6	3704.8
21	241L1021	-	97.0	99.0	60.1	69.0	26.4	8727.8	3150.6
49	241L1049	-	93.0	99.0	67.6	72.8	19.8	8721.9	3645.1
203	241L1203	-	93.0	111.0	58.6	69.2	22.3	8713.7	3243.9
281	241L1281	-	98.0	93.0	61.8	69.2	24.8	8690.3	3169.5

Continued.

Table 3. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
330	Fitzgerald	-	96.0	91.0	70.0	75.7	16.4	8659.2	3071.4
1	241A1001	-	93.0	106.0	55.9	65.9	18.9	8602.0	3194.0
289	241L1289	-	97.0	97.0	60.6	68.6	21.3	8554.6	3542.7
20	241L1020	-	97.0	97.0	54.4	67.2	36.7	8552.1	3508.8
184	241L1184	-	94.0	101.0	54.9	66.5	22.1	8547.9	3593.8
175	241L1175	-	96.0	89.0	56.1	68.4	15.7	8517.0	3271.2
215	241L1215	-	93.0	99.0	59.1	68.5	27.6	8481.2	3864.1
139	241L1139	-	93.0	100.0	62.1	70.0	21.5	8474.6	3230.8
149	241L1149	-	98.0	97.0	60.4	69.0	20.7	8458.8	2831.2
112	241L1112	-	93.0	86.0	58.6	68.6	20.3	8452.8	2899.3
178	241L1178	-	93.0	101.0	55.4	68.3	23.6	8391.7	2730.3
122	241L1122	-	92.0	83.0	55.0	66.0	22.9	8383.2	3256.4
213	241L1213	-	92.0	94.0	59.7	68.7	25.0	8344.9	3642.4
219	241L1219	-	93.0	94.0	61.1	71.0	22.3	8257.7	3195.6
12	241L1012	-	93.0	90.0	60.5	69.2	19.5	8221.8	4052.5
183	241L1183	-	97.0	106.0	58.3	69.2	27.5	8142.8	3384.0
46	241L1046	-	92.0	93.0	61.4	69.4	20.2	8105.1	3446.3
239	241L1239	-	94.0	105.0	64.0	71.3	27.6	7986.1	3433.4
161	241L1161	-	94.0	99.0	55.5	67.3	20.8	7920.3	2926.2
255	241L1255	-	101.0	77.0	64.2	70.0	19.5	7917.8	3885.7
193	241L1193	-	97.0	102.0	58.4	70.3	35.4	7663.5	3369.1
285	241L1285	-	98.0	88.0	59.6	68.8	31.9	7085.1	3824.0
211	241L1211	-	91.0	95.0	54.8	67.3	27.8	6789.1	2989.9
23	241L1023	-	96.0	94.0	62.3	71.3	33.0	6177.6	3950.8
176	241L1176	-	96.0	99.0	55.4	68.3	28.2	5720.0	3379.2
179	241L1179	-	93.0	99.0	47.9	64.9	24.5	4348.1	3827.0

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 4. Grain and milling yields and agronomic performance of entries in the 2024 Conventional Preliminary Yield Long-Grain trial – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
101	241L1101	-	74.0	103.0	64.0	72.1	23.6	11392.8	5705.6
140	241L1140	-	70.0	105.0	62.2	70.8	20.1	11266.7	5314.3
120	241L1120	-	70.0	99.0	63.6	71.3	26.5	11170.9	4921.6
146	241L1146	-	70.0	91.0	65.1	72.2	23.5	11002.6	4628.0
144	241L1144	-	73.0	100.0	65.4	72.3	21.8	10951.1	4752.5
212	241L1212	-	70.0	104.0	58.7	67.3	24.5	10888.1	4745.5
32	241L1032	-	70.0	100.0	63.6	71.8	18.6	10881.4	4933.8
110	241L1110	-	70.0	102.0	63.1	71.2	29.3	10877.3	4655.9
50	241L1050	-	69.0	96.0	61.6	72.1	23.5	10849.2	4782.6
124	241L1124	-	73.0	100.0	63.3	69.8	23.6	10842.7	4933.2
249	241L1249	-	68.0	102.0	63.6	71.1	24.3	10826.0	5748.0
313	241L1313	-	71.0	110.0	55.0	69.5	31.7	10825.5	4226.6
322	241L1322	-	73.0	107.0	55.7	69.2	22.6	10785.8	4507.6
126	241L1126	-	72.0	106.0	67.5	72.5	15.4	10768.1	5174.8
67	241L1067	-	74.0	104.0	66.8	72.8	20.6	10761.8	5131.8
60	241L1060	-	72.0	92.0	66.6	72.7	19.9	10723.8	5724.3
329	211L1008	-	70.0	99.0	60.9	70.1	18.9	10716.5	5149.4
12	241L1012	-	70.0	102.0	55.0	69.1	20.4	10685.4	5501.8
52	241L1052	-	72.0	102.0	64.5	71.5	20.9	10659.2	5088.2
107	241L1107	-	72.0	110.0	59.9	71.9	35.2	10632.5	5119.4
64	241L1064	-	70.0	102.0	63.1	71.8	29.3	10608.8	5307.8
145	241L1145	-	70.0	93.0	60.0	70.3	25.9	10601.4	4629.3
93	241L1093	-	71.0	102.0	65.8	72.4	27.6	10596.4	4860.7
99	241L1099	-	74.0	108.0	60.8	70.3	19.5	10558.8	5613.0
121	241L1121	-	70.0	101.0	56.1	67.9	21.6	10527.0	5954.2
33	241L1033	-	67.0	99.0	58.6	70.0	17.9	10495.6	5150.6
305	241L1305	-	72.0	101.0	58.3	69.3	27.6	10476.4	4889.4
119	241L1119	-	70.0	104.0	53.4	68.0	26.1	10451.6	5176.2
41	241L1041	-	75.0	98.0	63.9	70.8	14.8	10448.6	4885.2
246	241L1246	-	71.0	102.0	60.1	70.2	23.4	10434.0	4827.0
72	241L1072	-	70.0	107.0	57.0	69.0	19.8	10411.6	4656.3
278	241L1278	-	71.0	99.0	51.0	69.2	23.4	10409.4	5755.1
77	241L1077	-	74.0	103.0	63.9	71.4	27.7	10407.5	5538.6
102	241L1102	-	73.0	103.0	64.7	72.0	22.2	10406.9	6000.5
242	241L1242	-	70.0	103.0	53.0	68.6	24.0	10392.9	5517.0
36	241L1036	-	70.0	97.0	64.6	72.4	26.5	10380.6	5243.8
108	241L1108	-	70.0	112.0	62.1	71.1	22.9	10372.0	4250.5
85	241L1085	-	70.0	106.0	67.3	73.1	27.2	10346.9	4782.7
275	241L1275	-	71.0	100.0	58.9	71.3	24.9	10335.6	5784.2
293	241L1293	-	69.0	87.0	60.7	70.3	21.0	10307.3	5144.2
323	241L1323	-	72.0	107.0	64.1	71.4	22.2	10284.2	4952.5
311	241L1311	-	70.0	105.0	48.3	67.8	33.0	10257.0	3504.0
95	241L1095	-	74.0	109.0	63.3	71.9	27.7	10253.9	5358.6
8	241A1008	-	74.0	103.0	67.2	71.8	20.9	10249.9	5524.7
167	241L1167	-	73.0	99.0	53.1	68.7	27.0	10246.1	5307.3
276	241L1276	-	70.0	96.0	50.7	69.8	19.3	10225.0	5463.1
86	241L1086	-	70.0	89.0	64.8	71.9	25.3	10223.5	5933.0
279	241L1279	-	70.0	109.0	66.4	73.2	25.9	10223.2	4999.9
113	241L1113	-	72.0	108.0	61.1	70.5	16.1	10203.8	5050.9
182	241L1182	-	70.0	99.0	56.2	68.6	27.9	10193.0	4885.8

Continued.

Table 4. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
141	241L1141	-	73.0	106.0	61.5	71.5	16.3	10182.6	4458.5
104	241L1104	-	71.0	115.0	63.8	72.3	19.2	10168.1	5679.9
277	241L1277	-	73.0	95.0	58.4	70.6	26.8	10161.5	5992.1
137	241L1137	-	72.0	109.0	59.2	71.0	29.1	10159.2	4987.6
89	241L1089	-	73.0	119.0	64.5	71.9	19.2	10158.6	5527.4
297	241L1297	-	70.0	97.0	58.2	69.7	18.4	10151.7	4674.9
244	241L1244	-	75.0	102.0	66.3	72.1	19.2	10127.2	4600.5
316	241L1316	-	71.0	105.0	60.5	71.4	25.7	10126.5	5318.0
70	241L1070	-	73.0	98.0	66.6	73.1	16.1	10120.5	6252.9
135	241L1135	-	71.0	104.0	59.4	71.0	28.6	10107.2	4939.0
226	241L1226	-	74.0	105.0	64.4	71.0	19.9	10101.9	5414.9
238	241L1238	-	73.0	100.0	58.2	70.5	29.1	10098.9	4918.4
37	241L1037	-	70.0	102.0	60.6	70.9	24.5	10095.1	5018.3
309	241L1309	-	74.0	108.0	60.0	69.9	22.3	10086.1	6065.4
154	241L1154	-	71.0	105.0	54.5	69.8	18.2	10078.7	4214.5
25	241L1025	-	73.0	110.0	61.3	69.8	31.0	10076.1	4904.3
139	241L1139	-	70.0	111.0	60.6	70.2	20.4	10074.7	4902.8
100	241L1100	-	72.0	109.0	62.6	71.6	24.9	10069.5	4333.1
13	241L1013	-	70.0	93.0	60.2	71.0	21.3	10067.5	5013.4
214	241L1214	-	75.0	116.0	66.2	72.2	20.5	10066.4	5784.2
97	241L1097	-	70.0	113.0	51.6	68.3	23.7	10064.3	4528.6
304	241L1304	-	70.0	96.0	64.0	71.9	21.2	10062.7	5478.3
299	241L1299	-	69.0	99.0	64.3	72.4	23.1	10037.8	5066.7
326	Avant	-	68.0	100.0	61.2	70.1	21.7	10021.0	5094.5
136	241L1136	-	74.0	110.0	59.1	70.8	24.7	9995.0	4078.5
109	241L1109	-	71.0	98.0	57.2	70.1	21.5	9979.9	5219.5
81	241L1081	-	72.0	112.0	58.8	69.5	22.9	9973.6	5641.9
159	241L1159	-	74.0	108.0	56.6	69.9	22.1	9972.5	6094.7
82	241L1082	-	74.0	102.0	63.8	71.3	21.6	9966.7	5573.5
29	241L1029	-	73.0	105.0	65.2	72.2	27.9	9956.2	4956.0
217	241L1217	-	71.0	102.0	59.8	70.8	26.5	9947.5	4390.4
211	241L1211	-	69.0	108.0	62.6	70.4	21.3	9941.5	4226.1
142	241L1142	-	71.0	103.0	58.8	69.8	26.3	9932.9	4836.4
180	241L1180	-	71.0	124.0	55.1	69.2	27.1	9924.1	4986.0
243	241L1243	-	75.0	108.0	63.6	70.8	16.1	9918.2	5230.6
123	241L1123	-	70.0	107.0	61.2	70.1	23.2	9909.2	3566.1
6	241A1006	-	75.0	105.0	67.2	71.5	13.9	9904.0	5716.2
292	241L1292	-	69.0	105.0	62.5	71.0	18.9	9902.8	5621.0
3	241A1003	-	74.0	104.0	63.8	70.3	21.1	9901.9	5007.9
315	241L1315	-	71.0	110.0	60.9	70.8	27.2	9900.5	4752.4
1	241A1001	-	70.0	116.0	54.2	66.1	20.0	9896.0	4836.4
74	241L1074	-	71.0	93.0	61.7	71.0	23.2	9894.5	3941.2
54	241L1054	-	75.0	100.0	65.9	72.3	15.9	9894.5	5415.4
118	241L1118	-	70.0	105.0	57.6	69.4	18.7	9884.5	5300.4
282	241L1282	-	75.0	111.0	61.2	69.7	17.0	9879.6	5254.3
129	241L1129	-	73.0	107.0	62.0	69.7	10.0	9822.6	4883.0
271	241L1271	-	71.0	110.0	63.4	72.8	25.3	9815.7	4812.7
310	241L1310	-	71.0	103.0	53.9	68.5	28.0	9805.4	4885.1
298	241L1298	-	70.0	111.0	62.5	71.0	23.0	9798.8	5244.5
5	241A1005	-	72.0	101.0	50.5	66.0	18.7	9791.2	4506.0
176	241L1176	-	75.0	107.0	62.6	69.8	24.7	9784.0	5365.0

Continued.

Table 4. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
127	241L1127	-	69.0	111.0	61.5	69.5	21.6	9774.6	4440.7
253	241L1253	-	68.0	97.0	65.2	71.8	21.9	9773.3	5319.2
172	241L1172	-	72.0	105.0	63.5	71.2	17.2	9750.2	4371.4
62	241L1062	-	68.0	92.0	63.1	70.7	15.8	9747.0	5068.4
92	241L1092	-	71.0	110.0	59.9	69.9	21.2	9735.0	4451.3
330	Fitzgerald	-	71.0	94.0	66.2	72.5	11.4	9731.3	4464.2
295	241L1295	-	70.0	103.0	61.9	71.1	23.9	9710.0	5026.3
23	241L1023	-	71.0	105.0	60.0	69.7	26.0	9691.1	4178.1
325	241L1325	-	74.0	112.0	59.4	69.1	23.3	9683.4	6057.6
196	241L1196	-	72.0	104.0	66.2	72.6	20.4	9677.2	5181.9
61	241L1061	-	71.0	101.0	62.7	71.9	24.6	9667.8	5932.2
248	241L1248	-	70.0	96.0	61.1	70.1	17.7	9667.4	3999.0
308	241L1308	-	75.0	104.0	62.6	70.0	21.5	9658.0	6113.2
39	241L1039	-	70.0	102.0	61.1	72.6	29.7	9656.2	4079.1
96	241L1096	-	73.0	92.0	61.4	71.4	24.3	9649.5	4801.8
318	241L1318	-	73.0	102.0	59.0	70.9	23.0	9648.1	6228.0
98	241L1098	-	73.0	103.0	59.3	70.6	25.7	9637.5	4140.5
286	241L1286	-	73.0	109.0	50.0	68.2	24.4	9624.7	4725.5
324	241L1324	-	74.0	105.0	60.2	70.2	22.1	9607.4	5540.6
103	241L1103	-	74.0	105.0	67.3	73.6	24.9	9591.0	4809.7
147	241L1147	-	69.0	97.0	60.2	71.6	24.6	9589.4	4995.5
177	241L1177	-	70.0	99.0	54.1	66.6	35.3	9587.9	6418.5
155	241L1155	-	72.0	102.0	51.1	67.7	43.7	9575.5	3865.5
163	241L1163	-	73.0	91.0	51.2	68.0	26.0	9573.1	5811.6
227	241L1227	-	73.0	95.0	65.8	72.2	20.2	9569.5	4078.1
162	241L1162	-	72.0	104.0	55.2	69.2	24.4	9563.3	5787.3
148	241L1148	-	74.0	111.0	63.7	70.8	20.9	9561.4	5806.4
272	241L1272	-	71.0	92.0	57.4	68.7	23.0	9555.4	4974.9
312	241L1312	-	74.0	99.0	60.8	70.0	24.7	9543.6	5551.6
303	241L1303	-	70.0	92.0	62.0	70.7	18.1	9535.1	4484.7
16	241L1016	-	74.0	106.0	62.0	70.3	23.5	9535.1	5833.0
218	241L1218	-	73.0	110.0	61.2	71.6	28.3	9532.6	4713.2
51	241L1051	-	70.0	102.0	61.1	70.2	13.9	9532.3	4732.5
273	241L1273	-	69.0	99.0	46.2	68.1	30.4	9529.2	5080.4
219	241L1219	-	70.0	95.0	58.9	71.1	17.5	9529.0	4642.5
48	241L1048	-	71.0	104.0	59.6	70.5	22.0	9527.9	4562.3
42	241L1042	-	74.0	115.0	63.3	71.0	18.2	9519.6	4784.3
267	241L1267	-	74.0	95.0	62.1	70.1	23.6	9511.5	5194.4
319	241L1319	-	73.0	105.0	55.1	67.4	19.1	9510.0	5395.8
53	241L1053	-	71.0	103.0	59.7	69.8	18.6	9503.3	4060.7
327	DG263L	-	70.0	106.0	58.8	67.4	28.1	9500.8	3932.8
30	241L1030	-	76.0	97.0	64.4	70.0	16.4	9489.4	5320.0
328	AddiJo	-	74.0	102.0	60.9	70.1	21.3	9478.5	4974.0
204	241L1204	-	74.0	115.0	58.4	68.8	22.3	9463.7	4947.7
207	241L1207	-	70.0	104.0	64.2	70.9	23.1	9457.3	4873.3
224	241L1224	-	72.0	107.0	59.8	70.6	15.1	9453.2	5683.8
134	241L1134	-	71.0	102.0	57.7	69.9	25.3	9444.0	3436.3
10	241A1010	-	74.0	105.0	61.0	68.9	19.3	9438.2	4639.6
11	241A1011	-	74.0	99.0	64.6	71.1	13.6	9434.0	4707.3
45	241L1045	-	72.0	109.0	62.2	71.5	24.9	9431.1	3380.8
250	241L1250	-	70.0	98.0	63.7	71.8	29.8	9412.3	5602.7

Continued.

Table 4. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
131	241L1131	-	75.0	99.0	62.7	70.0	20.2	9410.1	5541.8
201	241L1201	-	73.0	119.0	62.4	70.4	19.6	9407.2	4649.8
44	241L1044	-	73.0	103.0	66.5	72.5	14.8	9396.3	4981.5
301	241L1301	-	72.0	107.0	59.6	70.3	16.8	9381.0	5100.7
200	241L1200	-	72.0	106.0	64.8	71.4	27.1	9362.0	5082.1
112	241L1112	-	69.0	95.0	61.7	70.2	21.5	9350.1	4672.4
269	241L1269	-	73.0	98.0	54.3	69.7	23.2	9349.6	4514.8
300	241L1300	-	70.0	100.0	61.6	70.5	17.8	9347.9	4697.1
302	241L1302	-	70.0	103.0	58.1	70.0	24.9	9339.5	4988.6
105	241L1105	-	70.0	101.0	59.6	70.3	16.7	9334.5	4411.2
199	241L1199	-	73.0	98.0	61.5	70.5	20.8	9325.8	5031.3
55	241L1055	-	70.0	107.0	63.6	71.3	23.4	9324.1	4327.8
43	241L1043	-	72.0	104.0	66.3	73.0	18.9	9320.9	5578.4
27	241L1027	-	74.0	103.0	62.8	70.3	21.8	9318.9	4872.6
106	241L1106	-	71.0	103.0	61.3	70.3	25.0	9288.5	4543.9
4	241A1004	-	73.0	99.0	56.7	68.2	32.5	9284.0	5055.1
15	241L1015	-	70.0	97.0	60.1	70.1	20.6	9279.1	3622.6
202	241L1202	-	74.0	115.0	58.0	69.2	21.9	9272.8	5403.4
7	241A1007	-	75.0	103.0	61.7	69.6	15.7	9272.7	5549.7
190	241L1190	-	73.0	108.0	-	-	-	9271.4	4932.8
35	241L1035	-	69.0	109.0	61.7	70.1	16.3	9265.1	4682.4
133	241L1133	-	74.0	105.0	62.0	70.7	18.7	9253.2	6381.6
234	241L1234	-	70.0	109.0	63.1	71.0	27.6	9246.0	4052.6
49	241L1049	-	72.0	105.0	59.8	70.6	25.3	9243.5	4562.3
215	241L1215	-	70.0	110.0	51.9	68.4	26.0	9215.7	5301.5
80	241L1080	-	71.0	107.0	64.4	72.4	22.5	9209.7	4694.2
291	241L1291	-	71.0	115.0	58.8	69.2	22.0	9206.2	5282.6
258	241L1258	-	71.0	104.0	63.8	71.4	23.4	9198.4	5125.5
205	241L1205	-	74.0	110.0	63.6	71.8	14.6	9194.6	5232.1
203	241L1203	-	72.0	117.0	61.9	71.0	21.8	9192.8	5000.8
40	241L1040	-	74.0	98.0	66.6	72.0	20.7	9188.4	4287.0
38	241L1038	-	74.0	100.0	66.7	72.3	15.7	9187.4	5119.4
164	241L1164	-	70.0	111.0	55.0	67.9	23.9	9178.2	4540.9
157	241L1157	-	70.0	112.0	59.9	70.5	25.8	9168.8	4467.5
223	241L1223	-	68.0	91.0	60.5	70.4	24.6	9166.4	4999.7
266	241L1266	-	74.0	106.0	58.9	70.5	24.3	9163.9	5445.8
22	241L1022	-	75.0	106.0	65.0	71.9	17.9	9127.4	5636.5
186	241L1186	-	71.0	102.0	58.6	69.0	18.8	9126.4	4501.9
187	241L1187	-	73.0	105.0	64.8	71.3	14.8	9123.9	4868.2
111	241L1111	-	71.0	106.0	61.6	70.2	17.2	9112.0	4220.6
274	241L1274	-	70.0	110.0	59.4	71.9	30.9	9110.3	5149.6
241	241L1241	-	74.0	100.0	61.5	71.2	26.9	9106.6	5132.8
256	241L1256	-	74.0	96.0	61.5	70.5	19.7	9106.2	5522.7
160	241L1160	-	72.0	109.0	57.5	70.8	29.6	9097.6	5439.9
20	241L1020	-	74.0	102.0	63.2	70.1	24.2	9090.6	4933.8
138	241L1138	-	74.0	99.0	59.9	70.1	16.6	9085.3	4007.7
19	241L1019	-	71.0	110.0	63.9	71.4	26.9	9049.8	4534.6
171	241L1171	-	72.0	106.0	60.7	70.7	19.5	9044.2	4503.6
14	241L1014	-	69.0	95.0	65.9	71.8	23.5	9041.5	4077.0
252	241L1252	-	67.0	95.0	60.4	70.7	28.9	9028.5	4893.3
197	241L1197	-	71.0	103.0	61.3	70.0	17.6	9022.1	4903.3

Continued.

Table 4. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
78	241L1078	-	75.0	110.0	61.6	70.7	20.0	9012.5	5376.9
317	241L1317	-	73.0	100.0	57.3	69.0	26.6	9010.7	5412.1
130	241L1130	-	74.0	96.0	61.9	70.7	19.6	9009.9	4933.2
46	241L1046	-	69.0	105.0	54.2	67.8	15.6	9005.9	3315.8
307	241L1307	-	73.0	103.0	62.4	71.0	25.3	9005.0	4806.7
161	241L1161	-	73.0	98.0	62.2	72.3	26.9	9002.5	4806.4
306	241L1306	-	74.0	105.0	58.5	69.7	23.1	8999.8	5674.9
91	241L1091	-	74.0	100.0	66.4	71.7	18.9	8999.3	4747.3
294	241L1294	-	71.0	104.0	61.1	70.3	20.8	8940.2	5975.7
222	241L1222	-	68.0	98.0	59.6	69.3	16.9	8937.6	4909.8
170	241L1170	-	74.0	103.0	60.3	70.7	26.7	8933.4	4545.1
83	241L1083	-	74.0	98.0	66.6	72.3	18.2	8911.7	4904.7
71	241L1071	-	71.0	116.0	57.8	70.7	25.7	8907.2	4119.8
18	241L1018	-	75.0	110.0	66.0	72.4	20.0	8899.3	5269.3
115	241L1115	-	74.0	105.0	62.2	71.5	21.7	8880.4	4603.1
69	241L1069	-	71.0	93.0	65.4	72.8	22.6	8875.6	4096.8
220	241L1220	-	68.0	99.0	54.9	67.3	17.2	8870.7	4867.0
94	241L1094	-	75.0	111.0	61.9	70.8	24.6	8844.7	4131.1
9	241A1009	-	74.0	110.0	58.8	68.6	19.7	8833.3	5263.6
24	241L1024	-	75.0	109.0	63.7	70.6	14.3	8832.2	5587.6
254	241L1254	-	75.0	97.0	62.2	70.3	16.9	8827.8	4400.0
264	241L1264	-	73.0	99.0	61.5	70.1	21.7	8820.9	4988.9
288	241L1288	-	70.0	97.0	62.8	70.6	21.4	8817.6	4874.9
314	241L1314	-	74.0	104.0	64.1	71.0	22.1	8810.6	5864.0
68	241L1068	-	75.0	101.0	61.8	69.8	14.1	8810.5	4764.6
165	241L1165	-	71.0	110.0	61.0	69.7	23.8	8799.9	3993.3
225	241L1225	-	70.0	95.0	64.2	71.1	24.6	8795.7	5047.3
261	241L1261	-	73.0	92.0	54.1	69.7	24.9	8795.7	4054.4
59	241L1059	-	73.0	100.0	67.5	72.9	20.6	8782.2	4860.2
251	241L1251	-	70.0	96.0	59.9	69.9	23.8	8773.9	5262.1
245	241L1245	-	76.0	104.0	62.7	70.9	20.3	8771.3	5089.8
34	241L1034	-	72.0	95.0	60.6	71.7	17.4	8705.8	3490.1
216	241L1216	-	72.0	111.0	58.7	69.4	17.3	8705.8	4100.7
259	241L1259	-	73.0	101.0	63.6	70.6	24.2	8693.6	4715.1
208	241L1208	-	71.0	106.0	62.8	71.0	19.5	8682.1	4365.3
150	241L1150	-	74.0	100.0	69.4	73.7	19.0	8677.9	5616.2
263	241L1263	-	73.0	103.0	55.8	68.8	32.2	8649.9	4667.5
239	241L1239	-	70.0	105.0	62.6	70.7	23.4	8635.7	4804.0
296	241L1296	-	70.0	100.0	63.6	72.1	16.7	8593.1	5336.5
116	241L1116	-	71.0	103.0	54.9	69.3	26.3	8589.1	4795.3
321	241L1321	-	74.0	100.0	58.8	70.3	26.0	8584.0	4581.8
262	241L1262	-	74.0	98.0	56.4	68.2	23.2	8548.7	4534.1
185	241L1185	-	74.0	113.0	55.9	68.2	12.8	8540.6	4867.2
58	241L1058	-	71.0	103.0	63.0	70.5	22.4	8533.6	4428.6
31	241L1031	-	72.0	108.0	58.3	70.8	19.5	8512.8	4051.9
260	241L1260	-	75.0	85.0	62.5	70.2	15.2	8510.0	5311.1
153	241L1153	-	74.0	111.0	58.5	70.5	19.2	8485.6	3419.1
2	241A1002	-	75.0	104.0	64.5	71.9	16.2	8472.3	5146.1
290	241L1290	-	71.0	102.0	60.6	70.6	18.5	8470.1	4828.7
84	241L1084	-	74.0	104.0	65.1	71.5	20.0	8431.4	5506.0
47	241L1047	-	70.0	94.0	65.2	72.1	18.3	8430.0	3974.6

Continued.

Table 4. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
280	241L1280	-	72.0	105.0	63.5	69.8	17.4	8422.3	4824.6
143	241L1143	-	75.0	100.0	63.9	70.8	14.0	8420.4	4422.3
169	241L1169	-	75.0	105.0	65.2	72.2	16.3	8394.5	5161.9
198	241L1198	-	75.0	101.0	63.7	71.3	20.5	8379.3	5225.7
178	241L1178	-	70.0	102.0	52.2	67.7	28.6	8377.9	4270.5
79	241L1079	-	74.0	119.0	66.8	72.2	21.0	8366.3	4140.5
221	241L1221	-	73.0	101.0	61.2	69.5	16.6	8348.2	4583.8
320	241L1320	-	74.0	107.0	62.0	71.8	22.2	8344.9	4770.6
63	241L1063	-	75.0	103.0	60.2	70.6	16.9	8334.8	5244.7
76	241L1076	-	74.0	106.0	64.9	70.9	17.7	8322.0	4568.6
184	241L1184	-	73.0	100.0	59.1	68.5	16.4	8319.7	4378.9
166	241L1166	-	74.0	101.0	66.5	72.4	20.6	8312.9	4916.5
17	241L1017	-	74.0	106.0	62.7	69.8	17.3	8295.2	5093.8
283	241L1283	-	74.0	98.0	63.2	71.3	20.9	8279.6	4117.9
209	241L1209	-	76.0	107.0	65.9	71.2	14.1	8272.3	3930.3
281	241L1281	-	74.0	101.0	64.6	70.7	18.5	8270.4	5365.2
88	241L1088	-	75.0	102.0	65.8	72.2	17.3	8193.1	5916.6
230	241L1230	-	75.0	98.0	64.5	69.7	14.7	8159.3	5903.3
125	241L1125	-	72.0	109.0	61.8	70.1	15.8	8140.1	4908.4
73	241L1073	-	72.0	105.0	62.5	72.0	27.5	8120.1	4640.4
87	241L1087	-	74.0	102.0	66.0	71.5	17.0	8119.7	4402.2
65	241L1065	-	76.0	103.0	64.7	71.7	14.9	8118.9	4135.6
270	241L1270	-	73.0	109.0	63.3	70.3	22.9	8109.7	5103.3
268	241L1268	-	76.0	107.0	58.9	68.2	20.8	8104.4	5489.0
175	241L1175	-	74.0	95.0	66.1	72.5	16.6	8089.2	5326.8
128	241L1128	-	73.0	95.0	63.9	71.9	17.4	8084.9	4024.7
152	241L1152	-	76.0	111.0	64.5	71.7	17.5	8064.2	4408.1
56	241L1056	-	73.0	100.0	64.3	71.2	15.0	8060.6	3974.4
117	241L1117	-	71.0	107.0	-	-	-	8050.7	4202.0
26	241L1026	-	75.0	96.0	66.3	71.6	14.6	8047.3	5337.9
255	241L1255	-	77.0	88.0	63.9	71.0	12.7	8041.2	4989.4
210	241L1210	-	75.0	106.0	65.9	71.9	9.3	8024.9	4124.4
240	241L1240	-	71.0	100.0	62.1	71.2	17.0	8002.9	4616.6
168	241L1168	-	74.0	100.0	61.3	70.1	18.3	8001.1	5444.4
183	241L1183	-	71.0	104.0	60.1	69.3	19.5	7990.1	4401.4
90	241L1090	-	75.0	101.0	63.1	70.8	17.5	7972.4	4715.1
122	241L1122	-	69.0	96.0	63.3	72.5	25.1	7970.9	4768.8
174	241L1174	-	75.0	100.0	56.4	70.9	12.5	7938.8	4608.7
194	241L1194	-	70.0	105.0	61.1	69.7	19.6	7930.2	4789.7
284	241L1284	-	75.0	101.0	60.6	70.6	22.3	7878.1	4575.5
57	241L1057	-	75.0	98.0	65.3	71.4	17.9	7870.0	4871.8
229	241L1229	-	71.0	94.0	59.4	69.0	11.4	7813.1	4103.8
149	241L1149	-	76.0	101.0	67.3	72.7	13.7	7750.8	6043.4
66	241L1066	-	71.0	105.0	65.1	71.6	15.8	7716.2	4814.6
228	241L1228	-	74.0	99.0	60.7	68.7	19.0	7697.6	5339.3
28	241L1028	-	76.0	109.0	64.9	70.9	11.4	7686.3	5247.9
247	241L1247	-	67.0	103.0	63.9	70.9	27.1	7566.2	3461.3
257	241L1257	-	75.0	89.0	62.5	69.2	16.6	7547.4	5758.3
287	241L1287	-	75.0	97.0	60.7	69.0	16.0	7542.8	5317.3
191	241L1191	-	72.0	112.0	65.9	71.3	18.5	7480.6	4124.0
195	241L1195	-	73.0	111.0	60.8	71.3	29.1	7458.1	2040.1

Continued.

Table 4. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
21	241L1021	-	75.0	109.0	64.6	72.0	15.3	7400.4	3947.0
213	241L1213	-	70.0	100.0	61.9	70.4	22.6	7377.5	4481.6
75	241L1075	-	74.0	102.0	66.3	72.6	17.3	7354.0	4881.8
156	241L1156	-	72.0	104.0	64.4	73.0	21.2	7351.7	4970.1
158	241L1158	-	75.0	100.0	64.5	71.3	14.0	7338.6	5543.4
179	241L1179	-	69.0	111.0	55.3	68.5	24.2	7300.8	5087.3
114	241L1114	-	77.0	106.0	64.2	72.2	14.1	7275.1	3614.1
193	241L1193	-	75.0	110.0	56.1	68.4	15.1	7224.2	4473.8
132	241L1132	-	76.0	95.0	65.1	71.8	21.3	7223.2	5557.5
192	241L1192	-	75.0	102.0	63.3	71.6	9.9	7209.9	5044.8
189	241L1189	-	74.0	110.0	63.0	70.9	19.7	7189.2	5486.1
206	241L1206	-	75.0	103.0	66.1	71.7	11.7	7159.6	5564.6
285	241L1285	-	76.0	90.0	59.7	69.6	23.0	7129.4	4316.0
289	241L1289	-	74.0	99.0	60.7	70.1	20.9	7108.3	3962.0
233	241L1233	-	71.0	101.0	65.0	71.6	16.7	7095.2	4495.1
237	241L1237	-	75.0	111.0	62.7	69.7	15.2	7059.1	4880.7
181	241L1181	-	69.0	116.0	52.3	67.8	23.3	6844.5	4293.3
173	241L1173	-	76.0	97.0	67.6	72.6	8.7	6822.7	4385.0
151	241L1151	-	77.0	98.0	67.4	72.5	7.8	6469.5	5042.2
235	241L1235	-	75.0	107.0	65.7	71.3	13.2	6378.4	5063.0
231	241L1231	-	74.0	108.0	67.0	73.7	16.8	6229.0	4439.1
265	241L1265	-	73.0	98.0	64.9	72.1	15.8	6070.1	5131.9
236	241L1236	-	75.0	101.0	61.7	70.5	18.2	5755.9	4159.5
232	241L1232	-	75.0	96.0	62.4	70.1	14.9	5448.4	5032.3

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 5. Grain and milling yields and agronomic performance of entries in the 2024 Conventional Preliminary Yield Medium-Grain trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
126	241M1126	-	99.0	97.0	56.1	63.4	10.5	11597.9	2282.5
122	241M1122	-	96.0	97.0	61.0	64.9	9.5	11361.7	2334.3
128	241M1128	-	96.0	103.0	52.0	61.7	10.8	11294.6	2980.8
127	241M1127	-	96.0	92.0	52.1	63.1	6.3	10934.5	3174.6
57	241M1057	-	96.0	92.0	63.4	67.3	12.0	10897.9	2515.8
44	241M1044	-	96.0	95.0	59.3	65.4	16.6	10690.7	3152.8
121	241M1121	-	97.0	96.0	57.9	63.3	9.4	10658.0	1757.2
18	241M1018	-	94.0	89.0	57.4	63.8	6.9	10631.7	1643.4
49	241M1049	-	92.0	89.0	61.2	65.7	16.9	10631.0	2991.7
87	241M1087	-	94.0	88.0	59.9	65.6	11.4	10615.6	2851.5
33	241M1033	-	94.0	102.0	57.1	63.7	9.6	10614.8	2153.9
132	241M1132	-	94.0	96.0	58.2	63.9	10.1	10551.5	2547.1
134	241M1134	-	93.0	102.0	56.8	63.3	11.1	10538.3	2778.7
40	241M1040	-	98.0	88.0	56.9	64.5	8.2	10480.6	3238.5
66	241M1066	-	98.0	87.0	60.8	66.8	7.3	10479.7	2464.5
76	241M1076	-	97.0	88.0	59.0	64.5	11.1	10464.8	2519.2
36	241M1036	-	94.0	94.0	57.6	64.0	6.6	10451.4	2910.3
20	241M1020	-	93.0	83.0	58.2	64.9	10.6	10451.3	2074.9
124	241M1124	-	97.0	94.0	60.1	65.5	13.2	10428.3	3335.6
86	241M1086	-	95.0	88.0	62.2	66.6	10.5	10381.3	2731.0
42	241M1042	-	96.0	87.0	57.0	63.5	6.7	10357.1	2437.8
30	241M1030	-	95.0	92.0	59.9	65.8	13.1	10331.9	2354.4
47	241M1047	-	96.0	91.0	60.9	65.0	15.4	10323.7	2387.7
133	241M1133	-	94.0	95.0	58.3	63.6	10.0	10294.1	2342.2
89	241M1089	-	95.0	95.0	58.3	64.4	9.0	10269.6	2345.7
68	241M1068	-	98.0	80.0	56.6	65.6	12.2	10256.7	2670.5
41	241M1041	-	94.0	90.0	54.2	61.6	12.2	10249.8	2551.2
54	241M1054	-	96.0	86.0	55.0	64.3	13.0	10247.7	2512.0
131	241M1131	-	94.0	103.0	59.3	64.3	8.6	10229.6	2432.0
6	241M1006	-	95.0	82.0	54.1	63.2	16.0	10184.5	1891.6
45	241M1045	-	96.0	87.0	59.6	65.8	8.4	10176.5	1946.5
136	241M1136	-	92.0	90.0	55.5	62.6	9.6	10074.6	2134.8
135	241M1135	-	94.0	98.0	55.3	64.3	12.0	10034.0	1901.1
129	241M1129	-	94.0	84.0	59.1	65.4	7.2	10028.0	3331.4
58	241M1058	-	96.0	97.0	55.0	63.3	18.9	10005.3	2019.4
21	241M1021	-	96.0	86.0	60.4	65.6	5.5	9990.9	3006.4
52	241M1052	-	96.0	92.0	55.3	64.2	19.5	9990.7	2288.3
32	241M1032	-	93.0	98.0	59.1	63.8	12.2	9983.8	2759.3
125	241M1125	-	96.0	101.0	62.1	66.3	12.5	9913.1	3441.4
90	241M1090	-	95.0	82.0	56.0	63.8	10.1	9835.6	2436.6
5	241M1005	-	94.0	105.0	40.7	60.1	19.3	9809.7	2131.0
51	241M1051	-	98.0	89.0	57.9	64.9	16.1	9795.2	2229.1
105	241M1105	-	96.0	94.0	55.5	64.4	6.0	9749.6	2669.0
72	241M1072	-	93.0	86.0	60.1	64.4	10.1	9746.3	2135.1
85	241M1085	-	92.0	91.0	59.2	65.1	11.6	9701.6	2089.1
48	241M1048	-	96.0	93.0	59.0	63.8	11.1	9696.1	2867.6
55	241M1055	-	96.0	102.0	61.8	66.7	7.8	9648.9	2281.8
16	241M1016	-	94.0	91.0	53.6	63.3	15.5	9613.2	2259.4
88	241M1088	-	93.0	102.0	56.3	64.3	10.5	9612.5	1983.5
108	241M1108	-	91.0	88.0	57.1	64.8	8.7	9593.2	2398.5

Continued.

Table 5. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
12	241M1012	-	96.0	88.0	58.2	63.1	10.7	9564.0	1935.4
35	241M1035	-	99.0	97.0	56.3	62.1	8.4	9523.0	2106.7
53	241M1053	-	96.0	96.0	59.2	64.2	12.0	9516.5	1746.2
25	241M1025	-	93.0	86.0	35.6	59.8	21.6	9499.6	1626.8
123	241M1123	-	93.0	90.0	59.4	63.7	7.8	9480.9	1938.2
39	241M1039	-	95.0	95.0	54.8	63.5	10.8	9462.0	1638.0
34	241M1034	-	96.0	92.0	54.7	61.7	12.8	9440.4	2101.5
71	241M1071	-	92.0	92.0	55.8	62.6	7.5	9434.3	2644.9
137	241M1137	-	93.0	92.0	59.2	65.0	11.9	9427.4	2448.5
59	241M1059	-	95.0	97.0	59.3	66.7	11.9	9360.8	2931.9
73	241M1073	-	96.0	81.0	55.7	63.9	12.6	9348.7	2789.6
110	241M1110	-	95.0	96.0	59.1	65.6	10.1	9347.3	2876.7
50	241M1050	-	97.0	84.0	59.1	65.0	12.9	9334.5	2558.5
130	241M1130	-	94.0	80.0	58.7	64.7	8.1	9329.8	2446.0
10	241M1010	-	94.0	93.0	55.2	62.1	16.6	9324.9	2007.2
65	241M1065	-	97.0	85.0	61.5	67.1	12.8	9321.3	2915.8
149	Taurus	-	93.0	81.0	57.0	65.1	2.7	9305.6	2458.2
101	241M1101	-	95.0	89.0	59.5	65.2	5.4	9297.1	2411.5
147	Venus	-	93.0	85.0	59.1	63.7	9.9	9295.9	1739.8
43	241M1043	-	97.0	93.0	58.1	63.9	14.4	9290.8	2459.6
119	241M1119	-	95.0	96.0	57.0	63.3	14.5	9261.0	2990.9
31	241M1031	-	94.0	92.0	56.9	63.8	18.6	9259.7	1775.2
19	241M1019	-	94.0	91.0	54.6	65.4	7.7	9238.4	2176.0
56	241M1056	-	94.0	87.0	57.1	64.4	8.9	9209.8	2099.2
69	241M1069	-	98.0	86.0	58.2	64.9	11.3	9177.3	3380.0
3	241M1003	-	94.0	89.0	55.5	63.7	8.7	9173.7	1907.2
77	241M1077	-	96.0	82.0	58.5	64.9	7.5	9114.9	1312.5
102	241M1102	-	95.0	91.0	59.2	65.5	9.3	9107.9	1712.4
81	241M1081	-	99.0	91.0	61.1	65.8	12.8	9101.6	2103.4
80	241M1080	-	98.0	97.0	58.3	64.2	10.3	9090.6	2275.0
67	241M1067	-	97.0	80.0	56.8	64.6	6.5	9077.4	3071.0
100	241M1100	-	94.0	80.0	59.0	65.1	3.3	9060.1	2071.6
104	241M1104	-	94.0	86.0	59.0	64.9	10.7	9048.6	2641.3
63	241M1063	-	96.0	92.0	57.4	64.2	15.2	9047.4	1673.6
46	241M1046	-	96.0	90.0	59.1	65.0	4.6	9044.8	2158.8
120	241M1120	-	96.0	87.0	61.9	65.6	11.3	9018.3	2064.0
22	241M1022	-	98.0	84.0	55.5	63.5	12.8	8999.3	2189.1
91	241M1091	-	95.0	83.0	60.6	66.3	14.2	8988.0	3232.1
38	241M1038	-	97.0	85.0	63.3	67.4	6.7	8928.0	2530.9
94	241M1094	-	90.0	94.0	60.2	65.8	9.5	8924.6	3021.4
93	241M1093	-	93.0	88.0	58.8	64.0	8.7	8921.5	2478.2
96	241M1096	-	94.0	88.0	58.3	66.1	8.7	8903.5	2439.6
15	241M1015	-	95.0	88.0	55.9	64.2	11.4	8898.9	1328.8
113	241M1113	-	92.0	89.0	57.5	63.9	9.3	8891.8	1841.7
111	241M1111	-	91.0	93.0	57.6	64.7	10.9	8885.7	3066.5
97	241M1097	-	94.0	81.0	54.2	63.9	4.0	8883.8	2834.3
95	241M1095	-	94.0	92.0	57.2	64.2	6.0	8871.4	1721.4
70	241M1070	-	91.0	100.0	55.0	64.2	13.5	8859.4	2587.6
27	241M1027	-	92.0	97.0	56.7	65.0	9.3	8827.5	3344.4
37	241M1037	-	94.0	90.0	54.6	63.6	21.7	8821.4	2300.2
60	241M1060	-	99.0	80.0	60.3	65.7	4.1	8768.3	2138.6

Continued.

Table 5. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
99	241M1099	-	93.0	82.0	57.6	64.2	5.3	8766.7	2271.9
4	241M1004	-	97.0	101.0	40.6	60.5	21.2	8752.8	2264.5
29	241M1029	-	96.0	85.0	58.7	65.2	9.9	8736.9	1784.8
64	241M1064	-	94.0	87.0	51.1	63.3	9.0	8735.8	2484.6
13	241M1013	-	88.0	92.0	54.8	64.0	11.2	8720.0	3030.4
92	241M1092	-	93.0	84.0	57.6	65.3	10.1	8718.0	2172.4
148	Jupiter	-	98.0	83.0	54.3	61.9	12.9	8688.6	2421.6
26	241M1026	-	94.0	94.0	53.8	63.0	10.7	8677.7	1925.0
28	241M1028	-	100.0	80.0	60.6	65.6	8.8	8667.3	1977.6
82	241M1082	-	95.0	100.0	47.4	60.8	20.1	8640.4	2222.8
115	241M1115	-	94.0	100.0	56.2	64.7	12.4	8614.2	2189.7
150	Titan	-	92.0	80.0	60.4	64.5	13.6	8604.2	2340.3
103	241M1103	-	94.0	79.0	59.6	66.0	5.8	8592.5	2213.8
118	241M1118	-	96.0	91.0	55.9	63.1	16.2	8517.2	2771.9
17	241M1017	-	96.0	82.0	57.5	65.3	6.9	8516.3	1896.3
7	241M1007	-	92.0	98.0	52.8	63.5	11.5	8507.3	1975.1
84	241M1084	-	93.0	73.0	53.2	63.0	20.0	8484.7	2565.9
8	241M1008	-	88.0	93.0	49.8	62.2	17.4	8474.9	1642.6
83	241M1083	-	88.0	92.0	51.9	64.3	11.1	8449.1	1868.6
116	241M1116	-	90.0	86.0	58.7	65.1	4.6	8404.5	2470.6
78	241M1078	-	97.0	81.0	60.0	67.1	11.5	8399.0	2669.3
62	241M1062	-	95.0	100.0	56.0	63.4	9.0	8343.1	2389.7
112	241M1112	-	96.0	82.0	55.7	64.7	12.9	8327.8	2084.1
109	241M1109	-	95.0	90.0	57.3	66.7	7.4	8326.7	2030.7
114	241M1114	-	93.0	89.0	56.8	63.7	7.2	8282.1	2502.9
107	241M1107	-	93.0	85.0	60.0	66.2	8.7	8266.6	2899.1
61	241M1061	-	94.0	95.0	60.0	66.2	8.6	8240.5	2158.9
98	241M1098	-	94.0	70.0	57.7	65.9	5.6	8028.5	2803.7
117	241M1117	-	91.0	93.0	59.3	64.6	9.4	8022.3	2507.2
75	241M1075	-	93.0	88.0	59.4	65.9	3.6	7964.5	2772.9
23	241M1023	-	93.0	96.0	58.8	65.3	4.1	7814.2	2338.7
106	241M1106	-	92.0	86.0	55.1	65.0	5.8	7785.8	1902.2
144	241M1144	-	92.0	78.0	33.1	63.7	19.9	7775.8	1472.3
11	241M1011	-	93.0	82.0	52.4	61.3	14.0	7759.0	1746.9
140	241M1140	-	92.0	82.0	49.5	66.4	23.4	7655.9	2457.1
79	241M1079	-	101.0	85.0	60.2	65.3	14.0	7618.9	2005.1
14	241M1014	-	88.0	91.0	52.4	61.4	8.1	7600.0	1717.9
1	241M1001	-	90.0	83.0	56.0	65.8	7.7	7543.4	2649.0
2	241M1002	-	89.0	82.0	57.6	66.2	4.6	7410.5	2561.7
139	241M1139	-	93.0	88.0	38.5	64.4	24.4	6904.0	2643.8
74	241M1074	-	89.0	87.0	49.3	62.9	2.9	6888.0	2876.7
141	241M1141	-	94.0	76.0	22.5	58.3	22.6	6835.8	2057.4
138	241M1138	-	88.0	84.0	34.7	61.7	21.2	6805.4	2186.1
145	241M1145	-	90.0	96.0	34.2	62.7	15.1	6777.4	2036.5
9	241M1009	-	93.0	88.0	53.7	64.0	4.6	6731.3	1926.6
143	241M1143	-	94.0	85.0	26.9	59.3	26.4	6690.0	1879.2
24	241M1024	-	89.0	85.0	55.5	62.3	8.0	6461.6	1358.3
146	241M1146	-	94.0	96.0	43.6	62.5	25.7	6433.1	2237.0
142	241M1142	-	93.0	86.0	25.9	59.6	25.0	6035.3	1649.4

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 6. Grain and milling yields and agronomic performance of entries in the 2024 Conventional Preliminary Yield Medium-Grain trial – Late Planting, H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
128	241M1128	-	75.0	107.0	58.2	66.7	9.1	11876.2	6061.3
88	241M1088	-	71.0	115.0	44.2	66.0	8.2	11747.6	3473.0
72	241M1072	-	72.0	102.0	54.9	66.8	7.1	11452.1	5383.6
132	241M1132	-	72.0	103.0	59.1	68.3	8.9	10992.9	5630.7
135	241M1135	-	73.0	108.0	53.5	69.4	5.3	10973.1	4917.3
53	241M1053	-	76.0	106.0	60.2	67.7	7.2	10965.3	3923.8
137	241M1137	-	72.0	103.0	51.6	66.9	7.0	10960.8	4285.7
131	241M1131	-	73.0	115.0	48.7	66.5	5.1	10845.3	5107.0
41	241M1041	-	74.0	109.0	57.9	67.1	9.0	10825.2	4364.0
71	241M1071	-	74.0	101.0	46.0	66.7	7.8	10743.4	3440.0
97	241M1097	-	71.0	98.0	41.1	67.7	2.9	10703.8	4513.8
94	241M1094	-	70.0	109.0	40.8	65.1	6.0	10599.3	5219.5
42	241M1042	-	76.0	104.0	53.6	68.7	5.3	10537.7	6237.1
30	241M1030	-	76.0	111.0	41.6	64.2	8.0	10513.0	5666.0
147	Venus	-	73.0	99.0	36.8	64.6	6.9	10495.1	6080.0
40	241M1040	-	79.0	108.0	56.9	67.9	12.0	10446.9	6024.6
36	241M1036	-	73.0	109.0	42.9	66.3	7.2	10429.5	6118.4
5	241M1005	-	73.0	118.0	38.4	62.3	15.9	10429.0	4844.3
121	241M1121	-	75.0	104.0	53.7	66.3	7.2	10411.2	4335.6
149	Taurus	-	72.0	93.0	52.9	67.8	5.2	10396.3	4549.8
133	241M1133	-	75.0	112.0	56.3	68.9	3.0	10391.2	4078.1
117	241M1117	-	70.0	107.0	49.1	65.2	4.7	10301.5	5251.0
34	241M1034	-	77.0	106.0	37.7	60.0	5.9	10250.0	5931.2
44	241M1044	-	76.0	103.0	51.4	65.0	7.5	10228.9	4520.7
126	241M1126	-	78.0	114.0	55.3	65.5	8.6	10226.1	4984.1
111	241M1111	-	71.0	101.0	42.1	66.2	7.8	10223.3	5037.9
116	241M1116	-	71.0	103.0	29.5	67.2	9.0	10219.8	5048.3
57	241M1057	-	76.0	110.0	63.1	69.8	8.8	10211.5	5600.7
7	241M1007	-	72.0	111.0	44.4	65.3	9.9	10190.7	4356.7
75	241M1075	-	73.0	106.0	33.2	67.0	3.1	10129.8	5244.7
136	241M1136	-	72.0	115.0	57.4	67.7	4.7	10108.2	4769.6
93	241M1093	-	71.0	108.0	31.6	64.8	5.5	10096.7	5200.0
122	241M1122	-	79.0	111.0	65.0	71.2	6.3	10085.1	5411.2
35	241M1035	-	74.0	115.0	47.7	65.6	7.0	10065.9	4989.4
86	241M1086	-	73.0	99.0	42.8	66.8	8.1	10059.1	4867.0
129	241M1129	-	72.0	110.0	39.9	65.1	8.6	10053.8	5821.4
49	241M1049	-	71.0	99.0	44.3	63.0	12.7	10044.8	4639.6
23	241M1023	-	71.0	115.0	60.0	68.6	9.8	10038.5	5623.9
26	241M1026	-	74.0	108.0	50.4	67.0	10.2	10035.7	5037.2
31	241M1031	-	74.0	103.0	39.1	65.6	8.6	10031.6	4596.3
148	Jupiter	-	77.0	99.0	63.2	69.6	9.2	10022.1	4964.2
70	241M1070	-	73.0	110.0	36.9	66.2	10.7	10015.9	5062.8
46	241M1046	-	77.0	102.0	40.2	67.2	4.4	9972.4	4318.9
84	241M1084	-	73.0	98.0	44.5	65.1	14.7	9969.7	4751.1
150	Titan	-	70.0	102.0	42.7	64.8	6.1	9966.6	4633.6
102	241M1102	-	76.0	96.0	42.3	67.1	4.2	9943.9	5581.0
134	241M1134	-	75.0	108.0	55.2	66.8	5.6	9923.4	4309.8
54	241M1054	-	76.0	98.0	57.2	67.1	8.1	9885.6	4039.8
119	241M1119	-	76.0	95.0	53.6	68.7	7.3	9867.3	4073.6
83	241M1083	-	69.0	105.0	33.4	65.1	12.4	9862.8	3191.7

Continued.

Table 6. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
20	241M1020	-	72.0	93.0	49.9	67.4	11.5	9858.5	4905.5
47	241M1047	-	76.0	102.0	51.9	67.8	6.9	9854.6	4951.0
108	241M1108	-	73.0	93.0	38.2	66.6	6.5	9843.1	4910.2
110	241M1110	-	77.0	105.0	51.2	68.5	10.4	9825.7	5505.0
45	241M1045	-	75.0	100.0	41.8	67.8	8.8	9825.3	5069.7
76	241M1076	-	77.0	96.0	56.7	67.4	3.7	9801.8	5256.9
74	241M1074	-	70.0	98.0	19.1	64.1	2.9	9769.7	4518.5
69	241M1069	-	78.0	103.0	50.4	68.6	10.4	9741.1	5868.8
21	241M1021	-	73.0	100.0	45.4	67.9	7.1	9721.9	5100.4
65	241M1065	-	77.0	99.0	63.8	70.7	8.2	9684.5	5679.9
85	241M1085	-	70.0	110.0	30.6	64.2	5.8	9645.6	4641.3
109	241M1109	-	75.0	98.0	30.7	66.2	7.8	9626.2	4941.4
13	241M1013	-	68.0	123.0	45.0	66.3	10.8	9582.9	5519.3
43	241M1043	-	77.0	106.0	57.2	68.6	11.9	9575.4	5288.4
123	241M1123	-	72.0	118.0	48.0	66.9	3.9	9539.8	4768.3
99	241M1099	-	74.0	98.0	49.2	67.6	5.1	9537.2	4832.3
115	241M1115	-	72.0	97.0	32.3	66.0	4.9	9507.3	5541.7
104	241M1104	-	76.0	105.0	55.8	68.6	10.4	9489.0	4742.2
130	241M1130	-	74.0	88.0	43.4	64.8	4.4	9465.1	3039.4
52	241M1052	-	75.0	104.0	56.7	69.9	8.0	9456.6	4510.8
96	241M1096	-	73.0	103.0	31.4	65.9	6.7	9415.6	5476.4
92	241M1092	-	73.0	103.0	37.7	65.9	3.3	9406.2	4382.1
105	241M1105	-	76.0	99.0	58.6	67.6	10.9	9395.5	5436.2
59	241M1059	-	75.0	105.0	61.2	68.7	5.3	9376.3	4506.4
100	241M1100	-	75.0	97.0	53.8	68.7	4.6	9371.1	4899.2
51	241M1051	-	77.0	103.0	66.1	70.4	15.9	9369.8	5376.6
127	241M1127	-	78.0	105.0	57.0	66.1	6.8	9369.4	4873.1
66	241M1066	-	76.0	101.0	57.8	68.1	9.9	9351.6	4322.8
11	241M1011	-	71.0	101.0	44.2	64.5	11.7	9333.0	3944.8
114	241M1114	-	72.0	100.0	49.2	66.7	6.8	9328.2	5282.6
56	241M1056	-	73.0	114.0	42.0	65.8	6.2	9325.7	5307.7
8	241M1008	-	71.0	105.0	23.9	62.2	13.0	9289.5	4566.8
68	241M1068	-	77.0	93.0	59.0	69.9	8.3	9284.6	3852.0
79	241M1079	-	79.0	92.0	59.0	68.1	10.2	9230.9	5537.2
113	241M1113	-	72.0	102.0	57.3	67.9	8.0	9228.3	5356.1
64	241M1064	-	75.0	104.0	26.6	65.5	7.5	9189.8	5680.6
89	241M1089	-	77.0	98.0	25.2	61.8	2.7	9186.7	5162.6
67	241M1067	-	75.0	101.0	57.4	68.3	7.3	9170.1	5242.8
125	241M1125	-	68.0	110.0	50.4	66.6	4.4	9140.6	6194.9
103	241M1103	-	74.0	93.0	40.9	68.5	4.6	9123.8	5041.3
18	241M1018	-	73.0	104.0	49.0	66.8	3.5	9106.1	4875.6
32	241M1032	-	74.0	119.0	57.3	68.1	6.3	9104.2	5381.0
80	241M1080	-	80.0	103.0	61.7	70.0	7.2	9088.6	5181.3
95	241M1095	-	73.0	108.0	39.1	67.1	6.9	9059.4	5912.9
48	241M1048	-	76.0	107.0	52.6	67.8	6.3	9012.2	5263.1
73	241M1073	-	77.0	95.0	49.3	63.7	8.6	8992.5	4821.2
19	241M1019	-	75.0	110.0	38.6	67.9	9.8	8988.6	4408.8
17	241M1017	-	74.0	97.0	53.0	68.4	5.4	8987.2	5188.0
91	241M1091	-	73.0	102.0	45.4	65.0	14.8	8978.4	5471.9
1	241M1001	-	68.0	119.0	43.1	67.3	8.7	8974.1	5098.9
50	241M1050	-	77.0	102.0	52.4	68.8	7.2	8948.5	3902.1

Continued.

Table 6. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
9	241M1009	-	71.0	107.0	44.2	64.8	7.0	8937.0	4108.7
63	241M1063	-	77.0	108.0	45.7	66.8	8.2	8933.1	4986.3
118	241M1118	-	77.0	107.0	56.7	66.5	12.9	8882.4	5306.7
98	241M1098	-	74.0	94.0	46.2	67.5	4.8	8863.9	5023.8
55	241M1055	-	76.0	113.0	24.8	63.9	7.0	8824.4	5004.9
87	241M1087	-	74.0	107.0	38.1	66.0	8.4	8811.1	4388.4
101	241M1101	-	75.0	103.0	47.1	68.4	8.9	8806.0	5090.2
61	241M1061	-	76.0	110.0	49.4	66.2	6.5	8804.6	4495.5
58	241M1058	-	77.0	98.0	54.8	68.6	6.4	8773.4	5625.0
25	241M1025	-	71.0	98.0	38.9	62.0	17.5	8722.2	3458.7
107	241M1107	-	73.0	94.0	53.7	68.3	5.1	8689.2	5288.8
16	241M1016	-	76.0	108.0	56.7	68.2	10.9	8682.0	4901.4
124	241M1124	-	74.0	108.0	52.4	67.6	6.2	8654.8	5983.7
120	241M1120	-	78.0	102.0	59.0	68.2	7.3	8622.1	1679.1
77	241M1077	-	77.0	95.0	60.9	73.6	13.2	8582.0	4682.6
29	241M1029	-	76.0	87.0	53.5	67.5	6.8	8526.3	3820.1
90	241M1090	-	73.0	108.0	49.9	67.9	6.6	8483.7	4756.3
62	241M1062	-	76.0	105.0	41.5	66.4	7.4	8428.1	5831.0
38	241M1038	-	77.0	100.0	56.7	67.9	8.8	8379.3	5464.8
106	241M1106	-	71.0	108.0	57.3	70.1	12.0	8340.7	5017.2
112	241M1112	-	74.0	92.0	39.5	67.5	8.0	8330.2	3522.8
27	241M1027	-	71.0	105.0	42.3	66.5	6.7	8303.9	5244.9
33	241M1033	-	74.0	108.0	55.1	67.2	5.1	8291.5	5102.2
37	241M1037	-	76.0	103.0	48.0	66.2	10.4	8268.6	4779.0
4	241M1004	-	76.0	102.0	49.4	65.9	17.4	8268.2	3350.4
39	241M1039	-	74.0	106.0	59.8	69.3	10.9	8265.8	3603.8
3	241M1003	-	73.0	85.0	33.2	66.3	7.7	8246.8	3247.2
81	241M1081	-	78.0	93.0	50.6	69.2	5.7	8195.3	4512.3
10	241M1010	-	72.0	107.0	40.1	62.2	13.2	8129.4	3651.8
22	241M1022	-	78.0	102.0	44.5	65.2	4.9	8089.7	4065.2
15	241M1015	-	74.0	102.0	42.8	64.8	7.3	7915.5	3689.6
60	241M1060	-	79.0	100.0	57.7	69.1	7.6	7907.4	5560.0
144	241M1144	-	68.0	90.0	47.2	67.4	16.7	7906.7	3510.3
82	241M1082	-	77.0	125.0	55.3	67.5	8.0	7844.8	4505.0
28	241M1028	-	79.0	100.0	58.8	68.1	7.5	7809.0	5154.1
78	241M1078	-	77.0	101.0	48.0	67.8	4.8	7733.3	5428.8
139	241M1139	-	72.0	95.0	45.4	66.9	27.0	7537.3	4360.4
14	241M1014	-	64.0	98.0	49.9	65.7	13.2	7373.5	2936.0
6	241M1006	-	76.0	100.0	46.2	63.9	12.6	7295.7	3657.9
140	241M1140	-	70.0	94.0	34.3	66.4	15.8	7246.8	3925.5
12	241M1012	-	74.0	107.0	56.0	67.2	6.5	7009.3	4646.1
145	241M1145	-	69.0	90.0	40.6	66.6	17.5	6931.2	4765.6
138	241M1138	-	67.0	92.0	45.2	66.4	21.0	6921.7	3918.9
24	241M1024	-	70.0	87.0	44.4	63.9	8.2	6693.0	3026.2
141	241M1141	-	73.0	100.0	32.4	64.1	-	6622.8	4055.6
142	241M1142	-	72.0	100.0	36.5	65.4	26.5	6589.7	4127.6
143	241M1143	-	71.0	100.0	36.6	64.5	22.4	6583.0	3601.8
2	241M1002	-	66.0	91.0	42.7	66.5	11.0	6570.2	3648.6
146	241M1146	-	72.0	108.0	44.8	65.8	20.0	6497.6	3936.7

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

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 in order of descending yield (lb/A).

Table 1. Planting and harvesting dates for the 2024 Clearfield Preliminary Yield trials.

Location	Trial	Planting	Harvesting
HRCRRS	CLPYL	2/26	7/29
	CLPYL – Late Planting	4/2	8/2
	CLPYM	2/26	7/29
	CLPYM – Late Planting	4/3	8/6

Table 2. Entry number, pedigree, grain type, and source information for entries in the 2024 Clearfield Preliminary Yield trials.

Herbicide Type*	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CL	1	242L1001	CLL19/RU2002122	HI	LAES
CL	2	242L1002	CLL19/RU2002122	HI	LAES
CL	3	242L1003	CLL19/RU2002122	HI	LAES
CL	4	242L1004	CLL19/RU2002122	HI	LAES
CL	5	242L1005	CL151/19-53006	HI	LAES
CL	6	242L1006	CL151/19-53006	HI	LAES
CL	7	242L1007	CL151/19-53006	HI	LAES
CL	8	242L1008	CL151/19-53006	HI	LAES
CL	9	242L1009	CLL17/Diamond	LG	LAES
CL	10	242L1010	CLL17/Diamond	LG	LAES
CL	11	242L1011	CLL17/Diamond	LG	LAES
CL	12	242L1012	CLL17/Diamond	LG	LAES
CL	13	242L1013	Catahoula/19-53006	HI	LAES
CL	14	242L1014	Catahoula/19-53006	HI	LAES
CL	15	242L1015	Catahoula/19-53006	HI	LAES
CL	16	242L1016	Catahoula/19-53006	HI	LAES
CL	17	242L1017	Catahoula/19-53006	HI	LAES
CL	18	242L1018	Catahoula/19-53006	HI	LAES
CL	19	242L1019	Catahoula/19-53006	HI	LAES
CL	20	242L1020	RU1902162/AddiJo	HI	LAES
CL	21	242L1021	RU1902162/AddiJo	HI	LAES
CL	22	242L1022	RU1902162/AddiJo	HI	LAES
CL	23	242L1023	CL153/AddiJo	HI	LAES
CL	24	242L1024	CL153/AddiJo	HI	LAES
CL	25	242L1025	CL153/AddiJo	HI	LAES
CL	26	242L1026	CL153/AddiJo	HI	LAES
CL	27	242L1027	RU2002122/RU1602195	HI	LAES
CL	28	242L1028	RU2002122/RU1602195	HI	LAES
CL	29	242L1029	RU2002122/RU1602195	HI	LAES
CL	30	242L1030	RU2002122/RU1602195	HI	LAES
CL	31	242L1031	RU2002122/RU1602195	HI	LAES
CL	32	242L1032	201L1159/RU2102158	HI	LAES
CL	33	242L1033	201L1159/RU2102158	HI	LAES
CL	34	242L1034	201L1159/RU2102158	HI	LAES
CL	35	242L1035	201L1159/RU2102158	HI	LAES
CL	36	242L1036	201L1159/RU2102158	HI	LAES
CL	37	242L1037	201L1159/RU2102158	HI	LAES
CL	38	242L1038	20DGL2131/RU2102217	HI	LAES
CL	39	242L1039	20DGL2131/RU2102217	HI	LAES
CL	40	242L1040	20DGL2131/RU2102217	HI	LAES
CL	41	242L1041	20DGL2131/RU2102217	HI	LAES
CL	42	242L1042	20DGL2131/RU2102217	HI	LAES
CL	43	242L1043	192L2050/BBC03-2	LG	LAES
CL	44	242L1044	192L2050/BBC03-2	LG	LAES
CL	45	242L1045	192L2050/BBC03-2	LG	LAES
CL	46	242L1046	192L2050/BBC03-2	LG	LAES
CL	47	242L1047	192L2050/BBC03-2	LG	LAES
CL	48	242L1048	192L2050/BBC03-2	LG	LAES
CL	49	242L1049	192L2050/BBC03-2	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CL	50	242L1050	192L2050/BBC03-2	LG	LAES
CL	51	242L1051	BBC02-1/CLL19	LG	LAES
CL	52	242L1052	192L1544/BBC10-2	LG	LAES
CL	53	242L1053	192L1544/BBC10-2	LG	LAES
CL	54	242L1054	192L1544/BBC10-2	LG	LAES
CL	55	242L1055	192L1544/BBC10-2	LG	LAES
CL	56	242L1056	192L1544/BBC10-2	LG	LAES
CL	57	242L1057	Mermentau/BBC08-1	LG	LAES
CL	58	242L1058	RU1902162/CL111	LG	LAES
CL	59	242L1059	RU1902162/CL111	LG	LAES
CL	60	242L1060	RU1902162/CL111	LG	LAES
CL	61	242L1061	RU1902162/182L2166	LG	LAES
CL	62	242L1062	RU1801169/182L2166	LG	LAES
CL	63	242L1063	RU1801169/182L2166	LG	LAES
CL	64	242L1064	RU1902142/CL111	LG	LAES
CL	65	242L1065	RU1902142/CL111	LG	LAES
CL	66	242L1066	RU1902142/182L2166	LG	LAES
CL	67	242L1067	RU1902142/182L2166	LG	LAES
CL	68	242L1068	RU2002114/CL111	LG	LAES
CL	69	242L1069	182L2195/RU1602195	LG	LAES
CL	70	242L1070	182L2195/RU1602195	LG	LAES
CL	71	242L1071	CL151/182L1278	LG	LAES
CL	72	242L1072	CL151/182L1278	LG	LAES
CL	73	242L1073	RU1902122/CL111	LG	LAES
CL	74	242L1074	RU1902014/CL111	LG	LAES
CL	75	242L1075	RU1602195/CL151	LG	LAES
CL	76	242L1076	RU1902014/CL153	LG	LAES
CL	77	242L1077	182L2166/RU1902014	LG	LAES
CL	78	242L1078	182L2166/RU1902014	LG	LAES
CL	79	242L1079	RU1602195/RU2002114	LG	LAES
CL	80	242L1080	RU1602195/RU2002114	LG	LAES
CL	81	242L1081	CL151/RU2002114	LG	LAES
CL	82	242L1082	RU1801169/RU1902126	LG	LAES
CL	83	242L1083	RU1602195/RU1902186	LG	LAES
CL	84	242L1084	RU1602195/RU1902186	LG	LAES
CL	85	242L1085	RU1602195/RU1902186	LG	LAES
CL	86	242L1086	RU1902126/RU1702140	LG	LAES
CL	87	242L1087	RoyJ/182L2195	LG	LAES
CL	88	242L1088	RoyJ/182L2195	LG	LAES
CL	89	242L1089	Diamond/RU1902162	LG	LAES
CL	90	242L1090	Diamond/RU1902162	LG	LAES
CL	91	242L1091	RU1902186/182L2195	LG	LAES
CL	92	242L1092	RU2002114/Cheniere	LG	LAES
CL	93	242L1093	RU2002114/Cheniere	LG	LAES
CL	94	242L1094	RU1702183/RU1902162	LG	LAES
CL	95	242L1095	RU1702183/RU1902162	LG	LAES
CL	96	242L1096	RU1702183/RU1902162	LG	LAES
CL	97	242L1097	RU1702183/RU1902162	LG	LAES
CL	98	242L1098	RU1801221/CLL19	LG	LAES
CL	99	242L1099	RU1801221/CLL19	LG	LAES
CL	100	242L1100	RU1801221/CLL19	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CL	101	242L1101	RU1801221/CLL19	LG	LAES
CL	102	242L1102	RU1801221/CLL19	LG	LAES
CL	103	242L1103	CL111/RU1801101	LG	LAES
CL	104	242L1104	CL111/RU1801101	LG	LAES
CL	105	242L1105	CL111/RU1801101	LG	LAES
CL	106	242L1106	RU1702183/CL111	LG	LAES
CL	107	242L1107	RU1702183/CL111	LG	LAES
CL	108	242L1108	CLL19/RU1902142	LG	LAES
CL	109	242L1109	CLL19/RU1902142	LG	LAES
CL	110	242L1110	192L1072/RU1902142	LG	LAES
CL	111	242L1111	192L1072/RU1902142	LG	LAES
CL	112	242L1112	RU1602195/RU1902162	LG	LAES
CL	113	242L1113	RU1602195/RU1902162	LG	LAES
CL	114	242L1114	RU1801101/RU1902034	LG	LAES
CL	115	242L1115	RU1801101/RU1902034	LG	LAES
CL	116	242L1116	RU1801101/RU1902034	LG	LAES
CL	117	242L1117	RU1902142/RU1902034	LG	LAES
CL	118	242L1118	RU1902142/RU1902034	LG	LAES
CL	119	242L1119	CL153/RU1901121	LG	LAES
CL	120	242L1120	CL153/RU1901121	LG	LAES
CL	121	242L1121	CL153/RU1901121	LG	LAES
CL	122	242L1122	CL153/RU1901121	LG	LAES
CL	123	242L1123	CL153/RU1702183	LG	LAES
CL	124	242L1124	CL153/RU1702183	LG	LAES
CL	125	242L1125	CL153/RU1702183	LG	LAES
CL	126	242L1126	CL153/RU1702183	LG	LAES
CL	127	242L1127	CL153/RU1702183	LG	LAES
CL	128	242L1128	RU1602195/RU1902034	LG	LAES
CL	129	242L1129	RU1602195/RU1902034	LG	LAES
CL	130	242L1130	RU1602195/RU1902034	LG	LAES
CL	131	242L1131	RU1602195/RU1902034	LG	LAES
CL	132	242L1132	CL153/RU1902162	LG	LAES
CL	133	242L1133	CL153/RU1902162	LG	LAES
CL	134	242L1134	CLL16/RU1702183	LG	LAES
CL	135	242L1135	CLL16/RU1702183	LG	LAES
CL	136	242L1136	CLL16/RU1702183	LG	LAES
CL	137	242L1137	CLL16/RU1702183	LG	LAES
CL	138	242L1138	CLL16/RU1702183	LG	LAES
CL	139	242L1139	CLL16/RU1702183	LG	LAES
CL	140	242L1140	CLL16/RU1702183	LG	LAES
CL	141	242L1141	CLL16/RU1702183	LG	LAES
CL	142	242L1142	RU1801221/192L1072	LG	LAES
CL	143	242L1143	RU1801221/192L1072	LG	LAES
CL	144	242L1144	RU1801221/192L1072	LG	LAES
CL	145	242L1145	RU1902162/CLL16	LG	LAES
CL	146	242L1146	RU1902162/CLL16	LG	LAES
CL	147	242L1147	RU1902162/CLL16	LG	LAES
CL	148	242L1148	RU1902034/CLL16	LG	LAES
CL	149	242L1149	RU1902034/CLL16	LG	LAES
CL	150	242L1150	RU1702183/RU1901121	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CL	151	242L1151	RU1702183/RU1901121	LG	LAES
CL	152	242L1152	CL153/RU2002114	LG	LAES
CL	153	242L1153	CL153/RU2002114	LG	LAES
CL	154	242L1154	RU1902126/CLL19	LG	LAES
CL	155	242L1155	RU1902126/CLL19	LG	LAES
CL	156	242L1156	RU1902126/CLL19	LG	LAES
CL	157	242L1157	RU1902126/CLL16	LG	LAES
CL	158	242L1158	RU1902126/CLL16	LG	LAES
CL	159	242L1159	RU1902126/CLL16	LG	LAES
CL	160	242L1160	RU1902126/CLL16	LG	LAES
CL	161	242L1161	RU1902126/CLL16	LG	LAES
CL	162	242L1162	RU1902126/CLL16	LG	LAES
CL	163	242L1163	CLL16/CLL19	LG	LAES
CL	164	242L1164	CLL16/CLL19	LG	LAES
CL	165	242L1165	CLL16/CLL19	LG	LAES
CL	166	242L1166	CLL16/CLL19	LG	LAES
CL	167	242L1167	CLL17/RU2002114	LG	LAES
CL	168	242L1168	CLL17/RU2002114	LG	LAES
CL	169	242L1169	CLL17/RU2002114	LG	LAES
CL	170	242L1170	RU1702183/Avant	LG	LAES
CL	171	242L1171	RU1702183/Avant	LG	LAES
CL	172	242L1172	Avant/RU1902162	LG	LAES
CL	173	242L1173	RU2002150/CLL19	LG	LAES
CL	174	242L1174	RU2002150/CLL19	LG	LAES
CL	175	242L1175	RU1902034/RU2002222	LG	LAES
CL	176	242L1176	RU1902034/RU2002222	LG	LAES
CL	177	242L1177	Cheniere/RU1801221	LG	LAES
CL	178	242L1178	Cheniere/RU1801221	LG	LAES
CL	179	242L1179	Cheniere/RU1801221	LG	LAES
CL	180	242L1180	RU1902034/RU2002146	LG	LAES
CL	181	242L1181	RU1902207/RU1702183	LG	LAES
CL	182	242L1182	RU1902207/RU1702183	LG	LAES
CL	183	242L1183	RU1902207/RU1702183	LG	LAES
CL	184	242L1184	RU1902207/RU1702183	LG	LAES
CL	185	242L1185	RU1902207/RU1702183	LG	LAES
CL	186	242L1186	RU1902207/RU1702183	LG	LAES
CL	187	242L1187	192L1072/Avant	LG	LAES
CL	188	242L1188	RU2002146/CL111	LG	LAES
CL	189	242L1189	RU2002146/CL111	LG	LAES
CL	190	242L1190	RU2002186/RU1902034	LG	LAES
CL	191	242L1191	RU2002186/RU1902034	LG	LAES
CL	192	242L1192	RU2002186/RU1902034	LG	LAES
CL	193	242L1193	RU2002186/RU1902034	LG	LAES
CL	194	242L1194	RU2002186/RU1902034	LG	LAES
CL	195	242L1195	RU2002190/RU1602195	LG	LAES
CL	196	242L1196	RU2002190/RU1602195	LG	LAES
CL	197	242L1197	RU2002190/RU1602195	LG	LAES
CL	198	242L1198	RU2002190/RU1602195	LG	LAES
CL	199	242L1199	RU2002190/RU1602195	LG	LAES
CL	200	242L1200	Cheniere/RU2002114	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CL	201	242L1201	Cheniere/RU2002114	LG	LAES
CL	202	242L1202	Cheniere/RU2002114	LG	LAES
CL	203	242L1203	Mermentau/RU1801101	LG	LAES
CL	204	242L1204	RU1902034/RU1702140	LG	LAES
CL	205	242L1205	RU1902207/RU1602195	LG	LAES
CL	206	242L1206	RU1901121/RU1902162	LG	LAES
CL	207	242L1207	RU1901121/RU1902162	LG	LAES
CL	208	242L1208	RU1901121/RU1902162	LG	LAES
CL	209	242L1209	RU2102217/201L1114	HI	LAES
CL	210	242L1210	RU2102217/201L1114	HI	LAES
CL	211	242L1211	RU2102217/201L1114	HI	LAES
CL	212	242L1212	RU2102217/201L1114	HI	LAES
CL	213	242L1213	RU2102217/201L1114	HI	LAES
CL	214	242L1214	RU2102217/201L1114	HI	LAES
CL	215	242L1215	Cheniere/RU1702183	HI	LAES
CL	216	242L1216	Cheniere/RU1702183	HI	LAES
CL	217	242L1217	Cheniere/RU1702183	HI	LAES
CL	218	242L1218	Cheniere/RU1702183	HI	LAES
CL	219	242L1219	Cheniere/RU1702183	HI	LAES
CL	220	242L1220	Cheniere/RU1702183	HI	LAES
CL	221	242L1221	Cheniere/RU1702183	HI	LAES
CL	222	242L1222	Cheniere/RU1702183	HI	LAES
CL	223	242L1223	Cheniere/RU1702183	HI	LAES
CL	224	242L1224	202L1292/RU2002182	LG	LAES
CL	225	242L1225	RU2002150/RU2002134	LG	LAES
CL	226	242L1226	RU2002150/RU2002134	LG	LAES
CL	227	242L1227	RU2002150/RU2002134	LG	LAES
CL	228	242L1228	RU2102217/191L2066	LG	LAES
CL	229	242L1229	RU2102217/191L2066	LG	LAES
CL	230	242L1230	RU2102217/191L2066	LG	LAES
CL	231	242L1231	RU2002182/CL153	LG	LAES
CL	232	242L1232	RU2002182/CL153	LG	LAES
CL	233	242L1233	RU2002182/CL153	LG	LAES
CL	234	242L1234	RU2002182/CL153	LG	LAES
CL	235	242L1235	RU2002182/CL153	LG	LAES
CL	236	242L1236	RU2002150/192L2050	LG	LAES
CL	237	242L1237	RU2002150/192L2050	LG	LAES
CL	238	242L1238	201L1159/CLL19	LG	LAES
CL	239	242L1239	201L1159/CLL19	LG	LAES
CL	240	242L1240	201L1159/CLL19	LG	LAES
CL	241	242L1241	201L1159/CLL19	LG	LAES
CL	242	242L1242	201L1159/CLL19	LG	LAES
CL	243	242L1243	RU2002182/CLL15	LG	LAES
CL	244	242L1244	RU2002182/CLL15	LG	LAES
CL	245	242L1245	RU2002182/CLL15	LG	LAES
CL	246	242L1246	RU2002182/CLL15	LG	LAES
CL	247	242L1247	RU1902207/RU2102217	LG	LAES
CL	248	242L1248	RU1902207/RU2102217	LG	LAES
CL	249	242L1249	RU1902207/RU2102217	LG	LAES
CL	250	242L1250	RU1902207/RU2102217	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CL	251	242L1251	RU1902207/RU2102217	LG	LAES
CL	252	242L1252	RU1902207/RU2102217	LG	LAES
CL	253	242L1253	191L2066/192L1072	LG	LAES
CL	254	242L1254	191L2066/192L1072	LG	LAES
CL	255	242L1255	191L2066/192L1072	LG	LAES
CL	256	242L1256	RU2102030/192L2050	HI	LAES
CL	257	242L1257	RU2102030/192L2050	HI	LAES
CL	258	242L1258	RU2102030/192L1544	HI	LAES
CL	259	242L1259	RU2102030/192L1544	HI	LAES
CL	260	242L1260	RU2102030/192L1544	HI	LAES
CL	261	242L1261	RU2102030/RU1702183	HI	LAES
CL	262	242L1262	RU2102030/RU1702183	HI	LAES
CL	263	242L1263	RU2102030/RU1702183	HI	LAES
CL	264	242L1264	RU2102030/RU1702183	HI	LAES
CL	265	242L1265	RU2102030/RU2102217	HI	LAES
CL	266	242L1266	RU2102030/RU2102217	HI	LAES
CL	267	242L1267	RU2102030/RU2102217	HI	LAES
CL	268	242L1268	RU2102030/RU2102217	HI	LAES
CL	269	242L1269	RU2102030/RU2102217	HI	LAES
CL	270	242L1270	CLL19/RU2102030	HI	LAES
CL	271	242L1271	CLL19/RU2102030	HI	LAES
CL	272	242L1272	CLL15/RU2102030	HI	LAES
CL	273	242L1273	CLL15/RU2102030	HI	LAES
CL	274	242L1274	CLL19/192L1544	LG	LAES
CL	275	242L1275	CLL19/192L1544	LG	LAES
CL	276	242L1276	CLL19/192L1544	LG	LAES
CL	277	242L1277	192L1544/RU2102217	LG	LAES
CL	278	242L1278	192L1544/RU2102217	LG	LAES
CL	279	242L1279	192L1544/RU2102217	LG	LAES
CL	280	242L1280	192L1544/RU2102217	LG	LAES
CL	281	242L1281	192L1544/RU2102217	LG	LAES
CL	282	242L1282	CLL15/RU2102217	LG	LAES
CL	283	242L1283	CLL15/RU2102217	LG	LAES
CL	284	242L1284	CLL15/RU2102217	LG	LAES
CL	285	242L1285	CLL15/RU2102217	LG	LAES
CL	286	242L1286	CLL15/RU2102217	LG	LAES
CL	287	242L1287	CLL15/RU2102217	LG	LAES
CL	288	242L1288	CLL15/RU2102217	LG	LAES
CL	289	242L1289	RU2002134/RU2102217	LG	LAES
CL	290	242L1290	RU2002134/RU2102217	LG	LAES
CL	291	242L1291	RU2002134/RU2102217	LG	LAES
CL	292	242L1292	RU2002134/RU2102217	LG	LAES
CL	293	242L1293	RU2002134/RU2102217	LG	LAES
CL	294	242L1294	RU2002134/RU2102217	LG	LAES
CL	295	242L1295	CL153/RU1702183	LG	LAES
CL	296	242L1296	CL153/RU1702183	LG	LAES
CL	297	242L1297	CL153/RU1702183	LG	LAES
CL	298	242L1298	CL153/RU1702183	LG	LAES
CL	299	242L1299	CL153/RU1702183	LG	LAES
CL	300	242L1300	CL153/RU1702183	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CL	301	242L1301	CLL19/RU1702183	LG	LAES
CL	302	242L1302	CLL19/RU1702183	LG	LAES
CL	303	242L1303	CLL19/RU1702183	LG	LAES
CL	304	242L1304	CLL19/RU1702183	LG	LAES
CL	305	242L1305	CLL19/RU1702183	LG	LAES
CL	306	242L1306	CLL19/RU1702183	LG	LAES
CL	307	242L1307	CLL19/RU1702183	LG	LAES
CL	308	242L1308	CLL19/RU1702183	LG	LAES
CL	309	242L1309	RU2102217/CL153	LG	LAES
CL	310	242L1310	RU2102217/CL153	LG	LAES
CL	311	242L1311	RU2102217/CL153	LG	LAES
CL	312	242L1312	RU2102217/CL153	LG	LAES
CL	313	242L1313	RU1902034/192L1072	LG	LAES
CL	314	242L1314	CLL19/RU2102217	LG	LAES
CL	315	242L1315	CLL19/RU2102217	LG	LAES
CL	316	242L1316	CLL19/RU2102217	LG	LAES
CL	317	242L1317	CLL19/RU2102217	LG	LAES
CL	318	242L1318	CLL19/RU2102217	LG	LAES
CL	319	242L1319	CLL19/RU2102217	LG	LAES
CL	320	242L1320	CLL19/RU2102217	LG	LAES
CL	321	242L1321	CLL19/RU2102217	LG	LAES
CL	322	242L1322	CLL19/RU2102217	LG	LAES
CL	323	242L1323	CLL19/RU2102217	LG	LAES
CL	324	242L1324	CLL19/RU2102217	LG	LAES
CL	325	242L1325	CL153/RU2102222	LG	LAES
CL	326	242L1326	CL153/RU2102222	LG	LAES
CL	327	242L1327	CL153/RU2102222	LG	LAES
CL	328	242L1328	CL153/RU2102222	LG	LAES
CL	329	242L1329	CL153/RU2102222	LG	LAES
CL	330	242L1330	CL153/RU2102222	LG	LAES
CL	331	242L1331	CL153/RU2102222	LG	LAES
CL	332	242L1332	CL153/RU2102222	LG	LAES
CL	333	242L1333	CL153/RU2102222	LG	LAES
CL	334	242L1334	CL153/RU2102222	LG	LAES
CL	335	242L1335	CL153/RU2102222	LG	LAES
CL	336	242L1336	CL153/RU2102222	LG	LAES
CL	337	242L1337	CL153/RU2102222	LG	LAES
CL	338	242L1338	191L2066/192L1544	LG	LAES
CL	339	242L1339	191L2066/192L1544	LG	LAES
CL	340	242L1340	RU2102217/192L2050	LG	LAES
CL	341	242L1341	RU2102217/192L2050	LG	LAES
CL	342	242L1342	RU2102217/192L2050	LG	LAES
CL	343	242L1343	RU2102217/192L2050	LG	LAES
CL	344	242L1344	RU2102217/192L2050	LG	LAES
CL	345	242L1345	RU2102217/192L2050	LG	LAES
CL	346	242L1346	RU2102217/192L2050	LG	LAES
CL	347	242L1347	RU2102217/192L2050	LG	LAES
CL	348	242L1348	RU2102217/192L2050	LG	LAES
CL	349	242L1349	RU2102217/192L2050	LG	LAES
CL	350	242L1350	RU1902034/192L2050	LG	LAES
CL	351	242L1351	RU1902034/192L2050	LG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CL	352	242L1352	RU1902034/192L2050	LG	LAES
CL	353	242L1353	RU1902034/192L2050	LG	LAES
CL	354	242L1354	RU1902034/192L2050	LG	LAES
CL	355	242L1355	RU1902034/192L2050	LG	LAES
CL	356	242L1356	CLHA03/201L1251	HI	LAES
CL	357	242L1357	CLHA03/201L1251	HI	LAES
CL	358	242L1358	CLHA03/201L1251	HI	LAES
CL	359	242L1359	CLHA03/201L1251	HI	LAES
CL	360	242L1360	CLHA03/201L1251	HI	LAES
CL	361	242L1361	CLHA03/201L1251	HI	LAES
CL	362	242L1362	RU2102217/201L1288	LG	LAES
CL	363	242L1363	RU2102217/201L1288	LG	LAES
CL	364	242L1364	RU2102217/201L1288	LG	LAES
CL	365	242L1365	RU2102217/201L1288	LG	LAES
CL	366	242L1366	RU2102217/201L1288	LG	LAES
CL	367	242L1367	RU2102217/201L1288	LG	LAES
CL	368	242L1368	RU2102217/201L1288	LG	LAES
CL	369	242L1369	RU2102217/201L1288	LG	LAES
CL	370	242L1370	RU2102217/201L1288	LG	LAES
CL	371	CLL18	RoyJ/CL142AR	LG	AAES
CL	372	CLL19	Wells/CL161//Drew/CL161/3/Cheniere//Cocodrie/ Jefferson	LG	LAES
CL	373	CLHA03	CL163/CL153	HI	LAES
CL	374	RU2102217	CL161//Cocodrie/9770532DH2/3/Cypress/Kaybonnet// RU9502008A/4/Catahoula/5/CL172/6/CL172	LG	LAES
CL	375	RU1902034	Cocodrie/Drew//CLR20/3/Cypress/Kaybonnet//Cocodrie/6/ Katy/Cypress//Newbonnet/Katy/3/Cocodrie/4/CLR9/5/ Cocodrie/Tacauri//CLR5	LG	LAES
CL	1	242M1001	RU1702165/RU1902162	MG	LAES
CL	2	242M1002	RU1702165/RU1902162	MG	LAES
CL	3	242M1003	RU1702165/RU1902162	MG	LAES
CL	4	242M1004	CL272/RU1902182	MG	LAES
CL	5	242M1005	CL272/RU1902182	MG	LAES
CL	6	242M1006	CL272/RU1801211	MG	LAES
CL	7	242M1007	CL272/RU1801211	MG	LAES
CL	8	242M1008	CL272/RU1801211	MG	LAES
CL	9	242M1009	RU1902174/Titan	MG	LAES
CL	10	242M1010	RU1902174/Titan	MG	LAES
CL	11	242M1011	RU1902174/Titan	MG	LAES
CL	12	242M1012	CLM04/RU1902174	MG	LAES
CL	13	242M1013	CLM04/RU1902174	MG	LAES
CL	14	242M1014	CLM04/RU1902174	MG	LAES
CL	15	242M1015	CLM04/RU1902174	MG	LAES
CL	16	242M1016	CLM04/RU1902174	MG	LAES
CL	17	242M1017	RU1902174/Lynx	MG	LAES
CL	18	242M1018	RU1902174/Lynx	MG	LAES
CL	19	242M1019	RU1902174/Lynx	MG	LAES
CL	20	242M1020	RU1902174/Lynx	MG	LAES
CL	21	242M1021	RU1902174/RU2002090	MG	LAES
CL	22	242M1022	RU1902174/RU2002090	MG	LAES
CL	23	242M1023	RU1902174/RU2002090	MG	LAES
CL	24	242M1024	RU1902174/RU2002090	MG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CL	25	242M1025	RU1902174/RU2002090	MG	LAES
CL	26	242M1026	RU1902174/RU2002090	MG	LAES
CL	27	242M1027	RU1902174/RU2002090	MG	LAES
CL	28	242M1028	RU1902174/RU1801211	MG	LAES
CL	29	242M1029	RU1902174/RU1801211	MG	LAES
CL	30	242M1030	RU1902174/RU1801211	MG	LAES
CL	31	242M1031	RU1902174/RU1801211	MG	LAES
CL	32	242M1032	CLM04/RU1802174	MG	LAES
CL	33	242M1033	CLM04/RU1802174	MG	LAES
CL	34	242M1034	CLM04/RU1802174	MG	LAES
CL	35	242M1035	CLM04/RU1802174	MG	LAES
CL	36	242M1036	CLM04/RU1802174	MG	LAES
CL	37	242M1037	CLM04/RU1802174	MG	LAES
CL	38	242M1038	RU2002094/CLM04	MG	LAES
CL	39	242M1039	RU2002094/CLM04	MG	LAES
CL	40	242M1040	RU2002094/CLM04	MG	LAES
CL	41	242M1041	RU2002094/CLM04	MG	LAES
CL	42	242M1042	RU2002094/CLM04	MG	LAES
CL	43	242M1043	RU2002094/CLM04	MG	LAES
CL	44	242M1044	181M1740/RU1902174	MG	LAES
CL	45	242M1045	181M1740/RU1902174	MG	LAES
CL	46	242M1046	181M1740/RU1902174	MG	LAES
CL	47	242M1047	181M1740/RU1902174	MG	LAES
CL	48	242M1048	181M1740/RU1902174	MG	LAES
CL	49	242M1049	181M1740/RU1902174	MG	LAES
CL	50	242M1050	181M1740/RU1902174	MG	LAES
CL	51	242M1051	RU1902174/RU1902227	MG	LAES
CL	52	242M1052	RU1902174/RU1902227	MG	LAES
CL	53	242M1053	RU1902174/RU1902227	MG	LAES
CL	54	242M1054	RU1902174/RU1902227	MG	LAES
CL	55	242M1055	RU1902174/RU1902227	MG	LAES
CL	56	242M1056	RU1902174/Jupiter	MG	LAES
CL	57	242M1057	RU1902174/Jupiter	MG	LAES
CL	58	242M1058	RU1902174/RU2002094	MG	LAES
CL	59	242M1059	Jupiter/CLM04	MG	LAES
CL	60	242M1060	Jupiter/CLM04	MG	LAES
CL	61	242M1061	RU1902174/RU1802174	MG	LAES
CL	62	242M1062	RU1902174/RU1802174	MG	LAES
CL	63	242M1063	RU1902174/RU1802174	MG	LAES
CL	64	242M1064	RU1902174/RU1802174	MG	LAES
CL	65	242M1065	RU1902174/RU1802174	MG	LAES
CL	66	242M1066	RU1902174/RU1802174	MG	LAES
CL	67	242M1067	181M1740/CLM04	MG	LAES
CL	68	242M1068	181M1740/CLM04	MG	LAES
CL	69	242M1069	181M1740/CLM04	MG	LAES
CL	70	242M1070	181M1740/CLM04	MG	LAES
CL	71	242M1071	181M1740/CLM04	MG	LAES
CL	72	242M1072	181M1740/CLM04	MG	LAES
CL	73	242M1073	181M1740/CLM04	MG	LAES
CL	74	242M1074	Taurus/CLM04	MG	LAES
CL	75	242M1075	BBC17-1/Taurus	MG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CL	76	242M1076	BBC17-1/181M1740	MG	LAES
CL	77	242M1077	RU2002094/BBC17-1	MG	LAES
CL	78	242M1078	RU2002094/BBC17-1	MG	LAES
CL	79	242M1079	RU2002094/BBC17-1	MG	LAES
CL	80	242M1080	BBC17-1/RU1902227	MG	LAES
CL	81	242M1081	BBC35-1/Taurus	MG	LAES
CL	82	242M1082	BBC35-1/Taurus	MG	LAES
CL	83	242M1083	BBC35-1/Lynx	MG	LAES
CL	84	242M1084	BBC35-1/Lynx	MG	LAES
CL	85	242M1085	RU1801211/BBC17-1	MG	LAES
CL	86	242M1086	BBC35-1/Titan	MG	LAES
CL	87	242M1087	BBC35-1/Titan	MG	LAES
CL	88	242M1088	BBC35-1/RU2002094	MG	LAES
CL	89	242M1089	RU1802174/BBC35-1	MG	LAES
CL	90	242M1090	RU1802174/BBC35-1	MG	LAES
CL	91	242M1091	RU1802174/BBC35-1	MG	LAES
CL	92	242M1092	181M1740/BBC35-1	MG	LAES
CL	93	242M1093	BBC17-1/RU2002090	MG	LAES
CL	94	242M1094	BBC35-1/Jupiter	MG	LAES
CL	95	242M1095	BBC35-1/Jupiter	MG	LAES
CL	96	242M1096	Jupiter/BBC17-1	MG	LAES
CL	97	242M1097	BBC41-2/RU1801238	MG	LAES
CL	98	242M1098	BBC41-2/RU1801238	MG	LAES
CL	99	242M1099	BBC25-1/Taurus	MG	LAES
CL	100	242M1100	BBC18-2/191M1192	MG	LAES
CL	101	242M1101	Lynx/BBC18-2	MG	LAES
CL	102	242M1102	Lynx/BBC18-2	MG	LAES
CL	103	242M1103	Lynx/BBC18-2	MG	LAES
CL	104	242M1104	BBC30-1/CLM04	MG	LAES
CL	105	242M1105	BBC30-1/CLM04	MG	LAES
CL	106	242M1106	BBC30-1/CLM04	MG	LAES
CL	107	242M1107	BBC30-1/CLM04	MG	LAES
CL	108	242M1108	BBC27-1/Lynx	MG	LAES
CL	109	242M1109	BBC25-1/RU1801238	MG	LAES
CL	110	242M1110	BBC30-1/BBC27-1	MG	LAES
CL	111	242M1111	BBC30-1/BBC27-1	MG	LAES
CL	112	242M1112	BBC30-1/BBC27-1	MG	LAES
CL	113	242M1113	CLM04/Jupiter	MG	LAES
CL	114	242M1114	CLM04/Jupiter	MG	LAES
CL	115	242M1115	CLM04/Jupiter	MG	LAES
CL	116	242M1116	CLM04/Jupiter	MG	LAES
CL	117	242M1117	CLM04/Jupiter	MG	LAES
CL	118	242M1118	CLM04/Jupiter	MG	LAES
CL	119	242M1119	CLM04/Jupiter	MG	LAES
CL	120	242M1120	CLM04/Jupiter	MG	LAES
CL	121	242M1121	RU1801238/Jupiter	MG	LAES
CL	122	242M1122	RU1801238/Jupiter	MG	LAES
CL	123	242M1123	RU1801238/Jupiter	MG	LAES
CL	124	242M1124	RU1801238/Jupiter	MG	LAES
CL	125	242M1125	RU1801238/Jupiter	MG	LAES
CL	126	242M1126	RU1801238/Jupiter	MG	LAES

Continued.

Table 2. Continued.

Herbicide				Grain	
Type*	Entry	Line	Pedigree	Type†	Source‡
CL	127	242M1127	CLM04/RU1801238	MG	LAES
CL	128	242M1128	CLM04/RU1801238	MG	LAES
CL	129	242M1129	CLM04/RU1801238	MG	LAES
CL	130	242M1130	CLM04/RU1801238	MG	LAES
CL	131	242M1131	CLM04/RU1801238	MG	LAES
CL	132	242M1132	CLM04/RU1801238	MG	LAES
CL	133	242M1133	CLM04/RU1801238	MG	LAES
CL	134	242M1134	CLM04/RU1801238	MG	LAES
CL	135	242M1135	CLM04/RU1801238	MG	LAES
CL	136	242M1136	CLM04/RU1801238	MG	LAES
CL	137	242M1137	CLM04/RU1801238	MG	LAES
CL	138	242M1138	CLM04/RU1801238	MG	LAES
CL	139	242M1139	BBC30-1/Taurus	MG	LAES
CL	140	242M1140	BBC30-1/Taurus	MG	LAES
CL	141	242M1141	BBC30-1/Taurus	MG	LAES
CL	142	242M1142	BBC30-1/Taurus	MG	LAES
CL	143	242M1143	BBC30-1/Taurus	MG	LAES
CL	144	242M1144	BBC30-1/Taurus	MG	LAES
CL	145	242M1145	BBC30-1/Taurus	MG	LAES
CL	146	242M1146	BBC30-1/Taurus	MG	LAES
CL	147	242M1147	BBC30-1/Taurus	MG	LAES
CL	148	CLM04	RU1202168/Jupiter	MG	AAES
CL	149	CLM05	CLM05-female parent/CLM05-male	MG	AAES
CL	150	212M1144	RU1902182/Lynx	MG	LAES

* Herbicide Type – Clearfield (CL), Conventional (CN), Provisia (PV), Segregating (Seg).

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

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

Table 3. Grain and milling yields and agronomic performance of entries in the 2024 Clearfield Preliminary Yield Long-Grain trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
257	242L1257	-	96.0	109.0	50.8	64.7	36.8	12646.4	2756.2
371	CLL18	-	98.0	111.0	53.5	67.1	40.7	12256.9	2752.3
154	242L1154	-	97.0	93.0	53.2	68.3	39.2	11700.9	3164.2
40	242L1040	-	93.0	95.0	56.7	70.0	30.1	11599.9	3297.7
141	242L1141	-	97.0	96.0	59.9	69.8	24.5	11449.2	3533.0
157	242L1157	-	101.0	113.0	49.5	66.7	37.1	11435.7	2609.2
82	242L1082	-	97.0	107.0	63.2	72.7	24.5	11330.9	3117.4
271	242L1271	-	94.0	95.0	62.4	69.7	29.4	11284.8	3802.2
239	242L1239	-	99.0	99.0	58.0	68.0	24.6	11170.4	3600.0
265	242L1265	-	94.0	101.0	61.4	69.6	25.1	11148.6	3792.9
1	242L1001	-	98.0	99.0	64.4	71.0	27.7	11096.2	4069.3
354	242L1354	-	98.0	89.0	55.8	66.3	29.9	11078.4	3827.6
307	242L1307	-	94.0	95.0	61.9	71.0	26.9	11044.0	3029.1
353	242L1353	-	97.0	92.0	55.5	65.6	33.6	11042.2	3481.8
38	242L1038	-	96.0	90.0	59.6	69.3	27.8	11002.4	3638.2
42	242L1042	-	94.0	85.0	56.4	68.1	29.6	10998.4	4329.0
312	242L1312	-	95.0	94.0	58.9	68.5	25.6	10993.1	4043.8
190	242L1190	-	95.0	90.0	59.8	68.6	31.1	10972.6	4070.2
336	242L1336	-	94.0	86.0	64.8	70.4	21.9	10965.8	3504.2
225	242L1225	-	99.0	91.0	62.9	70.3	25.1	10964.1	3634.6
259	242L1259	-	99.0	104.0	60.8	68.5	24.3	10961.0	3837.6
322	242L1322	-	94.0	88.0	47.2	64.6	37.4	10959.6	3507.6
320	242L1320	-	93.0	82.0	52.2	65.9	38.1	10928.8	3834.3
63	242L1063	-	100.0	99.0	65.1	71.4	29.5	10919.4	3561.2
213	242L1213	-	96.0	92.0	55.2	68.8	30.6	10909.3	2802.2
183	242L1183	-	95.0	90.0	61.6	69.8	24.3	10902.0	3467.4
347	242L1347	-	94.0	93.0	56.5	67.4	30.1	10895.1	4404.3
355	242L1355	-	97.0	99.0	56.7	66.7	28.1	10852.9	4566.3
228	242L1228	-	96.0	93.0	53.7	67.7	30.6	10839.2	3994.0
358	242L1358	-	99.0	100.0	59.3	67.9	22.8	10823.6	3076.9
297	242L1297	-	94.0	91.0	58.9	68.5	26.2	10810.2	3526.5
169	242L1169	-	95.0	100.0	57.1	68.3	36.5	10800.0	4126.5
321	242L1321	-	94.0	84.0	55.6	67.4	33.7	10788.0	3744.2
4	242L1004	-	94.0	94.0	61.3	70.3	32.7	10787.6	3901.4
156	242L1156	-	94.0	96.0	48.9	65.9	32.7	10757.1	3765.8
349	242L1349	-	97.0	93.0	51.8	65.4	38.4	10745.1	3767.5
145	242L1145	-	98.0	84.0	58.4	68.3	29.1	10740.8	3646.5
88	242L1088	-	96.0	97.0	58.2	68.2	26.5	10735.3	4047.1
341	242L1341	-	94.0	88.0	57.2	67.7	33.0	10730.1	4065.9
3	242L1003	-	97.0	104.0	57.9	68.2	32.7	10717.9	3987.6
178	242L1178	-	98.0	78.0	63.1	69.9	19.0	10717.1	3489.6
334	242L1334	-	93.0	96.0	61.6	70.2	26.6	10698.3	3522.2
289	242L1289	-	97.0	90.0	53.9	67.0	27.0	10690.2	3864.5
283	242L1283	-	94.0	82.0	57.3	67.0	33.9	10689.0	3423.5
92	242L1092	-	96.0	96.0	62.7	71.8	22.7	10663.6	3789.6
119	242L1119	-	97.0	91.0	63.7	70.4	22.7	10651.8	3246.5
149	242L1149	-	97.0	96.0	58.3	69.2	36.9	10649.2	3265.1
345	242L1345	-	97.0	91.0	50.0	66.0	36.8	10646.8	3158.0
288	242L1288	-	95.0	86.0	63.8	72.0	33.4	10642.4	3285.4

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
130	242L1130	-	95.0	95.0	61.0	70.3	35.6	10638.2	3802.9
53	242L1053	-	98.0	94.0	62.8	69.3	16.8	10633.2	3932.6
274	242L1274	-	95.0	98.0	65.0	71.4	23.2	10631.7	4064.3
222	242L1222	-	95.0	99.0	66.0	71.8	20.0	10602.1	4041.4
151	242L1151	-	96.0	103.0	64.4	71.9	26.8	10601.2	3497.4
325	242L1325	-	93.0	92.0	57.4	68.5	23.6	10593.7	3263.8
260	242L1260	-	98.0	101.0	63.6	69.4	29.1	10593.0	3667.9
328	242L1328	-	95.0	96.0	64.5	70.3	24.3	10592.4	3199.6
150	242L1150	-	99.0	93.0	64.0	69.9	20.5	10591.4	2684.9
229	242L1229	-	96.0	93.0	57.7	69.5	24.3	10588.9	3429.3
212	242L1212	-	94.0	103.0	53.9	67.4	25.2	10585.1	4012.2
186	242L1186	-	95.0	89.0	61.8	69.9	27.3	10568.7	3930.2
366	242L1366	-	95.0	96.0	53.3	67.1	35.3	10567.9	4147.9
198	242L1198	-	96.0	95.0	58.4	68.4	28.5	10564.6	3481.0
233	242L1233	-	94.0	99.0	59.2	69.0	26.8	10560.7	4307.4
272	242L1272	-	95.0	91.0	61.4	70.4	37.2	10558.4	3335.1
10	242L1010	-	97.0	89.0	60.9	69.0	28.7	10557.1	3926.7
269	242L1269	-	93.0	90.0	59.1	69.6	27.8	10548.7	3706.7
162	242L1162	-	101.0	88.0	51.7	68.0	31.3	10533.4	2829.0
357	242L1357	-	94.0	99.0	55.9	67.0	30.2	10523.8	4259.8
100	242L1100	-	97.0	96.0	56.1	68.3	30.2	10518.1	3350.7
203	242L1203	-	93.0	95.0	63.6	71.5	26.6	10507.9	3695.1
332	242L1332	-	95.0	92.0	66.1	75.3	23.7	10502.0	3356.1
94	242L1094	-	91.0	93.0	62.2	69.6	25.5	10488.3	3538.5
123	242L1123	-	95.0	98.0	62.1	69.6	20.7	10484.0	3789.8
231	242L1231	-	97.0	83.0	62.4	69.9	31.6	10475.3	3815.4
181	242L1181	-	96.0	93.0	62.5	70.2	28.2	10474.1	3160.0
326	242L1326	-	98.0	90.0	63.6	71.7	24.6	10473.8	2858.0
140	242L1140	-	97.0	88.0	51.3	64.7	31.3	10467.6	3285.0
273	242L1273	-	101.0	96.0	51.7	65.6	33.6	10434.0	4435.9
286	242L1286	-	94.0	100.0	62.6	71.1	27.9	10431.2	3402.5
163	242L1163	-	95.0	101.0	49.8	65.1	36.5	10422.2	3586.8
174	242L1174	-	96.0	96.0	57.2	67.6	33.1	10421.4	3607.9
159	242L1159	-	97.0	96.0	61.5	69.5	24.6	10417.0	3800.6
173	242L1173	-	96.0	91.0	60.2	69.5	33.2	10401.3	3575.4
152	242L1152	-	96.0	91.0	59.6	68.6	31.4	10399.6	3808.1
199	242L1199	-	96.0	101.0	64.3	71.4	30.2	10399.6	3350.7
333	242L1333	-	96.0	85.0	59.7	69.8	29.7	10390.8	3925.1
248	242L1248	-	94.0	98.0	62.7	70.1	20.5	10390.8	3903.4
318	242L1318	-	94.0	86.0	54.2	66.9	33.8	10387.6	3124.9
143	242L1143	-	99.0	99.0	64.7	72.4	29.3	10385.7	4152.9
102	242L1102	-	97.0	98.0	58.8	68.5	24.5	10384.2	3377.0
158	242L1158	-	102.0	93.0	59.2	68.8	28.4	10381.6	2325.5
27	242L1027	-	92.0	89.0	45.5	64.5	44.5	10373.7	3935.8
188	242L1188	-	95.0	89.0	62.4	70.3	31.7	10372.2	3240.1
250	242L1250	-	94.0	98.0	52.3	67.2	32.0	10361.4	3853.6
278	242L1278	-	94.0	93.0	52.1	66.5	28.0	10354.9	3998.6
160	242L1160	-	97.0	82.0	43.9	65.2	28.1	10354.6	3167.2
281	242L1281	-	95.0	91.0	57.2	68.3	25.0	10348.3	3793.5
124	242L1124	-	97.0	97.0	61.8	69.8	22.1	10347.5	3853.8
356	242L1356	-	97.0	98.0	59.8	69.3	25.9	10346.9	3302.7

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
66	242L1066	-	97.0	94.0	56.0	66.6	25.8	10341.1	3556.9
144	242L1144	-	96.0	100.0	56.5	66.3	20.6	10331.4	3969.7
340	242L1340	-	94.0	90.0	52.2	66.6	32.6	10328.6	3671.0
342	242L1342	-	94.0	92.0	49.4	67.1	37.9	10328.6	4306.0
319	242L1319	-	94.0	94.0	54.4	67.5	31.6	10327.2	3155.4
245	242L1245	-	97.0	94.0	58.3	67.7	23.5	10325.8	3738.5
20	242L1020	-	94.0	100.0	63.1	71.4	25.8	10315.0	3221.1
207	242L1207	-	97.0	100.0	69.1	75.7	31.6	10313.8	3898.6
223	242L1223	-	95.0	98.0	64.7	71.3	26.9	10312.9	3754.9
194	242L1194	-	94.0	91.0	60.6	69.5	24.0	10300.8	3860.9
306	242L1306	-	96.0	103.0	58.8	67.9	26.1	10293.3	3194.1
234	242L1234	-	97.0	83.0	64.1	71.2	26.6	10293.1	3071.4
298	242L1298	-	94.0	97.0	64.8	71.8	21.1	10288.8	3776.8
346	242L1346	-	94.0	98.0	47.0	64.1	36.5	10287.6	3359.3
316	242L1316	-	94.0	88.0	53.9	66.6	28.3	10271.9	2880.9
267	242L1267	-	97.0	94.0	57.4	68.0	38.0	10268.9	3115.0
127	242L1127	-	96.0	93.0	56.7	67.7	18.3	10261.8	3650.4
246	242L1246	-	94.0	94.0	56.8	67.5	29.0	10260.1	4255.6
9	242L1009	-	97.0	96.0	56.9	67.9	26.1	10254.0	3492.0
204	242L1204	-	94.0	100.0	58.7	69.2	23.4	10247.1	3834.9
90	242L1090	-	99.0	91.0	62.0	70.7	23.7	10242.2	3788.0
120	242L1120	-	98.0	99.0	60.0	67.9	20.4	10241.7	3505.0
270	242L1270	-	92.0	93.0	53.7	67.9	23.5	10240.5	3559.8
184	242L1184	-	95.0	88.0	60.4	68.4	22.8	10239.4	2997.8
323	242L1323	-	94.0	84.0	56.6	67.3	26.3	10237.7	3670.0
164	242L1164	-	97.0	87.0	53.9	67.4	34.0	10229.6	2714.8
132	242L1132	-	97.0	98.0	62.0	70.3	21.2	10228.7	3665.1
235	242L1235	-	95.0	93.0	59.7	68.7	21.4	10225.5	3475.4
153	242L1153	-	98.0	93.0	64.9	71.0	27.6	10217.9	3992.1
293	242L1293	-	95.0	98.0	59.0	69.3	25.4	10215.9	3727.2
60	242L1060	-	94.0	95.0	57.0	69.2	27.2	10202.8	4129.5
218	242L1218	-	96.0	86.0	63.8	71.0	20.2	10201.4	3403.8
337	242L1337	-	97.0	91.0	63.8	70.8	24.7	10199.2	3586.5
93	242L1093	-	97.0	96.0	63.6	70.7	26.7	10196.3	3738.4
230	242L1230	-	93.0	97.0	47.4	66.1	32.4	10189.7	3867.2
287	242L1287	-	95.0	89.0	60.9	69.5	33.9	10184.5	3142.3
300	242L1300	-	97.0	88.0	62.7	69.9	16.6	10180.0	4105.8
31	242L1031	-	93.0	92.0	49.7	66.0	36.4	10169.5	3806.1
350	242L1350	-	96.0	97.0	58.9	68.6	31.4	10165.9	3882.5
370	242L1370	-	94.0	93.0	46.2	65.5	38.1	10165.7	3363.4
155	242L1155	-	97.0	99.0	59.2	69.4	25.5	10159.6	2720.0
185	242L1185	-	94.0	94.0	62.5	69.6	21.5	10149.8	3785.2
69	242L1069	-	98.0	95.0	64.2	70.6	32.8	10147.6	2454.7
291	242L1291	-	98.0	96.0	63.2	70.3	24.7	10145.9	4271.0
35	242L1035	-	98.0	103.0	52.8	68.8	40.7	10141.3	3472.7
352	242L1352	-	99.0	93.0	57.2	68.0	31.9	10138.5	3448.2
34	242L1034	-	97.0	88.0	52.5	66.8	27.0	10137.9	3685.7
317	242L1317	-	93.0	90.0	50.1	65.1	39.8	10133.4	3687.6
81	242L1081	-	95.0	93.0	57.7	67.7	24.5	10128.2	3460.8
12	242L1012	-	98.0	92.0	66.0	72.2	26.0	10115.3	3844.1
8	242L1008	-	94.0	97.0	58.2	67.8	23.5	10115.0	3473.4

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
251	242L1251	-	95.0	101.0	59.7	69.7	26.0	10113.2	3864.4
266	242L1266	-	98.0	100.0	56.7	68.4	33.4	10109.9	3321.3
33	242L1033	-	97.0	94.0	54.8	68.2	28.9	10107.3	4247.5
261	242L1261	-	93.0	100.0	64.6	70.6	19.8	10104.3	3609.7
2	242L1002	-	99.0	105.0	60.7	62.4	23.8	10103.3	3120.7
324	242L1324	-	91.0	88.0	56.2	67.2	22.9	10097.8	3916.1
359	242L1359	-	94.0	99.0	55.8	67.3	30.5	10096.8	3624.2
282	242L1282	-	93.0	96.0	56.9	68.4	35.6	10092.6	3634.5
364	242L1364	-	95.0	98.0	58.2	68.7	30.1	10091.7	3623.6
208	242L1208	-	98.0	96.0	64.5	72.4	30.0	10087.1	4033.3
7	242L1007	-	95.0	94.0	64.9	73.2	36.3	10085.1	3432.2
87	242L1087	-	100.0	95.0	59.7	69.2	38.7	10083.7	3299.3
39	242L1039	-	96.0	95.0	55.4	69.1	40.3	10078.6	3944.2
72	242L1072	-	96.0	96.0	65.5	71.7	18.5	10077.3	4131.2
86	242L1086	-	94.0	94.0	62.4	71.6	32.2	10076.9	3774.8
30	242L1030	-	95.0	97.0	54.6	67.6	32.4	10074.8	4308.5
109	242L1109	-	94.0	90.0	58.6	68.0	25.5	10071.9	3166.9
215	242L1215	-	93.0	95.0	65.7	71.7	24.7	10059.0	4019.3
375	RU1902034	-	97.0	89.0	56.5	67.4	35.6	10058.8	3309.9
56	242L1056	-	98.0	103.0	63.6	69.6	17.5	10057.6	3244.8
221	242L1221	-	97.0	86.0	64.6	72.7	32.5	10048.3	3330.7
13	242L1013	-	96.0	105.0	60.3	69.5	28.9	10038.8	3757.5
71	242L1071	-	98.0	103.0	62.2	68.9	28.7	10032.3	4040.8
50	242L1050	-	90.0	95.0	52.5	68.2	21.0	10025.7	3521.5
310	242L1310	-	94.0	88.0	56.8	68.4	25.7	10011.0	3660.1
103	242L1103	-	94.0	93.0	60.5	68.8	27.1	10008.3	3747.9
335	242L1335	-	95.0	97.0	61.7	70.0	27.7	10007.5	3363.9
101	242L1101	-	100.0	83.0	59.8	69.0	27.4	10002.8	3389.9
79	242L1079	-	97.0	98.0	61.0	68.1	27.0	9998.0	3416.4
253	242L1253	-	97.0	98.0	58.3	68.0	20.3	9994.2	3578.8
232	242L1232	-	96.0	94.0	63.1	70.5	31.9	9991.5	3879.8
292	242L1292	-	94.0	97.0	60.7	70.1	26.6	9973.3	4394.8
67	242L1067	-	95.0	92.0	54.0	66.6	28.2	9969.7	3902.0
146	242L1146	-	100.0	85.0	56.2	68.7	27.1	9966.9	2927.9
367	242L1367	-	94.0	92.0	54.0	68.1	39.5	9959.0	4488.3
236	242L1236	-	97.0	94.0	52.6	66.7	28.3	9957.6	3617.2
55	242L1055	-	95.0	100.0	62.1	68.6	19.0	9956.8	3701.1
241	242L1241	-	94.0	98.0	60.9	72.7	28.4	9945.2	4062.2
360	242L1360	-	99.0	98.0	57.6	67.6	29.9	9941.7	3199.6
344	242L1344	-	93.0	92.0	50.8	65.8	30.9	9940.1	3982.5
262	242L1262	-	95.0	86.0	64.0	70.0	20.4	9933.8	2752.0
209	242L1209	-	92.0	98.0	61.1	70.8	24.6	9933.5	3406.4
361	242L1361	-	98.0	92.0	58.0	68.7	35.3	9933.0	3650.6
284	242L1284	-	93.0	92.0	57.9	68.3	24.2	9932.0	3499.9
128	242L1128	-	95.0	97.0	59.6	68.0	31.6	9930.7	3787.8
125	242L1125	-	95.0	87.0	62.3	68.9	22.4	9921.4	3391.0
135	242L1135	-	98.0	95.0	59.0	67.7	30.3	9918.0	2912.1
74	242L1074	-	96.0	95.0	62.8	69.3	27.3	9917.1	3588.5
59	242L1059	-	94.0	92.0	61.5	70.5	19.1	9912.1	3923.0
311	242L1311	-	97.0	92.0	61.7	70.6	37.4	9911.2	3853.2
329	242L1329	-	96.0	99.0	66.3	72.1	24.7	9907.4	3380.4

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
252	242L1252	-	92.0	90.0	59.6	69.5	22.9	9903.4	4082.6
28	242L1028	-	95.0	105.0	58.0	68.9	35.1	9899.0	3330.8
114	242L1114	-	94.0	95.0	63.0	69.3	17.5	9894.5	3653.4
277	242L1277	-	92.0	98.0	57.5	68.8	26.1	9891.0	4124.6
97	242L1097	-	95.0	98.0	63.1	69.3	18.4	9887.5	4295.3
242	242L1242	-	99.0	98.0	56.1	65.9	30.2	9880.2	3835.7
32	242L1032	-	97.0	101.0	53.1	68.3	29.6	9878.0	4232.1
362	242L1362	-	96.0	97.0	49.2	66.7	41.4	9873.2	3742.0
131	242L1131	-	94.0	95.0	58.5	67.9	32.2	9867.3	3390.5
224	242L1224	-	98.0	99.0	64.1	70.7	23.9	9866.2	4182.1
254	242L1254	-	100.0	91.0	62.0	70.5	23.8	9864.6	3271.9
110	242L1110	-	96.0	91.0	60.3	68.1	24.2	9861.8	3576.5
295	242L1295	-	94.0	94.0	61.3	68.0	20.9	9861.5	3617.2
303	242L1303	-	94.0	85.0	62.7	70.2	22.6	9858.4	4082.0
133	242L1133	-	98.0	100.0	56.9	67.2	27.2	9856.9	2887.6
41	242L1041	-	96.0	92.0	46.6	65.3	40.5	9855.0	3500.1
91	242L1091	-	96.0	87.0	60.0	69.5	23.0	9855.0	3780.1
139	242L1139	-	94.0	96.0	52.8	64.6	28.1	9850.0	3748.7
301	242L1301	-	95.0	100.0	59.7	69.0	27.3	9846.7	3371.5
210	242L1210	-	92.0	101.0	43.8	65.3	23.0	9842.0	3844.7
290	242L1290	-	98.0	84.0	55.0	66.1	25.0	9838.3	3296.4
179	242L1179	-	97.0	92.0	67.8	72.9	16.8	9837.8	3027.5
24	242L1024	-	98.0	102.0	60.1	68.7	29.9	9830.3	3313.6
85	242L1085	-	97.0	99.0	60.3	68.8	31.0	9828.8	3570.3
176	242L1176	-	92.0	93.0	61.1	70.1	24.1	9828.8	3413.6
189	242L1189	-	96.0	99.0	64.5	71.6	27.0	9824.2	3556.7
95	242L1095	-	94.0	101.0	54.9	67.0	20.4	9824.2	4365.7
167	242L1167	-	94.0	90.0	64.5	72.3	25.4	9823.3	3658.0
16	242L1016	-	99.0	96.0	60.9	70.4	36.5	9815.5	4153.6
374	RU2102217	-	94.0	88.0	53.7	67.9	37.9	9808.1	2831.1
302	242L1302	-	94.0	95.0	60.9	69.4	27.4	9805.5	3584.1
166	242L1166	-	95.0	92.0	53.8	66.3	22.0	9803.8	3635.3
77	242L1077	-	94.0	97.0	58.9	67.9	22.8	9797.8	3498.1
29	242L1029	-	95.0	100.0	62.4	68.8	19.0	9797.7	3196.2
294	242L1294	-	97.0	102.0	58.6	68.5	27.9	9792.4	3662.5
216	242L1216	-	93.0	93.0	65.6	72.3	22.8	9768.9	3701.0
211	242L1211	-	93.0	97.0	51.6	67.8	27.1	9768.7	3357.0
96	242L1096	-	92.0	95.0	58.8	67.5	24.0	9768.0	3813.1
191	242L1191	-	94.0	87.0	60.4	70.6	33.0	9757.5	2660.3
343	242L1343	-	96.0	85.0	34.7	63.0	36.4	9754.7	3087.9
148	242L1148	-	99.0	93.0	52.2	65.7	39.1	9753.8	2953.8
220	242L1220	-	97.0	89.0	65.5	73.2	28.6	9753.7	3628.5
65	242L1065	-	96.0	87.0	59.2	67.7	24.1	9752.8	3981.8
365	242L1365	-	95.0	98.0	55.1	68.2	42.7	9751.0	3788.7
314	242L1314	-	94.0	87.0	51.2	67.3	34.9	9742.4	3774.8
339	242L1339	-	96.0	96.0	59.8	69.9	29.8	9727.4	3260.6
23	242L1023	-	97.0	103.0	60.9	69.6	34.6	9718.1	3548.5
363	242L1363	-	96.0	91.0	43.4	65.4	36.5	9717.3	3231.8
192	242L1192	-	94.0	100.0	60.1	68.7	28.4	9713.3	3356.4
121	242L1121	-	99.0	105.0	64.3	71.3	18.5	9702.6	3458.9
21	242L1021	-	95.0	96.0	60.2	69.3	22.8	9697.3	3740.1

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
108	242L1108	-	96.0	82.0	55.8	67.0	22.9	9696.8	2941.8
25	242L1025	-	97.0	104.0	59.7	69.0	30.7	9694.2	4221.7
373	CLHA03	-	97.0	89.0	60.8	68.3	25.1	9691.0	3571.9
187	242L1187	-	94.0	82.0	58.4	68.3	23.7	9681.5	3648.7
134	242L1134	-	97.0	85.0	65.8	72.6	32.3	9673.7	3349.2
240	242L1240	-	98.0	97.0	61.9	70.3	26.9	9670.8	3221.8
348	242L1348	-	94.0	78.0	57.0	69.4	33.4	9669.9	2969.1
268	242L1268	-	93.0	95.0	61.6	71.3	27.8	9666.7	3466.7
115	242L1115	-	94.0	96.0	60.2	69.3	27.0	9661.7	4192.8
170	242L1170	-	92.0	90.0	59.8	69.5	22.9	9658.2	4249.9
285	242L1285	-	99.0	92.0	57.8	67.6	28.9	9658.2	3588.3
137	242L1137	-	98.0	88.0	51.5	68.2	40.3	9655.2	2741.0
5	242L1005	-	97.0	92.0	61.2	69.8	28.4	9654.6	3220.7
214	242L1214	-	92.0	93.0	54.1	67.4	25.0	9642.9	3649.3
255	242L1255	-	98.0	94.0	61.9	70.0	22.9	9640.8	4041.4
98	242L1098	-	96.0	92.0	62.1	68.1	15.3	9638.0	3523.8
331	242L1331	-	94.0	92.0	58.8	68.8	22.1	9635.5	3591.1
308	242L1308	-	92.0	96.0	60.6	68.6	26.9	9633.9	4000.5
195	242L1195	-	95.0	98.0	59.4	68.8	28.1	9632.2	3769.6
116	242L1116	-	98.0	93.0	61.1	69.6	25.7	9631.0	4219.2
180	242L1180	-	94.0	102.0	61.4	69.8	35.8	9631.0	3792.7
193	242L1193	-	100.0	92.0	59.3	68.6	36.7	9616.6	3812.0
368	242L1368	-	95.0	98.0	55.8	69.0	43.5	9603.3	3847.9
142	242L1142	-	97.0	92.0	62.2	70.3	20.8	9595.4	3742.1
126	242L1126	-	97.0	91.0	64.6	71.5	20.1	9594.6	3396.1
70	242L1070	-	96.0	82.0	57.3	66.8	31.0	9591.3	3975.5
201	242L1201	-	102.0	95.0	59.8	70.3	28.4	9584.8	3003.9
263	242L1263	-	92.0	101.0	62.4	70.3	20.0	9570.8	3592.1
75	242L1075	-	97.0	90.0	53.8	65.7	20.0	9566.7	3502.8
138	242L1138	-	92.0	84.0	58.0	66.8	25.0	9564.8	4001.5
22	242L1022	-	97.0	95.0	54.2	68.3	27.2	9555.4	3672.5
372	CLL19	-	94.0	89.0	55.1	65.6	29.3	9554.1	3065.1
54	242L1054	-	98.0	101.0	63.6	69.6	15.6	9545.8	3108.8
83	242L1083	-	98.0	98.0	62.0	69.6	29.5	9544.8	3849.6
249	242L1249	-	97.0	90.0	58.1	68.4	24.2	9531.4	3430.9
219	242L1219	-	95.0	94.0	62.7	71.5	25.8	9530.8	3580.9
80	242L1080	-	94.0	94.0	56.1	67.3	38.2	9520.7	4092.4
196	242L1196	-	98.0	96.0	61.3	68.8	23.1	9518.1	2765.6
89	242L1089	-	94.0	92.0	59.1	70.4	29.5	9517.4	4068.6
76	242L1076	-	96.0	88.0	61.2	68.9	17.2	9511.5	3911.5
338	242L1338	-	94.0	90.0	59.3	69.0	24.9	9511.1	4379.1
177	242L1177	-	100.0	96.0	69.9	74.0	20.9	9507.3	3779.0
171	242L1171	-	92.0	89.0	66.5	73.1	24.3	9502.4	4040.9
197	242L1197	-	96.0	94.0	60.0	68.2	27.1	9500.7	3398.4
165	242L1165	-	98.0	115.0	48.2	65.1	32.5	9499.3	3379.9
247	242L1247	-	92.0	96.0	62.1	70.8	27.9	9496.7	3673.0
205	242L1205	-	96.0	99.0	62.1	69.5	22.7	9485.4	3806.7
172	242L1172	-	93.0	86.0	64.6	71.0	20.8	9481.5	4164.4
104	242L1104	-	97.0	95.0	60.2	68.7	23.8	9465.7	3667.1
111	242L1111	-	94.0	98.0	60.2	68.2	19.7	9464.0	3798.2
118	242L1118	-	95.0	85.0	59.9	69.2	31.5	9455.9	3743.4

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
330	242L1330	-	94.0	98.0	54.1	66.8	22.1	9425.3	3785.1
227	242L1227	-	98.0	100.0	63.3	70.5	29.9	9415.0	3522.2
99	242L1099	-	95.0	99.0	56.5	69.0	25.7	9398.0	4275.1
309	242L1309	-	97.0	93.0	65.7	71.0	19.0	9392.3	3958.8
107	242L1107	-	94.0	102.0	58.1	68.0	29.9	9351.6	3347.8
78	242L1078	-	97.0	94.0	60.1	69.1	32.4	9343.6	3887.8
226	242L1226	-	97.0	99.0	62.8	71.0	22.2	9333.5	3292.8
112	242L1112	-	95.0	103.0	62.8	71.1	30.2	9330.3	3882.8
351	242L1351	-	94.0	100.0	54.7	67.2	31.1	9326.2	4423.5
256	242L1256	-	98.0	98.0	62.8	70.0	24.9	9325.9	3701.1
84	242L1084	-	97.0	96.0	58.5	67.7	28.2	9315.1	3020.4
315	242L1315	-	94.0	92.0	53.4	66.6	27.9	9294.5	3242.2
6	242L1006	-	95.0	105.0	56.8	68.3	29.7	9293.1	3435.8
61	242L1061	-	98.0	92.0	64.9	70.8	16.2	9279.3	3891.4
305	242L1305	-	94.0	92.0	56.5	65.9	27.4	9277.2	3255.8
73	242L1073	-	96.0	93.0	58.2	68.8	41.3	9257.0	2825.3
202	242L1202	-	99.0	98.0	63.6	71.4	24.1	9243.7	3391.9
237	242L1237	-	100.0	92.0	63.6	71.4	25.6	9228.6	3665.5
122	242L1122	-	97.0	104.0	62.5	69.9	16.3	9228.6	3369.3
175	242L1175	-	94.0	88.0	63.2	72.5	28.1	9227.6	3585.1
113	242L1113	-	99.0	100.0	58.9	67.4	25.2	9207.3	3875.5
11	242L1011	-	98.0	99.0	57.3	66.9	24.9	9207.2	2911.3
57	242L1057	-	94.0	94.0	65.8	73.2	26.7	9189.1	4084.2
26	242L1026	-	98.0	99.0	52.4	65.3	42.5	9181.4	3953.6
296	242L1296	-	94.0	106.0	63.1	70.5	23.5	9167.8	3359.3
37	242L1037	-	100.0	95.0	65.4	72.1	32.6	9166.3	3264.9
217	242L1217	-	99.0	94.0	66.2	72.3	25.1	9155.5	3467.5
280	242L1280	-	91.0	96.0	59.0	68.7	25.6	9151.1	3633.8
327	242L1327	-	94.0	94.0	66.5	73.7	23.7	9142.4	3481.8
68	242L1068	-	95.0	91.0	61.2	68.6	32.4	9089.6	3143.7
49	242L1049	-	93.0	98.0	48.9	67.5	28.5	9085.9	3585.1
258	242L1258	-	93.0	103.0	62.2	70.1	28.1	9056.2	3441.4
147	242L1147	-	101.0	99.0	58.6	69.2	27.0	9052.5	2912.1
106	242L1106	-	94.0	95.0	60.7	69.1	25.9	9048.4	3388.0
243	242L1243	-	98.0	92.0	63.8	70.3	20.3	9043.7	3608.4
369	242L1369	-	97.0	89.0	57.9	70.1	37.0	9022.9	3513.6
129	242L1129	-	94.0	95.0	57.2	68.4	34.3	9015.3	3555.4
304	242L1304	-	94.0	88.0	58.6	68.2	24.7	9004.9	3700.4
264	242L1264	-	95.0	99.0	66.1	73.5	27.5	9000.3	3624.4
275	242L1275	-	95.0	106.0	61.1	69.0	23.6	8995.8	3567.1
313	242L1313	-	96.0	90.0	51.6	66.8	25.9	8988.9	3574.7
45	242L1045	-	92.0	94.0	58.5	69.9	16.3	8979.9	4480.1
19	242L1019	-	92.0	98.0	54.7	67.2	20.0	8977.4	3558.3
64	242L1064	-	94.0	94.0	62.5	71.3	33.4	8961.6	3691.4
299	242L1299	-	94.0	99.0	60.1	70.4	26.0	8960.5	3840.3
105	242L1105	-	95.0	100.0	60.6	68.7	25.3	8949.9	3092.9
182	242L1182	-	87.0	99.0	60.4	68.4	25.9	8930.0	3150.6
161	242L1161	-	101.0	88.0	59.5	68.5	22.2	8924.6	3557.2
48	242L1048	-	95.0	103.0	49.6	66.0	30.0	8910.2	4409.3
62	242L1062	-	100.0	97.0	67.9	72.6	21.6	8901.5	3346.8
238	242L1238	-	100.0	106.0	58.6	69.2	28.3	8892.6	3834.4

Continued.

Table 3. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
117	242L1117	-	93.0	95.0	62.3	70.3	20.8	8884.9	3644.9
200	242L1200	-	94.0	96.0	59.8	71.7	28.4	8859.7	3456.7
244	242L1244	-	97.0	91.0	61.6	70.0	32.9	8792.0	3879.3
36	242L1036	-	96.0	93.0	51.4	63.6	20.9	8785.2	3489.3
276	242L1276	-	96.0	97.0	60.6	69.5	22.5	8726.3	2928.8
58	242L1058	-	92.0	99.0	63.2	70.3	24.5	8720.3	3496.4
18	242L1018	-	98.0	96.0	60.2	69.8	32.7	8602.7	4092.6
15	242L1015	-	98.0	89.0	65.1	71.9	23.8	8493.7	2790.0
17	242L1017	-	98.0	92.0	58.0	69.3	25.7	8489.3	3132.9
43	242L1043	-	94.0	116.0	48.1	65.4	23.5	8450.4	4540.2
136	242L1136	-	95.0	90.0	61.5	69.7	18.9	8421.5	3436.8
168	242L1168	-	99.0	99.0	59.2	69.0	28.2	8401.2	3810.3
46	242L1046	-	97.0	96.0	61.3	71.3	15.5	8382.6	4149.2
206	242L1206	-	98.0	97.0	61.4	70.1	20.5	8317.2	3191.9
279	242L1279	-	95.0	88.0	63.2	72.1	30.7	8314.4	3238.5
52	242L1052	-	99.0	100.0	64.6	69.4	12.5	8242.9	3087.5
44	242L1044	-	94.0	104.0	57.5	66.9	8.2	8028.3	3471.4
47	242L1047	-	96.0	97.0	55.8	68.9	23.2	7590.7	4226.6
14	242L1014	-	98.0	96.0	68.5	74.8	23.3	6635.5	2993.3
51	242L1051	-	96.0	97.0	50.3	64.8	30.8	6188.3	3627.4

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 4. Grain and milling yields and agronomic performance of entries in the 2024 Clearfield Preliminary Yield Long-Grain trial – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
371	CLL18	-	74.0	109.0	56.8	68.3	25.5	10915.6	4533.1
27	242L1027	-	71.0	85.0	45.3	67.9	42.2	10389.9	4933.0
282	242L1282	-	71.0	90.0	56.7	69.9	33.9	9860.4	5395.4
194	242L1194	-	72.0	96.0	66.0	73.7	29.3	9685.8	5125.1
131	242L1131	-	72.0	95.0	59.5	70.2	30.7	9654.6	5131.7
265	242L1265	-	72.0	99.0	61.9	71.4	28.7	9633.0	5212.6
322	242L1322	-	70.0	92.0	53.3	68.2	36.8	9597.2	4588.0
50	242L1050	-	68.0	103.0	61.67	71.02	21.7	9565.2	4432.0
319	242L1319	-	71.0	96.0	53.8	68.9	35.3	9541.4	4033.1
165	242L1165	-	74.0	126.0	63.0	71.6	27.5	9506.3	5548.3
304	242L1304	-	71.0	95.0	57.6	69.1	30.0	9503.3	4351.5
96	242L1096	-	72.0	94.0	62.9	71.2	27.6	9499.7	5080.4
156	242L1156	-	72.0	88.0	61.6	70.5	31.7	9496.6	5179.1
314	242L1314	-	71.0	95.0	53.3	69.1	29.6	9439.8	6173.6
305	242L1305	-	72.0	95.0	58.7	69.1	30.5	9438.1	5357.7
170	242L1170	-	70.0	96.0	62.09	70.37	22.1	9435.8	4079.1
108	242L1108	-	72.0	89.0	60.1	70.4	28.3	9430.0	4975.8
374	RU2102217	-	71.0	88.0	51.8	69.3	35.2	9392.4	5628.8
375	RU1902034	-	72.0	94.0	58.9	69.4	32.2	9387.3	4387.3
10	242L1010	-	75.0	100.0	65.7	72.0	23.4	9371.2	4481.2
372	CLL19	-	72.0	91.0	57.1	68.5	27.4	9353.3	4615.9
125	242L1125	-	74.0	96.0	64.6	71.4	22.0	9333.8	5342.7
210	242L1210	-	71.0	103.0	64.0	71.1	21.9	9328.2	5009.9
206	242L1206	-	76.0	98.0	64.5	71.1	14.3	9314.5	3812.8
207	242L1207	-	76.0	103.0	65.3	71.2	19.3	9313.9	4627.4
334	242L1334	-	70.0	92.0	53.64	67.95	26.8	9268.2	3741.7
233	242L1233	-	71.0	94.0	62.0	71.1	26.9	9262.3	5050.0
109	242L1109	-	72.0	95.0	60.6	69.5	25.1	9257.0	5566.1
132	242L1132	-	72.0	96.0	61.9	70.2	20.0	9237.6	4486.4
185	242L1185	-	71.0	98.0	63.0	71.5	19.2	9233.5	4707.6
247	242L1247	-	70.0	96.0	61.2	71.8	28.7	9218.0	4241.0
41	242L1041	-	72.0	90.0	61.0	70.9	37.3	9215.6	4620.6
130	242L1130	-	72.0	93.0	59.9	69.5	30.4	9215.0	5132.8
274	242L1274	-	72.0	102.0	64.39	70.65	16.7	9207.2	3840.9
315	242L1315	-	71.0	97.0	57.8	68.95	28.1	9207.0	3611.0
316	242L1316	-	71.0	91.0	54.0	69.6	31.8	9199.2	4468.4
346	242L1346	-	71.0	94.0	56.8	70.7	38.2	9194.9	4373.6
163	242L1163	-	73.0	93.0	55.2	67.9	26.9	9179.1	5583.8
86	242L1086	-	71.0	99.0	62.6	71.6	27.4	9170.5	4629.8
280	242L1280	-	68.0	101.0	61.2	69.8	22.1	9148.1	4839.8
279	242L1279	-	72.0	97.0	60.6	69.8	20.2	9144.1	5075.1
186	242L1186	-	72.0	90.0	59.5	70.3	21.1	9123.0	5422.6
166	242L1166	-	72.0	89.0	59.7	70.4	20.7	9122.6	5135.2
292	242L1292	-	71.0	104.0	61.52	70.32	23.5	9120.3	4942.8
228	242L1228	-	74.0	90.0	61.3	70.6	21.1	9109.2	5128.5
154	242L1154	-	74.0	100.0	59.84	68.4	25.0	9106.3	3922.6
278	242L1278	-	72.0	99.0	56.0	68.9	26.2	9095.1	4638.8
187	242L1187	-	72.0	90.0	64.2	71.5	19.4	9077.8	4295.1
250	242L1250	-	71.0	82.0	53.0	69.3	27.8	9074.3	4902.4
149	242L1149	-	74.0	97.0	61.0	70.1	23.6	9072.1	5893.8

Continued.

Table 4. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
102	242L1102	-	73.0	98.0	64.8	71.3	22.2	9060.2	4028.5
318	242L1318	-	72.0	88.0	59.2	71.3	31.7	9053.1	4371.1
252	242L1252	-	70.0	98.0	54.61	69.68	28.3	9049.2	4231.9
272	242L1272	-	73.0	97.0	66.4	72.5	26.6	9036.8	5124.8
150	242L1150	-	76.0	107.0	62.2	70.2	15.0	9030.9	3488.6
4	242L1004	-	74.0	98.0	59	69.4	26.1	9024.0	4057.4
67	242L1067	-	72.0	88.0	56.7	68.7	23.3	9021.1	5212.4
151	242L1151	-	73.0	100.0	64.8	72.2	21.3	9018.9	4613.6
203	242L1203	-	70.0	100.0	63.8	71.4	27.7	9001.1	3999.0
303	242L1303	-	70.0	97.0	59.3	70.2	20.9	8990.8	3606.0
269	242L1269	-	71.0	95.0	64.5	72.2	26.5	8988.6	4440.2
157	242L1157	-	78.0	111.0	63.0	71.5	19.7	8970.9	3225.0
38	242L1038	-	72.0	91.0	68.1	73.6	25.9	8963.5	5581.8
106	242L1106	-	70.0	96.0	61.2	70.5	25.1	8952.4	4584.4
94	242L1094	-	71.0	103.0	57.5	70.7	26.0	8952.1	4614.2
324	242L1324	-	70.0	87.0	53.0	68.8	25.7	8946.1	4713.2
320	242L1320	-	71.0	91.0	50.9	67.99	37.5	8925.2	4522.3
307	242L1307	-	71.0	99.0	59.8	69.7	23.9	8922.2	5001.1
364	242L1364	-	72.0	101.0	64.5	71.9	29.7	8910.0	4721.6
124	242L1124	-	74.0	92.0	61.2	69.5	20.9	8905.4	5427.8
251	242L1251	-	72.0	93.0	62.6	72.3	23.2	8896.7	5621.5
188	242L1188	-	72.0	95.0	64.3	72.4	29.4	8883.7	4951.0
328	242L1328	-	73.0	102.0	62.2	70.5	22.2	8882.6	5281.9
111	242L1111	-	73.0	99.0	63.82	70.26	21.2	8882.3	4237.3
354	242L1354	-	75.0	97.0	62.6	69.9	24.8	8880.2	5301.5
180	242L1180	-	71.0	99.0	62.3	71.2	34.4	8879.3	4589.1
95	242L1095	-	74.0	97.0	55.9	69.8	18.9	8868.0	5081.9
321	242L1321	-	72.0	79.0	57.4	70.2	37.0	8859.0	4557.5
221	242L1221	-	73.0	99.0	67.92	73.34	24.2	8857.5	4860.9
107	242L1107	-	70.0	103.0	58.3	69.3	23.8	8854.9	5472.3
181	242L1181	-	71.0	92.0	63.9	71.6	22.8	8844.7	3740.9
84	242L1084	-	73.0	94.0	64.8	71.5	25.6	8829.0	5257.2
230	242L1230	-	72.0	82.0	48.6	68.1	32.8	8818.4	4516.7
98	242L1098	-	75.0	97.0	66.4	71.7	13.9	8813.1	4782.5
192	242L1192	-	71.0	97.0	57.34	69.98	36.0	8811.4	3519.3
298	242L1298	-	71.0	91.0	62.12	69.61	19.2	8810.5	4825.2
174	242L1174	-	73.0	98.0	62.3	71.2	34.3	8805.1	5181.6
323	242L1323	-	72.0	92.0	57.8	71.2	23.5	8789.8	5181.8
164	242L1164	-	74.0	88.0	60.2	69.0	19.9	8783.5	4651.5
317	242L1317	-	71.0	87.0	52.9	68.1	33.8	8770.2	4516.9
373	CLHA03	-	74.0	97.0	62.52	69.42	19.4	8759.9	3469.0
152	242L1152	-	72.0	98.0	59.0	69.7	25.8	8751.6	3801.7
302	242L1302	-	71.0	98.0	57.4	68.86	20.7	8740.5	3144.5
169	242L1169	-	74.0	103.0	53.2	67.4	31.4	8732.6	5478.2
184	242L1184	-	72.0	93.0	57.4	69.7	28.8	8707.0	4017.8
223	242L1223	-	72.0	90.0	67.1	73.2	17.3	8699.1	5704.7
266	242L1266	-	74.0	100.0	66.22	72.15	24.7	8691.8	3562.4
306	242L1306	-	72.0	92.0	62.1	70.7	25.0	8686.5	4170.8
145	242L1145	-	76.0	93.0	62.0	71.5	23.2	8680.8	4671.0
331	242L1331	-	72.0	90.0	61.91	72.92	25.6	8678.5	4574.1
291	242L1291	-	76.0	104.0	65.1	71.6	13.5	8677.3	7289.4

Continued.

Table 4. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
201	242L1201	-	76.0	101.0	64.9	72.0	16.6	8668.1	5118.9
123	242L1123	-	72.0	92.0	64.8	71.5	19.1	8664.3	3634.3
155	242L1155	-	74.0	103.0	67.7	72.67	19.5	8655.4	4380.6
76	242L1076	-	73.0	104.0	61.17	68.95	16.8	8652.7	4496.2
239	242L1239	-	76.0	98.0	60.8	69.3	19.9	8651.1	6449.2
300	242L1300	-	75.0	96.0	66.01	71.19	15.1	8650.9	4061.6
40	242L1040	-	69.0	97.0	53.3	70.5	31.7	8648.2	4963.5
167	242L1167	-	71.0	91.0	54.2	69.1	19.5	8641.2	3566.7
2	242L1002	-	76.0	102.0	63.9	70.8	13.2	8637.4	4734.0
311	242L1311	-	73.0	89.0	66.5	72.4	27.4	8625.4	5756.9
100	242L1100	-	75.0	94.0	60.7	70.5	25.9	8613.0	4603.2
281	242L1281	-	74.0	90.0	57.6	69.5	19.2	8607.1	5713.7
296	242L1296	-	71.0	101.0	60.7	70.2	24.6	8606.8	5655.8
7	242L1007	-	71.0	99.0	66.3	73.3	30.8	8580.0	5129.7
63	242L1063	-	76.0	106.0	63.3	69.6	17.9	8573.5	6080.9
222	242L1222	-	72.0	104.0	68.28	73.07	16.5	8559.9	5080.8
31	242L1031	-	71.0	91.0	48.9	67.2	43.6	8558.7	4522.1
301	242L1301	-	72.0	94.0	60.98	70.27	23.8	8558.3	4227.4
105	242L1105	-	72.0	98.0	64.1	71.6	23.0	8556.9	5498.6
191	242L1191	-	71.0	83.0	58.6	70.3	28.5	8547.0	3369.5
136	242L1136	-	74.0	98.0	66.3	72.1	14.3	8541.2	4009.8
295	242L1295	-	71.0	102.0	58.8	69.7	29.0	8539.9	4349.0
351	242L1351	-	71.0	93.0	56.7	68.8	17.0	8538.2	4556.9
110	242L1110	-	73.0	97.0	65.0	70.8	18.7	8537.1	4495.8
42	242L1042	-	72.0	94.0	62.51	69.74	23.0	8528.7	4615.1
258	242L1258	-	72.0	106.0	62.5	70.5	21.0	8522.5	4878.4
172	242L1172	-	72.0	100.0	65.7	73.1	20.7	8521.9	4096.8
160	242L1160	-	76.0	94.0	62.0	70.8	15.2	8500.9	5631.1
284	242L1284	-	72.0	96.0	59.4	69.8	24.7	8498.9	4630.5
213	242L1213	-	72.0	100.0	60.6	70.2	24.5	8487.5	4848.6
347	242L1347	-	72.0	87.0	59.5	70.2	33.2	8482.5	5519.8
362	242L1362	-	73.0	99.0	60.42	69.85	34.4	8471.7	4669.7
114	242L1114	-	73.0	103.0	62.5	70.1	18.2	8451.3	5150.6
141	242L1141	-	74.0	89.0	62.1	70.1	21.0	8448.6	3969.4
289	242L1289	-	75.0	90.0	63.6	71.1	21.9	8447.9	5780.7
104	242L1104	-	73.0	96.0	63.1	70.8	16.4	8446.3	5998.4
45	242L1045	-	71.0	94.0	62.3	70.77	11.8	8437.3	4604.2
139	242L1139	-	72.0	91.0	60.3	69.2	25.8	8436.5	4482.9
133	242L1133	-	76.0	101.0	67.2	73.0	20.8	8432.5	4367.9
97	242L1097	-	72.0	101.0	64.38	71.54	23.1	8428.6	4270.3
80	242L1080	-	71.0	99.0	58.2	69.1	32.7	8426.5	4181.8
49	242L1049	-	70.0	92.0	49.04	65	23.0	8422.7	4116.7
171	242L1171	-	69.0	96.0	63.16	71.41	18.5	8419.0	3414.1
229	242L1229	-	74.0	87.0	64.6	73.0	22.8	8418.3	4646.2
349	242L1349	-	76.0	100.0	64.52	71.06	31.0	8411.8	4878.7
268	242L1268	-	72.0	101.0	61.63	71.47	21.3	8403.7	3695.7
34	242L1034	-	75.0	91.0	62.9	70.9	23.0	8401.6	5323.8
326	242L1326	-	75.0	98.0	65.8	72.0	17.4	8399.9	4633.9
283	242L1283	-	73.0	90.0	56.2	68.23	33.1	8398.5	5545.1
183	242L1183	-	72.0	106.0	62.5	70.9	25.4	8393.2	4673.6
350	242L1350	-	72.0	96.0	58.7	69.5	26.3	8391.8	4993.8

Continued.

Table 4. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
66	242L1066	-	74.0	96.0	61.1	69.2	21.8	8391.7	4790.1
236	242L1236	-	76.0	92.0	61.0	69.9	22.1	8386.3	5638.8
216	242L1216	-	70.0	85.0	64.0	71.9	21.7	8365.7	4869.9
340	242L1340	-	72.0	97.0	58.58	69.34	38.5	8362.9	3946.2
327	242L1327	-	71.0	93.0	64.0	71.8	19.7	8362.8	3948.6
26	242L1026	-	75.0	101.0	54.2	67.2	39.9	8361.7	5100.7
369	242L1369	-	73.0	85.0	61.7	71.6	28.6	8361.1	5426.8
293	242L1293	-	72.0	97.0	55.6	69.8	25.3	8358.2	5088.1
358	242L1358	-	76.0	96.0	66.1	71.4	17.4	8350.2	5751.0
118	242L1118	-	72.0	95.0	58.9	70.5	19.4	8349.3	4750.6
368	242L1368	-	73.0	99.0	60.8	70.6	29.8	8338.9	5057.3
370	242L1370	-	72.0	90.0	56.8	69.9	37.2	8337.7	5056.0
257	242L1257	-	74.0	99.0	54.2	68.5	35.7	8337.4	5907.3
226	242L1226	-	74.0	97.0	66.4	72.2	16.1	8331.3	4562.3
3	242L1003	-	72.0	96.0	50.3	68.8	26.8	8330.5	2846.9
115	242L1115	-	72.0	98.0	57.4	68.3	27.7	8329.7	3829.9
225	242L1225	-	75.0	104.0	63.2	69.4	16.8	8319.6	5883.7
310	242L1310	-	72.0	78.0	56.3	69.8	25.7	8313.4	4903.5
235	242L1235	-	74.0	100.0	65.7	71.8	23.9	8312.7	4451.4
297	242L1297	-	72.0	91.0	62.2	70.5	25.4	8303.3	4507.9
242	242L1242	-	75.0	98.0	62.9	69.4	22.5	8301.2	5162.8
359	242L1359	-	72.0	105.0	61.0	69.7	25.7	8289.0	4396.7
162	242L1162	-	76.0	101.0	63.9	70.9	19.0	8288.3	5612.2
361	242L1361	-	75.0	109.0	61.6	70.1	23.2	8286.3	4657.4
286	242L1286	-	72.0	94.0	62.0	70.3	19.1	8283.7	4986.3
64	242L1064	-	72.0	94.0	59.3	70.1	27.9	8283.1	4063.1
332	242L1332	-	73.0	86.0	63.77	69.61	16.3	8278.2	4702.5
78	242L1078	-	75.0	104.0	65.7	71.0	23.3	8270.6	6375.8
248	242L1248	-	72.0	96.0	65.71	71.47	19.3	8268.3	4473.1
116	242L1116	-	75.0	93.0	65.7	71.7	23.7	8262.3	5169.1
208	242L1208	-	76.0	107.0	65.7	72.2	18.1	8256.3	6000.7
356	242L1356	-	73.0	104.0	64.4	70.7	19.2	8248.6	4154.8
341	242L1341	-	72.0	91.0	60.5	69.9	29.0	8248.1	5326.8
9	242L1009	-	72.0	99.0	60.1	70.1	24.9	8246.8	3945.9
345	242L1345	-	76.0	86.0	61.1	70.8	30.7	8243.9	4592.3
241	242L1241	-	72.0	98.0	62.2	69.3	20.3	8241.6	4635.4
129	242L1129	-	72.0	96.0	55.7	70.0	31.2	8240.6	4035.0
313	242L1313	-	72.0	87.0	59.4	70.0	23.5	8231.1	4322.6
99	242L1099	-	73.0	100.0	60.0	69.6	29.2	8229.6	5564.9
196	242L1196	-	75.0	98.0	67.3	72.4	21.9	8227.7	4952.6
357	242L1357	-	71.0	93.0	60.3	69.1	22.6	8220.8	5408.2
366	242L1366	-	74.0	99.0	62.9	71.2	28.7	8220.8	5201.5
338	242L1338	-	69.0	95.0	61.7	70.5	29.1	8212.1	3959.9
135	242L1135	-	76.0	94.0	64.06	69.99	18.6	8208.6	4186.6
212	242L1212	-	72.0	92.0	64.0	71.0	21.0	8199.2	4647.3
271	242L1271	-	72.0	99.0	64.98	70.04	24.0	8196.0	4168.2
143	242L1143	-	76.0	100.0	67.3	72.2	12.5	8195.2	5238.4
117	242L1117	-	71.0	97.0	59.1	69.4	24.2	8192.7	4708.9
215	242L1215	-	72.0	92.0	62.5	71.1	20.7	8192.0	4066.6
153	242L1153	-	74.0	88.0	66.8	72.1	19.8	8186.3	4753.0
73	242L1073	-	72.0	90.0	61.6	70.0	-	8184.9	3500.7

Continued.

Table 4. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
89	242L1089	-	72.0	96.0	60.4	71.5	22.4	8181.4	4906.8
32	242L1032	-	74.0	87.0	56.66	67.81	21.0	8161.4	4886.7
90	242L1090	-	76.0	86.0	65.9	72.3	15.5	8150.5	5558.7
330	242L1330	-	74.0	88.0	56.3	69.6	18.1	8148.4	4580.1
276	242L1276	-	72.0	101.0	61.0	70.2	21.8	8144.6	4266.2
244	242L1244	-	74.0	90.0	64.6	72.2	28.4	8143.0	5836.4
126	242L1126	-	75.0	91.0	61.6	71.0	20.2	8134.7	3535.6
209	242L1209	-	70.0	101.0	65.3	73.0	25.4	8131.1	4742.6
176	242L1176	-	69.0	96.0	56.59	70.64	34.7	8129.8	3646.4
195	242L1195	-	72.0	95.0	61.79	70.47	26.8	8129.4	4242.6
59	242L1059	-	72.0	95.0	63.9	72.1	17.2	8123.8	5377.4
270	242L1270	-	70.0	87.0	56.3	68.3	23.9	8117.9	4223.7
69	242L1069	-	76.0	97.0	66.0	71.2	20.0	8117.6	5591.6
85	242L1085	-	76.0	98.0	65.4	71.9	27.8	8116.3	5492.0
277	242L1277	-	71.0	103.0	59.98	70.71	23.1	8110.8	5037.7
48	242L1048	-	72.0	99.0	60.5	69.3	37.1	8109.4	4690.7
290	242L1290	-	75.0	94.0	57.7	69.4	20.7	8106.1	5982.4
352	242L1352	-	76.0	102.0	61.7	69.7	21.8	8097.8	5367.9
175	242L1175	-	72.0	90.0	53.0	68.9	32.6	8088.1	4605.9
325	242L1325	-	70.0	92.0	57.2	69.6	24.8	8082.1	4983.3
28	242L1028	-	76.0	95.0	62.5	70.1	18.7	8080.5	5536.3
140	242L1140	-	76.0	93.0	60.8	69.7	19.0	8080.0	5109.3
88	242L1088	-	72.0	102.0	62.9	71.7	20.9	8077.6	5281.9
287	242L1287	-	75.0	102.0	65.14	70.73	32.5	8076.8	4604.9
219	242L1219	-	71.0	84.0	62.6	70.9	17.2	8075.8	4662.5
367	242L1367	-	71.0	89.0	50.88	68.52	36.4	8074.3	3959.0
65	242L1065	-	76.0	88.0	64.3	70.4	18.1	8074.1	6594.3
342	242L1342	-	72.0	90.0	48.4	68.8	35.8	8072.3	4632.5
159	242L1159	-	73.0	92.0	64.4	71.0	18.5	8071.6	5447.3
20	242L1020	-	75.0	107.0	66.7	72.0	15.7	8065.6	5489.6
60	242L1060	-	71.0	102.0	54.6	69.7	22.2	8044.4	4321.0
339	242L1339	-	73.0	90.0	60.5	69.7	22.4	8044.0	4862.3
57	242L1057	-	72.0	96.0	63.7	71.4	24.4	8038.0	5038.3
128	242L1128	-	71.0	93.0	62.5	70.6	29.2	8028.6	4699.9
82	242L1082	-	74.0	107.0	66.8	73.5	15.2	8024.8	4312.6
363	242L1363	-	71.0	101.0	58.3	69.7	33.1	8018.1	3930.3
275	242L1275	-	72.0	100.0	61.2	70.2	20.7	8014.9	4335.5
308	242L1308	-	71.0	98.0	58.3	69.5	24.7	8009.2	4171.4
199	242L1199	-	72.0	103.0	65.94	72.32	24.4	8008.1	4088.7
182	242L1182	-	63.0	99.0	57.5	69.4	29.0	8002.6	4949.5
144	242L1144	-	72.0	102.0	64.3	70.9	20.6	8000.8	4219.1
214	242L1214	-	72.0	109.0	62.57	69.66	22.1	7995.0	3696.6
344	242L1344	-	71.0	91.0	47.7	65.4	27.5	7981.5	5248.7
336	242L1336	-	73.0	91.0	64.1	71.4	17.5	7967.9	4424.8
55	242L1055	-	72.0	86.0	63.9	69.6	14.2	7963.3	5072.6
16	242L1016	-	75.0	100.0	65.4	72.9	30.5	7960.8	4781.3
33	242L1033	-	76.0	99.0	62.6	70.7	19.8	7957.6	5485.0
6	242L1006	-	71.0	96.0	60.9	71.6	26.0	7956.5	4411.6
51	242L1051	-	72.0	104.0	54.0	67.9	23.8	7938.5	4220.9
211	242L1211	-	74.0	89.0	63.9	71.0	21.4	7936.3	4761.2
299	242L1299	-	73.0	94.0	56.5	68.7	21.3	7936.3	5698.7

Continued.

Table 4. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
1	242L1001	-	75.0	98.0	63.6	69.0	19.6	7929.9	4797.9
53	242L1053	-	76.0	100.0	66.6	71.3	13.7	7920.7	5280.9
71	242L1071	-	73.0	97.0	64.7	70.7	20.7	7907.9	5528.8
103	242L1103	-	72.0	99.0	61.7	71.63	26.0	7879.1	3861.4
12	242L1012	-	75.0	93.0	63.5	70.2	18.0	7872.1	4695.4
329	242L1329	-	73.0	94.0	63.2	70.7	19.3	7871.2	4223.1
91	242L1091	-	76.0	98.0	67	71.76	14.8	7869.2	4889.8
75	242L1075	-	75.0	93.0	62.1	70.0	15.9	7858.6	5149.9
22	242L1022	-	76.0	102.0	55.94	67.88	18.8	7854.1	4710.8
17	242L1017	-	74.0	97.0	63.0	70.9	25.1	7842.8	3836.3
30	242L1030	-	75.0	98.0	60.2	67.7	26.4	7837.8	4774.6
138	242L1138	-	70.0	95.0	61.79	69.99	14.9	7832.1	3659.5
92	242L1092	-	74.0	95.0	63.9	71.3	13.4	7824.2	5125.4
245	242L1245	-	75.0	97.0	67.09	71.99	19.7	7811.7	4724.9
112	242L1112	-	73.0	109.0	66.8	72.1	21.7	7809.8	5013.8
179	242L1179	-	73.0	93.0	69.5	73.6	12.0	7808.6	5212.3
260	242L1260	-	76.0	106.0	67.9	72.1	16.5	7783.6	4499.7
312	242L1312	-	73.0	93.0	64.2	71.9	18.6	7774.3	5086.0
198	242L1198	-	73.0	85.0	60.7	70.4	22.5	7770.2	5753.4
148	242L1148	-	76.0	90.0	62.36	70.69	22.2	7755.4	4836.7
58	242L1058	-	70.0	94.0	64.1	70.7	16.9	7745.3	4648.3
231	242L1231	-	75.0	101.0	65.3	71.3	23.3	7742.0	4989.4
238	242L1238	-	76.0	101.0	64.8	70.2	16.2	7721.5	6049.6
267	242L1267	-	76.0	89.0	66.5	72.0	21.9	7716.1	4217.7
204	242L1204	-	71.0	96.0	65.2	72.1	21.1	7715.4	4662.7
127	242L1127	-	73.0	96.0	61.6	71.0	17.3	7714.8	4002.6
121	242L1121	-	77.0	111.0	65.38	71.08	12.6	7713.4	4905.8
79	242L1079	-	74.0	102.0	65.3	71.5	20.0	7713.0	5053.3
161	242L1161	-	77.0	87.0	64.1	71.2	16.6	7706.2	5311.5
197	242L1197	-	75.0	108.0	65.7	71.5	21.3	7688.4	5555.3
120	242L1120	-	74.0	88.0	64.1	70.1	17.0	7656.5	4961.4
72	242L1072	-	72.0	101.0	62.0	70.9	17.7	7646.7	4125.3
25	242L1025	-	72.0	108.0	63.4	71.2	26.2	7641.2	4108.7
190	242L1190	-	72.0	88.0	62.9	71.2	25.6	7627.8	4699.2
273	242L1273	-	76.0	107.0	58.7	67.9	16.3	7625.5	5069.0
83	242L1083	-	75.0	94.0	63.4	69.91	21.6	7617.1	4120.4
227	242L1227	-	76.0	104.0	64.7	71.2	20.2	7607.6	4771.9
205	242L1205	-	73.0	110.0	64.7	71.2	21.7	7583.8	4425.8
11	242L1011	-	74.0	90.0	62.0	70.3	17.7	7578.9	3903.5
333	242L1333	-	75.0	94.0	66.21	72.11	19.8	7575.6	4454.2
81	242L1081	-	73.0	101.0	60.1	69.7	22.4	7573.4	4477.5
77	242L1077	-	72.0	103.0	59.0	70.0	20.7	7558.8	5390.2
360	242L1360	-	76.0	102.0	63.6	70.2	15.9	7524.6	4597.7
259	242L1259	-	76.0	103.0	68.8	72.3	14.9	7515.9	4919.6
263	242L1263	-	69.0	102.0	65.8	71.5	14.8	7510.4	4220.9
101	242L1101	-	77.0	100.0	64.2	70.9	18.1	7508.3	3377.4
353	242L1353	-	74.0	97.0	60.2	69.4	25.7	7502.5	4302.1
5	242L1005	-	75.0	93.0	61.7	70.3	19.0	7491.7	4329.6
337	242L1337	-	73.0	90.0	64.6	73.0	13.5	7489.7	4940.6
44	242L1044	-	72.0	106.0	65.05	71.06	26.2	7471.6	4702.2
47	242L1047	-	71.0	88.0	62.6	72.0	22.2	7468.4	4664.3

Continued.

Table 4. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
232	242L1232	-	74.0	91.0	62.8	70.7	21.0	7464.8	4856.6
8	242L1008	-	76.0	105.0	65.77	71.82	19.5	7463.8	4947.7
68	242L1068	-	72.0	84.0	60.9	69.7	15.5	7463.6	5578.8
173	242L1173	-	74.0	97.0	63.55	71.88	29.6	7453.8	4335.6
335	242L1335	-	73.0	98.0	61.5	70.58	31.3	7446.5	3377.0
119	242L1119	-	75.0	89.0	65.1	71.5	17.8	7402.1	4524.3
122	242L1122	-	74.0	97.0	66.7	71.9	13.1	7383.8	4336.0
35	242L1035	-	75.0	98.0	58.2	70.1	38.7	7381.2	5804.6
355	242L1355	-	73.0	92.0	56.0	68.3	21.0	7373.8	5535.4
348	242L1348	-	71.0	82.0	52.3	69.1	29.4	7359.5	4143.0
74	242L1074	-	74.0	101.0	63.8	71.7	21.4	7355.5	4160.8
200	242L1200	-	72.0	98.0	65.0	72.7	24.1	7336.2	4431.8
21	242L1021	-	74.0	108.0	53.3	70.2	14.5	7270.7	5027.9
264	242L1264	-	72.0	102.0	66.2	71.3	18.9	7267.8	4321.5
193	242L1193	-	75.0	92.0	62.4	70.0	23.1	7249.3	5169.2
220	242L1220	-	75.0	86.0	66.08	71.91	19.4	7248.7	4602.3
240	242L1240	-	77.0	104.0	63.51	70.37	16.3	7247.5	4803.5
218	242L1218	-	74.0	88.0	67.1	72.5	12.0	7240.1	5146.1
113	242L1113	-	76.0	89.0	66.0	71.8	17.8	7227.6	5668.3
309	242L1309	-	74.0	83.0	62.5	71.0	15.6	7227.1	5025.8
23	242L1023	-	74.0	104.0	64.8	71.18	23.4	7218.7	4288.2
365	242L1365	-	73.0	96.0	60.1	70.1	30.6	7212.4	4278.6
158	242L1158	-	78.0	93.0	65.5	73.0	21.5	7190.3	2215.4
62	242L1062	-	76.0	101.0	62.8	70.5	15.7	7188.0	5765.4
288	242L1288	-	72.0	91.0	68.0	73.3	26.5	7180.9	5472.2
262	242L1262	-	72.0	109.0	66.0	71.6	13.6	7177.0	4377.5
137	242L1137	-	76.0	94.0	60.8	70.2	25.7	7167.8	3798.3
36	242L1036	-	72.0	90.0	56.3	68.2	23.0	7157.7	5143.3
46	242L1046	-	72.0	100.0	56.8	70.1	18.2	7156.9	5891.6
56	242L1056	-	77.0	115.0	64.4	71.0	10.5	7133.2	5528.8
13	242L1013	-	73.0	100.0	62.4	70.3	26.6	7116.5	4573.0
168	242L1168	-	73.0	90.0	60.66	70.17	29.1	7115.1	4139.9
70	242L1070	-	74.0	90.0	62.9	70.2	31.7	7092.8	4606.8
39	242L1039	-	73.0	90.0	58.2	70.0	29.7	7074.8	4346.8
177	242L1177	-	76.0	99.0	67.7	72.9	13.6	7036.0	5030.9
61	242L1061	-	76.0	98.0	67.8	72.2	10.6	7016.9	5294.6
19	242L1019	-	71.0	105.0	55.85	69.79	21.8	6995.7	3024.6
87	242L1087	-	76.0	102.0	63.01	69.81	13.8	6987.0	4912.8
18	242L1018	-	75.0	101.0	66.57	72.78	30.8	6966.6	4226.2
246	242L1246	-	72.0	87.0	60.8	70.5	24.7	6963.5	5383.6
249	242L1249	-	72.0	91.0	63.1	70.5	25.9	6932.9	5096.6
202	242L1202	-	75.0	97.0	67.7	72.9	15.5	6913.9	5962.5
294	242L1294	-	75.0	95.0	60.9	69.6	21.5	6902.8	6090.4
178	242L1178	-	76.0	94.0	61.4	70.7	17.3	6899.7	6185.6
43	242L1043	-	73.0	104.0	54.67	67.2	21.4	6898.0	4671.9
237	242L1237	-	77.0	88.0	64.1	70.5	17.9	6889.3	5194.2
254	242L1254	-	76.0	101.0	66.02	71.18	17.3	6885.4	4669.0
243	242L1243	-	76.0	100.0	67.45	71.72	14.6	6881.6	5027.5
147	242L1147	-	78.0	98.0	63.3	71.5	17.3	6873.5	4678.1
343	242L1343	-	76.0	81.0	51.9	67.54	26.8	6793.3	4592.9
253	242L1253	-	75.0	95.0	64.9	70.3	13.0	6701.4	5556.8

Continued.

Table 4. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
285	242L1285	-	76.0	92.0	61.6	70.0	26.6	6625.6	5607.6
256	242L1256	-	76.0	98.0	64.6	70.4	17.2	6534.9	4428.3
37	242L1037	-	76.0	92.0	63.54	70.4	18.9	6519.7	4247.5
134	242L1134	-	74.0	78.0	62.0	70.2	15.8	6511.5	3662.9
54	242L1054	-	76.0	102.0	65.64	70.36	11.5	6472.5	4322.7
261	242L1261	-	74.0	99.0	61.2	69.6	17.2	6456.2	4707.6
217	242L1217	-	78.0	100.0	68.25	72.85	20.0	6450.1	4732.2
142	242L1142	-	76.0	100.0	69.0	73.1	16.4	6446.8	5144.0
189	242L1189	-	72.0	93.0	56.5	66.3	20.8	6315.0	4600.2
93	242L1093	-	75.0	80.0	68.4	72.4	17.6	6287.9	4887.3
224	242L1224	-	72.0	93.0	64.2	70.8	16.2	6190.5	3697.5
14	242L1014	-	74.0	99.0	64.3	71.7	17.1	6158.5	4353.8
146	242L1146	-	76.0	82.0	64.5	72.1	15.0	6151.9	4911.4
15	242L1015	-	75.0	91.0	65.4	71.8	17.6	6041.5	4221.9
52	242L1052	-	77.0	101.0	66.1	71.7	13.2	6019.4	4367.7
234	242L1234	-	74.0	91.0	66.2	71.5	15.5	5732.9	4973.8
255	242L1255	-	76.0	94.0	63.77	70.2	17.3	5655.1	4536.3
24	242L1024	-	76.0	117.0	65.9	72.1	26.6	5608.8	4571.4
29	242L1029	-	76.0	99.0	64.9	70.7	14.5	5327.5	4972.4

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 5. Grain and milling yields and agronomic performance of entries in the 2024 Clearfield Preliminary Yield Medium-Grain trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
125	242M1125	-	99.0	134.0	61.9	67.0	9.8	12133.7	2364.0
128	242M1128	-	97.0	106.0	64.6	68.3	9.1	12034.6	3773.7
138	242M1138	-	100.0	118.0	51.5	67.7	16.9	11901.3	3102.9
8	242M1008	-	94.0	106.0	62.3	65.9	13.6	11893.9	2821.2
114	242M1114	-	99.0	126.0	60.3	65.0	8.3	11803.6	1960.2
105	242M1105	-	97.0	102.0	61.5	66.7	13.4	11659.6	1765.1
113	242M1113	-	97.0	115.0	63.0	66.9	9.7	11643.5	2792.0
135	242M1135	-	100.0	109.0	63.5	68.7	7.5	11643.1	3166.9
130	242M1130	-	97.0	112.0	63.6	67.9	11.3	11590.4	2646.1
127	242M1127	-	97.0	119.0	64.4	68.0	13.5	11519.3	3771.9
43	242M1043	-	96.0	117.0	61.0	66.5	15.1	11491.6	2927.0
129	242M1129	-	97.0	113.0	61.9	66.5	13.2	11445.5	2723.0
17	242M1017	-	100.0	118.0	62.4	67.0	10.9	11434.6	3210.3
115	242M1115	-	99.0	116.0	63.1	68.5	14.9	11215.8	1380.5
149	CLM05	-	97.0	114.0	56.8	63.5	13.4	11195.9	3874.5
97	242M1097	-	97.0	126.0	58.1	65.5	17.7	11189.2	2837.4
133	242M1133	-	98.0	113.0	65.6	68.5	7.9	11166.1	2973.5
144	242M1144	-	95.0	117.0	60.4	67.2	16.5	11154.4	1993.6
148	CLM04	-	98.0	113.0	65.7	69.1	10.5	11149.1	2370.8
81	242M1081	-	96.0	110.0	57.7	63.9	8.4	11132.6	2486.0
146	242M1146	-	97.0	108.0	64.1	68.9	6.7	11132.6	2170.3
52	242M1052	-	98.0	115.0	67.5	71.9	9.7	11124.1	2828.0
141	242M1141	-	94.0	101.0	59.8	65.5	11.0	11109.4	2667.0
137	242M1137	-	98.0	106.0	63.8	68.3	12.8	11104.4	2788.8
118	242M1118	-	97.0	118.0	59.6	64.7	8.3	11082.5	3019.5
122	242M1122	-	98.0	115.0	60.1	66.0	15.3	11067.0	2067.6
123	242M1123	-	98.0	113.0	62.9	66.9	10.3	11063.8	3419.1
119	242M1119	-	98.0	111.0	57.6	64.7	10.3	11037.3	2303.1
74	242M1074	-	95.0	106.0	60.7	67.3	14.0	11005.9	2758.5
24	242M1024	-	98.0	105.0	59.2	65.1	8.2	11003.8	3495.2
59	242M1059	-	95.0	119.0	63.4	67.2	7.8	10947.5	2873.3
18	242M1018	-	100.0	118.0	62.0	67.0	12.6	10931.4	3004.5
19	242M1019	-	101.0	107.0	59.9	65.7	10.4	10930.0	2666.2
143	242M1143	-	95.0	107.0	58.2	65.2	10.6	10896.1	2025.7
111	242M1111	-	96.0	104.0	54.5	63.8	11.5	10883.3	2251.4
120	242M1120	-	97.0	109.0	62.2	66.3	10.2	10882.7	2594.7
16	242M1016	-	100.0	110.0	63.0	66.4	11.3	10856.0	3100.5
142	242M1142	-	96.0	114.0	58.9	66.5	8.7	10855.7	2532.7
145	242M1145	-	96.0	111.0	59.0	65.9	8.6	10851.4	3334.3
68	242M1068	-	98.0	103.0	64.7	68.6	8.4	10749.0	2944.1
95	242M1095	-	96.0	105.0	55.3	62.8	22.5	10728.3	1638.4
94	242M1094	-	97.0	103.0	58.5	64.8	12.9	10720.8	2430.1
117	242M1117	-	97.0	113.0	62.5	66.4	7.2	10714.1	2926.8
124	242M1124	-	100.0	118.0	62.9	67.8	14.1	10671.6	4022.7
22	242M1022	-	97.0	110.0	58.1	64.1	11.2	10668.4	3427.4
82	242M1082	-	94.0	104.0	63.5	68.0	13.6	10653.5	2152.9
134	242M1134	-	99.0	103.0	60.4	66.3	14.5	10644.8	3111.5
140	242M1140	-	96.0	104.0	60.1	65.6	11.2	10634.7	2096.8
28	242M1028	-	94.0	117.0	65.9	69.6	11.1	10600.3	3295.6
53	242M1053	-	97.0	112.0	62.9	68.0	8.2	10593.2	3857.9

Continued.

Table 5. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
40	242M1040	-	98.0	112.0	59.3	64.3	10.2	10589.9	2910.4
132	242M1132	-	98.0	105.0	63.4	67.2	15.4	10587.0	3608.7
72	242M1072	-	94.0	106.0	55.1	62.9	16.4	10583.7	2254.1
6	242M1006	-	96.0	125.0	63.2	67.0	9.0	10577.1	2946.6
31	242M1031	-	100.0	111.0	62.5	66.1	6.0	10569.2	3909.7
131	242M1131	-	98.0	111.0	62.4	67.0	8.0	10562.9	2928.4
65	242M1065	-	97.0	99.0	65.0	69.1	17.2	10546.0	3299.5
45	242M1045	-	97.0	108.0	63.8	68.6	8.9	10525.5	3209.3
126	242M1126	-	98.0	108.0	61.2	66.5	10.5	10516.4	2758.1
51	242M1051	-	97.0	109.0	59.5	66.0	10.6	10508.5	3043.3
20	242M1020	-	101.0	105.0	64.8	67.8	9.2	10506.8	3101.5
9	242M1009	-	97.0	110.0	59.7	66.5	14.8	10501.6	1678.1
90	242M1090	-	97.0	96.0	61.8	67.4	12.3	10467.6	2178.4
69	242M1069	-	96.0	112.0	60.4	66.3	12.5	10444.4	3030.6
71	242M1071	-	95.0	106.0	59.0	64.9	13.8	10435.5	2577.8
84	242M1084	-	94.0	114.0	57.9	65.0	12.7	10429.5	2996.9
54	242M1054	-	96.0	102.0	59.2	65.9	10.2	10369.8	3656.7
98	242M1098	-	98.0	119.0	62.6	67.3	19.5	10347.7	3000.4
56	242M1056	-	97.0	107.0	57.2	63.2	12.5	10342.0	3126.4
23	242M1023	-	97.0	112.0	59.6	66.3	11.9	10323.1	2903.5
34	242M1034	-	98.0	110.0	62.9	68.1	12.8	10313.5	3367.2
14	242M1014	-	100.0	114.0	65.0	68.6	11.6	10307.3	3351.3
5	242M1005	-	98.0	117.0	61.1	66.1	11.4	10302.8	2922.7
150	212M1144	-	97.0	125.0	59.3	65.6	15.0	10290.0	3079.7
25	242M1025	-	98.0	111.0	61.1	65.8	10.1	10275.9	2249.3
48	242M1048	-	99.0	104.0	56.4	64.0	7.1	10275.0	3350.2
13	242M1013	-	97.0	112.0	64.2	68.0	7.4	10235.3	3594.8
4	242M1004	-	97.0	119.0	59.7	65.2	14.6	10226.8	2871.2
55	242M1055	-	98.0	114.0	64.9	69.0	10.5	10224.2	2511.7
30	242M1030	-	96.0	102.0	57.5	63.7	14.6	10222.6	3294.0
57	242M1057	-	100.0	108.0	65.1	68.3	7.6	10203.3	3553.1
136	242M1136	-	100.0	105.0	55.3	64.5	13.5	10149.3	3482.3
36	242M1036	-	100.0	111.0	64.3	67.9	8.3	10133.4	3334.6
39	242M1039	-	96.0	115.0	61.0	66.3	13.8	10105.7	2705.9
42	242M1042	-	94.0	116.0	63.8	67.1	13.8	10105.7	2884.8
37	242M1037	-	96.0	112.0	62.9	67.3	9.5	10105.0	3077.7
108	242M1108	-	94.0	109.0	52.3	62.0	19.2	10090.3	2691.1
116	242M1116	-	97.0	108.0	61.4	66.2	10.2	10033.8	2206.4
33	242M1033	-	98.0	108.0	60.7	65.5	8.6	9991.9	2773.7
21	242M1021	-	99.0	109.0	61.3	66.3	6.7	9974.7	3115.9
29	242M1029	-	95.0	121.0	63.0	68.1	11.9	9973.0	3117.9
67	242M1067	-	97.0	109.0	61.4	65.7	10.9	9966.5	2439.5
58	242M1058	-	96.0	112.0	62.3	66.9	9.6	9957.8	3596.8
60	242M1060	-	98.0	107.0	62.0	65.9	8.5	9873.1	3061.9
86	242M1086	-	96.0	101.0	56.1	63.2	5.7	9868.0	2782.1
38	242M1038	-	98.0	114.0	60.2	64.6	15.4	9858.9	2993.5
32	242M1032	-	99.0	109.0	65.6	69.4	6.8	9855.7	2942.1
62	242M1062	-	97.0	117.0	63.2	68.3	7.1	9850.2	3688.2
147	242M1147	-	96.0	111.0	58.6	66.3	9.3	9847.7	2523.7
70	242M1070	-	96.0	112.0	59.2	65.2	9.1	9842.9	2672.2
104	242M1104	-	97.0	109.0	59.4	65.4	9.8	9810.8	2480.3

Continued.

Table 5. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
61	242M1061	-	100.0	116.0	63.9	67.8	8.5	9804.2	2952.1
92	242M1092	-	97.0	103.0	54.6	64.0	19.9	9788.2	2668.9
121	242M1121	-	97.0	100.0	58.6	65.7	11.1	9753.3	2808.4
102	242M1102	-	96.0	111.0	63.2	68.6	7.5	9712.0	1752.8
73	242M1073	-	97.0	106.0	62.3	66.7	6.2	9694.2	2661.3
7	242M1007	-	96.0	109.0	61.6	67.6	14.5	9654.5	3513.2
89	242M1089	-	94.0	106.0	57.6	65.6	15.0	9624.7	2260.6
139	242M1139	-	96.0	102.0	58.8	66.7	8.0	9607.7	2286.9
12	242M1012	-	95.0	108.0	65.9	69.1	9.5	9598.8	2839.2
27	242M1027	-	96.0	98.0	57.5	63.6	10.7	9589.3	3191.7
110	242M1110	-	96.0	113.0	55.5	63.8	7.2	9569.9	2325.6
107	242M1107	-	98.0	103.0	61.1	65.7	4.5	9537.7	2253.1
83	242M1083	-	91.0	117.0	56.2	66.4	13.4	9535.8	2696.7
106	242M1106	-	97.0	108.0	59.5	65.9	14.5	9464.3	2842.1
85	242M1085	-	96.0	102.0	59.5	65.3	6.1	9453.9	2159.2
75	242M1075	-	94.0	118.0	58.2	65.5	8.7	9389.3	2275.2
41	242M1041	-	97.0	118.0	62.3	67.3	14.6	9387.3	3151.5
87	242M1087	-	88.0	105.0	58.4	64.6	13.7	9383.5	2927.0
11	242M1011	-	97.0	116.0	60.1	65.5	7.9	9373.9	2705.3
88	242M1088	-	94.0	96.0	59.6	66.1	13.2	9363.2	1785.4
91	242M1091	-	94.0	120.0	60.6	66.7	11.5	9358.9	1878.5
66	242M1066	-	97.0	111.0	63.2	67.2	12.3	9355.3	2655.4
64	242M1064	-	100.0	104.0	65.8	68.9	7.1	9316.1	4477.6
109	242M1109	-	96.0	113.0	56.8	65.2	11.8	9277.0	3299.9
15	242M1015	-	94.0	119.0	62.9	67.5	9.9	9216.0	2369.7
50	242M1050	-	96.0	107.0	61.4	67.1	14.6	9212.6	3481.8
63	242M1063	-	101.0	91.0	63.4	67.6	7.0	9138.9	2913.0
35	242M1035	-	99.0	106.0	62.1	67.8	13.2	8974.1	3368.9
44	242M1044	-	97.0	90.0	60.0	65.9	8.8	8876.2	3128.0
112	242M1112	-	94.0	107.0	56.0	64.3	17.9	8848.6	2759.4
49	242M1049	-	96.0	96.0	58.9	66.6	11.5	8775.9	2335.8
10	242M1010	-	92.0	110.0	60.5	67.1	9.8	8755.4	3344.0
101	242M1101	-	95.0	102.0	62.2	67.9	19.6	8749.9	1910.3
96	242M1096	-	98.0	103.0	58.6	65.9	19.2	8698.7	2761.9
99	242M1099	-	94.0	112.0	63.9	69.5	14.8	8680.2	3115.2
26	242M1026	-	96.0	112.0	61.0	65.0	8.4	8634.5	3084.3
103	242M1103	-	94.0	119.0	60.8	66.7	11.0	8547.9	1504.0
76	242M1076	-	94.0	108.0	34.2	60.9	21.9	8470.9	2011.9
1	242M1001	-	93.0	108.0	60.0	67.2	8.7	8296.5	2556.5
93	242M1093	-	92.0	108.0	61.3	67.4	23.5	8277.1	2667.4
2	242M1002	-	94.0	108.0	53.8	63.2	16.7	8274.7	2873.7
78	242M1078	-	90.0	106.0	54.8	65.9	15.2	8236.6	1486.7
47	242M1047	-	96.0	100.0	61.5	66.6	12.2	8197.9	2873.9
3	242M1003	-	95.0	111.0	61.1	66.9	7.9	8073.1	3425.0
46	242M1046	-	97.0	107.0	60.7	66.5	10.7	8042.5	2719.8
79	242M1079	-	92.0	103.0	46.2	59.1	16.4	8034.5	1838.5
80	242M1080	-	93.0	103.0	58.4	64.2	8.7	7991.2	2467.0
100	242M1100	-	92.0	99.0	57.0	64.4	15.8	7945.6	2031.5
77	242M1077	-	92.0	116.0	37.3	61.3	18.6	7294.2	1812.2

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 6. Grain and milling yields and agronomic performance of entries in the 2024 Clearfield Preliminary Yield Medium-Grain trial – Late Planting, H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
105	242M1105	-	77.0	97.0	59.5	68.7	9.8	11238.5	3600.9
52	242M1052	-	74.0	103.0	62.7	70.3	7.2	11065.5	6520.7
6	242M1006	-	76.0	103.0	40.1	66.4	9.5	10887.9	4704.0
84	242M1084	-	74.0	90.0	37.8	65.8	12.2	10684.0	4411.3
140	242M1140	-	74.0	102.0	56.6	66.3	8.3	10537.9	3285.0
125	242M1125	-	78.0	116.0	52.0	67.7	8.0	10537.6	4189.2
142	242M1142	-	75.0	90.0	46.4	68.3	5.0	10441.1	3419.6
83	242M1083	-	74.0	102.0	44.6	67.2	3.5	10408.3	5395.8
74	242M1074	-	74.0	103.0	46.0	68.5	7.3	10386.5	3658.9
118	242M1118	-	76.0	111.0	60.7	67.7	8.5	10385.6	2659.7
17	242M1017	-	80.0	103.0	62.0	67.9	2.6	10374.5	4631.2
8	242M1008	-	74.0	105.0	51.1	67.2	11.5	10367.8	3557.5
138	242M1138	-	79.0	110.0	56.4	67.8	7.8	10361.1	2231.7
146	242M1146	-	75.0	97.0	63.2	70.5	4.4	10284.7	5383.6
92	242M1092	-	73.0	101.0	43.0	65.7	8.3	10166.3	3357.0
145	242M1145	-	76.0	99.0	52.2	67.0	6.4	10144.4	4421.9
113	242M1113	-	77.0	103.0	51.5	66.3	3.2	10133.0	2437.9
95	242M1095	-	74.0	94.0	49.7	63.9	11.4	10131.6	3400.4
72	242M1072	-	76.0	99.0	51.6	66.5	13.8	10128.2	4230.2
141	242M1141	-	73.0	95.0	58.2	69.5	4.1	10119.1	3568.2
18	242M1018	-	79.0	103.0	58.8	67.0	8.9	10106.7	4543.5
129	242M1129	-	77.0	107.0	44.0	67.6	5.5	10031.1	3303.2
143	242M1143	-	75.0	97.0	55.1	68.5	5.2	10008.3	3547.0
69	242M1069	-	76.0	99.0	46.0	66.2	3.6	9976.7	2581.6
130	242M1130	-	76.0	107.0	59.2	68.7	6.6	9816.7	3480.9
39	242M1039	-	77.0	108.0	55.9	67.1	9.9	9803.2	4021.8
114	242M1114	-	78.0	107.0	57.7	69.8	1.9	9801.2	2610.3
31	242M1031	-	80.0	101.0	61.7	68.7	5.6	9779.7	5645.9
108	242M1108	-	74.0	99.0	39.0	64.9	11.7	9721.5	4483.4
128	242M1128	-	78.0	101.0	59.3	69.4	3.9	9701.0	4054.5
144	242M1144	-	75.0	102.0	50.5	66.8	5.5	9698.7	3910.0
122	242M1122	-	76.0	102.0	54.7	68.4	12.7	9671.4	3219.5
115	242M1115	-	79.0	107.0	50.0	66.9	6.9	9660.5	1051.7
135	242M1135	-	80.0	99.0	58.0	69.6	2.7	9653.1	4340.0
134	242M1134	-	80.0	110.0	57.2	67.5	10.3	9643.3	2597.0
120	242M1120	-	77.0	104.0	55.9	69.1	3.3	9608.9	3714.9
70	242M1070	-	77.0	104.0	54.0	67.7	3.8	9532.1	3649.2
46	242M1046	-	77.0	97.0	62.6	70.3	4.9	9513.8	3563.9
4	242M1004	-	77.0	102.0	51.8	67.3	12.4	9511.1	4611.7
148	CLM04	-	78.0	109.0	63.4	69.9	5.5	9503.8	2750.7
147	242M1147	-	76.0	94.0	55.9	67.6	6.2	9484.5	4127.7
149	CLM05	-	78.0	99.0	41.8	64.4	5.9	9477.0	3519.3
44	242M1044	-	77.0	99.0	62.0	69.5	5.0	9462.9	5378.3
13	242M1013	-	76.0	95.0	66.5	72.3	1.5	9460.4	5596.9
88	242M1088	-	74.0	96.0	44.4	66.5	4.3	9448.2	3628.9
14	242M1014	-	79.0	104.0	60.7	67.8	4.1	9426.9	5578.5
132	242M1132	-	77.0	104.0	60.4	68.0	11.5	9419.6	4548.5
111	242M1111	-	75.0	92.0	46.1	65.4	7.0	9415.4	3067.0
99	242M1099	-	73.0	96.0	43.9	65.7	6.2	9400.0	3502.4
107	242M1107	-	76.0	98.0	57.7	68.4	4.2	9363.0	3380.6

Continued.

Table 6. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
48	242M1048	-	78.0	93.0	66.0	71.1	2.9	9340.7	5532.0
22	242M1022	-	76.0	95.0	58.1	66.4	7.1	9325.3	5548.6
10	242M1010	-	72.0	106.0	56.2	69.4	6.0	9313.1	3901.0
87	242M1087	-	69.0	91.0	34.9	64.2	6.7	9284.8	3393.7
23	242M1023	-	76.0	103.0	56.7	66.8	4.3	9259.6	4852.0
81	242M1081	-	76.0	87.0	47.9	66.6	8.2	9221.0	3438.6
62	242M1062	-	78.0	101.0	59.4	69.3	5.9	9217.7	4645.1
19	242M1019	-	79.0	94.0	61.5	68.2	6.5	9202.3	4620.4
75	242M1075	-	74.0	94.0	45.7	68.3	3.5	9175.5	2903.4
51	242M1051	-	76.0	100.0	53.1	66.1	5.0	9140.8	5495.9
20	242M1020	-	79.0	98.0	61.9	68.0	4.1	9120.4	4402.7
53	242M1053	-	74.0	102.0	60.2	69.7	4.6	9101.5	5655.7
139	242M1139	-	74.0	91.0	44.6	66.7	10.6	9100.9	3794.6
123	242M1123	-	78.0	101.0	58.6	68.0	4.0	9054.2	3709.8
73	242M1073	-	78.0	103.0	57.1	66.9	1.3	9036.4	3262.6
68	242M1068	-	80.0	107.0	55.3	68.9	2.8	9019.9	4471.0
106	242M1106	-	76.0	91.0	49.3	66.8	5.6	8998.3	4539.5
7	242M1007	-	75.0	93.0	50.2	67.6	7.8	8982.9	4095.9
136	242M1136	-	80.0	97.0	50.1	66.6	14.2	8978.9	5284.8
37	242M1037	-	76.0	99.0	59.8	70.4	6.1	8970.3	4741.0
131	242M1131	-	78.0	109.0	53.7	69.4	8.9	8956.3	3584.6
94	242M1094	-	77.0	92.0	57.9	67.6	11.6	8954.2	3724.4
45	242M1045	-	77.0	94.0	58.5	68.0	2.6	8930.2	5137.3
137	242M1137	-	79.0	105.0	56.6	69.2	4.4	8929.2	2726.0
64	242M1064	-	80.0	87.0	60.8	68.8	4.1	8918.0	6183.0
59	242M1059	-	77.0	101.0	59.0	70.0	4.1	8917.1	3223.3
97	242M1097	-	77.0	102.0	52.6	66.4	10.0	8911.7	3987.7
124	242M1124	-	80.0	98.0	54.2	67.7	6.3	8909.0	4989.4
54	242M1054	-	75.0	93.0	60.7	68.9	7.4	8895.1	4621.2
16	242M1016	-	80.0	102.0	61.4	67.7	6.9	8893.8	4535.4
91	242M1091	-	74.0	88.0	56.7	68.1	7.4	8893.6	3413.2
50	242M1050	-	78.0	93.0	58.6	69.2	7.0	8871.1	4366.0
63	242M1063	-	79.0	88.0	61.9	69.4	2.2	8853.3	5317.9
90	242M1090	-	76.0	87.0	55.7	68.6	4.5	8845.5	3377.8
33	242M1033	-	78.0	89.0	64.5	70.2	4.6	8840.0	5038.8
112	242M1112	-	74.0	88.0	49.0	65.3	14.0	8824.2	3231.8
61	242M1061	-	79.0	94.0	61.7	68.2	4.2	8803.3	4933.8
117	242M1117	-	78.0	112.0	54.5	68.3	9.8	8796.9	3131.9
104	242M1104	-	76.0	94.0	57.0	66.9	3.8	8786.7	3180.4
67	242M1067	-	77.0	104.0	57.1	68.3	3.3	8766.2	4049.9
89	242M1089	-	75.0	92.0	50.6	66.5	6.8	8762.9	3213.1
41	242M1041	-	78.0	100.0	58.8	69.2	4.9	8716.0	4829.3
47	242M1047	-	77.0	95.0	57.7	68.7	8.6	8690.9	4693.1
127	242M1127	-	78.0	104.0	54.8	68.0	5.1	8675.8	3235.7
71	242M1071	-	71.0	96.0	41.3	66.8	8.9	8667.2	3782.3
119	242M1119	-	80.0	100.0	56.3	68.0	7.3	8659.7	3091.8
49	242M1049	-	74.0	92.0	58.1	67.8	7.9	8620.8	4001.1
116	242M1116	-	78.0	98.0	53.1	68.1	8.5	8605.3	2128.1
110	242M1110	-	75.0	91.0	53.6	67.7	7.9	8605.2	3696.3
30	242M1030	-	75.0	97.0	68.0	68.1	8.4	8596.1	4940.2
60	242M1060	-	78.0	94.0	61.6	69.3	5.0	8579.8	4270.6

Continued.

Table 6. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
43	242M1043	-	76.0	98.0	44.6	65.1	7.7	8540.9	4488.9
9	242M1009	-	76.0	104.0	54.4	66.6	6.5	8480.2	4745.6
109	242M1109	-	74.0	94.0	42.9	65.4	10.2	8400.8	4672.2
82	242M1082	-	76.0	93.0	49.5	66.4	8.4	8379.8	3216.5
28	242M1028	-	75.0	104.0	51.0	67.6	4.8	8370.1	4496.0
150	212M1144	-	77.0	101.0	50.8	66.1	11.4	8352.4	4308.2
40	242M1040	-	78.0	95.0	54.5	67.8	2.8	8344.3	4176.5
58	242M1058	-	77.0	103.0	55.9	67.5	7.0	8319.9	4147.2
133	242M1133	-	77.0	99.0	43.3	66.1	7.0	8298.0	5224.5
65	242M1065	-	76.0	96.0	53.2	68.7	4.2	8256.1	3803.6
55	242M1055	-	76.0	100.0	54.7	69.3	3.4	8219.5	3928.5
32	242M1032	-	79.0	95.0	59.9	68.1	2.5	8209.1	3234.0
36	242M1036	-	78.0	90.0	63.3	68.7	9.6	8184.0	5788.1
42	242M1042	-	76.0	102.0	60.2	68.9	8.9	8158.1	4643.6
56	242M1056	-	77.0	98.0	63.5	69.5	5.7	8141.6	4431.8
27	242M1027	-	77.0	93.0	43.4	65.6	11.7	8107.6	3970.0
24	242M1024	-	78.0	92.0	56.9	66.1	5.2	8072.9	4918.7
34	242M1034	-	77.0	87.0	61.4	69.0	2.1	8034.0	4904.7
66	242M1066	-	76.0	90.0	63.3	70.3	3.9	8012.6	4493.2
76	242M1076	-	73.0	87.0	30.8	63.5	23.0	8011.7	2512.2
29	242M1029	-	75.0	99.0	61.7	69.5	7.1	8010.7	4793.8
86	242M1086	-	78.0	83.0	56.2	66.7	2.7	7990.4	4703.3
79	242M1079	-	72.0	85.0	43.6	64.4	9.2	7987.5	2076.3
15	242M1015	-	70.0	102.0	61.7	69.4	6.4	7919.6	4423.2
126	242M1126	-	78.0	96.0	55.6	69.2	10.3	7912.9	2554.3
85	242M1085	-	77.0	93.0	46.8	67.0	7.8	7710.2	3820.4
121	242M1121	-	75.0	86.0	45.2	66.5	7.5	7703.9	4801.4
57	242M1057	-	79.0	97.0	63.2	69.8	9.7	7637.9	4049.6
1	242M1001	-	67.0	99.0	40.3	68.4	5.7	7596.8	4145.8
35	242M1035	-	78.0	95.0	60.8	69.2	5.8	7564.5	3716.8
102	242M1102	-	77.0	99.0	58.0	69.0	4.7	7532.0	2845.6
38	242M1038	-	78.0	104.0	56.1	67.9	10.8	7513.8	4215.8
101	242M1101	-	72.0	97.0	45.3	67.7	7.2	7479.3	2574.4
26	242M1026	-	78.0	90.0	59.9	67.0	3.3	7450.9	4682.0
78	242M1078	-	69.0	95.0	27.5	66.0	9.2	7415.4	2216.6
77	242M1077	-	71.0	105.0	24.6	61.4	15.2	7215.6	2214.2
80	242M1080	-	70.0	83.0	27.0	65.0	12.8	7211.2	3142.7
96	242M1096	-	78.0	89.0	57.3	67.0	9.8	7161.4	3918.0
5	242M1005	-	79.0	104.0	48.4	64.9	11.6	7147.8	4201.3
21	242M1021	-	78.0	100.0	56.4	68.4	3.5	7137.1	4599.4
100	242M1100	-	72.0	91.0	33.6	64.0	10.9	7112.4	2275.4
2	242M1002	-	69.0	101.0	32.4	65.2	16.3	7103.4	4895.8
3	242M1003	-	72.0	109.0	54.4	67.5	7.4	7042.0	5437.0
25	242M1025	-	78.0	104.0	45.8	66.4	5.7	6864.5	5514.4
11	242M1011	-	76.0	103.0	55.7	67.7	8.6	6841.4	4095.9
103	242M1103	-	75.0	101.0	55.1	69.3	13.3	6816.6	2329.4
12	242M1012	-	76.0	96.0	51.7	68.6	3.0	6539.1	4970.1
93	242M1093	-	70.0	92.0	37.7	66.5	11.3	5779.3	2759.9
98	242M1098	-	77.0	95.0	59.8	68.1	10.2	-	3736.2

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

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 30 oz (2x rate) on April 14 and May 2 to the PVPYL and PVPYL-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 in order of descending yield (lb/A).

Table 1. Planting and harvesting dates for the 2024 Provisia Preliminary Yield trials.

Location	Trial	Planting	Harvesting
HRCRRS	PVPYL	2/27	7/28
	PVPYL – Late Planting	3/28	8/1

Table 2. Entry number, pedigree, grain type, and source information for entries in the 2024 Provisia Preliminary Yield trial.

Herbicide Type*	Entry	Line	Pedigree	Grain Type†	Source‡
PV	1	243L1001	RU2002150/PVL01	LG	LAES
PV	2	243L1002	PVL03/AddiJo	HI	LAES
PV	3	243L1003	PVL03/AddiJo	HI	LAES
PV	4	243L1004	PVL03/AddiJo	HI	LAES
PV	5	243L1005	RU2002174/RU2002217	LG	LAES
PV	6	243L1006	RU2002174/RU2002217	LG	LAES
PV	7	243L1007	RU2002174/RU2002217	LG	LAES
PV	8	243L1008	PVL03/Cheniere	LG	LAES
PV	9	243L1009	PVL03/Cheniere	LG	LAES
PV	10	243L1010	PVL03/Cheniere	LG	LAES
PV	11	243L1011	PVL03/Cheniere	LG	LAES
PV	12	243L1012	PVL03/PVL01	LG	LAES
PV	13	243L1013	CLL19/RU2002178	LG	LAES
PV	14	243L1014	RU2002178/RU1901121	LG	LAES
PV	15	243L1015	RU2002178/RU1901121	LG	LAES
PV	16	243L1016	RU2002178/RU1901121	LG	LAES
PV	17	243L1017	RU2002178/RU1901121	LG	LAES
PV	18	243L1018	PVL03/CLL19	LG	LAES
PV	19	243L1019	PVL03/CLL19	LG	LAES
PV	20	243L1020	CLL19/RU2002070	LG	LAES
PV	21	243L1021	CLL19/RU2002070	LG	LAES
PV	22	243L1022	CLL19/RU2002070	LG	LAES
PV	23	243L1023	CLL19/RU2002070	LG	LAES
PV	24	243L1024	CLL19/RU2002070	LG	LAES
PV	25	243L1025	RU2002174/RU1602195	LG	LAES
PV	26	243L1026	CL111/183L2070	LG	LAES
PV	27	243L1027	CL111/183L2070	LG	LAES
PV	28	243L1028	CL111/183L2070	LG	LAES
PV	29	243L1029	CL111/183L2070	LG	LAES
PV	30	243L1030	CL111/183L2070	LG	LAES
PV	31	243L1031	CL111/183L2070	LG	LAES
PV	32	243L1032	PVL03/RU2002174	LG	LAES
PV	33	243L1033	PVL03/RU2002174	LG	LAES
PV	34	243L1034	PVL03/RU2002174	LG	LAES
PV	35	243L1035	PVL03/RU2002174	LG	LAES
PV	36	243L1036	PVL03/RU2002174	LG	LAES
PV	37	243L1037	RU2002070/RU2002178	LG	LAES
PV	38	243L1038	RU2002070/RU2002178	LG	LAES
PV	39	243L1039	RU2002070/PVL03	LG	LAES
PV	40	243L1040	RU2002070/PVL03	LG	LAES
PV	41	243L1041	RU2002070/PVL03	LG	LAES
PV	42	243L1042	RU2002070/PVL03	LG	LAES
PV	43	243L1043	RU2002070/PVL03	LG	LAES
PV	44	243L1044	RU2002070/PVL03	LG	LAES
PV	45	243L1045	RU2002070/PVL03	LG	LAES
PV	46	243L1046	PVL01/AddiJo	HI	LAES
PV	47	243L1047	RU2002070/AddiJo	HI	LAES
PV	48	243L1048	RU2002070/AddiJo	HI	LAES
PV	49	243L1049	RU2002070/AddiJo	HI	LAES

Continued.

Table 2. Continued.

Herbicide Type*	Entry	Line	Pedigree	Grain Type†	Source‡
PV	50	243L1050	RU2002070/RU2002122	HI	LAES
PV	51	243L1051	RU2002070/RU2002122	HI	LAES
PV	52	243L1052	RU2002070/RU2002122	HI	LAES
PV	53	243L1053	RU2002070/RU2002122	HI	LAES
PV	54	243L1054	RU2002070/RU2002122	HI	LAES
PV	55	243L1055	Avant/RU2002170	LG	LAES
PV	56	243L1056	Avant/RU2002170	LG	LAES
PV	57	243L1057	Avant/RU2002170	LG	LAES
PV	58	243L1058	RU2002178/RU2002222	LG	LAES
PV	59	243L1059	RU2002178/RU2002222	LG	LAES
PV	60	243L1060	RU2002178/RU2002222	LG	LAES
PV	61	243L1061	PVL03/RU2002222	LG	LAES
PV	62	243L1062	PVL03/RU2002222	LG	LAES
PV	63	243L1063	PVL03/RU2002222	LG	LAES
PV	64	243L1064	PVL03/RU2002222	LG	LAES
PV	65	243L1065	PVL03/RU2002222	LG	LAES
PV	66	243L1066	RU2002070/RU2002232	LG	LAES
PV	67	243L1067	RU2002070/RU2002232	LG	LAES
PV	68	243L1068	RU2002070/RU2002232	LG	LAES
PV	69	243L1069	RU2002070/RU2002232	LG	LAES
PV	70	243L1070	RU2002070/RU2002232	LG	LAES
PV	71	243L1071	RU2002070/RU2002232	LG	LAES
PV	72	243L1072	RU2002070/RU2002232	LG	LAES
PV	73	243L1073	RU2002070/RU2002232	LG	LAES
PV	74	243L1074	RU2002070/RU2002232	LG	LAES
PV	75	243L1075	RU2002070/RU2002232	LG	LAES
PV	76	243L1076	RU2002178/RU1702140	LG	LAES
PV	77	243L1077	RU2002178/RU1702140	LG	LAES
PV	78	243L1078	RU2002178/RU1702140	LG	LAES
PV	79	243L1079	RU2002178/RU1702140	LG	LAES
PV	80	243L1080	RU2002178/RU1702140	LG	LAES
PV	81	243L1081	RU2002178/RU1702140	LG	LAES
PV	82	243L1082	RU2002178/RU1702140	LG	LAES
PV	83	243L1083	RU2002178/RU1702140	LG	LAES
PV	84	243L1084	RU2002178/RU1702140	LG	LAES
PV	85	243L1085	191L1056/RU2002174	LG	LAES
PV	86	243L1086	191L1056/RU2002174	LG	LAES
PV	87	243L1087	191L1056/RU2002174	LG	LAES
PV	88	243L1088	191L1056/RU2002174	LG	LAES
PV	89	243L1089	191L1056/RU2002174	LG	LAES
PV	90	243L1090	191L1056/RU2002174	LG	LAES
PV	91	243L1091	191L1056/RU2002174	LG	LAES
PV	92	243L1092	191L1056/RU2002174	LG	LAES
PV	93	243L1093	RU2002066/RU1702140	LG	LAES
PV	94	243L1094	RU2002190/PVL01	LG	LAES
PV	95	243L1095	RU2002190/PVL01	LG	LAES
PV	96	243L1096	RU2002190/PVL01	LG	LAES
PV	97	243L1097	19T262-F2-P3/RU2002150	LG	LAES
PV	98	243L1098	19T262-F2-P3/RU2002150	LG	LAES
PV	99	243L1099	19T262-F2-P3/RU2002150	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type*	Entry	Line	Pedigree	Grain Type†	Source‡
PV	100	243L1100	19T262-F2-P3/RU2002150	LG	LAES
PV	101	243L1101	PVL01/RU2002232	LG	LAES
PV	102	243L1102	PVL01/RU2002232	LG	LAES
PV	103	243L1103	PVL01/RU2002232	LG	LAES
PV	104	243L1104	PVL01/RU2002232	LG	LAES
PV	105	243L1105	19T262-F2-P2/RU2002232	LG	LAES
PV	106	243L1106	19T262-F2-P2/RU2002232	LG	LAES
PV	107	243L1107	19T262-F2-P1/RU1902207	LG	LAES
PV	108	243L1108	19T262-F2-P1/RU1902207	LG	LAES
PV	109	243L1109	19T262-F2-P1/RU1902207	LG	LAES
PV	110	243L1110	19T262-F2-P1/RU1902207	LG	LAES
PV	111	243L1111	19T262-F2-P1/RU2002217	LG	LAES
PV	112	243L1112	19T262-F2-P1/RU2002217	LG	LAES
PV	113	243L1113	19T262-F2-P1/RU2002217	LG	LAES
PV	114	243L1114	19T262-F2-P1/RU2002217	LG	LAES
PV	115	243L1115	19T262-F2-P1/RU2002217	LG	LAES
PV	116	243L1116	RU2002174/RU1902207	LG	LAES
PV	117	243L1117	RU2002174/RU1902207	LG	LAES
PV	118	243L1118	RU2002174/RU1902207	LG	LAES
PV	119	243L1119	RU2002174/RU1902207	LG	LAES
PV	120	243L1120	RU2002174/RU1902207	LG	LAES
PV	121	243L1121	PVL03/RU2002232	LG	LAES
PV	122	243L1122	PVL03/RU2002232	LG	LAES
PV	123	243L1123	PVL03/RU2002232	LG	LAES
PV	124	243L1124	PVL03/RU2002232	LG	LAES
PV	125	243L1125	PVL03/RU2002232	LG	LAES
PV	126	243L1126	PVL03/RU2002232	LG	LAES
PV	127	243L1127	PVL03/RU2002232	LG	LAES
PV	128	243L1128	PVL03/RU2002232	LG	LAES
PV	129	243L1129	PVL03/RU2002232	LG	LAES
PV	130	243L1130	Catahoula/19T262-F2-P1	LG	LAES
PV	131	243L1131	Catahoula/19T262-F2-P1	LG	LAES
PV	132	243L1132	Catahoula/19T262-F2-P1	LG	LAES
PV	133	243L1133	Catahoula/19T262-F2-P1	LG	LAES
PV	134	243L1134	Catahoula/19T262-F2-P1	LG	LAES
PV	135	243L1135	Catahoula/19T262-F2-P1	LG	LAES
PV	136	243L1136	Catahoula/19T262-F2-P1	LG	LAES
PV	137	243L1137	Catahoula/19T262-F2-P1	LG	LAES
PV	138	243L1138	Catahoula/19T262-F2-P1	LG	LAES
PV	139	243L1139	Catahoula/19T262-F2-P1	LG	LAES
PV	140	243L1140	Catahoula/19T262-F2-P1	LG	LAES
PV	141	243L1141	RU2002070/20DGL2131	HI	LAES
PV	142	243L1142	RU2002070/20DGL2131	HI	LAES
PV	143	243L1143	RU2002070/20DGL2131	HI	LAES
PV	144	243L1144	RU2002070/20DGL2131	HI	LAES
PV	145	243L1145	RU2002070/20DGL2131	HI	LAES
PV	146	243L1146	RU2002070/20DGL2131	HI	LAES
PV	147	243L1147	RU2002070/20DGL2131	HI	LAES
PV	148	243L1148	RU2002070/20DGL2131	HI	LAES
PV	149	243L1149	20DGL2131/PVL03	HI	LAES

Continued.

Table 2. Continued.

Herbicide Type*	Entry	Line	Pedigree	Grain Type†	Source‡
PV	150	243L1150	20DGL2131/PVL03	HI	LAES
PV	151	243L1151	20DGL2131/PVL03	HI	LAES
PV	152	243L1152	20DGL2131/PVL03	HI	LAES
PV	153	243L1153	20DGL2131/PVL03	HI	LAES
PV	154	243L1154	20DGL2131/PVL03	HI	LAES
PV	155	243L1155	20DGL2131/PVL03	HI	LAES
PV	156	243L1156	20DGL2131/PVL03	HI	LAES
PV	157	243L1157	20DGL2131/PVL03	HI	LAES
PV	158	243L1158	193L1099/20DGL2056	LG	LAES
PV	159	243L1159	193L1099/20DGL2056	LG	LAES
PV	160	243L1160	193L1099/20DGL2056	LG	LAES
PV	161	243L1161	193L1099/20DGL2056	LG	LAES
PV	162	243L1162	193L1099/20DGL2056	LG	LAES
PV	163	243L1163	193L1099/20DGL2056	LG	LAES
PV	164	243L1164	BBC05-1/203L1001	LG	LAES
PV	165	243L1165	BBC05-1/203L1001	LG	LAES
PV	166	243L1166	BBC05-1/203L1001	LG	LAES
PV	167	243L1167	BBC05-1/203L1001	LG	LAES
PV	168	243L1168	BBC05-1/203L1001	LG	LAES
PV	169	243L1169	BBC05-1/203L1001	LG	LAES
PV	170	243L1170	BBC05-1/203L1001	LG	LAES
PV	171	243L1171	BBC14-2/203L1001	LG	LAES
PV	172	243L1172	BBC14-2/203L1001	LG	LAES
PV	173	243L1173	BBC14-2/203L1001	LG	LAES
PV	174	243L1174	BBC14-2/203L1001	LG	LAES
PV	175	243L1175	BBC14-2/203L1001	LG	LAES
PV	176	243A1176	RU2002174/Fitzgerald	AL	LAES
PV	177	243A1177	RU2002174/Fitzgerald	AL	LAES
PV	178	243A1178	RU2002174/Fitzgerald	AL	LAES
PV	179	243A1179	RU2002174/Fitzgerald	AL	LAES
PV	180	243A1180	RU2002174/Fitzgerald	AL	LAES
PV	181	243A1181	RU2002174/Fitzgerald	AL	LAES
PV	182	243A1182	RU2002174/Fitzgerald	AL	LAES
PV	183	243A1183	RU2002174/Fitzgerald	AL	LAES
PV	184	243A1184	RU2002174/Fitzgerald	AL	LAES
PV	185	243A1185	RU2002174/Fitzgerald	AL	LAES
PV	186	243A1186	RU2002174/Fitzgerald	AL	LAES
PV	187	243A1187	RU2002174/Fitzgerald	AL	LAES
PV	188	243A1188	RU2002174/Fitzgerald	AL	LAES
PV	189	243A1189	RU2002174/Fitzgerald	AL	LAES
PV	190	243A1190	RU2002174/Fitzgerald	AL	LAES
PV	191	243A1191	RU2002174/Fitzgerald	AL	LAES
PV	192	243A1192	RU2002174/Fitzgerald	AL	LAES
PV	193	243L1193	AddiJo/203L1053	HI	LAES
PV	194	243L1194	AddiJo/203L1053	HI	LAES
PV	195	243L1195	AddiJo/203L1053	HI	LAES
PV	196	243L1196	AddiJo/203L1053	HI	LAES
PV	197	243L1197	AddiJo/203L1053	HI	LAES
PV	198	243L1198	AddiJo/203L1053	HI	LAES
PV	199	243L1199	AddiJo/203L1053	HI	LAES

Continued.

Table 2. Continued.

Herbicide Type*	Entry	Line	Pedigree	Grain Type†	Source‡
PV	200	243L1200	AddiJo/203L1053	HI	LAES
PV	201	243L1201	AddiJo/203L1053	HI	LAES
PV	202	243L1202	RU2102158/RU2002070	HI	LAES
PV	203	243L1203	RU2102158/RU2002070	HI	LAES
PV	204	243L1204	RU2102158/RU2002070	HI	LAES
PV	205	243L1205	RU2102158/RU2002070	HI	LAES
PV	206	243L1206	RU2102158/RU2002070	HI	LAES
PV	207	243L1207	RU2102158/RU2002070	HI	LAES
PV	208	243L1208	RU2102158/RU2002070	HI	LAES
PV	209	243L1209	RU2102158/RU2002070	HI	LAES
PV	210	243L1210	AddiJo/193L2012	HI	LAES
PV	211	243L1211	AddiJo/193L2012	HI	LAES
PV	212	243L1212	AddiJo/193L2012	HI	LAES
PV	213	243L1213	AddiJo/193L2012	HI	LAES
PV	214	243L1214	AddiJo/193L2012	HI	LAES
PV	215	243L1215	AddiJo/193L2012	HI	LAES
PV	216	243L1216	203L1001/AddiJo	HI	LAES
PV	217	243L1217	203L1001/AddiJo	HI	LAES
PV	218	243L1218	203L1001/AddiJo	HI	LAES
PV	219	243L1219	203L1001/AddiJo	HI	LAES
PV	220	243L1220	203L1001/AddiJo	HI	LAES
PV	221	243L1221	203L1001/RU2102158	HI	LAES
PV	222	243L1222	203L1001/RU2102158	HI	LAES
PV	223	243L1223	203L1001/RU2102158	HI	LAES
PV	224	243L1224	203L1001/RU2102158	HI	LAES
PV	225	243L1225	203L1001/RU2102158	HI	LAES
PV	226	243L1226	203L1053/Avant	HI	LAES
PV	227	243L1227	203L1053/Avant	HI	LAES
PV	228	243L1228	203L1053/Avant	HI	LAES
PV	229	243L1229	203L1053/Avant	HI	LAES
PV	230	243L1230	203L1053/Avant	HI	LAES
PV	231	243L1231	203L1053/Avant	HI	LAES
PV	232	243L1232	RU2002070/191L2066	HI	LAES
PV	233	243L1233	RU2002070/191L2066	HI	LAES
PV	234	243L1234	RU2002070/191L2066	HI	LAES
PV	235	243L1235	RU2002070/191L2066	HI	LAES
PV	236	243L1236	RU2002070/191L2066	HI	LAES
PV	237	243L1237	RU2002070/191L2066	HI	LAES
PV	238	243L1238	RU2002070/191L2066	HI	LAES
PV	239	243L1239	RU2002070/191L2066	HI	LAES
PV	240	243L1240	RU2002070/191L2066	HI	LAES
PV	241	243L1241	RU2002070/191L2066	HI	LAES
PV	242	243L1242	RU2002070/191L2066	HI	LAES
PV	243	243L1243	RU2002070/191L2066	HI	LAES
PV	244	243L1244	RU2002070/191L2066	HI	LAES
PV	245	243L1245	RU2002070/191L2066	HI	LAES
PV	246	243L1246	191L2066/RU2002174	HI	LAES
PV	247	243L1247	191L2066/RU2002174	HI	LAES
PV	248	243L1248	191L2066/RU2002174	HI	LAES
PV	249	243L1249	191L2066/RU2002174	HI	LAES

Continued.

Table 2. Continued.

Herbicide Type*	Entry	Line	Pedigree	Grain Type†	Source‡
PV	250	243L1250	191L2066/RU2002174	HI	LAES
PV	251	243L1251	191L2066/RU2002174	HI	LAES
PV	252	243L1252	191L2066/RU2002174	HI	LAES
PV	253	243L1253	191L2066/RU2002174	HI	LAES
PV	254	243L1254	191L2066/RU2002174	HI	LAES
PV	255	243L1255	191L2066/RU2002174	HI	LAES
PV	256	243L1256	191L2066/RU2002174	HI	LAES
PV	257	243L1257	191L2066/RU2002174	HI	LAES
PV	258	243L1258	191L2066/RU2002174	HI	LAES
PV	259	243L1259	191L2066/RU2002174	HI	LAES
PV	260	243L1260	RU1902207/193L2052	LG	LAES
PV	261	243L1261	RU1902207/193L2052	LG	LAES
PV	262	243L1262	RU1902207/193L2052	LG	LAES
PV	263	243L1263	RU1902207/193L2052	LG	LAES
PV	264	243L1264	RU1902207/193L2052	LG	LAES
PV	265	243L1265	193L2012/RU1902207	LG	LAES
PV	266	243L1266	193L2012/RU1902207	LG	LAES
PV	267	243L1267	193L2012/RU1902207	LG	LAES
PV	268	243L1268	193L2012/RU1902207	LG	LAES
PV	269	243L1269	193L2012/RU1902207	LG	LAES
PV	270	243L1270	193L2012/RU1902207	LG	LAES
PV	271	243L1271	193L2012/RU1902207	LG	LAES
PV	272	243L1272	203L1001/RU1902207	LG	LAES
PV	273	243L1273	203L1001/RU1902207	LG	LAES
PV	274	243L1274	203L1001/RU1902207	LG	LAES
PV	275	243L1275	203L1001/RU1902207	LG	LAES
PV	276	243L1276	203L1001/RU1902207	LG	LAES
PV	277	243L1277	203L1001/RU1902207	LG	LAES
PV	278	243L1278	203L1001/RU1902207	LG	LAES
PV	279	243L1279	203L1001/RU1902207	LG	LAES
PV	280	243L1280	RU2002066/Avant	LG	LAES
PV	281	243L1281	RU2002066/Avant	LG	LAES
PV	282	243L1282	RU1902207/193L1099	LG	LAES
PV	283	243L1283	RU1902207/193L1099	LG	LAES
PV	284	243L1284	RU1902207/193L1099	LG	LAES
PV	285	243L1285	RU1902207/193L1099	LG	LAES
PV	286	243L1286	193L1099/RU2002150	LG	LAES
PV	287	243L1287	193L1099/RU2002150	LG	LAES
PV	288	243L1288	193L1099/RU2002150	LG	LAES
PV	289	243L1289	193L1099/RU2002150	LG	LAES
PV	290	243L1290	193L1099/RU2002150	LG	LAES
PV	291	243L1291	PVL03/191L2066	LG	LAES
PV	292	243L1292	PVL03/191L2066	LG	LAES
PV	293	243L1293	PVL03/191L2066	LG	LAES
PV	294	243L1294	PVL03/191L2066	LG	LAES
PV	295	243L1295	PVL03/191L2066	LG	LAES
PV	296	243L1296	PVL03/191L2066	LG	LAES
PV	297	243L1297	PVL03/191L2066	LG	LAES
PV	298	243L1298	PVL03/191L2066	LG	LAES
PV	299	243L1299	PVL03/191L2066	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type*	Entry	Line	Pedigree	Grain Type†	Source‡
PV	300	243L1300	PVL03/191L2066	LG	LAES
PV	301	243L1301	PVL03/191L2066	LG	LAES
PV	302	243L1302	PVL03/191L2066	LG	LAES
PV	303	243L1303	PVL03/191L2066	LG	LAES
PV	304	243L1304	PVL03/191L2066	LG	LAES
PV	305	243L1305	PVL03/191L2066	LG	LAES
PV	306	243L1306	PVL03/191L2066	LG	LAES
PV	307	243L1307	203L1001/RU2002182	LG	LAES
PV	308	243L1308	203L1001/RU2002182	LG	LAES
PV	309	243L1309	203L1001/RU2002182	LG	LAES
PV	310	243L1310	203L1001/RU2002182	LG	LAES
PV	311	243L1311	RU2102186/201L1288	HI	LAES
PV	312	243L1312	RU2102186/201L1288	HI	LAES
PV	313	243L1313	RU2102186/201L1288	HI	LAES
PV	314	243L1314	RU2102186/201L1288	HI	LAES
PV	315	243L1315	RU2102186/201L1288	HI	LAES
PV	316	243L1316	RU2102186/201L1288	HI	LAES
PV	317	243L1317	RU2102186/201L1288	HI	LAES
PV	318	243L1318	RU2102186/201L1288	HI	LAES
PV	319	243L1319	RU2102186/201L1288	HI	LAES
PV	320	243L1320	RU2102186/201L1288	HI	LAES
PV	321	243L1321	RU2102186/201L1288	HI	LAES
PV	322	243L1322	RU2102186/201L1288	HI	LAES
PV	323	243L1323	RU2102186/201L1288	HI	LAES
PV	324	243L1324	RU2102186/201L1288	HI	LAES
PV	325	243L1325	RU2102186/201L1288	HI	LAES
PV	326	243L1326	RU2102186/201L1288	HI	LAES
PV	327	243L1327	RU2102186/201L1288	HI	LAES
PV	328	243L1328	RU2102186/201L1288	HI	LAES
PV	329	243L1329	RU2102186/201L1288	HI	LAES
PV	330	243L1330	203L1177/201L1288	LG	LAES
PV	331	243L1331	203L1177/201L1288	LG	LAES
PV	332	243L1332	203L1177/201L1288	LG	LAES
PV	333	243L1333	203L1177/201L1288	LG	LAES
PV	334	243L1334	203L1177/201L1288	LG	LAES
PV	335	243L1335	203L1177/201L1288	LG	LAES
PV	336	243L1336	203L1177/201L1288	LG	LAES
PV	337	243L1337	203L1177/201L1288	LG	LAES
PV	338	243L1338	203L1177/201L1288	LG	LAES
PV	339	243L1339	203L1177/201L1288	LG	LAES
PV	340	243L1340	203L1177/201L1288	LG	LAES
PV	341	243L1341	203L1177/201L1288	LG	LAES
PV	342	243L1342	203L1177/201L1288	LG	LAES
PV	343	243L1343	PVL03/201L1251	LG	LAES
PV	344	243L1344	PVL03/201L1251	LG	LAES
PV	345	243L1345	PVL03/201L1251	LG	LAES
PV	346	243L1346	PVL03/201L1251	LG	LAES
PV	347	243L1347	PVL03/201L1251	LG	LAES
PV	348	243L1348	PVL03/201L1251	LG	LAES
PV	349	243L1349	PVL03/201L1251	LG	LAES

Continued.

Table 2. Continued.

Herbicide Type*	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
PV	350	243L1350	PVL03/201L1251	LG	LAES
PV	351	243L1351	PVL03/201L1251	LG	LAES
PV	352	243L1352	PVL03/201L1251	LG	LAES
PV	353	243L1353	PVL03/201L1251	LG	LAES
PV	354	243L1354	PVL03/201L1251	LG	LAES
PV	355	243L1355	PVL03/201L1251	LG	LAES
PV	356	PVL03	PVL01/Catahoula	LG	LAES
PV	357	PVL04	18SIT0557/RU2201021-BC2	HI	AAES
PV	358	213L1130	PVL01/Catahoula	LG	LAES
PV	359	213L1140	PVL01/Catahoula	LG	LAES
PV	360	213L1041	PVL03/RU1902194	LG	LAES

* Herbicide Type – Clearfield (CL), Conventional (CN), Provisia (PV), Segregating (Seg).

[†] 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 2024 Provisia Preliminary Yield Long-Grain trial. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
7	243L1007	-	98.0	105.0	61.3	71.0	23.7	11264.1	2334.6
202	243L1202	-	98.0	100.0	-	-	-	11017.0	3136.3
249	243L1249	-	97.0	115.0	-	-	-	10977.5	2214.3
11	243L1011	-	99.0	107.0	-	-	-	10922.3	2866.6
315	243L1315	-	97.0	104.0	-	-	-	10921.6	2688.2
301	243L1301	-	98.0	103.0	55.1	68.4	35.5	10898.8	2452.6
267	243L1267	-	95.0	105.0	65.1	71.8	30.8	10898.7	4070.2
326	243L1326	-	96.0	104.0	-	-	-	10878.6	3354.7
204	243L1204	-	95.0	108.0	47.8	65.0	28.3	10843.8	3184.7
128	243L1128	-	99.0	99.0	-	-	-	10842.3	3610.1
262	243L1262	-	98.0	100.0	62.9	70.6	26.7	10840.4	3457.5
208	243L1208	-	96.0	102.0	43.8	63.8	23.0	10829.3	3004.0
82	243L1082	-	98.0	104.0	64.4	72.1	34.8	10826.4	2619.8
295	243L1295	-	98.0	105.0	60.9	68.5	30.3	10816.3	3501.2
115	243L1115	-	99.0	105.0	62.0	70.2	25.3	10813.0	4011.7
206	243L1206	-	95.0	100.0	49.8	67.4	33.6	10800.4	3281.9
73	243L1073	-	98.0	102.0	-	-	-	10779.3	3155.2
352	243L1352	-	98.0	96.0	52.2	67.2	28.6	10750.0	3372.4
349	243L1349	-	99.0	102.0	-	-	-	10739.6	3304.6
345	243L1345	-	98.0	100.0	-	-	-	10735.8	3288.2
271	243L1271	-	97.0	100.0	62.3	70.5	31.5	10722.3	3907.3
294	243L1294	-	99.0	108.0	55.4	67.8	39.9	10697.5	3139.9
258	243L1258	-	98.0	107.0	55.1	69.1	26.3	10666.2	3468.9
212	243L1212	-	97.0	109.0	44.6	63.7	35.8	10664.0	4009.9
263	243L1263	-	96.0	99.0	-	-	-	10659.9	4499.1
97	243L1097	-	96.0	103.0	54.9	65.6	26.2	10634.4	2979.8
18	243L1018	-	97.0	105.0	53.1	66.6	33.5	10603.1	2858.8
331	243L1331	-	96.0	101.0	-	-	-	10579.6	3802.2
342	243L1342	-	99.0	97.0	-	-	-	10576.6	4780.9
148	243L1148	-	97.0	105.0	53.7	66.7	21.3	10576.4	2822.8
141	243L1141	-	96.0	102.0	57.3	69.6	33.6	10558.6	3850.4
112	243L1112	-	96.0	107.0	63.0	70.0	17.0	10558.4	3651.5
198	243L1198	-	99.0	109.0	56.8	68.9	20.3	10536.1	3340.4
47	243L1047	-	98.0	96.0	-	-	-	10523.5	2037.7
29	243L1029	-	98.0	105.0	59.8	69.3	29.4	10520.8	4039.8
351	243L1351	-	99.0	100.0	58.5	68.9	30.4	10518.8	3216.3
320	243L1320	-	94.0	100.0	-	-	-	10470.5	3307.9
234	243L1234	-	98.0	105.0	55.6	68.3	23.6	10469.6	3020.4
332	243L1332	-	98.0	103.0	46.1	65.2	33.7	10465.1	3019.5
25	243L1025	-	98.0	111.0	-	-	-	10458.6	2807.5
52	243L1052	-	95.0	103.0	54.4	69.2	28.3	10456.2	2733.7
37	243L1037	-	99.0	105.0	56.9	68.9	37.4	10452.2	2986.1
19	243L1019	-	98.0	95.0	-	-	-	10451.0	2837.5
360	213L1041	-	96.0	109.0	54.9	66.8	23.2	10449.5	3316.7
74	243L1074	-	98.0	105.0	-	-	-	10434.0	3561.4
257	243L1257	-	97.0	111.0	-	-	-	10428.7	2221.7
304	243L1304	-	99.0	113.0	-	-	-	10425.9	2988.3
3	243L1003	-	98.0	100.0	58.3	70.2	31.4	10418.7	3070.3
232	243L1232	-	97.0	106.0	-	-	-	10418.2	3112.6
318	243L1318	-	98.0	108.0	-	-	-	10412.2	3140.0

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
359	213L1140	-	99.0	101.0	-	-	-	10407.6	2518.1
266	243L1266	-	96.0	105.0	-	-	-	10405.1	3690.2
145	243L1145	-	97.0	107.0	58.0	68.6	27.7	10401.2	2867.8
238	243L1238	-	99.0	110.0	-	-	-	10388.9	2910.9
353	243L1353	-	98.0	100.0	-	-	-	10387.1	3304.8
348	243L1348	-	98.0	105.0	55.1	68.0	26.0	10386.1	3442.1
324	243L1324	-	97.0	100.0	-	-	-	10373.2	4152.4
322	243L1322	-	98.0	105.0	-	-	-	10372.2	2481.6
41	243L1041	-	95.0	95.0	-	-	-	10369.5	3109.3
261	243L1261	-	99.0	94.0	58.1	67.8	17.5	10350.9	3340.6
123	243L1123	-	98.0	101.0	64.7	71.7	20.8	10347.5	3544.3
306	243L1306	-	96.0	102.0	-	-	-	10344.4	2596.3
299	243L1299	-	98.0	100.0	51.3	65.9	33.8	10329.1	2502.0
313	243L1313	-	95.0	103.0	-	-	-	10316.7	2922.2
203	243L1203	-	97.0	100.0	-	-	-	10315.5	2462.8
4	243L1004	-	98.0	99.0	54.4	67.0	16.2	10312.3	2724.9
302	243L1302	-	99.0	105.0	51.1	66.4	40.1	10311.0	2089.2
323	243L1323	-	95.0	100.0	40.9	63.7	27.4	10279.8	2984.4
321	243L1321	-	98.0	103.0	-	-	-	10277.3	2872.3
296	243L1296	-	99.0	94.0	-	-	-	10270.9	2761.7
358	213L1130	-	97.0	94.0	59.1	69.3	28.5	10267.2	3257.4
268	243L1268	-	94.0	97.0	-	-	-	10259.8	3503.9
129	243L1129	-	95.0	109.0	-	-	-	10254.0	3666.2
329	243L1329	-	96.0	95.0	57.8	68.7	33.1	10250.7	3659.5
147	243L1147	-	99.0	101.0	64.8	71.2	29.8	10250.5	3317.4
293	243L1293	-	99.0	101.0	59.8	69.6	34.2	10248.4	2806.1
62	243L1062	-	94.0	105.0	53.4	66.0	22.7	10245.4	3030.3
319	243L1319	-	98.0	103.0	58.7	68.9	33.9	10236.4	3151.4
15	243L1015	-	97.0	105.0	-	-	-	10225.0	3295.2
356	PVL03	-	98.0	100.0	-	-	-	10213.9	2939.0
210	243L1210	-	99.0	106.0	57.9	67.8	36.3	10211.2	3882.8
300	243L1300	-	99.0	105.0	-	-	-	10209.1	2779.0
100	243L1100	-	97.0	101.0	58.9	69.9	28.8	10204.0	2737.1
106	243L1106	-	96.0	100.0	65.9	72.3	31.9	10201.4	3104.8
153	243L1153	-	99.0	100.0	-	-	-	10189.9	3873.4
340	243L1340	-	98.0	107.0	46.3	66.0	37.3	10188.5	3662.9
338	243L1338	-	98.0	92.0	-	-	-	10180.9	3506.1
77	243L1077	-	98.0	97.0	62.1	71.1	31.8	10175.1	2094.6
71	243L1071	-	98.0	103.0	-	-	-	10171.5	2579.8
22	243L1022	-	98.0	105.0	62.7	70.5	33.7	10170.2	3224.6
124	243L1124	-	95.0	105.0	65.3	71.4	18.1	10163.8	3694.1
51	243L1051	-	99.0	97.0	54.0	68.1	32.9	10150.3	3381.1
72	243L1072	-	94.0	95.0	60.9	69.5	23.5	10145.5	3236.7
221	243L1221	-	99.0	100.0	55.6	68.6	33.6	10139.3	3776.0
209	243L1209	-	96.0	109.0	-	-	-	10126.8	3657.0
346	243L1346	-	99.0	99.0	-	-	-	10114.2	2644.1
161	243L1161	-	96.0	100.0	60.7	69.6	34.7	10088.8	3495.5
270	243L1270	-	97.0	110.0	65.4	72.0	26.0	10078.8	3419.2
357	PVL04	-	101.0	99.0	58.2	69.7	31.3	10074.3	3114.1
230	243L1230	-	96.0	95.0	59.0	66.9	13.8	10071.6	2841.1

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
207	243L1207	-	97.0	100.0	46.1	65.5	19.7	10070.8	2637.1
32	243L1032	-	99.0	93.0	59.4	69.3	13.7	10062.7	3477.0
68	243L1068	-	95.0	98.0	61.6	70.4	17.3	10051.9	3290.4
311	243L1311	-	95.0	101.0	-	-	-	10046.0	3597.5
229	243L1229	-	97.0	105.0	66.5	72.8	15.2	10045.0	4076.7
297	243L1297	-	96.0	111.0	62.7	70.6	23.4	10040.1	3602.2
23	243L1023	-	98.0	104.0	-	-	-	10037.0	2428.6
259	243L1259	-	96.0	113.0	57.2	68.9	39.0	10028.5	2997.7
143	243L1143	-	98.0	98.0	60.0	69.1	25.5	10027.9	3243.4
231	243L1231	-	94.0	111.0	62.6	70.6	20.5	10027.7	3757.3
69	243L1069	-	95.0	96.0	-	-	-	10026.1	3147.2
75	243L1075	-	97.0	100.0	-	-	-	10021.8	3524.3
316	243L1316	-	96.0	110.0	-	-	-	10009.7	3321.9
241	243L1241	-	99.0	96.0	57.0	69.8	32.9	9988.5	3017.7
251	243L1251	-	94.0	105.0	-	-	-	9987.8	2566.7
49	243L1049	-	99.0	105.0	61.0	70.5	24.7	9987.2	2078.4
98	243L1098	-	98.0	98.0	61.7	70.1	28.4	9978.9	3193.7
312	243L1312	-	95.0	111.0	-	-	-	9976.0	3223.3
237	243L1237	-	98.0	109.0	51.5	68.5	26.3	9975.6	2627.3
250	243L1250	-	99.0	106.0	-	-	-	9970.8	1958.9
65	243L1065	-	93.0	104.0	-	-	-	9961.7	2847.5
277	243L1277	-	100.0	96.0	-	-	-	9960.4	3047.6
264	243L1264	-	99.0	93.0	63.4	70.3	23.6	9959.8	3212.5
159	243L1159	-	98.0	116.0	-	-	-	9956.8	4403.2
328	243L1328	-	99.0	98.0	59.1	69.5	26.6	9955.3	3333.4
57	243L1057	-	96.0	107.0	60.2	69.2	35.3	9953.6	4284.2
122	243L1122	-	96.0	101.0	64.4	71.3	24.0	9951.9	3466.5
24	243L1024	-	99.0	103.0	60.8	69.1	21.6	9935.8	3114.1
317	243L1317	-	99.0	94.0	-	-	-	9934.7	3580.8
236	243L1236	-	97.0	105.0	61.6	71.1	25.2	9930.0	3112.4
127	243L1127	-	97.0	104.0	64.3	70.7	18.2	9922.4	3349.3
137	243L1137	-	95.0	99.0	59.6	69.3	21.8	9912.7	3811.2
283	243L1283	-	96.0	101.0	-	-	-	9912.7	3631.8
350	243L1350	-	98.0	105.0	-	-	-	9899.0	3802.9
347	243L1347	-	99.0	106.0	60.2	68.6	24.1	9896.9	3797.5
138	243L1138	-	96.0	96.0	57.5	69.0	20.9	9892.8	3779.1
83	243L1083	-	98.0	92.0	-	-	-	9887.5	3377.8
248	243L1248	-	99.0	106.0	44.4	66.5	32.6	9884.9	2582.1
89	243L1089	-	98.0	105.0	-	-	-	9881.5	3634.4
85	243L1085	-	96.0	99.0	54.7	66.5	19.7	9879.0	3340.4
36	243L1036	-	99.0	105.0	64.6	71.5	22.5	9877.5	3141.8
246	243L1246	-	97.0	108.0	-	-	-	9876.0	3037.6
99	243L1099	-	98.0	100.0	-	-	-	9858.4	3449.4
333	243L1333	-	98.0	104.0	-	-	-	9850.9	3350.7
61	243L1061	-	96.0	112.0	59.6	70.1	27.2	9844.2	3249.7
310	243L1310	-	98.0	107.0	-	-	-	9842.2	3043.5
291	243L1291	-	101.0	105.0	-	-	-	9841.7	2228.2
182	243A1182	-	97.0	98.0	-	-	-	9838.3	2945.2
343	243L1343	-	98.0	99.0	-	-	-	9834.9	3292.8
110	243L1110	-	98.0	115.0	61.3	69.6	25.2	9834.9	3573.1

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
152	243L1152	-	96.0	113.0	60.5	71.0	27.4	9828.1	3361.1
92	243L1092	-	95.0	97.0	-	-	-	9828.1	3494.1
239	243L1239	-	99.0	106.0	62.3	70.3	24.8	9827.4	3051.5
78	243L1078	-	100.0	103.0	63.2	70.1	23.3	9818.1	3845.8
125	243L1125	-	97.0	99.0	56.6	67.1	15.8	9812.7	2969.4
245	243L1245	-	99.0	108.0	-	-	-	9809.5	2864.8
269	243L1269	-	97.0	106.0	62.5	70.6	31.0	9805.4	3751.3
272	243L1272	-	98.0	103.0	53.7	68.6	27.6	9788.7	3809.9
254	243L1254	-	97.0	98.0	51.8	66.9	30.0	9786.8	2819.4
48	243L1048	-	100.0	102.0	61.1	69.5	23.4	9782.4	2644.4
213	243L1213	-	99.0	107.0	58.2	69.1	42.2	9781.3	3144.2
197	243L1197	-	99.0	112.0	56.8	69.6	22.4	9776.0	3266.9
303	243L1303	-	95.0	106.0	45.0	66.2	32.5	9766.1	3612.2
355	243L1355	-	98.0	102.0	56.0	66.4	20.5	9754.0	2890.8
40	243L1040	-	97.0	98.0	62.4	70.6	27.1	9748.8	2484.3
255	243L1255	-	95.0	106.0	-	-	-	9744.2	1775.2
286	243L1286	-	95.0	105.0	-	-	-	9718.5	3388.3
181	243A1181	-	98.0	99.0	63.5	71.5	23.1	9712.1	3165.9
104	243L1104	-	100.0	94.0	-	-	-	9706.8	3050.0
53	243L1053	-	99.0	105.0	-	-	-	9703.7	3411.8
6	243L1006	-	98.0	101.0	-	-	-	9690.1	4626.0
244	243L1244	-	99.0	100.0	60.2	69.7	28.5	9687.9	3069.0
70	243L1070	-	96.0	98.0	60.6	69.7	18.5	9678.0	3366.8
275	243L1275	-	96.0	93.0	60.8	69.8	20.2	9659.5	3633.4
194	243L1194	-	95.0	102.0	63.5	70.9	24.2	9653.0	3263.8
146	243L1146	-	99.0	109.0	59.6	69.7	27.4	9652.5	3083.1
253	243L1253	-	100.0	98.0	-	-	-	9650.4	3173.4
265	243L1265	-	98.0	99.0	-	-	-	9640.3	3871.3
260	243L1260	-	97.0	97.0	-	-	-	9639.2	3555.1
158	243L1158	-	96.0	102.0	55.9	67.7	25.0	9622.4	4732.2
10	243L1010	-	96.0	111.0	-	-	-	9613.3	3045.7
252	243L1252	-	98.0	112.0	-	-	-	9593.8	2485.5
205	243L1205	-	97.0	97.0	55.2	68.6	23.7	9587.6	3389.6
327	243L1327	-	98.0	98.0	53.2	67.5	35.2	9563.3	2895.2
103	243L1103	-	100.0	99.0	56.3	67.2	22.1	9561.8	3829.3
278	243L1278	-	96.0	94.0	53.4	67.5	23.3	9558.6	2955.6
113	243L1113	-	98.0	100.0	-	-	-	9550.3	3792.3
46	243L1046	-	101.0	97.0	-	-	-	9531.9	2895.8
337	243L1337	-	100.0	104.0	-	-	-	9531.4	4065.2
154	243L1154	-	96.0	105.0	-	-	-	9530.0	3125.5
215	243L1215	-	96.0	110.0	-	-	-	9529.7	4307.9
107	243L1107	-	98.0	100.0	61.8	69.0	23.0	9527.2	3546.9
287	243L1287	-	92.0	111.0	-	-	-	9512.1	3631.6
34	243L1034	-	99.0	106.0	-	-	-	9508.8	3666.6
178	243A1178	-	94.0	104.0	54.0	69.1	26.7	9507.8	2840.7
151	243L1151	-	98.0	105.0	56.8	68.9	23.4	9494.7	3118.9
247	243L1247	-	99.0	100.0	56.8	68.4	24.5	9494.7	4117.1
17	243L1017	-	95.0	106.0	-	-	-	9494.1	2981.2
95	243L1095	-	101.0	101.0	50.4	67.6	18.5	9489.4	3105.8
279	243L1279	-	96.0	105.0	56.4	68.8	25.6	9487.0	3519.6

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
44	243L1044	-	100.0	101.0	61.0	70.1	24.1	9484.6	3190.9
307	243L1307	-	99.0	102.0	62.5	70.4	18.5	9484.5	3757.5
217	243L1217	-	100.0	98.0	54.6	68.1	31.9	9480.9	3749.8
242	243L1242	-	99.0	96.0	-	-	-	9470.1	2826.1
211	243L1211	-	95.0	102.0	-	-	-	9466.9	3900.0
33	243L1033	-	98.0	100.0	-	-	-	9454.0	3213.1
162	243L1162	-	93.0	104.0	-	-	-	9452.7	3406.6
274	243L1274	-	100.0	96.0	-	-	-	9448.0	3218.3
308	243L1308	-	98.0	98.0	-	-	-	9445.5	2372.8
341	243L1341	-	98.0	105.0	-	-	-	9444.8	3567.6
243	243L1243	-	94.0	106.0	59.0	69.2	26.6	9444.0	3536.2
344	243L1344	-	98.0	92.0	51.7	65.4	19.1	9433.8	3381.9
108	243L1108	-	99.0	97.0	61.3	68.5	24.3	9429.0	3362.1
298	243L1298	-	100.0	105.0	-	-	-	9420.0	1822.2
64	243L1064	-	93.0	100.0	-	-	-	9417.0	3020.8
186	243A1186	-	93.0	105.0	63.5	70.7	13.2	9417.0	3159.7
111	243L1111	-	99.0	97.0	-	-	-	9409.7	3778.4
199	243L1199	-	98.0	102.0	61.3	70.5	27.5	9403.1	3176.8
155	243L1155	-	100.0	99.0	63.4	70.8	25.5	9397.3	3269.7
339	243L1339	-	99.0	102.0	-	-	-	9396.7	2878.4
105	243L1105	-	92.0	105.0	-	-	-	9391.5	2880.6
220	243L1220	-	99.0	100.0	61.0	70.4	27.1	9390.4	3560.4
126	243L1126	-	93.0	90.0	61.0	70.0	20.1	9361.1	2835.5
196	243L1196	-	99.0	105.0	61.2	70.6	20.5	9359.3	2883.7
282	243L1282	-	93.0	106.0	-	-	-	9353.9	3698.4
8	243L1008	-	96.0	95.0	64.5	71.7	23.7	9349.1	3160.4
60	243L1060	-	97.0	110.0	-	-	-	9347.5	3379.0
2	243L1002	-	96.0	97.0	58.6	68.7	31.6	9338.8	3305.5
336	243L1336	-	95.0	101.0	-	-	-	9332.3	4131.0
314	243L1314	-	96.0	91.0	-	-	-	9329.5	4236.9
81	243L1081	-	99.0	101.0	64.8	70.8	16.1	9320.0	4026.1
188	243A1188	-	95.0	99.0	54.6	66.3	13.3	9317.3	2414.3
195	243L1195	-	99.0	105.0	63.9	71.2	11.5	9317.3	3258.9
135	243L1135	-	95.0	100.0	-	-	-	9315.5	3825.4
284	243L1284	-	93.0	94.0	60.3	69.8	24.0	9314.3	3419.2
133	243L1133	-	98.0	97.0	-	-	-	9311.8	3374.6
84	243L1084	-	97.0	98.0	62.7	70.3	22.9	9310.6	3445.7
16	243L1016	-	99.0	111.0	61.4	70.5	23.7	9288.3	3682.5
149	243L1149	-	99.0	94.0	-	-	-	9277.6	3927.6
66	243L1066	-	97.0	90.0	60.1	69.6	24.8	9266.5	2942.3
179	243A1179	-	95.0	96.0	51.3	68.4	38.3	9261.2	2626.3
335	243L1335	-	94.0	95.0	-	-	-	9259.1	3304.0
119	243L1119	-	98.0	105.0	-	-	-	9256.6	3515.2
132	243L1132	-	100.0	97.0	60.1	69.1	28.2	9250.9	2508.9
288	243L1288	-	93.0	102.0	-	-	-	9250.2	3037.4
116	243L1116	-	100.0	100.0	63.5	71.3	26.1	9242.0	3483.5
235	243L1235	-	99.0	106.0	-	-	-	9242.0	3137.0
96	243L1096	-	98.0	108.0	56.7	69.6	26.8	9233.3	3580.8
63	243L1063	-	93.0	100.0	-	-	-	9231.1	3118.9
93	243L1093	-	96.0	97.0	52.2	63.6	24.6	9229.3	3643.2

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
325	243L1325	-	98.0	99.0	-	-	-	9224.1	3107.4
118	243L1118	-	97.0	97.0	-	-	-	9218.0	3328.2
39	243L1039	-	101.0	97.0	63.4	70.8	20.0	9206.1	3086.4
175	243L1175	-	97.0	95.0	-	-	-	9192.8	3483.5
276	243L1276	-	95.0	98.0	-	-	-	9192.8	3914.5
26	243L1026	-	99.0	101.0	65.1	71.0	17.4	9190.8	3833.8
35	243L1035	-	99.0	98.0	67.0	72.6	21.1	9183.7	3253.3
177	243A1177	-	94.0	104.0	-	-	-	9175.2	3222.7
150	243L1150	-	96.0	106.0	-	-	-	9170.7	3484.1
76	243L1076	-	100.0	95.0	61.0	70.3	25.6	9170.2	2887.8
200	243L1200	-	98.0	105.0	-	-	-	9164.6	3864.4
354	243L1354	-	99.0	105.0	-	-	-	9145.0	2627.0
193	243L1193	-	99.0	104.0	-	-	-	9144.3	2631.1
130	243L1130	-	99.0	90.0	-	-	-	9140.3	3839.9
233	243L1233	-	101.0	100.0	61.5	71.3	18.8	9137.4	3547.5
156	243L1156	-	99.0	100.0	-	-	-	9136.1	3236.3
172	243L1172	-	95.0	94.0	-	-	-	9132.4	4042.7
222	243L1222	-	98.0	89.0	54.3	68.1	31.0	9130.1	3479.4
120	243L1120	-	98.0	105.0	62.0	70.9	26.2	9126.7	3336.0
80	243L1080	-	98.0	104.0	58.8	68.0	19.8	9119.8	2963.5
42	243L1042	-	100.0	97.0	-	-	-	9113.7	3003.3
289	243L1289	-	97.0	95.0	-	-	-	9113.4	3547.6
38	243L1038	-	98.0	104.0	-	-	-	9106.2	3035.3
121	243L1121	-	101.0	104.0	45.3	68.0	30.8	9101.7	4004.8
201	243L1201	-	97.0	105.0	-	-	-	9091.2	3537.0
163	243L1163	-	94.0	96.0	-	-	-	9088.2	4049.2
140	243L1140	-	96.0	96.0	58.0	67.9	21.8	9080.2	3171.5
134	243L1134	-	100.0	101.0	61.4	68.9	16.7	9048.6	3601.8
225	243L1225	-	101.0	98.0	-	-	-	9047.2	3229.1
13	243L1013	-	98.0	104.0	-	-	-	9046.0	3385.7
109	243L1109	-	97.0	101.0	-	-	-	9041.8	3205.7
273	243L1273	-	99.0	90.0	58.0	68.7	23.1	9040.8	3584.5
102	243L1102	-	100.0	101.0	-	-	-	9038.4	3110.1
180	243A1180	-	98.0	100.0	63.4	70.5	9.0	9015.8	3114.8
139	243L1139	-	97.0	94.0	-	-	-	9003.6	2850.8
117	243L1117	-	97.0	95.0	-	-	-	8979.2	2880.6
184	243A1184	-	98.0	100.0	-	-	-	8976.0	3278.6
20	243L1020	-	99.0	92.0	63.5	70.3	28.2	8971.8	3545.0
173	243L1173	-	96.0	108.0	53.9	65.4	22.8	8962.9	3589.4
86	243L1086	-	98.0	100.0	-	-	-	8960.9	4038.2
67	243L1067	-	94.0	100.0	-	-	-	8952.5	3128.6
14	243L1014	-	94.0	115.0	-	-	-	8933.1	2707.8
183	243A1183	-	95.0	100.0	57.4	69.4	27.0	8909.9	2196.1
114	243L1114	-	96.0	85.0	-	-	-	8905.5	4425.7
305	243L1305	-	100.0	106.0	57.1	69.1	32.2	8892.9	2036.5
142	243L1142	-	100.0	91.0	-	-	-	8884.2	3132.3
59	243L1059	-	93.0	95.0	51.9	65.9	32.2	8857.7	2891.7
27	243L1027	-	98.0	99.0	-	-	-	8857.5	3920.7
5	243L1005	-	98.0	100.0	61.6	69.5	12.8	8843.9	3266.1
79	243L1079	-	95.0	95.0	-	-	-	8840.9	3391.5

Continued.

Table 3. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
28	243L1028	-	100.0	101.0	-	-	-	8839.2	3902.7
58	243L1058	-	96.0	100.0	-	-	-	8835.8	3163.8
292	243L1292	-	99.0	110.0	60.2	69.6	31.7	8823.8	1580.5
45	243L1045	-	96.0	95.0	-	-	-	8820.0	2659.0
157	243L1157	-	98.0	98.0	64.2	71.1	24.4	8814.6	2845.3
240	243L1240	-	99.0	97.0	-	-	-	8804.6	3267.6
256	243L1256	-	99.0	100.0	-	-	-	8797.1	2105.4
281	243L1281	-	95.0	104.0	-	-	-	8795.7	2619.8
101	243L1101	-	100.0	101.0	-	-	-	8778.9	3364.8
223	243L1223	-	98.0	103.0	-	-	-	8777.4	3076.6
227	243L1227	-	95.0	102.0	-	-	-	8747.8	3465.5
131	243L1131	-	97.0	92.0	-	-	-	8731.4	3935.6
90	243L1090	-	100.0	97.0	61.5	69.5	27.3	8712.2	3949.3
9	243L1009	-	98.0	100.0	64.2	71.7	23.8	8711.2	3433.7
214	243L1214	-	99.0	100.0	48.5	65.7	25.4	8677.1	3264.0
190	243A1190	-	98.0	100.0	66.0	71.7	7.8	8666.8	2124.4
55	243L1055	-	100.0	91.0	60.0	68.2	31.5	8663.1	3302.4
189	243A1189	-	95.0	103.0	-	-	-	8640.0	2117.3
88	243L1088	-	100.0	102.0	-	-	-	8632.5	3765.1
87	243L1087	-	98.0	105.0	60.7	69.5	38.6	8631.9	2949.6
144	243L1144	-	99.0	105.0	-	-	-	8608.5	3659.9
50	243L1050	-	100.0	96.0	-	-	-	8552.3	2910.1
192	243A1192	-	97.0	95.0	64.5	71.3	17.0	8477.4	2987.1
168	243L1168	-	99.0	98.0	-	-	-	8465.5	3456.6
228	243L1228	-	96.0	91.0	62.9	70.2	19.3	8458.7	3637.3
226	243L1226	-	98.0	95.0	62.9	70.4	28.2	8443.3	2586.8
136	243L1136	-	96.0	92.0	54.0	66.8	23.4	8357.1	3879.6
174	243L1174	-	96.0	89.0	62.1	69.0	16.7	8330.3	3367.4
12	243L1012	-	101.0	97.0	58.5	69.2	26.6	8319.2	3206.5
280	243L1280	-	93.0	102.0	59.6	68.1	24.7	8299.0	3745.3
290	243L1290	-	92.0	111.0	49.5	62.6	21.6	8270.2	3090.8
176	243A1176	-	96.0	108.0	-	-	-	8233.6	2954.3
285	243L1285	-	96.0	98.0	-	-	-	8189.8	4110.4
43	243L1043	-	100.0	92.0	-	-	-	8180.6	3083.8
171	243L1171	-	95.0	97.0	-	-	-	8176.6	3375.2
30	243L1030	-	98.0	103.0	60.9	69.2	20.4	8144.3	2652.9
31	243L1031	-	98.0	100.0	63.5	70.7	20.1	8135.0	2756.4
56	243L1056	-	100.0	112.0	-	-	-	8108.3	3434.9
309	243L1309	-	101.0	99.0	58.5	68.6	25.5	8105.8	4010.5
330	243L1330	-	99.0	104.0	55.6	68.2	27.8	8087.0	3639.8
21	243L1021	-	99.0	101.0	-	-	-	8065.8	3161.0
91	243L1091	-	100.0	96.0	54.2	68.9	30.3	8032.5	3509.1
185	243A1185	-	96.0	98.0	-	-	-	7989.3	3138.0
218	243L1218	-	97.0	97.0	59.4	69.6	18.1	7981.8	2380.0
94	243L1094	-	100.0	105.0	-	-	-	7888.9	3731.4
334	243L1334	-	99.0	100.0	-	-	-	7879.1	4063.5
160	243L1160	-	92.0	101.0	-	-	-	7833.2	2710.6
191	243A1191	-	96.0	103.0	61.7	69.7	8.9	7770.2	2969.9
165	243L1165	-	101.0	95.0	-	-	-	7725.5	4353.5
166	243L1166	-	96.0	98.0	-	-	-	7661.9	2535.3

Continued.

Table 3. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
1	243L1001	-	102.0	102.0	57.2	67.7	25.5	7649.5	2548.8
54	243L1054	-	98.0	105.0	57.1	68.4	20.5	7636.0	3108.1
164	243L1164	-	98.0	100.0	-	-	-	7603.2	3456.4
167	243L1167	-	101.0	102.0	-	-	-	7472.9	3862.4
216	243L1216	-	100.0	94.0	55.8	67.7	30.8	7315.2	2366.0
224	243L1224	-	102.0	99.0	51.9	65.6	16.9	7050.7	3186.3
187	243A1187	-	93.0	110.0	53.8	66.8	19.6	6809.2	2226.8
219	243L1219	-	98.0	107.0	-	-	-	6650.9	2905.1
169	243L1169	-	102.0	96.0	59.2	68.8	22.2	6365.9	3582.4
170	243L1170	-	99.0	99.0	-	-	-	5710.7	3335.6

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

Table 4. Grain and milling yields and agronomic performance of entries in the 2024 Provisia Preliminary Yield Long-Grain trial – Late Planting. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
72	243L1072	-	74.0	99.0	62.0	71.7	23.4	10711.1	3244.8
257	243L1257	-	81.0	110.0	57.5	69.1	33.5	10444.7	2176.8
141	243L1141	-	77.0	94.0	61.4	72.0	32.3	10281.5	4112.5
127	243L1127	-	78.0	96.0	65.9	72.2	17.6	10105.6	2980.2
126	243L1126	-	73.0	101.0	65.8	72.6	19.3	10087.3	3294.6
76	243L1076	-	80.0	107.0	64.4	71.9	17.5	10061.2	3706.6
300	243L1300	-	81.0	102.0	62.6	71.0	30.0	10054.9	2718.1
231	243L1231	-	75.0	112.0	67.4	72.4	15.6	10043.2	4582.0
267	243L1267	-	78.0	109.0	67.0	73.3	23.2	10041.8	4025.5
306	243L1306	-	80.0	111.0	59.7	71.3	16.0	9922.0	2399.6
37	243L1037	-	81.0	107.0	59.8	71.1	28.6	9919.0	3008.4
278	243L1278	-	75.0	98.0	61.1	70.8	21.5	9912.7	3620.0
204	243L1204	-	76.0	101.0	60.2	69.7	23.7	9881.0	2883.1
25	243L1025	-	80.0	110.0	64.9	72.0	16.4	9877.4	3458.6
249	243L1249	-	76.0	121.0	59.1	71.0	37.1	9860.4	2213.8
212	243L1212	-	79.0	104.0	59.0	69.7	33.9	9844.2	3041.5
74	243L1074	-	77.0	97.0	59.8	71.5	19.6	9827.3	3417.1
203	243L1203	-	78.0	96.0	50.4	67.9	24.4	9791.4	2828.9
104	243L1104	-	80.0	93.0	67.7	74.0	16.4	9735.9	2646.1
232	243L1232	-	77.0	104.0	65.2	72.2	18.7	9725.0	2978.8
349	243L1349	-	80.0	101.0	62.8	70.7	17.8	9724.5	3863.5
258	243L1258	-	79.0	110.0	60.9	71.1	20.9	9698.0	3633.1
304	243L1304	-	82.0	108.0	63.6	71.9	30.4	9678.3	2810.9
299	243L1299	-	79.0	100.0	53.8	68.4	26.3	9634.0	2372.6
359	213L1140	-	80.0	93.0	55.4	68.9	16.9	9625.2	2619.1
302	243L1302	-	80.0	110.0	59.2	70.2	28.5	9616.4	2560.8
236	243L1236	-	75.0	110.0	66.0	72.9	16.9	9615.0	3732.7
270	243L1270	-	79.0	113.0	66.9	72.4	20.0	9609.8	5418.6
360	213L1041	-	75.0	106.0	64.6	72.7	23.4	9602.4	3677.1
18	243L1018	-	78.0	104.0	53.8	68.2	19.9	9555.4	2990.9
92	243L1092	-	77.0	103.0	51.5	68.4	26.9	9538.7	3799.8
230	243L1230	-	73.0	88.0	63.0	70.6	11.2	9537.3	3149.2
198	243L1198	-	81.0	101.0	64.6	71.5	17.5	9524.9	3408.3
26	243L1026	-	79.0	99.0	66.7	72.9	16.8	9524.5	3049.3
250	243L1250	-	80.0	100.0	62.6	71.2	25.3	9505.4	2339.2
135	243L1135	-	76.0	100.0	64.3	72.4	19.3	9503.3	3987.7
275	243L1275	-	79.0	106.0	63.4	71.4	15.9	9502.9	3147.7
89	243L1089	-	80.0	105.0	62.8	71.6	19.9	9502.4	4811.5
63	243L1063	-	75.0	101.0	66.3	72.6	21.1	9498.9	3361.0
73	243L1073	-	76.0	95.0	59.3	71.5	21.1	9492.6	2522.9
93	243L1093	-	79.0	97.0	57.1	68.2	19.5	9492.0	4234.5
100	243L1100	-	76.0	96.0	57.5	69.3	22.0	9489.6	3342.6
343	243L1343	-	79.0	102.0	55.3	68.5	19.1	9468.1	3464.4
61	243L1061	-	74.0	102.0	63.0	72.1	21.2	9467.6	3316.1
69	243L1069	-	76.0	100.0	61.2	70.7	18.8	9460.8	2659.6
22	243L1022	-	79.0	98.0	63.0	72.1	25.1	9457.9	2906.6
348	243L1348	-	79.0	96.0	60.6	70.4	20.1	9456.6	2718.3
197	243L1197	-	80.0	104.0	62.7	71.7	16.8	9449.5	2426.6
97	243L1097	-	77.0	101.0	64.7	72.6	27.5	9437.6	3281.6
140	243L1140	-	74.0	98.0	60.5	69.7	18.8	9420.6	3926.9

Continued.

Table 4. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
77	243L1077	-	81.0	98.0	69.0	74.1	21.2	9407.1	3142.8
47	243L1047	-	79.0	91.0	63.5	72.3	31.3	9404.4	1415.8
7	243L1007	-	80.0	102.0	67.8	73.4	15.8	9393.8	2864.9
208	243L1208	-	73.0	100.0	61.4	70.6	22.7	9382.5	2597.0
315	243L1315	-	76.0	105.0	63.8	71.4	14.0	9365.7	3990.0
308	243L1308	-	82.0	104.0	54.9	68.9	20.3	9332.2	4265.3
262	243L1262	-	76.0	102.0	66.1	71.9	17.9	9318.8	4098.0
347	243L1347	-	82.0	112.0	63.5	69.6	17.4	9306.0	3763.6
106	243L1106	-	77.0	96.0	67.5	72.8	24.2	9286.7	3337.9
354	243L1354	-	81.0	106.0	64.9	72.0	18.7	9284.6	2036.7
331	243L1331	-	77.0	94.0	62.2	70.9	23.8	9279.6	3936.0
276	243L1276	-	79.0	98.0	64.6	72.2	17.8	9267.9	4251.9
211	243L1211	-	76.0	103.0	61.1	69.8	29.8	9265.4	5048.3
125	243L1125	-	77.0	91.0	65.9	72.5	13.6	9254.6	2738.8
34	243L1034	-	81.0	104.0	63.1	70.8	15.2	9247.3	3886.8
247	243L1247	-	82.0	96.0	63.4	71.5	20.2	9230.2	4292.4
112	243L1112	-	79.0	95.0	66.0	72.6	15.1	9229.3	3398.4
98	243L1098	-	79.0	104.0	65.1	71.4	19.8	9224.8	3761.3
105	243L1105	-	74.0	103.0	62.4	71.6	18.7	9224.5	3158.4
353	243L1353	-	79.0	96.0	62.5	71.5	22.7	9210.9	3775.8
307	243L1307	-	80.0	100.0	67.5	72.1	13.2	9206.5	4721.2
317	243L1317	-	79.0	99.0	61.8	70.6	24.0	9198.0	3492.6
269	243L1269	-	80.0	107.0	65.2	72.1	19.4	9193.3	4752.4
235	243L1235	-	80.0	96.0	65.5	72.2	27.1	9190.0	2909.4
152	243L1152	-	75.0	101.0	64.5	72.5	25.6	9175.5	3373.4
266	243L1266	-	77.0	111.0	65.7	71.5	22.1	9171.1	4135.4
284	243L1284	-	74.0	103.0	62.9	71.2	16.3	9162.4	3951.0
294	243L1294	-	78.0	108.0	60.6	71.0	30.9	9160.9	2857.5
238	243L1238	-	80.0	114.0	64.7	72.4	20.9	9139.8	2798.6
163	243L1163	-	76.0	99.0	66.9	71.6	18.9	9134.3	3755.5
67	243L1067	-	76.0	102.0	64.7	71.3	13.5	9130.7	2921.7
11	243L1011	-	80.0	99.0	66.9	72.6	20.8	9126.5	2873.8
240	243L1240	-	79.0	98.0	63.1	70.8	16.4	9123.7	3639.8
108	243L1108	-	81.0	99.0	64.9	71.0	13.4	9115.4	3515.4
213	243L1213	-	73.0	103.0	64.5	71.6	29.7	9112.9	4445.7
332	243L1332	-	78.0	103.0	56.3	68.4	23.7	9108.8	4872.4
272	243L1272	-	79.0	104.0	60.0	70.4	19.9	9107.4	3922.3
65	243L1065	-	74.0	108.0	64.9	71.8	21.0	9104.2	2127.7
196	243L1196	-	83.0	112.0	66.8	72.8	13.8	9100.6	3458.6
260	243L1260	-	81.0	98.0	68.4	73.2	10.7	9094.4	5014.0
33	243L1033	-	79.0	93.0	64.9	71.9	14.8	9090.1	3711.9
356	PVL03	-	78.0	101.0	63.4	71.9	22.4	9084.7	3610.4
68	243L1068	-	76.0	103.0	63.4	71.4	11.9	9077.9	3211.3
295	243L1295	-	79.0	105.0	65.5	72.5	21.4	9055.7	3833.2
122	243L1122	-	75.0	88.0	62.5	70.9	16.8	9054.8	4049.9
64	243L1064	-	75.0	94.0	56.3	69.6	19.9	9053.8	3559.0
261	243L1261	-	83.0	103.0	63.7	71.6	11.9	9048.1	4602.5
350	243L1350	-	82.0	109.0	62.9	69.4	15.8	9046.0	3489.3
259	243L1259	-	78.0	114.0	60.7	70.7	36.2	9041.2	2880.2
229	243L1229	-	77.0	92.0	69.6	74.6	11.1	9038.6	4315.0

Continued.

Table 4. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
248	243L1248	-	80.0	109.0	55.5	68.6	30.3	9030.4	2143.6
322	243L1322	-	78.0	115.0	62.6	70.3	16.7	9020.2	2739.9
51	243L1051	-	83.0	94.0	53.2	66.8	24.9	9009.7	3021.7
209	243L1209	-	75.0	100.0	49.0	67.1	28.2	8978.2	3131.9
44	243L1044	-	81.0	104.0	64.5	71.0	16.4	8955.1	3654.8
182	243A1182	-	77.0	103.0	63.0	72.3	21.6	8946.0	3338.2
134	243L1134	-	83.0	101.0	65.6	71.7	14.0	8939.8	4849.0
205	243L1205	-	78.0	102.0	61.2	70.8	20.1	8931.0	3307.7
115	243L1115	-	83.0	103.0	67.9	73.4	18.5	8927.7	3255.9
346	243L1346	-	82.0	96.0	63.2	70.4	12.5	8925.4	3948.6
114	243L1114	-	83.0	93.0	68.9	74.2	11.4	8913.4	4423.1
320	243L1320	-	74.0	95.0	60.0	70.7	26.6	8904.2	3674.6
345	243L1345	-	82.0	100.0	65.0	71.4	17.9	8898.9	3176.2
103	243L1103	-	80.0	104.0	65.7	72.2	16.5	8898.0	3379.8
352	243L1352	-	80.0	100.0	60.0	70.0	24.1	8893.0	2841.3
124	243L1124	-	78.0	102.0	67.6	73.1	12.1	8888.8	2762.2
139	243L1139	-	78.0	92.0	64.8	72.1	19.2	8888.0	3272.7
263	243L1263	-	78.0	98.0	67.2	72.7	20.5	8886.6	4668.8
17	243L1017	-	76.0	107.0	66.0	72.3	22.2	8880.4	4085.6
70	243L1070	-	75.0	99.0	60.8	71.1	20.2	8875.9	2120.1
358	213L1130	-	79.0	96.0	58.8	70.0	18.0	8873.4	3231.7
287	243L1287	-	74.0	102.0	60.8	69.1	13.1	8865.5	4051.8
341	243L1341	-	80.0	100.0	60.7	70.8	27.3	8859.4	4174.3
128	243L1128	-	80.0	101.0	66.8	72.1	13.2	8856.4	3826.0
253	243L1253	-	80.0	101.0	59.3	69.6	29.9	8848.6	2977.6
251	243L1251	-	74.0	100.0	58.9	69.0	31.9	8841.4	2112.2
41	243L1041	-	76.0	98.0	63.9	71.8	18.1	8837.3	3216.0
53	243L1053	-	81.0	98.0	62.2	70.8	18.7	8835.8	3535.8
20	243L1020	-	80.0	102.0	66.0	72.1	20.9	8826.9	3722.1
178	243A1178	-	74.0	106.0	60.2	71.2	22.3	8824.5	2924.9
161	243L1161	-	80.0	97.0	65.3	72.1	16.8	8809.7	4380.0
156	243L1156	-	82.0	92.0	68.2	72.9	16.0	8793.3	4414.8
291	243L1291	-	83.0	106.0	64.6	72.4	20.8	8792.8	2319.5
329	243L1329	-	75.0	97.0	62.3	71.4	26.1	8790.2	3603.3
129	243L1129	-	76.0	85.0	65.9	72.9	16.2	8788.9	1673.3
186	243A1186	-	76.0	100.0	62.7	70.8	12.3	8785.1	3471.2
29	243L1029	-	80.0	108.0	63.2	71.7	23.5	8754.2	3414.9
175	243L1175	-	76.0	91.0	62.0	70.4	18.8	8746.8	3514.1
274	243L1274	-	82.0	96.0	65.2	71.9	10.4	8724.5	3665.6
14	243L1014	-	75.0	107.0	52.1	68.9	39.0	8720.7	3252.9
137	243L1137	-	76.0	96.0	62.5	71.5	16.0	8715.9	3719.2
264	243L1264	-	82.0	90.0	67.9	72.9	14.7	8695.2	5095.0
325	243L1325	-	79.0	103.0	62.7	71.3	12.4	8681.8	2908.5
145	243L1145	-	78.0	108.0	67.6	73.3	18.1	8680.2	3080.3
245	243L1245	-	81.0	102.0	65.2	72.5	22.9	8670.6	2902.2
342	243L1342	-	84.0	98.0	56.5	69.3	21.7	8668.6	3397.3
157	243L1157	-	78.0	101.0	66.0	71.9	20.7	8663.1	3520.9
148	243L1148	-	76.0	98.0	63.4	71.0	22.3	8655.1	2642.2
16	243L1016	-	80.0	111.0	66.2	72.3	16.5	8652.7	3044.5
189	243A1189	-	74.0	98.0	50.1	67.7	18.6	8650.0	2357.5

Continued.

Table 4. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
335	243L1335	-	75.0	104.0	57.8	70.5	24.8	8644.2	3235.2
301	243L1301	-	79.0	111.0	51.8	69.3	25.0	8636.5	2260.6
326	243L1326	-	75.0	100.0	60.2	70.2	25.4	8636.3	3844.1
153	243L1153	-	79.0	105.0	65.8	72.9	22.2	8633.9	2663.0
199	243L1199	-	81.0	103.0	67.0	72.4	17.2	8630.1	4302.1
311	243L1311	-	76.0	102.0	61.5	70.6	19.3	8615.7	3785.2
15	243L1015	-	80.0	108.0	66.7	73.4	27.5	8609.2	4628.6
56	243L1056	-	82.0	120.0	63.7	70.6	28.8	8608.9	3420.6
252	243L1252	-	79.0	107.0	50.3	68.2	32.2	8602.9	2597.5
277	243L1277	-	81.0	99.0	64.8	71.2	16.6	8600.5	3924.5
88	243L1088	-	82.0	109.0	64.3	71.8	20.9	8599.5	4531.3
2	243L1002	-	79.0	100.0	62.6	70.7	23.5	8595.9	3581.0
32	243L1032	-	83.0	97.0	68.7	73.4	14.3	8594.5	4769.6
179	243A1179	-	74.0	105.0	60.4	71.3	37.7	8580.9	2518.7
23	243L1023	-	80.0	107.0	64.0	71.7	27.3	8576.2	2764.8
210	243L1210	-	83.0	106.0	64.3	71.9	26.6	8575.1	4670.7
90	243L1090	-	83.0	107.0	67.8	72.6	15.8	8573.7	5731.0
168	243L1168	-	83.0	101.0	64.8	71.7	16.4	8570.8	1782.8
355	243L1355	-	80.0	101.0	65.2	71.1	18.2	8564.6	2968.6
321	243L1321	-	79.0	105.0	63.9	71.5	20.9	8534.3	1940.8
80	243L1080	-	81.0	109.0	66.3	72.2	14.0	8533.0	3830.4
151	243L1151	-	77.0	101.0	64.2	71.0	14.8	8531.4	3521.1
244	243L1244	-	79.0	103.0	64.0	71.9	19.8	8515.5	3163.8
194	243L1194	-	78.0	102.0	65.5	71.5	21.3	8509.4	3447.6
283	243L1283	-	80.0	100.0	69.4	73.5	15.7	8507.3	3765.2
243	243L1243	-	76.0	98.0	65.3	71.9	15.9	8498.9	3496.6
215	243L1215	-	80.0	108.0	65.4	72.4	26.5	8479.5	5366.7
221	243L1221	-	81.0	103.0	60.7	70.3	23.1	8472.1	3930.0
160	243L1160	-	73.0	100.0	62.6	71.4	24.3	8466.7	3117.8
109	243L1109	-	78.0	102.0	63.6	71.3	16.9	8464.7	4410.4
85	243L1085	-	74.0	101.0	62.0	71.3	17.5	8461.1	3827.0
313	243L1313	-	74.0	101.0	55.6	68.5	22.7	8459.1	1836.2
102	243L1102	-	81.0	98.0	65.6	72.8	17.9	8448.6	2920.7
180	243A1180	-	78.0	101.0	65.5	71.9	5.5	8442.9	3121.2
339	243L1339	-	82.0	105.0	60.9	69.7	17.5	8436.5	3974.4
99	243L1099	-	80.0	98.0	64.7	72.2	15.5	8411.6	3923.6
60	243L1060	-	79.0	108.0	65.5	72.6	24.4	8410.2	3888.7
271	243L1271	-	79.0	101.0	65.9	72.2	20.7	8408.1	3759.5
239	243L1239	-	78.0	110.0	68.3	73.4	18.2	8401.5	2482.3
281	243L1281	-	74.0	97.0	61.4	68.8	14.3	8400.9	3757.5
227	243L1227	-	78.0	108.0	67.6	72.5	9.1	8398.0	4019.2
207	243L1207	-	78.0	98.0	57.4	69.2	12.3	8396.8	2009.5
193	243L1193	-	83.0	105.0	67.9	74.3	17.4	8391.3	4215.4
318	243L1318	-	78.0	100.0	62.9	71.4	21.6	8389.0	2203.9
202	243L1202	-	80.0	101.0	62.8	70.8	25.5	8370.9	2234.4
336	243L1336	-	79.0	105.0	63.4	71.4	19.6	8369.0	3986.6
155	243L1155	-	83.0	93.0	66.2	71.7	13.5	8368.0	4655.0
107	243L1107	-	79.0	91.0	66.7	71.7	17.6	8357.9	3895.4
323	243L1323	-	75.0	99.0	58.8	70.3	26.1	8357.7	2716.7
95	243L1095	-	81.0	96.0	64.8	72.5	12.4	8357.6	1959.1

Continued.

Table 4. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
327	243L1327	-	80.0	103.0	59.7	69.9	25.8	8357.1	3937.5
158	243L1158	-	76.0	103.0	61.2	70.5	22.2	8338.2	3474.6
120	243L1120	-	80.0	102.0	63.1	71.8	14.7	8332.9	4350.5
113	243L1113	-	79.0	104.0	61.5	70.2	11.8	8332.0	3190.8
286	243L1286	-	74.0	90.0	63.0	70.7	21.7	8323.9	3897.8
46	243L1046	-	83.0	101.0	59.6	70.0	22.0	8323.4	2390.5
24	243L1024	-	80.0	89.0	62.3	69.1	12.2	8305.7	4100.6
177	243A1177	-	75.0	98.0	67.1	72.8	23.4	8298.3	3572.2
150	243L1150	-	79.0	106.0	64.8	71.2	19.9	8293.3	3983.8
226	243L1226	-	80.0	95.0	68.9	73.3	15.3	8288.2	3471.4
86	243L1086	-	78.0	104.0	65.4	72.1	20.7	8287.8	3697.2
220	243L1220	-	82.0	95.0	63.7	71.5	21.5	8284.8	2920.2
123	243L1123	-	78.0	104.0	64.3	72.0	15.3	8282.1	3867.7
142	243L1142	-	81.0	98.0	69.5	73.6	18.3	8262.0	3844.1
83	243L1083	-	82.0	88.0	64.6	71.6	18.0	8261.4	3159.5
136	243L1136	-	80.0	98.0	64.0	71.1	21.9	8257.8	4651.9
96	243L1096	-	79.0	106.0	64.8	72.1	15.9	8249.5	3602.3
4	243L1004	-	81.0	100.0	66.5	72.0	15.2	8248.1	3684.9
75	243L1075	-	76.0	102.0	66.8	72.2	16.7	8242.5	3689.3
206	243L1206	-	76.0	94.0	53.5	67.7	29.0	8238.3	3346.7
190	243A1190	-	80.0	103.0	66.6	71.5	5.4	8238.3	3147.9
118	243L1118	-	79.0	103.0	67.3	72.4	17.2	8236.2	4010.0
254	243L1254	-	76.0	102.0	61.4	70.5	26.0	8230.3	2649.3
154	243L1154	-	80.0	107.0	69.1	73.5	15.3	8229.7	3780.6
312	243L1312	-	75.0	105.0	61.4	70.8	23.8	8223.7	3465.0
234	243L1234	-	80.0	101.0	62.4	70.8	21.3	8208.2	3607.9
45	243L1045	-	79.0	101.0	65.4	72.5	12.7	8207.8	3731.0
228	243L1228	-	78.0	93.0	66.2	72.1	18.5	8197.5	3230.8
171	243L1171	-	79.0	104.0	64.4	70.4	18.4	8185.7	3933.4
66	243L1066	-	78.0	86.0	60.4	70.2	19.4	8185.3	2786.3
3	243L1003	-	82.0	99.0	63.4	72.0	26.7	8178.7	3088.3
188	243A1188	-	77.0	100.0	67.0	72.8	11.6	8174.7	2459.2
268	243L1268	-	80.0	108.0	64.6	71.4	18.0	8172.3	4343.3
333	243L1333	-	79.0	102.0	55.8	68.3	23.8	8172.2	4567.7
191	243A1191	-	80.0	109.0	68.0	72.9	7.4	8164.5	3383.7
233	243L1233	-	83.0	107.0	66.2	72.1	11.4	8153.4	4208.1
131	243L1131	-	81.0	94.0	66.2	72.3	10.4	8150.5	4125.3
223	243L1223	-	81.0	117.0	66.8	72.8	16.8	8148.2	3385.2
242	243L1242	-	79.0	99.0	63.3	71.7	21.2	8146.8	2476.3
246	243L1246	-	81.0	102.0	60.6	70.8	46.3	8140.3	1526.6
71	243L1071	-	79.0	96.0	66.4	72.6	19.9	8116.8	3388.0
310	243L1310	-	79.0	107.0	63.9	72.4	27.1	8114.7	3019.4
351	243L1351	-	81.0	98.0	59.6	68.8	19.0	8112.8	3221.1
133	243L1133	-	79.0	96.0	63.7	72.0	21.7	8111.5	3102.8
314	243L1314	-	76.0	95.0	63.4	70.3	18.1	8107.9	3981.7
288	243L1288	-	76.0	93.0	62.5	70.7	19.0	8107.1	3205.1
19	243L1019	-	79.0	100.0	62.2	70.2	22.3	8100.2	3624.7
57	243L1057	-	78.0	94.0	63.5	70.5	21.6	8095.3	3545.9
316	243L1316	-	75.0	107.0	62.3	69.8	17.9	8091.5	3095.7
117	243L1117	-	80.0	98.0	67.3	73.8	17.6	8089.9	3621.7

Continued.

Table 4. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
138	243L1138	-	78.0	91.0	60.7	68.2	15.8	8066.7	2925.3
279	243L1279	-	75.0	100.0	60.4	70.4	23.1	8066.0	3517.5
81	243L1081	-	80.0	104.0	66.7	72.1	6.9	8065.2	5156.1
185	243A1185	-	76.0	105.0	59.9	71.0	9.5	8063.7	2295.3
338	243L1338	-	80.0	102.0	58.8	68.4	20.1	8057.9	3016.7
87	243L1087	-	81.0	106.0	64.3	72.0	23.5	8055.0	4198.8
48	243L1048	-	83.0	104.0	64.9	70.7	13.4	8051.7	3410.6
110	243L1110	-	79.0	102.0	64.1	71.2	17.2	8011.8	3462.9
200	243L1200	-	85.0	104.0	66.9	71.8	23.6	8010.8	2782.1
305	243L1305	-	82.0	114.0	60.9	70.7	23.8	7988.3	2166.6
183	243A1183	-	77.0	102.0	64.6	72.1	24.5	7979.7	2895.1
147	243L1147	-	80.0	100.0	66.5	71.6	18.3	7973.5	3442.1
273	243L1273	-	80.0	91.0	62.1	69.6	14.0	7973.3	4280.8
328	243L1328	-	77.0	96.0	62.6	71.0	18.7	7966.1	3377.5
337	243L1337	-	82.0	98.0	65.0	71.6	19.9	7963.1	4665.6
159	243L1159	-	82.0	92.0	59.5	68.3	17.7	7961.2	4125.2
255	243L1255	-	83.0	109.0	61.1	71.0	30.0	7958.5	1507.5
297	243L1297	-	75.0	110.0	64.2	71.6	17.7	7953.2	3010.6
42	243L1042	-	81.0	101.0	63.8	70.6	9.5	7948.0	4137.2
119	243L1119	-	78.0	101.0	66.6	72.5	17.4	7945.9	4163.7
40	243L1040	-	75.0	99.0	62.6	71.1	19.4	7932.3	2363.3
344	243L1344	-	80.0	96.0	63.7	70.7	13.7	7920.3	4093.4
101	243L1101	-	82.0	100.0	61.5	70.1	12.9	7910.9	4385.6
36	243L1036	-	80.0	100.0	66.4	72.5	10.4	7901.2	3840.4
201	243L1201	-	80.0	99.0	63.2	71.5	10.1	7882.4	2463.6
265	243L1265	-	79.0	101.0	65.7	72.7	18.2	7862.5	4410.3
319	243L1319	-	78.0	103.0	66.5	72.6	21.2	7855.8	3163.9
298	243L1298	-	83.0	102.0	64.1	71.5	29.2	7848.3	1335.3
296	243L1296	-	82.0	99.0	64.7	71.5	24.0	7841.7	3627.4
10	243L1010	-	76.0	97.0	63.5	71.1	14.2	7838.2	3148.1
282	243L1282	-	75.0	109.0	62.2	70.7	19.1	7827.0	4885.0
173	243L1173	-	78.0	106.0	63.4	70.1	18.9	7825.2	4576.7
224	243L1224	-	84.0	102.0	64.5	71.3	8.7	7817.1	4614.9
217	243L1217	-	81.0	103.0	64.9	71.5	16.4	7816.7	3163.8
241	243L1241	-	79.0	97.0	63.8	71.6	23.0	7816.2	2436.3
39	243L1039	-	84.0	97.0	66.2	71.9	13.5	7794.8	3141.5
35	243L1035	-	80.0	94.0	68.4	73.6	10.6	7777.0	4136.7
121	243L1121	-	81.0	105.0	60.3	70.7	14.9	7770.8	4848.9
50	243L1050	-	78.0	106.0	65.7	71.4	15.5	7763.2	3493.8
62	243L1062	-	74.0	97.0	58.6	70.1	22.8	7744.4	2037.4
289	243L1289	-	77.0	100.0	54.4	66.4	13.8	7721.6	4879.4
55	243L1055	-	78.0	99.0	64.3	71.4	-	7716.0	4466.2
38	243L1038	-	80.0	96.0	56.6	69.9	27.7	7701.8	2751.2
309	243L1309	-	82.0	101.0	64.7	71.6	19.7	7700.5	4440.2
12	243L1012	-	85.0	102.0	66.6	72.8	14.9	7679.6	3686.5
256	243L1256	-	81.0	98.0	63.7	71.6	25.4	7669.8	2758.0
82	243L1082	-	80.0	108.0	69.6	75.0	26.1	7666.6	2840.6
13	243L1013	-	79.0	98.0	53.5	69.3	15.4	7666.2	4161.5
192	243A1192	-	78.0	96.0	68.7	73.9	13.4	7606.9	3122.3
174	243L1174	-	78.0	89.0	66.3	72.2	19.1	7604.3	3433.4

Continued.

Table 4. Continued.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
54	243L1054	-	81.0	97.0	65.3	71.7	9.6	7585.8	4095.2
222	243L1222	-	81.0	92.0	60.0	71.5	26.2	7583.6	2800.7
290	243L1290	-	73.0	101.0	60.4	69.0	20.4	7575.3	2542.1
280	243L1280	-	74.0	103.0	63.4	70.0	16.3	7573.5	3186.3
111	243L1111	-	83.0	95.0	70.2	75.1	12.2	7557.3	3809.2
143	243L1143	-	80.0	97.0	68.6	73.0	21.8	7545.5	3815.9
28	243L1028	-	84.0	106.0	65.9	72.5	15.7	7526.8	3440.3
84	243L1084	-	79.0	96.0	64.5	70.5	12.7	7519.5	2977.7
49	243L1049	-	83.0	108.0	62.8	70.8	13.1	7518.8	2860.8
216	243L1216	-	81.0	101.0	62.4	71.0	21.0	7508.7	3232.1
172	243L1172	-	77.0	98.0	57.9	68.3	11.5	7481.4	4254.5
43	243L1043	-	82.0	97.0	66.9	72.3	11.8	7449.9	3836.3
330	243L1330	-	82.0	98.0	60.2	69.5	12.1	7447.5	4873.3
91	243L1091	-	84.0	112.0	65.0	72.4	16.9	7425.6	3811.4
324	243L1324	-	74.0	97.0	58.1	69.6	31.7	7396.8	3835.2
225	243L1225	-	82.0	88.0	68.4	73.5	16.4	7370.1	3015.7
357	PVL04	-	80.0	105.0	63.4	72.0	25.2	7358.7	3140.3
132	243L1132	-	83.0	100.0	67.4	72.3	16.2	7316.6	2175.4
52	243L1052	-	77.0	104.0	53.8	67.6	23.6	7312.6	1959.1
94	243L1094	-	83.0	104.0	68.8	73.4	12.4	7304.4	3870.8
9	243L1009	-	80.0	99.0	66.6	72.3	11.5	7300.4	4053.3
181	243A1181	-	78.0	100.0	66.8	72.3	21.3	7293.5	2794.5
285	243L1285	-	78.0	105.0	64.9	70.4	12.9	7239.5	5556.4
149	243L1149	-	82.0	105.0	66.8	72.0	19.8	7210.5	4139.4
130	243L1130	-	83.0	93.0	68.4	73.3	16.1	7175.4	4521.9
292	243L1292	-	82.0	111.0	66.5	72.5	20.5	7159.6	1906.9
144	243L1144	-	81.0	99.0	66.9	72.0	14.2	7150.3	3812.9
59	243L1059	-	75.0	97.0	53.0	70.2	32.0	7113.6	2409.1
184	243A1184	-	80.0	98.0	68.3	72.8	7.8	7108.7	2569.1
176	243A1176	-	75.0	101.0	63.1	71.6	13.2	7104.6	2069.8
5	243L1005	-	77.0	99.0	65.8	71.6	9.1	7065.3	2978.3
169	243L1169	-	84.0	93.0	66.5	72.2	12.2	7053.2	3693.7
214	243L1214	-	83.0	99.0	62.8	71.5	20.8	7051.3	5094.6
8	243L1008	-	79.0	95.0	66.2	72.2	16.0	7043.1	3847.0
6	243L1006	-	83.0	106.0	65.2	72.0	10.9	7030.6	3754.4
165	243L1165	-	84.0	98.0	67.3	72.7	7.6	7000.7	4465.5
237	243L1237	-	79.0	111.0	54.7	70.0	17.3	6954.3	2516.1
30	243L1030	-	76.0	102.0	57.8	68.8	14.9	6932.1	3352.8
218	243L1218	-	82.0	93.0	66.8	71.8	14.1	6927.6	2903.2
293	243L1293	-	82.0	104.0	65.8	71.4	19.7	6923.6	3084.6
170	243L1170	-	79.0	97.0	57.9	71.7	12.2	6881.9	4439.8
340	243L1340	-	80.0	103.0	54.3	68.2	22.3	6871.4	3255.1
116	243L1116	-	80.0	94.0	66.5	72.3	13.2	6856.3	3569.7
1	243L1001	-	84.0	101.0	62.5	70.7	8.6	6828.8	2612.9
167	243L1167	-	80.0	105.0	59.6	69.5	18.9	6791.8	4384.2
27	243L1027	-	79.0	99.0	65.9	73.4	22.9	6660.7	2952.3
303	243L1303	-	78.0	111.0	45.5	70.0	22.7	6618.4	3158.3
58	243L1058	-	77.0	102.0	60.0	70.7	28.3	6580.7	3045.5
334	243L1334	-	84.0	103.0	65.0	71.5	14.4	6578.9	4776.2
79	243L1079	-	80.0	101.0	60.0	70.8	19.5	6511.9	3511.2

Continued.

Table 4. Continued.

Entry	Line	Vigor¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
78	243L1078	-	82.0	102.0	64.6	71.0	11.1	6507.5	4396.0
166	243L1166	-	80.0	97.0	64.1	70.9	8.9	6423.6	3418.9
162	243L1162	-	74.0	111.0	50.7	67.5	23.4	6377.0	3086.6
146	243L1146	-	81.0	104.0	65.4	70.9	15.8	6304.5	2950.9
195	243L1195	-	82.0	102.0	60.0	69.8	11.7	6234.9	3654.7
21	243L1021	-	80.0	100.0	66.1	72.2	17.4	6230.6	4135.0
187	243A1187	-	76.0	103.0	57.4	70.5	15.9	6222.9	1482.0
164	243L1164	-	80.0	108.0	60.3	71.1	20.9	5814.6	4289.9
219	243L1219	-	79.0	99.0	60.3	71.0	16.6	5194.0	3358.4
31	243L1031	-	77.0	99.0	54.7	70.6	15.3	5098.9	2686.4

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken at this location.

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, pedigrees, 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 2024 Date of Planting trials.

Location	Trial	Planting	Harvesting
HRCRRS	DOP 1	2/15	7/22
	DOP 2	3/4	7/22
	DOP 3	3/14	7/29
	DOP 4	3/28	8/6
	DOP 5	4/15	8/12
	DOP 6	5/8	9/3
	DOP 7	5/21	9/20
	DOP 8	6/7	9/27

Table 2. Entry number, grain type, and source information for entries in the Date of Planting trials, 2024.

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	CLHA03	CL163/CL153	HI	LAES
CN	4	211L1008	RU1702183/Avant	LG	LAES
CL	5	CLM05	Earl/PI350298//Jupiter/RU1501096	MG	AAES
CN	6	Fitzgerald	Jazzman2/Catahoula	AL	LAES
CN	7	Taurus	Rico1/Bengal//RU0602162/RU0502031	MG	AAES
CN	8	RU2102070	Titan/Jupiter	MG	LAES
PV	9	PVL03	PVL01/Catahoula	LG	LAES
PV	10	PVL04	18SIT0557*3/HPHI2	LG	AAES
PV	11	213L1130	PVL01/Catahoula	LG	LAES
PV	12	213L1140	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 Dixie Belle 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 12 rice varieties and experimental lines planted over eight planting dates, 2024. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 14	March 28	April 15	May 8	May 21	June 7	
CLL18	11088	11715.4	10749.0	10834.7	10039.4	4992.5	4934.2	6189.3	8817.8
CLL19	10260.9	11073.5	10184.3	9983.5	9000.8	4367.9	4752.9	4823.3	8055.9
CLHA03	9137.6	9511.4	9284.2	8912.2	9297.5	4008.6	4165.4	5077.4	7424.3
211L1008	10292.1	9772.1	9753.3	10409.5	9561.4	4280.2	4343.1	3918.0	7791.2
CLM05	10865.4	10822.6	10366.6	9722.4	9462.7	5727.2	3256.2	3649.0	7984.0
Fitzgerald	9216.9	9564.0	8989.9	9298.5	8327.6	2929.6	2707.6	4437.9	6934.0
Taurus	9522.5	10432.5	10811.5	10848.7	10306.3	4463.7	2901.2	3560.6	7855.9
Venus	10209.2	10060.7	10257.3	9484.6	9536.8	1925.2	2317.9	3610.1	7175.2
PVL03	10035.7	9099.0	8874.4	8703.8	8979.8	3694.6	3459.1	4135.7	7122.8
PVL04	9516.2	9396.8	9109.0	9717.4	8752.4	3928.5	3595.9	4119.3	7267.0
213L1130	10356.6	10446.5	9944.8	9541.7	9482.1	4739.9	3894.9	5422.2	7978.6
213L1140	10143.1	9838.3	9368.0	9761.1	9646.8	3982.3	3300.4	3826.2	7483.3
Mean	10053.7	10144.4	9807.7	9768.2	9366.1	4086.7	3635.7	4397.4	

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

Table 4. Seedling vigor[†] of 12 rice varieties and experimental lines planted over eight planting dates, 2024. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 14	March 28	April 15	May 8	May 21	June 7	
CLL18	1.7	2.3	2.3	2.3	1.0	-	-	-	1.9
CLL19	3.0	3.0	3.0	2.3	3.0	-	-	-	2.9
CLHA03	3.0	3.0	4.3	3.0	2.3	-	-	-	3.1
211L1008	3.0	3.0	3.0	3.0	3.0	-	-	-	3.0
CLM05	1.7	1.0	3.0	1.0	1.0	-	-	-	1.5
Fitzgerald	3.0	3.0	3.7	3.0	3.0	-	-	-	3.1
Taurus	1.7	2.3	3.0	1.7	1.7	-	-	-	2.1
Venus	1.0	3.0	3.0	4.3	4.3	-	-	-	3.1
PVL03	2.3	1.7	2.3	1.0	1.7	-	-	-	1.8
PVL04	3.7	3.0	3.7	4.3	3.0	-	-	-	3.5
213L1130	3.0	3.0	3.7	3.0	3.0	-	-	-	3.1
213L1140	3.0	3.0	4.3	3.7	3.7	-	-	-	3.5
Mean	2.5	2.6	3.3	2.7	2.6	NA	NA	NA	

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

Table 5. Days to 50% heading[†] of 12 rice varieties and experimental lines planted over eight planting dates, 2024. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 14	March 28	April 15	May 8	May 21	June 7	
CLL18	103.0	87.0	81.7	84.3	70.7	70.7	76.3	71.0	80.6
CLL19	98.0	81.7	79.7	77.3	66.3	65.3	73.3	65.7	75.9
CLHA03	100.3	85.0	80.7	81.7	70.7	68.3	75.7	74.0	79.5
211L1008	96.0	82.0	78.7	79.7	66.3	63.3	72.7	67.0	75.7
CLM05	99.7	87.3	86.0	84.7	74.3	75.0	78.7	76.3	82.8
Fitzgerald	98.3	81.7	77.3	77.7	67.3	68.3	75.0	67.3	76.6
Taurus	98.0	82.7	80.0	79.3	68.7	69.3	74.0	74.7	78.3
Venus	98.0	84.0	80.7	79.7	70.7	72.0	75.7	75.0	79.5
PVL03	99.0	84.0	79.7	81.0	70.3	67.0	74.7	67.0	77.8
PVL04	105.3	89.3	85.0	85.7	74.7	73.7	79.3	71.3	83.0
213L1130	102.7	86.7	81.7	83.7	71.7	71.3	77.3	68.0	80.4
213L1140	101.7	88.3	82.0	82.7	71.3	66.7	76.0	66.0	79.3
Mean	100.0	85.0	81.1	81.4	70.3	69.2	75.7	70.3	

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

Table 6. Plant height[†] of 12 rice varieties and experimental lines planted over eight planting dates, 2024. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 14	March 28	April 15	May 8	May 21	June 7	
CLL18	118.0	114.7	120.0	104.7	107.0	100.7	100.7	101.3	108.4
CLL19	100.0	96.7	97.7	98.7	99.3	93.7	90.0	93.0	96.1
CLHA03	102.0	102.0	102.0	98.3	102.7	101.7	93.0	94.3	99.5
211L1008	99.0	100.3	106.3	102.0	103.3	95.0	94.0	93.7	99.2
CLM05	111.7	110.7	118.0	95.7	96.3	90.0	88.7	84.7	99.5
Fitzgerald	108.0	104.0	105.7	97.7	100.7	96.3	88.7	93.0	99.3
Taurus	100.0	100.0	102.0	87.7	93.3	86.3	79.7	78.3	90.9
Venus	102.7	105.3	103.0	97.3	100.7	78.0	82.7	82.3	94.0
PVL03	109.7	103.3	110.7	103.7	108.3	100.0	96.3	101.3	104.2
PVL04	110.3	111.3	113.0	105.3	106.3	96.7	94.3	99.3	104.6
213L1130	105.0	104.7	100.3	101.0	104.0	99.7	95.0	98.0	101.0
213L1140	101.7	103.0	104.0	105.0	103.3	97.7	96.3	97.0	101.0
Mean	105.7	104.7	106.9	99.8	102.1	94.6	91.6	93.0	

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

Table 7. Whole milling percentage[†] of 12 rice varieties and experimental lines planted over eight planting dates, 2024. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 14	March 28	April 15	May 8	May 21	June 7	
CLL18	58.8	56.0	51.3	56.1	53.9	45.6	45.5	62.5	53.7
CLL19	62.0	60.6	56.4	50.2	52.0	46.2	52.1	65.3	55.6
CLHA03	62.1	63.3	58.5	60.1	62.6	50.2	54.4	69.2	60.0
211L1008	63.2	65.0	59.4	62.5	64.7	53.3	58.8	69.0	62.0
CLM05	65.1	62.6	56.5	42.3	39.8	44.5	33.4	50.7	49.4
Fitzgerald	65.1	66.4	60.2	69.1	68.1	52.6	54.4	72.2	63.5
Taurus	64.3	62.5	56.1	37.9	36.7	44.7	40.2	58.5	50.1
Venus	65.5	64.1	52.1	36.6	40.0	42.5	31.5	52.2	48.0
PVL03	61.0	63.3	48.4	54.3	51.9	36.0	38.8	62.7	52.1
PVL04	58.8	59.5	54.7	60.5	66.3	47.1	57.4	69.7	59.2
213L1130	58.4	59.0	51.7	57.7	56.8	46.8	47.2	68.8	55.8
213L1140	55.3	49.6	45.0	48.2	51.7	35.0	37.1	59.4	47.7
Mean	61.6	61.0	54.2	52.9	53.7	45.4	45.9	63.4	

[†] 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, 2024. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 14	March 28	April 15	May 8	May 21	June 7	
CLL18	68.7	67.4	64.6	68.0	67.4	62.7	64.0	70.5	66.6
CLL19	69.5	69.6	66.0	67.3	68.1	60.8	64.6	72.1	67.2
CLHA03	69.5	70.2	66.7	68.1	69.2	63.0	66.0	73.1	68.2
211L1008	70.4	71.0	67.9	70.7	72.2	64.2	67.8	74.4	69.8
CLM05	68.9	69.5	62.8	63.6	61.6	59.3	59.2	64.7	63.7
Fitzgerald	71.0	71.7	69.3	74.9	75.5	65.8	66.3	76.4	71.3
Taurus	71.1	70.6	65.7	65.7	65.2	61.7	62.3	68.9	66.4
Venus	69.0	70.2	63.4	63.6	63.9	56.4	58.2	65.8	63.8
PVL03	70.9	70.8	65.0	68.8	68.7	58.0	61.2	71.8	66.9
PVL04	68.6	69.2	65.7	70.0	74.3	63.7	67.6	76.4	69.4
213L1130	69.3	69.6	65.4	69.0	69.5	62.7	64.0	74.7	68.0
213L1140	69.3	68.6	63.9	65.9	67.4	56.5	58.1	70.7	65.0
Mean	69.7	69.9	65.5	68.0	68.6	61.2	63.3	71.6	

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

Table 9. Chalk impact[†] of 12 rice varieties and experimental lines planted over eight planting dates, 2024. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 14	March 28	April 15	May 8	May 21	June 7	
CLL18	31.5	35.4	32.3	23.0	29.3	32.6	26.7	24.0	29.3
CLL19	29.6	29.0	30.5	25.8	22.8	26.3	26.4	22.1	26.6
CLHA03	23.4	26.5	22.9	19.7	20.8	24.9	23.9	20.2	22.8
211L1008	22.8	25.1	24.5	22.5	22.3	24.0	22.7	19.5	22.9
CLM05	24.2	26.5	22.8	17.6	22.6	24.6	17.7	17.3	21.7
Fitzgerald	10.6	16.5	17.4	19.7	14.3	16.3	14.8	15.6	15.6
Taurus	18.7	21.6	15.3	15.6	15.8	19.4	14.7	14.4	16.9
Venus	22.4	24.8	22.2	21.9	18.2	34.7	21.3	13.9	22.4
PVL03	23.4	25.8	23.2	20.4	16.8	33.3	29.6	21.7	24.3
PVL04	22.6	26.5	28.6	21.5	22.4	36.7	25.3	24.5	26.0
213L1130	25.6	29.8	27.2	20.5	20.4	39.2	26.9	17.6	25.9
213L1140	24.6	25.1	23.3	19.5	15.4	26.3	25.8	17.8	22.2
Mean	23.3	26.0	24.2	20.6	20.1	28.2	23.0	19.0	

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

Table 10. Ratoon grain yields[†] of 12 rice varieties and experimental lines planted over eight planting dates, 2024. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Planting Date								Mean
	Feb. 15	March 4	March 14	March 28	April 15	May 8	May 21	June 7	
CLL18	2965.2	2752.3	2613.7	2235.9	1205.4	-	-	-	2354.5
CLL19	2793.7	2787.1	2442.8	2853.5	2775.0	-	-	-	2730.4
CLHA03	2739.7	2684.2	2880.0	2706.6	2281.7	-	-	-	2658.4
211L1008	2720.3	2430.3	2912.1	2621.2	1928.3	-	-	-	2522.4
CLM05	3370.9	3057.2	3425.4	3449.3	1607.5	-	-	-	2982.0
Fitzgerald	2370.1	2355.2	2501.1	2660.3	2343.8	-	-	-	2446.1
Taurus	2590.7	2641.3	3060.9	2670.7	2373.7	-	-	-	2667.5
Venus	3272.8	3035.3	3480.6	3298.9	2791.6	-	-	-	3175.8
PVL03	2338.2	2325.5	2234.7	2376.7	1824.3	-	-	-	2219.9
PVL04	3222.9	2732.9	2360.3	1759.8	1350.3	-	-	-	2285.2
213L1130	2744.8	2575.6	2772.0	2762.7	1753.7	-	-	-	2521.8
213L1140	2134.5	2323.2	1713.8	1780.8	1187.2	-	-	-	1827.9
Mean	2772.0	2641.7	2699.8	2598.0	1951.9	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 2024 URRN test included 40 experimental lines and varieties planted in six states. The randomized complete-block design was applied with three replications. Seeding rates were 75 lb/A for varieties.

The 2024 URRN results from the HRCRRS will be reported. All plots were drill seeded on February 26. The test was harvested on July 29. The test was 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 Table shows grain and milling yields and agronomic performance (seedling vigor, days to 50% heading, plant height, whole and total milling, chalk, and main and ratoon yield) of entries in the 2024 URRN at the HRCRRS.

Table 1. Entry number, pedigree, grain type, and source information for entries in the Uniform Regional Rice Nursery, 2024.

Herbicide Type*	Entry	Line	Pedigree	Grain Type†	Source‡
CN	1	TXEL1033	-	LG	TAES
CN	2	TXEL1035	-	LG	TAES
CN	3	TXEL0969	-	LG	TAES
CN	4	TXEL0904	-	LG	TAES
CN	5	TXEL0936	-	LG	TAES
CN	6	Presidio	Jefferson//Maybelle/Rosemont	LG	TAES
CN	7	RU2003220	043752/0047277/CHEN	LG	TAES
CN	8	RU2103124	Jangseongbyeon/IR 1321-12	LG	TAES
CN	9	RU2203006	Cypress/3/Cypress/Newbonnet/Katy/4/Spring	L	TAES
CN	10	Trinity	Saber/Cocodrie//Presidio	LG	TAES
CN	11	201L1251	Catahoula/Lakast	LG	LAES
PV	12	203L1104	RU1502115/PVL01	LG	LAES
CN	13	211L1331	RU1602195/Della2	LG	LAES
CL	14	MP6_295	CL111/RoyJ//CL153/Lakast/3/CL153/Lakast//CL172/ Cypress	LG	LAES
CL	15	19T-033-38	CL153/RU1702183	LG	LAES
CN	16	AddiJo	Thad/Catahoula	HI	LAES
CN	17	Fitzgerald	Jazzman2/Catahoula	AL	LAES
CN	18	RU2102066	Titan/Jupiter	MG	LAES
CL	19	CLHA03	CL163/CL153	HI	LAES
CL	20	RU2102217	CL161//Cocodrie/9770532DH2/3/Cypress/Kaybonnet// 9502008A/4/Catahoula/5/CL172/6/CL172	LG	LAES
CL	21	23AR1125	RU1801169/RU1201111	LG	AAES
PV	22	23AR2114	Diamond/4/RU1201145/3/RU1601070/RU1401099//HPHI2	LG	AAES
PV	23	23AR2134	Diamond*2/4/RU1601070/RU1201145//HPHI2/3/17SIT556/ Jewel	LG	AAES
CL	24	24AR1134	RU2001125/RU1801145	LG	AAES

Continued.

Table 1. Continued.

Herbicide Type*	Entry	Line	Pedigree	Grain Type[†]	Source[‡]
CN	25	22AR151	Mermentau/Diamond//RU1601010	LG	AAES
CN	26	23LG115	ROYJ/2/KBNT/Q36194/7/LBNT/9902/3/DAWN/9695//STBN/4/LGRU/5/WLLS/6/LGRU//LMNT/RA73/3/LGRU/4/LGRU/8/91642//KATY/NWBT/5/RU9201176/4/KATY/NWBT/3/LBNT/STBN//NWBT/6/CYBT/7/FRNS	LG	AAES
CN	27	23LG116	IRGA409/RXMT/5/NWBT/3/LBNT/9902//LBLE/4/MILL/6/LBNT/9902/3/DAWN/9695//STBN/4/LGRU/5/WLLS/8/ROYJ/2/KBNT/Q36194/7/LBNT/9902/3/DAWN/9695//STBN/4/LGRU/5/WLLS/6/LGRU//LMNT/RA73/3/LGRU/4/LGRU	LG	AAES
CL	28	23CL1310	ProGold 2(RU1701081)/4/TMPT/3/DREW/CL161//CL142-AR	LG	AAES
CL	29	23CL1303	RoyJ/CLL16	LG	AAES
PV	30	23PV2513	Provisia/JEWL-PLT97//LKST	LG	AAES
-	31	RU2306047	-	-	USDA
-	32	RU2306048	-	-	USDA
CL	33	CLL19	Wells/CL161//Drew/CL161/3/Cheniere//Cocodrie/Jefferson	LG	LAES-CK
PV	34	PVL03	PVL01/Catahoula	LG	LAES-CK
CN	35	Ozark	Diamond/Lakast	LG	AAES-CK
CN	36	Avant	Trenasse//Cocodrie/Jefferson/3/Ahrent/Cocodrie//Cocodrie/LaGrue	LG	LAES-CK
CN	37	Taurus	Rico1/Bengal//RU0602162/RU0502031	MG	AAES-CK
CN	38	DG263L		LG	NAS-CK
CL	39	CLL18	RoyJ/CL142AR	LG	AAES-CK
CL	40	CLM05	Earl/PI350298//Jupiter/RU1501096	MG	AAES-CK

* Herbicide Type – Clearfield (CL), Conventional (CN), Provisia (PV), Segregating (Seg).

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

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

Table 2. Grain and milling yields and agronomic performance of entries in the 2024 Uniform Regional Rice Nursery. H. Rouse Caffey Rice Research Station, Rayne, LA.

Entry	Line	Vigor ¹	Days to 50% Heading	Plant Height (cm)	Whole Milling (%)	Total Milling (%)	Chalk (%)	Yield (lb/A)	Ratoon Yield (lb/A)
39	CLL18	-	97.0	106.0	55.2	67.6	38.2	12203.1	2190.7
40	CLM05	-	97.3	97.7	61.3	66.5	24.1	11947.2	3503.0
26	23LG115	-	95.3	104.0	55.6	69.2	32.4	11810.9	3283.8
24	24AR1134	-	97.7	105.7	59.4	69.0	31.1	11625.0	2591.1
18	RU2102066	-	95.0	94.0	50.3	67.7	26.8	11496.3	2707.4
11	201L1251	-	98.0	93.7	56.3	68.2	31.9	11369.7	2300.1
35	Ozark	-	95.3	100.7	51.7	67.5	37.1	11268.3	3550.1
21	23AR1125	-	94.0	95.3	58.1	68.8	34.7	11251.0	3195.5
29	23CL1303	-	102.3	112.3	55.6	68.2	33.5	11173.5	1397.8
23	23AR2134	-	96.0	100.7	52.3	67.2	36.9	11107.7	2716.4
37	Taurus	-	94.3	88.7	53.9	67.7	20.1	10971.1	3098.6
25	22AR151	-	95.3	98.7	56.5	68.5	29.1	10714.9	2481.8
22	23AR2114	-	95.3	112.3	50.5	67.2	27.0	10462.5	2550.0
38	DG263L	-	97.0	93.7	54.4	65.7	28.8	10445.1	2857.7
27	23LG116	-	95.3	109.7	53.1	67.3	46.3	10368.3	2988.1
16	AddiJo	-	97.0	104.0	56.5	68.3	27.9	10333.0	2435.9
20	RU2102217	-	93.0	90.0	53.0	67.1	36.4	10228.5	3376.6
14	MP6_295	-	95.3	95.3	53.0	67.0	36.7	10220.4	2926.7
9	RU2203006	-	98.3	91.0	53.1	69.7	31.4	10188.8	3225.3
33	CLL19	-	94.0	94.7	56.5	66.9	29.0	10053.3	3023.7
12	203L1104	-	100.7	95.0	60.5	69.6	31.7	10042.1	2785.8
1	TXEL1033	-	98.3	110.0	48.6	65.2	40.2	10025.5	2947.2
34	PVL03	-	95.3	101.3	57.6	68.9	26.6	9847.7	2534.6
19	CLHA03	-	96.7	96.0	59.8	68.8	29.3	9778.8	2795.5
2	TXEL1035	-	100.0	115.7	55.5	66.6	27.7	9711.7	2142.2
13	211L1331	-	99.7	102.3	61.7	69.6	24.4	9644.0	2985.0
7	RU2003220	-	97.7	97.3	62.2	69.9	26.7	9618.4	2792.0
5	TXEL0936	-	94.3	105.0	60.9	69.0	15.3	9612.5	3541.5
32	RU2306048	-	105.3	109.0	55.7	67.7	30.2	9509.5	3694.1
15	19T-033-38	-	96.3	98.0	61.8	69.9	24.8	9449.2	3264.7
8	RU2103124	-	100.3	113.3	60.7	67.9	17.0	9397.0	2881.0
36	Avant	-	88.7	91.7	61.6	70.0	27.7	9374.5	2990.1
6	Presidio	-	97.0	109.7	57.5	68.5	21.9	9311.2	3777.8
17	Fitzgerald	-	94.0	94.0	62.8	70.6	15.9	9287.6	2719.6
3	TXEL0969	-	94.0	104.3	61.6	69.4	14.4	9283.3	3581.3
4	TXEL0904	-	93.3	100.3	58.9	68.4	20.8	9205.7	3625.0
10	Trinity	-	101.0	110.3	62.7	69.1	16.8	9025.2	2621.2
31	RU2306047	-	105.7	113.3	64.3	69.4	9.4	8942.4	3923.9
28	23CL1310	-	97.3	116.7	51.9	67.6	32.8	8811.7	2829.2
30	23PV2513	-	95.3	93.7	45.9	66.3	33.1	8516.0	2667.7

¹ Subjective rating 0 to 9, where 0 = excellent, 9 = poor. Not taken for this trial.

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

H.S. Utomo, A. Famoso, and M. Kongchum

The majority of commercially available rice varieties have a high Glycemic Index (GI), with an average of approximately 73, which causes a rapid spike in blood sugar levels after consumption. For individuals managing diabetes, integrating lower-GI rice into their diets can be transformative, offering a staple food option that supports better glycemic control. The global diabetes landscape underscores the urgency for such dietary interventions: A). Global Prevalence: As of 2021, approximately 537 million adults (20-79 years) are living with diabetes worldwide. This number is projected to rise to 643 million by 2030 and 783 million by 2045, marking a 46% increase. B). Recent Findings: A study published in *The Lancet* on World Diabetes Day 2024 reported that the number of adults living with diabetes worldwide has surpassed 800 million, more than quadrupling since 1990. This significant rise emphasizes the escalating global health challenge posed by diabetes.

Scientific research has consistently highlighted the association between white rice consumption and an increased risk of developing type 2 diabetes: A). Meta-Analysis: A comprehensive meta-analysis published in *The BMJ* in 2012, which included studies from China, Japan, the U.S., and Australia, found that each additional serving of white rice per day was associated with an 11% increase in the risk of developing type 2 diabetes. B). Global Study: The Prospective Urban Rural Epidemiology (PURE) study, encompassing 132,373 participants across 21 countries, identified a significant association between higher white rice consumption (≥ 450 grams per day) and an increased risk of incident diabetes. The strongest association was observed in South Asia, where rice is a dietary staple, while other regions showed a more modest or nonsignificant correlation.

These findings underscore the critical need for developing and promoting low-GI rice varieties, especially in regions where rice is a fundamental component of daily nutrition. By offering healthier alternatives, the growing diabetes epidemic can be addressed, and the individuals can be empowered to better maintain long-term health without sacrificing their cultural and dietary preferences.

The integration of low-GI rice varieties into the diets of populations with high rice consumption offers a promising strategy to mitigate the rising prevalence of type 2 diabetes globally. Such dietary modifications, alongside broader public health initiatives, can play a pivotal role in improving health outcomes and reducing the burden of diabetes worldwide.

Development of the Second Generation of Low-GI Rice Lines: Nutritional Profile, Grain Quality, and Yield Potential

Diabetes continues to be a pressing public health issue in the United States, affecting approximately 38.4 million individuals, which accounts for 11.6% of the population as of 2021. Recent studies have highlighted a concerning trend: while the overall prevalence of diabetes has remained relatively stable between 2013 and 2023, glycemic control among adults with diagnosed diabetes has worsened in recent years, particularly between 2021 and 2023.

Rice is a dietary staple for many Americans, especially in regions with rich culinary traditions that feature rice-based dishes. However, traditional white rice has a high Glycemic Index (GI), leading to rapid increases in blood sugar levels, which poses challenges for individuals managing diabetes. The development and introduction of low-GI, high-protein rice varieties offer a promising solution. For instance, the LSU AgCenter has developed a rice variety named 'Frontière,' with an average GI of 41 - 14 points lower than standard rice varieties - classifying it within the low-GI category. Additionally, 'Frontière' contains 53% more protein than regular rice, enhancing its nutritional profile and making it a suitable option for those aiming to manage their blood sugar levels effectively.

Incorporating low-GI rice into diets could have a meaningful impact, particularly in regions where rice consumption is high, such as Louisiana, Mississippi, Texas, Arkansas, and California, as well as in urban centers with large rice-consuming immigrant communities. Louisiana, for instance, has over 500,000 residents living with diabetes and ranks fifth in the nation for diabetes-related mortality. The adoption of low-GI rice in such areas could significantly improve dietary options and support diabetes management efforts.

Beyond individual health benefits, the widespread adoption of low-GI rice varieties could alleviate public health and economic burdens associated with diabetes. Projections suggest that a 25% adoption rate of low-GI rice could lead to notable reductions in diabetes prevalence, particularly in regions where rice is a dietary staple. The integration of low-GI, high-protein rice varieties like 'Frontière' into the American diet presents a viable strategy to enhance diabetes management and improve overall public health outcomes.

A. Advanced Low-GI Rice Varieties: Nutritional Profile, Grain Quality, and Yield Potential

Table 1. Yield and analytical data of grain quality and nutritional profiles of four GI lines 22GIR-184, 22GIR-291, 22GIR-307, and 22GIR-328 based on the 2024 Preliminary Yield (PY) trials. Cultivar Frontière (FNTR) was included as a check.

TRAIT	FNTR	22GIR-184	22GIR-291	22GIR-307	22GIR-328
Yield (lbs/A) [†]	5,860	8,001	8,150	7,962	7,532
Crude Fat (g/100g)	0.65	1.1	1.9	1.0	0.7
Crude Fiber (g/100g)	0.8	1.2	1.0	1.9	2.3
Carbs (g/100g)	75	73	73	74	72
Calories (kcal/100g)	363	356	357	360	360
Protein (w/w) %	10.5	11.4	11.6	11.1	11.0
Amylose (w/w) %	21.3	20.4	21.3	21.0	20.6
Alkali Spreading	5	5	5	5	5
Gel Temp	Int.	Int.	Int.	Int.	Int.
Pasting Temp (°C)	81.3	80.6	80.7	81.1	80.7
Chalk (%)	10	9.0	8.9	7.0	4.0
Milling Quality (% hulls)	70.0	72.0	71.3	72.1	70.3
Milling yield (% whole kernel)	61.4	63.8	60.8	62.9	61.8
Glycemic Index ^{††}	41	44	46	49	48

[†]Averaged over 3 replications, 2024 PY tests. ^{††}Predicted value.

Table 2. Yield and analytical data of grain quality and nutritional profiles of five newer GI lines 23GIR-63, 23GIR-92, 23GIR-108, 23GIR-112, and 23GIR-197 based on the 2024 Preliminary Yield (PY) trials.

TRAIT	23GIR-63	23GIR-92	23GIR-108	23GIR-112	23GIR-197
Yield (lbs/A) [†]	7,041	8,047	7,966	8,021	8,110
Crude Fat (g/100g)	1.1	1.5	1.9	1.6	2.0
Crude Fiber (g/100g)	0.8	1.6	1.3	2.8	3.3
Carbs (g/100g)	74	76	77	76	74
Calories (kcal/100g)	350	346	341	367	330
Protein (w/w) %	12.1	12.3	12.3	11.9	11.0
Amylose (w/w) %	20.1	20.0	21.4	20.2	20.4
Alkali Spreading	4	5	4	5	5
Gel Temp	Int.	Int.	Int.	Int.	Int.
Pasting Temp (°C)	78.0	80.0	78.5	79.4	80.1
Chalk (%)	7.0	9.0	8.8	8.0	7.8
Milling Quality (%)	70.0	71.0	70.4	70.7	72.0
Milling yield (% whole kernel)	62.0	64.0	63.2	63.1	63.0
Glycemic Index ^{††}	47	44	43	40	42

[†]Averaged over 3 replications, 2023 PY tests. ^{††}Predicted value.

B. Agronomic Performance and DNA Marker Profiles of Selected Advanced Lines

Selected breeding lines were evaluated for key agronomic traits, including seedling vigor (VIG), heading date (HDT), plant height (HTE), and yield potential. DNA marker data were also generated as part of the analysis. These assessments were conducted during replicated Preliminary Yield Trials at the H. Rouse Caffey Rice Research Station (HRCRRS) in Crowley, LA.

Table 3. Performance of advanced marker-assisted breeding lines in the 2024 Preliminary Yield trials at the H. Rouse Caffey Rice Research Station, Crowley, LA.

Entry	Line ID	VIG*	HDT†	HTE†	Yield†	DNA Maker Analysis for Amylose Cont.	DNA Maker Analysis for Amylose ALK
23HUP 001	20MB001	4.1	85.4	92.3	7,993.0	High Amylose	High/Intermediate GT
23HUP 002	20MB003	5.0	84.2	92.7	9,195.0	High Amylose	High/Intermediate GT
23HUP 003	20MB009	4.5	87.4	93.7	7,950.5	High Amylose	High/Intermediate GT
23HUP 004	20MB011	4.6	86.4	92.7	9,175.0	High Amylose	High/Intermediate GT
23HUP 005	20MB016	4.6	78.3	94.0	7,960.1	High Amylose	High/Intermediate GT
23HUP 006	20MB017	4.2	88.0	88.6	9,355.6	High Amylose	High/Intermediate GT
23HUP 007	20MB021	5.0	77.5	91.2	8,079.6	High Amylose	High/Intermediate GT
23HUP 008	20MB025	4.0	88.1	96.6	8,967.7	High Amylose	High/Intermediate GT
23HUP 009	20MB028	4.2	86.1	84.1	7,007.9	High Amylose	High/Intermediate GT
23HUP 010	20MB034	4.2	84.0	90.1	9,979.7	High Amylose	High/Intermediate GT
23HUP 011	20MB047	4.1	90.3	80.3	8,088.5	High Amylose	High/Intermediate GT
23HUP 012	20MB056	4.0	90.3	86.3	7,747.4	High Amylose	High/Intermediate GT
23HUP 013	20MB089	4.5	87.1	86.3	8,812.5	High Amylose	High/Intermediate GT
23HUP 014	20MB091	4.6	84.0	84.2	9,954.9	High Amylose	High/Intermediate GT
23HUP 015	20MB099	4.6	90.5	91.2	8,197.5	High Amylose	High/Intermediate GT
23HUP 016	20MB134	4.1	85.2	82.4	9,076.1	High Amylose	High/Intermediate GT
23HUP 017	20MB156	4.6	80.2	91.3	7,838.2	High Amylose	High/Intermediate GT
23HUP 018	20MB187	4.6	81.5	97.2	7,800.6	High Amylose	High/Intermediate GT
23HUP 019	20MB198	4.2	85.7	88.6	8,643.4	High Amylose	High/Intermediate GT
23HUP 020	20MB205	5.0	92.0	86.8	7,909.1	High Amylose	High/Intermediate GT
Check	Cypress	4.3	92.3	98.2	7,077.0	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).

C. Performance of key trait indicators among new Low GI breeding lines evaluated in the 2024 head rows field

During the growing season of 2024, a total of 3,200 low Glycemic Index (GI) rice breeding lines were evaluated. A selected subset was further analyzed for key traits, including resistant starch, bran oil content, and protein content. Standard assessments for amylose content and gel temperature were also conducted. A summary of the findings from these evaluated breeding lines is presented in Table 4.

Table 4. Performance of key trait indicators among breeding lines grown in the 2024 head rows at the HRCRRS.

Entry	Line ID	BOC [†]	RS ^{††}	Pro ^{††}	Row Yield [†]	DNA Maker Analysis for Amylose Cont.	Cooking Quality
23GIR 001	20CG -1-003	1.2	1.3	11.9	805	High Amylose	Intermediate
23GIR 002	20CG -1-004	0.7	1.0	12.0	796	High Amylose	Intermediate
23GIR 003	20CG -1-006	0.8	0.7	12.0	703	High Amylose	Intermediate
23GIR 004	20CG -1-011	0.8	1.2	12.7	740	High Amylose	Intermediate
23GIR 005	20CG -1-013	1.8	2.8	12.8	876	High Amylose	Intermediate
23GIR 006	20CG -1-017	1.9	2.5	12.0	774	High Amylose	Intermediate
23GIR 007	20CG -1-018	0.9	1.7	12.9	735	High Amylose	Intermediate
23GIR 008	20CG -1-020	0.9	2.0	10.5	717	High Amylose	Intermediate
23GIR 009	20CG -1-023	1.2	2.4	10.3	709	High Amylose	Intermediate
23GIR 010	20CG -1-024	1.0	1.8	12.6	803	High Amylose	Intermediate
23GIR 011	20CG -1-025	1.9	1.7	11.9	676	High Amylose	Intermediate
23GIR 012	20CG -2-031	1.7	2.7	12.9	609	High Amylose	Intermediate
23GIR 013	20CG -2-033	0.6	1.7	12.7	819	High Amylose	Intermediate
23GIR 014	20CG -2-044	1.6	2.0	13.3	705	High Amylose	Intermediate
23GIR 015	20CG -2-056	1.9	2.3	13.4	699	High Amylose	Intermediate
23GIR 016	20CG -2-059	1.4	1.5	13.9	911	High Amylose	Intermediate
23GIR 017	20CG -2-088	0.9	2.0	13.5	655	High Amylose	Intermediate
23GIR 018	20CG -2-091	1.0	1.5	11.2	786	High Amylose	Intermediate
23GIR 019	20CG -3-098	1.7	2.2	12.9	869	High Amylose	Intermediate
23GIR 020	20CG -3-134	1.8	1.7	10.6	887	High Amylose	Intermediate
23GIR 021	20CG -3-139	1.9	1.7	12.2	936	High Amylose	Intermediate
23GIR 022	20CG -3-144	0.8	1.6	12.9	658	High Amylose	Intermediate
23GIR 023	20CG -3-156	0.8	2.9	12.8	680	High Amylose	Intermediate
23GIR 024	20CG -3-177	1.4	2.1	12.3	802	High Amylose	Intermediate
23GIR 025	20CG -3-178	0.9	1.2	13.2	871	High Amylose	Intermediate
23GIR 026	20CG -3-181	1.7	1.3	12.1	877	High Amylose	Intermediate
23GIR 027	20CG -3-189	1.9	1.7	12.6	872	High Amylose	Intermediate
23GIR 028	20CG -3-190	0.9	2.2	12.4	787	High Amylose	Intermediate
23GIR 029	20CG -3-199	1.7	1.9	11.8	745	High Amylose	Intermediate
23GIR 030	20CG -3-201	0.9	1.3	12.0	811	High Amylose	Intermediate
23GIR 031	20CG -3-208	0.8	2.3	12.9	823	High Amylose	Intermediate
23GIR 032	20CG -3-210	1.1	2.0	12.8	878	High Amylose	Intermediate
23GIR 033	20CG -3-212	0.9	2.4	11.4	787	High Amylose	Intermediate
23GIR 034	20CG -3-214	0.8	2.9	12.4	700	High Amylose	Intermediate
23GIR 035	20CG -4-215	1.1	1.9	10.4	788	High Amylose	Intermediate
23GIR 036	20CG -4-255	0.8	0.9	12.9	877	High Amylose	Intermediate
23GIR 037	20CG -4-256	1.9	1.4	13.5	789	High Amylose	Intermediate
23GIR 038	20CG -4-267	1.9	2.4	12.9	789	High Amylose	Intermediate
23GIR 039	20CG -4-268	1.4	1.6	12.5	809	High Amylose	Intermediate
23GIR 040	20CG -4-289	1.9	1.7	12.6	744	High Amylose	Intermediate
23GIR 041	20CG -4-290	0.9	2.9	12.2	768	High Amylose	Intermediate
23GIR 042	20CG -4-292	1.2	1.9	12.3	855	High Amylose	Intermediate

Continued.

Table 4. Continued.

Entry	Line ID	BOC [†]	RS ^{††}	Pro ^{††}	Row Yield [†]	DNA Maker Analysis for Amylose Cont.	Cooking Quality
23GIR 043	20CG -4-301	1.1	1.7	13.2	711	High Amylose	Intermediate
23GIR 044	20CG -4-309	0.8	2.0	12.9	723	High Amylose	Intermediate
23GIR 045	20CG -4-322	0.7	2.0	11.9	798	High Amylose	Intermediate
23GIR 046	20CG -4-324	0.9	1.9	12.3	760	High Amylose	Intermediate
23GIR 047	20CG -4-334	1.8	1.7	11.9	807	High Amylose	Intermediate
23GIR 048	20CG -4-339	1.3	1.0	13.7	798	High Amylose	Intermediate
23GIR 049	20CG -4-340	1.3	1.1	13.3	816	High Amylose	Intermediate
23GIR 050	20CG -4-341	1.8	1.3	12.9	810	High Amylose	Intermediate
23GIR 051	20CG -5-345	0.5	2.0	12.3	659	High Amylose	Intermediate
23GIR 052	20CG -5-351	0.9	1.3	11.8	899	High Amylose	Intermediate
23GIR 053	20CG -5-353	1.9	1.4	12.1	800	High Amylose	Intermediate
23GIR 054	20CG -5-356	1.0	2.7	12.1	901	High Amylose	Intermediate
23GIR 055	20CG -5-359	0.8	1.1	13.1	800	High Amylose	Intermediate
23GIR 056	20CG -5-361	1.7	1.7	12.6	811	High Amylose	Intermediate
23GIR 057	20CG -5-374	0.9	1.8	13.0	934	High Amylose	Intermediate
23GIR 058	20CG -5-377	0.4	2.9	13.9	656	High Amylose	Intermediate
23GIR 059	20CG -5-379	0.9	3.0	11.3	709	High Amylose	Intermediate
23GIR 060	20CG -5-402	1.9	1.2	11.9	791	High Amylose	Intermediate
23GIR 061	20CG -5-403	1.1	1.3	11.9	799	High Amylose	Intermediate
23GIR 062	20CG -5-407	1.3	1.1	13.0	835	High Amylose	Intermediate
23GIR 063	20CG -6-455	0.3	1.4	12.0	576	High Amylose	Intermediate
23GIR 064	20CG -6-461	0.7	1.7	13.5	789	High Amylose	Intermediate
23GIR 065	20CG -6-464	1.2	1.2	11.4	699	High Amylose	Intermediate
23GIR 066	20CG -6-470	1.5	1.5	12.5	867	High Amylose	Intermediate
23GIR 067	20CG -6-585	0.8	2.8	11.4	699	High Amylose	Intermediate
23GIR 068	20CG -6-586	1.9	2.8	11.6	711	High Amylose	Intermediate
23GIR 069	20CG -6-502	2.2	2.3	11.6	821	High Amylose	Intermediate
23GIR 070	20CG -6-522	0.9	2.3	13.0	777	High Amylose	Intermediate
23GIR 071	20CG -6-524	0.9	2.1	13.2	804	High Amylose	Intermediate
23GIR 072	20CG -6-544	1.0	0.9	13.2	870	High Amylose	Intermediate
23GIR 073	20CG -6-547	0.9	0.8	12.7	755	High Amylose	Intermediate
23GIR 074	20CG -6-548	0.5	1.2	12.1	656	High Amylose	Intermediate
23GIR 075	20CG -7-567	0.2	1.3	12.3	868	High Amylose	Intermediate
23GIR 076	20CG -7-578	1.7	1.1	12.2	885	High Amylose	Intermediate
23GIR 077	20CG -7-579	1.6	2.9	11.6	774	High Amylose	Intermediate
23GIR 078	20CG -7-587	1.6	2.3	12.8	762	High Amylose	Intermediate
23GIR 089	20CG -7-588	1.0	1.1	13.9	840	High Amylose	Intermediate
23GIR 080	20CG -7-589	2.8	1.9	11.8	832	High Amylose	Intermediate
23GIR 081	20CG -7-592	1.7	1.8	11.7	737	High Amylose	Intermediate
23GIR 082	20CG -7-593	0.9	2.3	12.0	663	High Amylose	Intermediate
23GIR 083	20CG -7-596	1.9	1.1	12.5	848	High Amylose	Intermediate
23GIR 084	20CG -7-597	1.5	1.4	11.1	899	High Amylose	Intermediate
23GIR 085	20CG -7-598	0.7	0.6	10.3	800	High Amylose	Intermediate
23GIR 086	20CG -7-601	0.9	3.1	10.5	755	High Amylose	Intermediate
23GIR 087	20CG -7-656	1.9	2.3	11.2	698	High Amylose	Intermediate
23GIR 088	20CG -7-678	2.2	1.5	12.4	777	High Amylose	Intermediate
23GIR 089	20CG -7-688	0.9	2.0	14.1	780	High Amylose	Intermediate
23GIR 090	20CG -7-689	1.6	2.9	13.3	812	High Amylose	Intermediate
23GIR 091	20CG -7-692	1.9	3.0	13.2	856	High Amylose	Intermediate

Continued.

Table 4. Continued.

Entry	Line ID	BOC [†]	RS ^{††}	Pro ^{††}	Row Yield [†]	DNA Maker Analysis for Amylose Cont.	Cooking Quality
23GIR 092	20CG -7-693	1.5	1.2	13.9	934	High Amylose	Intermediate
23GIR 093	20CG -7-695	1.6	1.4	14.0	866	High Amylose	Intermediate
23GIR 094	20CG -7-698	0.3	1.9	11.7	711	High Amylose	Intermediate
23GIR 095	20CG -7-701	0.8	2.4	12.5	823	High Amylose	Intermediate
23GIR 096	20CG -7-706	1.7	1.2	13.2	734	High Amylose	Intermediate
23GIR 097	20CG -7-708	0.8	2.1	11.4	900	High Amylose	Intermediate
23GIR 098	20CG -7-754	1.9	1.9	11.9	823	High Amylose	Intermediate
23GIR 099	20CG -7-767	1.3	0.9	13.6	767	High Amylose	Intermediate
23GIR 100	20CG -8-782	0.7	2.4	12.7	722	High Amylose	Intermediate
CCDR	Check	0.8	0.9	7.1	742	High Amylose	High/Intermediate
CPRS	Check	0.9	1.1	7.1	722	High Amylose	High/Intermediate

* Protein Content determined using N-Combustion analyzer (% w/w).[†] BOC = Bran Oil Content (g/100g).

^{††}RS = Resistant starch (% w/w). ^{†††}Yield (lbs/A).

D. Genetic Marker Data and Analysis of Selected Low-GI Rice Lines

Table 5. Marker Data and Molecular Analysis of Low-GI Rice Lines

No.	Plant ID	Blast Genes	Type	ALK	WaxyExon1	WaxyE xon2	Waxy Hap)	Amylose Content	Gel Temp
1	20CG -1-001	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
2	20CG -1-002	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
3	20CG -1-007	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
4	20CG -1-008	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
5	20CG -1-011	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
6	20CG -1-012	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
7	20CG -1-012	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
8	20CG -1-023	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
9	20CG -1-026	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
10	20CG -1-029	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
11	20CG -1-030	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
12	20CG -1-033	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
13	20CG -1-035	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
14	20CG -1-039	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
15	20CG -1-040	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
16	20CG -2-055	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
17	20CG -2-056	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
18	20CG -2-067	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
19	20CG -2-069	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
20	20CG -2-072	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
21	20CG -2-073	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
22	20CG -2-078	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
23	20CG -2-080	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
24	20CG -3-089	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
25	20CG -3-091	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
26	20CG -3-092	Pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
27	20CG -4-096	Pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
28	20CG -4-104	Pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
29	20CG -4-105	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
30	20CG -4-107	Pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
31	20CG -4-112	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
32	20CG -4-131	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
33	20CG -4-142	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
34	20CG -4-144	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
35	20CG -4-150	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
36	20CG -4-151	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
37	20CG -4-154	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
38	20CG -5-155	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
39	20CG -5-156	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
40	20CG -5-158	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
41	20CG -5-160	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
42	20CG -5-168	pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
43	20CG -5-177	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
44	20CG -6-178	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy3(2)	Int Am	Int Gel
45	20CG -6-179	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
46	20CG -6-180	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
47	20CG -6-187	Pi-ta ² , Pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
48	20CG -6-190	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
49	20CG -6-193	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel
50	20CG -6-201	pi-ta ² , pi-b	L	IGT(2)	Std(2)	Std(2)	Amy2(2)	Int Am	Int Gel

* L = Long grain.

E. 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 improvements 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
23GIR 001	20CG-1-004	L	92.5	11.2
23GIR 002	20CG -1-007	L	90.6	11.3
23GIR 003	20CG -1-008	L	91.7	8.9
23GIR 004	20CG -1-011	L	91.5	9.2
23GIR 005	20CG -1-019	L	90.0	7.9
23GIR 006	20CG -1-031	L	91.0	6.2
23GIR 007	20CG -1-044	L	91.8	5.8
23GIR 008	20CG -1-045	L	94.6	3.3
23GIR 009	20CG -1-047	L	91.6	7.8
23GIR 010	20CG -2-056	L	94.8	5.8
23GIR 011	20CG -2-058	L	92.1	7.5
23GIR 012	20CG -2-074	L	89.4	9.1
23GIR 013	20CG -2-078	L	87.2	8.8
23GIR 014	20CG -2-098	L	90.5	5.3
23GIR 015	20CG -2-099	L	85.4	7.7
23GIR 016	20CG -2-103	L	96.6	8.4
23GIR 017	20CG -2-143	L	91.7	10.8
23GIR 018	20CG -2-175	L	87.1	3.9
23GIR 019	20CG -2-184	L	82.3	9.1
23GIR 020	20CG -2-185	L	90.2	8.0
23GIR 021	20CG -2-191	L	88.7	11.9
23GIR 022	20CG -2-204	L	90.3	8.2
23GIR 023	20CG -2-235	L	90.2	2.9
23GIR 024	20CG -2-247	L	86.1	7.9
23GIR 025	20CG -2-251	L	80.2	2.1

Continued.

Table 6. Continued.

Entry	Line ID	Grain Type	GH [†]	% Chalk
23GIR 026	20CG -2-264	L	89.8	6.5
23GIR 027	20CG -2-275	L	90.1	10.8
23GIR 028	20CG -3-278	L	89.4	4.9
23GIR 029	20CG -3-282	L	89.5	3.5
23GIR 030	20CG -3-292	L	95.4	6.4
23GIR 031	20CG -3-295	L	92.6	5.9
23GIR 032	20CG -3-292	L	92.1	4.3
23GIR 033	20CG -3-303	L	90.4	10.7
23GIR 034	20CG -3-301	L	89.1	7.5
23GIR 035	20CG -3-316	L	93.3	6.9
23GIR 036	20CG -4-318	L	87.5	6.9
23GIR 037	20CG -4-319	L	98.9	7.3
23GIR 038	20CG -4-325	L	90.2	5.6
23GIR 039	20CG -4-342	L	91.1	7.2
23GIR 040	20CG -4-345	L	89.8	7.1
23GIR 041	20CG -5-357	L	90.4	8.2
23GIR 042	20CG -5-359	L	94.8	10.2
23GIR 043	20CG -5-367	L	96.1	5.7
23GIR 044	20CG -5-373	L	88.3	7.5
23GIR 045	20CG -5-376	L	92.6	9.9
23GIR 046	20CG -5-337	L	85.4	5.3
23GIR 047	20CG -5-339	L	87.7	7.2
23GIR 048	20CG -5-363	L	88.5	7.8
23GIR 049	20CG -5-387	L	86.2	10.4
23GIR 050	20CG -5-399	L	87.4	8.3
23GIR 051	20CG -5-401	L	93.9	11.6
23GIR 052	20CG -6-404	L	90.3	5.5
23GIR 053	20CG -6-405	L	90.9	5.0
23GIR 054	20CG -6-406	L	81.9	7.9
23GIR 055	20CG -6-408	L	80.1	5.6
23GIR 056	20CG -6-439	L	91.7	8.3
23GIR 057	20CG -6-432	L	82.5	9.2
23GIR 058	20CG -6-446	L	93.4	5.8
23GIR 059	20CG -6-465	L	92.8	10.3
23GIR 060	20CG -6-468	L	88.3	4.9
23GIR 061	20CG -6-469	L	92.0	10.7
23GIR 062	20CG -6-471	L	89.6	2.9
23GIR 063	20CG -6-475	L	88.2	11.8
23GIR 064	20CG -6-480	L	93.8	6.9
23GIR 065	20CG -6-481	L	90.3	9.5
23GIR 066	20CG -6-487	L	96.2	7.1
23GIR 067	20CG -6-498	L	91.8	7.0
23GIR 068	20CG -6-499	L	92.3	9.9
23GIR 069	20CG -6-501	L	94.6	7.4
23GIR 070	20CG -6-567	L	88.7	5.7
23GIR 071	20CG -6-572	L	88.3	4.1
23GIR 072	20CG -7-592	L	89.2	11.2
23GIR 073	20CG -7-606	L	91.8	12.1
23GIR 074	20CG -7-609	L	90.6	5.4
23GIR 075	20CG -7-624	L	90.2	8.5
23GIR 076	20CG -7-625	L	91.3	5.8

Continued.

Table 6. Continued.

Entry	Line ID	Grain Type	GH[†]	% Chalk
23GIR 077	20CG -7-628	L	82.6	10.7
23GIR 078	20CG -7-629	L	81.5	9.8
23GIR 089	20CG -7-703	L	89.3	1.7
23GIR 080	20CG -7-721	L	92.4	5.5
23GIR 081	20CG -7-781	L	92.2	6.7
23GIR 082	20CG -7-809	L	88.7	11.0
23GIR 083	20CG -8-811	L	89.8	8.3
23GIR 084	20CG -8-817	L	98.1	3.9
23GIR 085	20CG -8-834	L	92.4	5.4
23GIR 086	20CG -8-837	L	91.5	7.0
23GIR 087	20CG -8-839	L	93.9	11.5
23GIR 088	20CG -8-842	L	87.3	8.6
23GIR 089	20CG -8-857	L	88.1	4.0
23GIR 090	20CG -8-858	L	89.4	6.0
23GIR 091	20CG -8-861	L	89.9	8.0
23GIR 092	20CG -8-869	L	92.1	4.5
23GIR 093	20CG -8-873	L	95.1	7.8
23GIR 094	20CG -8-897	L	89.9	5.5
23GIR 095	20CG -8-907	L	91.6	7.1
CCDR	Check	L	88.7	9.5
CPRS	Check	L	94.3	9.5

[†]GH=% Grain Homogeneity.

RICE AGRONOMY

M. Kongchum, J.P. Leonards, J.S. Fluitt, B.C. 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 at St. Landry (Palmetto), Tensas (at Northeast Research Station), Richland (Woodsland Plantation), and Calcasieu parishes (McNeese State University) to generate agronomic production information representative of all Louisiana rice production areas. Cultural management studies were conducted at the HRCRRS north and south units.

In 2024, it was a difficult time for field management due to excessive rainfall at the time of planting and harvesting. The results of rice plant nutrition trials at Northeast Research Station and at Richland Parish were not included in the report due to it being severely bird, and hog damaged, respectively. In addition, the results of the optimum seeding rate trials from the Northeast Research Station were not included due to severe bird damage.

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 (Palmetto)

Dennis Burns – Tensas Parish (Northeast Research Station)

Marley Oldham – Richland Parish (Woodsland Plantation)

Darren Goodwin – Calcasieu Parish (McNeese State University)

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

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

Abbreviation	Explanation
A	Acre
ANOVA	Analysis of variance
bu/A	Bushels per acre
Ca	Calcium
COC	Crop oil concentrate
DAT	Days after treatment
DPF	Days pre-flood
DPP	Days prior to planting
Fe	Iron
ft	Feet
ft ²	Square feet
gal/A	Gallons product per acre
Head Rice	Percent unbroken kernels left after milling
in	Inches
lb	Pounds
lb/A	Pounds product per acre
lb ai/A	Pounds active ingredient per acre
Ldg-Rate	Lodging rate in percent
Ldg-Type	Lodging type on a scale from 0 to 5; where 0 = no lodging, 1 = slightly lodged (approximately 1 - 23° angle) and 5 = lodged to ground (90° angle)
K	Potassium
Main	First rice crop; crop growth stage prior to first harvest
Mg	Magnesium
Mn	Manganese
Mo	Molybdenum
N	Nitrogen
Na	Sodium
NA	Information not available/applicable
NUE	Nitrogen use efficiency
oz/A	Ounces product per acre
P	Phosphorus
PD	Panicle differentiation
PI	Panicle initiation
pl/m ²	Plant densities measured 14 days after seeding emergence by counting the main-stem numbers in a randomly selected area of 1 m ² in each plot
Postharvest	Application applied immediately following main crop harvest
ppm	Parts per million
PRE	Application prior to crop emergence
Preflood	Preflood application applied 1 to 2 days prior to permanent flood establishment
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
<u>Herbicides</u>			
Aim	carfentrazone	EC2	FMC Corp.
Arroso	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
<u>Insecticides</u>			
Dermacor X-100	rynaxypyr		DuPont
Karate Z	cyhalothrin	2.08 lb	Syngenta
Mustang Maxx	zeta-cypermethrin	0.8 lb	FMC Corp.
Methyl Parathion	methyl Parathion	4 lb	Cheminova
<u>Fungicides</u>			
Amistartop	Azoxystrobin + difenoconazole	1.67 lb + 1.05 lb	Dow AgroSciences, LLC
Diathane DF	mancozeb	75% DF	Dow AgroSciences, LLC
Stratego	propiconazole + trifloxystrobin	1.04 lb + 1.04 lb	Bayer Crop Science, LLC
Quadris	azoxystrobin	2.08 lb	Syngenta
Quilt	azoxystrobin + propiconazole	1.04 lb + 0.62 lb	Syngenta

RICE FERTILITY AND CULTURAL PRACTICE RESEARCH

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

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 ARM Software (GDM Solutions. Inc.). Treatment means with significant differences were identified using LSD at $\alpha = 0.05$.

Agronomic Response of Drill-Seeded DG353M (DGM004) to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-01 Variety x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / DG353M (DGM004)
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 31
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 1. Agronomic response of drill-seeded DG353M (DGM004) to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	106.0 d	92.0 d	31.8 c	4770 c	1482 c	6675 c
2	N 90	4-5 leaf	110.3 c	96.3 c	34.3 b	7018 b	1792 b	8759 b
3	N 120	4-5 leaf	111.0 b	97.0 b	35.3 ab	7712 ab	2004 ab	9716 a
4	N 150	4-5 leaf	111.5 ab	97.5 ab	35.8 a	8062 a	2036 a	10098 a
5	N 180	4-5 leaf	111.5 ab	97.5 ab	35.5 a	7455 ab	2081 a	9536 ab
6	N 210	4-5 leaf	111.8 a	97.8 a	36.3 a	7840 ab	1858 ab	9698 a
LSD P=.05			0.57	0.57	1.16	829.3	243.3	799.5
Standard Deviation			0.38	0.38	0.77	546.8	157.9	518.9
CV			0.34	0.39	2.22	7.56	8.17	5.59
Treatment F			132.69	132.69	17.819	17.186	4.119	17.455
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0207	0.0001

Means followed by the same letter or symbol do not significantly differ (P =0.05, LSD).

Agronomic Response of Drill-Seeded DG245L (DGL2065) to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-02 Variety x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / DG245L (DGL2065)
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 2. Agronomic response of drill-seeded DG245L (DGL2065) to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	104.0 c	90.0 c	31.5 c	6868 a	3386 a	10285 a
2	N 90	4-5 leaf	105.5 b	91.5 b	35.0 b	8651 a	3742 a	12393 a
3	N 120	4-5 leaf	106.3 a	92.3 a	36.0 ab	9699 a	3899 a	13598 a
4	N 150	4-5 leaf	106.3 a	92.3 a	37.3 ab	8651 a	3630 a	12281 a
5	N 180	4-5 leaf	106.5 a	92.5 a	38.0 a	9263 a	3332 a	12595 a
6	N 210	4-5 leaf	106.8 a	92.8 a	37.8 a	9445 a	3130 a	12898 a
LSD P=.05			0.69	0.69	2.57	1562.1	602.6	1657.4
Standard Deviation			0.46	0.46	1.71	1022.6	399.8	1084.9
CV			0.43	0.5	4.75	11.52	11.36	8.69
Treatment F			19.560	19.560	8.198	2.728	2.054	2.757
Treatment Prob(F)			0.0001	0.0001	0.0007	0.0673	0.1287	0.0653

Means followed by the same letter or symbol do not significantly differ (P =0.05, LSD).

Agronomic Response of Drill-Seeded 23DGL-003PV to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-03 Variety x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / 23DGL-003PV
Planting method/date	Drill seeded / March 13
Seeding rate/depth	18 seed/ft ² / 1.5 inch
Emergence date	March 31
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 3. Agronomic response of drill-seeded 23DGL-003PV to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	108.5 c	94.5 c	31.8 c	6187 c	2355 -	8542 -
2	N 90	4-5 leaf	112.3 b	98.3 b	36.0 b	8544 ab	1782 -	9719 -
3	N 120	4-5 leaf	112.5 ab	98.5 ab	37.0 ab	8554 ab		
4	N 150	4-5 leaf	113.0 ab	99.0 ab	38.3 a	9232 a		
5	N 180	4-5 leaf	113.5 a	99.5 a	38.0 a	8674 ab		
6	N 210	4-5 leaf	113.5 a	99.5 a	38.3 a	8140 b		
LSD P=.05			1.19	1.19	1.87	961.2		
Standard Deviation			0.79	0.79	1.24	637.7		
CV			0.7	0.8	3.4	7.76		
Treatment F			22.991	22.991	16.308	10.988		
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001		

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded CLL18 to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-04 Variety x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / CLL18
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 4. 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	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	104.0 d	90.0 d	35.3 c	7561 b	1960 -	9521 -
2	N 90	4-5 leaf	110.0 c	96.0 c	39.8 b	9495 a	1462 -	11543 -
3	N 120	4-5 leaf	111.0 b	97.0 b	41.5 ab	9302 a	1258 -	12331 -
4	N 150	4-5 leaf	111.0 b	97.0 b	41.3 ab	9824 a		
5	N 180	4-5 leaf	111.8 ab	97.8 ab	42.5 ab	9835 a		
6	N 210	4-5 leaf	112.0 a	98.0 a	44.3 a	9605 a		
LSD P=.05			0.81	0.81	3.00	866.6		
Standard Deviation			0.53	0.53	1.99	562.5		
CV			0.49	0.56	4.89	6.09		
Treatment F			125.971	125.971	9.555	9.400		
Treatment Prob(F)			0.0001	0.0001	0.0003	0.0008		

Means followed by the same letter or symbol do not significantly differ (P =0.05, LSD).

Agronomic Response of Drill-Seeded CLHA03 (CL2150) to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-05 Variety x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / CLHA03 (CL2150)
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 5. Agronomic response of drill-seeded CLHA03 (CL2150) to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	104.0 d	90.0 d	33.5 c	7593 b	4050 ab	11643 b
2	N 90	4-5 leaf	105.8 c	91.8 c	35.8 b	9205 a	3829 abc	13034 a
3	N 120	4-5 leaf	106.5 b	92.5 b	36.8 ab	9260 a	4163 a	13423 a
4	N 150	4-5 leaf	106.8 ab	92.8 ab	36.3 ab	9483 a	3776 bc	13259 a
5	N 180	4-5 leaf	107.3 a	93.3 a	37.8 a	9363 a	3511 c	12874 a
6	N 210	4-5 leaf	107.0 ab	93.0 ab	36.8 ab	9415 a	3083 d	12498 ab
LSD P=.05			0.57	0.57	1.93	1062.0	362.9	1074.0
Standard Deviation			0.38	0.38	1.28	704.6	240.8	712.6
CV			0.35	0.41	3.55	7.78	6.44	5.57
Treatment F			40.529	40.529	5.102	4.205	10.609	3.289
Treatment Prob(F)			0.0001	0.0001	0.0063	0.0137	0.0002	0.0334

Means followed by the same letter or symbol do not significantly differ (P =0.05, LSD).

Agronomic Response of Drill-Seeded PVL04 to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-06 Variety x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / PVL04
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	August 1
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 6. Agronomic response of drill-seeded PVL04 to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	106.0 d	92.0 d	36.0 a	6782 b	3133 a	10168 a
2	N 90	4-5 leaf	111.0 c	97.0 c	38.0 a	8624 a	2955 a	11553 a
3	N 120	4-5 leaf	111.0 c	97.0 c	39.0 a	8174 a	2672 ab	10846 a
4	N 150	4-5 leaf	111.3 bc	97.3 bc	38.3 a	8063 a	2154 bc	10077 a
5	N 180	4-5 leaf	111.8 ab	97.8 ab	38.0 a	8389 a	2101 c	10594 a
6	N 210	4-5 leaf	112.0 a	98.0 a	40.8 a	8694 a	1779 c	10489 a
LSD P=.05			0.69	0.69	2.99	892.2	524.1	1152.7
Standard Deviation			0.46	0.46	1.99	557.8	347.7	720.6
CV			0.42	0.48	5.18	6.83	14.1	6.75
Treatment F			95.211	95.211	2.425	4.348	9.465	1.418
Treatment Prob(F)			0.0001	0.0001	0.0842	0.0273	0.0003	0.3053

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded Taurus to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-07 Variety x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / Taurus
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	August 1
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

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

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	104.0 b	90.0 b	30.3 b	45.83 b	2389 c	9249 b
2	N 90	4-5 leaf	106.0 a	92.0 a	32.8 a	46.40 a	2715 bc	11813 a
3	N 120	4-5 leaf	106.0 a	92.0 a	33.8 a	46.68 a	3155 a	13121 a
4	N 150	4-5 leaf	106.0 a	92.0 a	33.5 a	46.54 a	2900 ab	13368 a
5	N 180	4-5 leaf	106.0 a	92.0 a	34.3 a	46.53 a	2436 c	12825 a
6	N 210	4-5 leaf	106.3 a	92.3 a	34.0 a	46.48 a	2397 c	12280 a
LSD P=.05			0.31	0.31	2.14	0.457	391.4	1877.7
Standard Deviation			0.20	0.20	1.42	0.301	259.7	1238.1
CV			0.19	0.22	4.29	0.65	9.74	10.27
Treatment F			68.200	68.200	4.359	3.951	5.904	5.793
Treatment Prob(F)			0.0001	0.0001	0.0119	0.0192	0.0033	0.0042

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded Addi Jo to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-08 Variety x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / Addi Jo
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

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

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	111.0 d	97.0 d	35.3 c	7326 a	4476 a	11802 a
2	N 90	4-5 leaf	112.8 c	98.8 c	37.8 ab	7394 a	4474 a	11869 a
3	N 120	4-5 leaf	113.5 b	99.5 b	37.0 bc	8479 a	3734 b	12214 a
4	N 150	4-5 leaf	114.0 b	100.0 b	37.8 ab	7019 a	3473 bc	10603 a
5	N 180	4-5 leaf	114.8 a	100.8 a	39.3 a	8459 a	3227 c	11686 a
6	N 210	4-5 leaf	114.8 a	100.8 a	38.8 ab	8336 a	2496 d	10894 a
LSD P=.05			0.61	0.61	1.86	1474.3	333.8	1464.0
Standard Deviation			0.40	0.40	1.24	965.1	221.5	958.4
CV			0.36	0.41	3.29	12.29	6.07	8.27
Treatment F			49.678	49.678	5.211	1.662	47.463	1.391
Treatment Prob(F)			0.0001	0.0001	0.0057	0.2129	0.0001	0.2907

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded Fitzgerald (LA2166) to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-09 Variety x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / Fitzgerald (LA2166)
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 9. Agronomic response of drill-seeded Fitzgerald (LA2166) to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	104.0 d	90.0 d	33.5 c	6054 b	4084 c	10138 b
2	N 90	4-5 leaf	105.3 c	91.3 c	35.5 b	8321 a	4491 ab	12811 a
3	N 120	4-5 leaf	105.5 bc	91.5 bc	36.0 ab	8426 a	4627 a	13054 a
4	N 150	4-5 leaf	105.8 abc	91.8 abc	36.3 ab	9084 a	4467 ab	13551 a
5	N 180	4-5 leaf	106.3 ab	92.3 ab	36.8 ab	8842 a	4195 bc	13037 a
6	N 210	4-5 leaf	106.5 a	92.5 a	37.5 a	8499 a	4035 c	12533 a
LSD P=.05			0.94	0.94	1.78	1330.5	325.8	1454.5
Standard Deviation			0.62	0.62	1.18	882.8	216.2	965.0
CV			0.59	0.68	3.29	10.76	5.01	7.71
Treatment F			8.137	8.137	5.333	6.110	5.097	6.333
Treatment Prob(F)			0.0007	0.0007	0.0052	0.0028	0.0063	0.0024

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

**Agronomic Response of Drill-Seeded 211L1008 to Different Rates of Nitrogen Fertilizer Under Delayed
Flooding Conditions**

Experiment number	24-CM-10 Variety x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / 211L1008
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 10. Agronomic response of drill-seeded 211L1008 to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle		
Rating Date					7/31/2024	7/31/2024	10/28/2024
Rating Type			50% HD	50% HD	Height	Yield	Yield
Rating Unit			days	days	In	lb/A	lb/A
Crop Stage			Main	Main	Main	Main	Ratoon
Trt							
No.			Urea				
			(lb N/A)	Growth			
				Stage			
1	No N	4-5 leaf	99.0 b	85.0 b	32.3 c	7242 b	3812 ab
2	N 90	4-5 leaf	103.8 a	89.8 a	35.3 b	9601 a	3884 a
3	N 120	4-5 leaf	103.8 a	89.8 a	37.5 a	9660 a	4101 a
4	N 150	4-5 leaf	104.0 a	90.0 a	36.8 ab	9775 a	3887 a
5	N 180	4-5 leaf	104.3 a	90.3 a	37.5 a	9612 a	3493 b
6	N 210	4-5 leaf	104.3 a	90.3 a	37.8 a	9619 a	3460 b
LSD P=.05			1.23	1.23	1.96	1467.8	387.9
Standard Deviation			0.82	0.82	1.30	973.9	257.4
CV			0.79	0.92	3.59	10.53	6.82
Treatment F			25.300	25.300	10.697	4.104	3.750
Treatment Prob(F)			0.0001	0.0001	0.0002	0.0151	0.0211

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded 201L1251 to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-11 Variety x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / 201L1251
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 11. Agronomic response of drill-seeded 201L1251 to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	106.0 d	92.0 d	32.8 e	6246 c	3653 a	9891 c
2	N 90	4-5 leaf	110.5 c	96.5 c	35.5 d	7495 b	3803 a	11298 b
3	N 120	4-5 leaf	111.3 b	97.3 b	36.0 cd	9482 a	3807 a	13289 a
4	N 150	4-5 leaf	111.8 ab	97.8 ab	37.3 bc	9633 a	2871 b	12259 ab
5	N 180	4-5 leaf	112.0 a	98.0 a	39.3 a	9093 a	2271 b	11184 b
6	N 210	4-5 leaf	112.3 a	98.3 a	38.0 ab	9186 a	2161 b	11299 b
LSD P=.05			0.69	0.69	1.75	956.2	719.5	954.8
Standard Deviation			0.46	0.46	1.16	614.4	477.4	613.5
CV			0.41	0.47	3.18	7.2	15.43	5.28
Treatment F			105.960	105.960	15.311	16.074	10.260	12.092
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0002	0.0004

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded RU1902034 CL to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-12 Variety x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / RU1902034 CL
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 12. Agronomic response of drill-seeded RU1902034 CL to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle		
Rating Date					7/31/2024	7/31/2024	10/28/2024
Rating Type			50% HD	50% HD	Height	Yield	Yield
Rating Unit			days	days	In	lb/A	lb/A
Crop Stage			Main	Main	Main	Main	Ratoon
Total Yield							
MC+RC							
Trt	Urea	Growth					
No.	(lb N/A)	Stage					
1	No N	4-5 leaf	101.0 d	87.0 d	32.5 c	7716 b	3170 a
2	N 90	4-5 leaf	103.8 c	89.8 c	35.0 b	9446 a	3279 a
3	N 120	4-5 leaf	104.0 c	90.0 c	36.8 a	9932 a	3165 a
4	N 150	4-5 leaf	104.3 bc	90.3 bc	36.5 ab	9643 a	2987 a
5	N 180	4-5 leaf	105.3 a	91.3 a	36.5 ab	9726 a	2898 a
6	N 210	4-5 leaf	105.0 ab	91.0 ab	36.8 a	9717 a	2897 a
LSD P=.05			0.94	0.94	1.67	814.5	304.5
Standard Deviation			0.62	0.62	1.11	540.4	202.0
CV			0.6	0.69	3.11	5.77	6.59
Treatment F			24.022	24.022	9.216	9.254	2.521
Treatment Prob(F)			0.0001	0.0001	0.0004	0.0004	0.0756

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded RU2102222 CL to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-13 Variety x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / RU2102222 CL
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 13. Agronomic response of drill-seeded RU2102222 CL to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	106.0 d	92.0 d	32.3 e	8222 a	2850 a	10814 bc
2	N 90	4-5 leaf	108.5 c	94.5 c	33.8 d	9567 a	3050 a	12617 a
3	N 120	4-5 leaf	109.8 b	95.8 b	35.0 c	9023 a	2699 ab	11994 ab
4	N 150	4-5 leaf	110.3 b	96.3 b	36.3 b	8246 a	2171 bc	10417 c
5	N 180	4-5 leaf	111.3 a	97.3 a	36.3 b	9626 a	1861 c	11487 abc
6	N 210	4-5 leaf	111.8 a	97.8 a	37.5 a	9228 a	1785 c	11458 abc
LSD P=.05			0.69	0.69	1.21	1106.9	589.7	1267.5
Standard Deviation			0.46	0.46	0.80	718.5	386.0	804.5
CV			0.42	0.48	2.28	7.97	15.67	7.02
Treatment F			83.211	83.211	22.759	2.853	6.387	3.549
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0635	0.0033	0.0418

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded RU2102070 Med to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-14 Variety x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / RU2102070 Med
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 14. Agronomic response of drill-seeded RU2102070 Med to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	104.0 d	90.0 d	32.3 c	6337 d	1540 b	7769 d
2	N 90	4-5 leaf	105.3 c	91.3 c	34.3 b	8631 c	2180 a	10789 c
3	N 120	4-5 leaf	106.0 b	92.0 b	36.0 a	10704 ab	2492 a	13251 ab
4	N 150	4-5 leaf	106.0 b	92.0 b	36.0 a	10003 bc	2371 a	12352 bc
5	N 180	4-5 leaf	106.3 ab	92.3 ab	37.3 a	11264 ab	2337 a	13499 ab
6	N 210	4-5 leaf	106.8 a	92.8 a	37.3 a	11933 a	2312 a	14141 a
LSD P=.05			0.72	0.72	1.62	1568.8	382.4	1707.1
Standard Deviation			0.48	0.48	1.07	980.8	250.4	1046.9
CV			0.45	0.52	3.03	10.14	11.03	8.65
Treatment F			16.229	16.229	12.981	14.157	3.874	13.560
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0005	0.0227	0.0010

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded 213L1130 PV to Three Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-15 Variety x Nitrogen
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	1.20
pH	7.18
Extractable nutrients (ppm)	Ca-1614; Cu-1.4; Mg-252; P-20.5; K-55; Na-125; S-6.3; Zn-8.4
Crop/Variety	Rice / 213L1130 PV
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 26
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 13
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 15. Agronomic response of drill-seeded 213L1130 PV to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle		
Rating Date					7/31/2024	7/31/2024	7/31/2024
Rating Type			50% HD	50% HD	Height	Moist	Yield
Rating Unit			days	days	In	%	lb/A
Crop Stage			Main	Main	Main	Main	Main
Trt	Urea	Growth					
No.	(lb N/A)	Stage					
1	N 100	4-5 leaf	108.3 a	94.3 a	34.8 a	16.58 b	6296 a
2	N 150	4-5 leaf	108.8 a	94.8 a	36.8 a	17.80 a	7556 a
3	N 200	4-5 leaf	108.3 a	94.3 a	38.3 a	18.48 a	8288 a
LSD P=.05			1.29	1.29	6.24	0.801	1872.2
Standard Deviation			0.75	0.75	3.61	0.463	1082.0
CV			0.69	0.79	9.86	2.63	14.66
Treatment F			0.600	0.600	0.949	17.327	3.469
Treatment Prob(F)			0.5787	0.5787	0.4385	0.0032	0.0997

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded 213L1140 PV to Three Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-16 Variety x Nitrogen
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	1.20
pH	7.18
Extractable nutrients (ppm)	Ca-1614; Cu-1.4; Mg-252; P-20.5; K-55; Na-125; S-6.3; Zn-8.4
Crop/Variety	Rice / 213L1140 PV
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 26
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 13
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 16. Agronomic response of drill-seeded 213L1140 PV to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle		
Rating Date					7/31/2024	7/31/2024	7/31/2024
Rating Type			50% HD	50% HD	Height	Moist	Yield
Rating Unit			days	days	In	%	lb/A
Crop Stage			Main	Main	Main	Main	Main
Trt	Urea	Growth					
No.	(lb N/A)	Stage					
1	N 100	4-5 leaf	110.0 a	96.0 a	36.3 ab	16.98 a	7494 a
2	N 150	4-5 leaf	111.5 a	97.5 a	35.8 b	17.63 a	8302 a
3	N 200	4-5 leaf	111.5 a	97.5 a	37.3 a	17.95 a	8243 a
LSD P=.05			3.11	3.11	1.15	1.514	1221.2
Standard Deviation			1.80	1.80	0.67	0.875	705.8
CV			1.62	1.85	1.83	5.0	8.81
Treatment F			0.931	0.931	5.250	1.287	1.630
Treatment Prob(F)			0.4445	0.4445	0.0481	0.3426	0.2720

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded 213L1041 PV to Three Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-17 Variety x Nitrogen
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	1.20
pH	7.18
Extractable nutrients (ppm)	Ca-1614; Cu-1.4; Mg-252; P-20.5; K-55; Na-125; S-6.3; Zn-8.4
Crop/Variety	Rice / 213L1041 PV
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 26
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 13
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 17. Agronomic response of drill-seeded 213L1041 PV to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle		
Rating Date					7/31/2024	7/31/2024	7/31/2024
Rating Type			50% HD	50% HD	Height	Moist	Yield
Rating Unit			days	days	In	%	lb/A
Crop Stage			Main	Main	Main	Main	Main
Trt	Urea	Growth					
No.	(lb N/A)	Stage					
1	N 100	4-5 leaf	102.8 a	88.8 a	38.3 a	16.38 b	7234 b
2	N 150	4-5 leaf	103.0 a	89.0 a	40.0 a	16.93 b	8108 ab
3	N 200	4-5 leaf	103.3 a	89.3 a	41.8 a	18.00 a	8859 a
LSD P=.05			1.93	1.93	3.75	0.964	1192.8
Standard Deviation			1.12	1.12	2.17	0.557	689.4
CV			1.09	1.26	5.42	3.26	8.55
Treatment F			0.200	0.200	2.609	8.807	5.570
Treatment Prob(F)			0.8240	0.8240	0.1530	0.0164	0.0429

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded 212M1144 CL to Three Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-18 Variety x Nitrogen
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	1.20
pH	7.18
Extractable nutrients (ppm)	Ca-1614; Cu-1.4; Mg-252; P-20.5; K-55; Na-125; S-6.3; Zn-8.4
Crop/Variety	Rice / 212M1144 CL
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 26
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 13
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 18. Agronomic response of drill-seeded 212M1144 CL to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle		
Rating Date					7/31/2024	7/31/2024	7/31/2024
Rating Type			50% HD	50% HD	Height	Moist	Yield
Rating Unit			days	days	In	%	lb/A
Crop Stage			Main	Main	Main	Main	Main
Trt	Urea	Growth					
No.	(lb N/A)	Stage					
1	N 100	4-5 leaf	109.5 a	95.5 a	37.8 a	17.50 b	8757 a
2	N 150	4-5 leaf	109.8 a	95.8 a	39.5 a	18.85 a	9691 a
3	N 200	4-5 leaf	110.3 a	96.3 a	39.5 a	19.08 a	9551 a
LSD P=.05			1.04	1.04	6.87	0.916	1810.6
Standard Deviation			0.60	0.60	3.97	0.529	1046.5
CV			0.55	0.63	10.2	2.87	11.21
Treatment F			1.615	1.615	0.259	10.356	0.927
Treatment Prob(F)			0.2746	0.2746	0.7798	0.0113	0.4459

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded Hybrid RT 7331 MA to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-21 Hybrid x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / RT 7331 MA
Planting method/date	Drill seeded / March 13
Seeding rate/depth	10 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 19. Agronomic response of drill-seeded Hybrid RT 7331 MA to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	101.0 d	87.0 d	38.0 c	10450 c	4475 a	14925 c
2	N 90	4-5 leaf	102.3 c	88.3 c	41.5 b	12762 b	4293 a	17056 b
3	N 120	4-5 leaf	103.3 b	89.3 b	42.5 ab	13451 a	4195 a	17646 ab
4	N 150	4-5 leaf	103.8 ab	89.8 ab	43.5 ab	13205 ab	4551 a	17756 a
5	N 180	4-5 leaf	104.0 a	90.0 a	43.3 ab	13368 ab	4019 a	17387 ab
6	N 210	4-5 leaf	104.3 a	90.3 a	44.3 a	13451 a	4383 a	17834 a
LSD P=.05			0.69	0.69	2.11	680.9	631.9	652.4
Standard Deviation			0.46	0.46	1.40	451.8	419.3	432.9
CV			0.45	0.52	3.33	3.53	9.71	2.53
Treatment F			29.211	29.211	10.254	26.880	0.858	25.965
Treatment Prob(F)			0.0001	0.0001	0.0002	0.0001	0.5312	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded Hybrid RT 7421 FP to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-22 Hybrid x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / RT 7421 FP
Planting method/date	Drill seeded / March 13
Seeding rate/depth	10 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 20. Agronomic response of drill-seeded Hybrid RT 7421 FP to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	104.0 c	90.0 c	45.0 c	11608 c	1764 a	13387 a
2	N 90	4-5 leaf	105.5 b	91.5 b	45.8 bc	12802 ab	1887 a	14916 a
3	N 120	4-5 leaf	106.8 a	92.8 a	47.3 ab	12384 bc	1428 a	13789 a
4	N 150	4-5 leaf	106.8 a	92.8 a	47.8 a	13548 a	2066 a	15614 a
5	N 180	4-5 leaf	107.0 a	93.0 a	47.0 ab	13072 ab	1733 a	14980 a
6	N 210	4-5 leaf	107.3 a	93.3 a	48.3 a	13369 ab	1787 a	15383 a
LSD P=.05			0.96	0.96	1.80	1057.0	563.7	1349.5
Standard Deviation			0.64	0.64	1.19	701.3	345.7	827.6
CV			0.6	0.69	2.55	5.48	19.25	5.62
Treatment F			15.041	15.041	4.266	4.147	0.969	3.371
Treatment Prob(F)			0.0001	0.0001	0.0130	0.0145	0.4899	0.0621

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded Hybrid RT 3202 to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-23 Hybrid x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / RT 3202
Planting method/date	Drill seeded / March 13
Seeding rate/depth	10 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	July 31
Ratoon Harvest date	October 28
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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 21. Agronomic response of drill-seeded Hybrid RT 3202 to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	98.3 c	84.3 c	39.0 b	9486 c	4100 a	13586 d
2	N 90	4-5 leaf	99.0 b	85.0 b	41.5 a	11964 ab	3893 a	15858 bc
3	N 120	4-5 leaf	99.0 b	85.0 b	42.8 a	11874 b	4103 a	15977 bc
4	N 150	4-5 leaf	99.0 b	85.0 b	42.3 a	12990 a	4417 a	17408 a
5	N 180	4-5 leaf	101.0 a	87.0 a	41.8 a	12122 ab	3142 b	15263 c
6	N 210	4-5 leaf	101.0 a	87.0 a	43.5 a	12841 ab	3743 ab	16584 ab
LSD P=.05			0.31	0.31	2.10	1034.8	688.3	1269.7
Standard Deviation			0.20	0.20	1.39	686.6	456.7	842.4
CV			0.21	0.24	3.33	5.78	11.71	5.34
Treatment F			130.600	130.600	4.914	13.499	3.639	9.493
Treatment Prob(F)			0.0001	0.0001	0.0073	0.0001	0.0235	0.0003

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded Hybrid DG3H2007 to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-24 Hybrid x Nitrogen
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	1.35
pH	6.49
Extractable nutrients (ppm)	Ca-1203; Cu-1.3; Mg-243; P-16.4; K-52.3; Na-113; S-5.6; Zn-8.0
Crop/Variety	Rice / DG3H2007
Planting method/date	Drill seeded / March 13
Seeding rate/depth	10 seed/ft ² / 1.5 inch
Emergence date	March 27
Harvest date	July 31
Ratoon Harvest date	October 28
Seed treatment/cwt	Hybrid 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 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 22. Agronomic response of drill-seeded Hybrid DG3H2007 to nitrogen fertilizer rate. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					7/31/2024	7/31/2024	10/28/2024	
Rating Type			50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit			days	days	In	lb/A	lb/A	lb/ac
Crop Stage			Main	Main	Main	Main	Ratoon	MC+RC
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	107.0 c	93.0 c	38.3 b	8691 b	1993 a	10934 a
2	N 90	4-5 leaf	110.5 b	96.5 b	41.3 ab	11053 a	1391 a	10957 a
3	N 120	4-5 leaf	110.8 ab	96.8 ab	42.0 a	11114 a	NA	11114 a
4	N 150	4-5 leaf	111.5 ab	97.5 ab	43.5 a	10708 a	1622 a	11539 a
5	N 180	4-5 leaf	111.8 a	97.8 a	43.5 a	10959 a	1288 a	12307 a
6	N 210	4-5 leaf	111.5 ab	97.5 ab	43.8 a	11227 a	1409 a	13041 a
LSD P=.05			1.07	1.07	3.63	1303.6	485.3	2215.1
Standard Deviation			0.71	0.71	2.41	837.6	215.6	246.5
CV			0.64	0.73	5.73	7.85	12.96	2.11
Treatment F			25.400	25.400	3.055	4.211	3.744	31.396
Treatment Prob(F)			0.0001	0.0001	0.0425	0.0220	0.1534	0.1330

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded CLHA03 to Different Rates and Methods of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-58
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	1.20
pH	7.18
Extractable nutrients (ppm)	Ca-1614; Cu-1.4; Mg-252; P-20.5; K-55; Na-125; S-6.3; Zn-8.4
Crop/Variety	Rice / CLHA03
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 26
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 0-24-24-2.8, March 13
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 23. Agronomic response of drill-seeded CLHA03 to nitrogen fertilizer rate and application methods. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle		
Rating Date					7/31/2024	7/31/2024	7/31/2024
Rating Type			50% HD	50% HD	Height	Moist	Yield
Rating Unit			days	days	In	%	lb/A
Crop Stage			Main	Main	Main	Main	Main
Trt	Urea	Growth					
No.	(lb N/A)	Stage					
1	N 120	Preflood	106.8 a	92.8 a	34.5 a	17.42 a	8719 ab
2	N 150	Preflood	107.3 a	93.3 a	36.0 a	18.17 a	9380 a
3	N 180	Preflood	107.8 a	93.8 a	34.0 a	18.95 a	8838 ab
4	N 75	Preflood	107.0 a	93.0 a	33.8 a	17.07 a	6843 c
	N 45	Mid-season					
5	N 105	Preflood	107.3 a	93.3 a	35.0 a	18.62 a	9690 a
	N 45	Mid-season					
6	N 135	Preflood	107.8 a	93.8 a	34.8 a	18.84 a	8424 b
	N 45	Mid-season					
LSD P=.05			0.92	0.92	2.14	1.176	903.7
Standard Deviation			0.61	0.61	1.42	0.721	554.2
CV			0.57	0.66	4.09	3.99	6.35
Treatment F			1.711	1.711	1.276	3.477	9.526
Treatment Prob(F)			0.1927	0.1927	0.3247	0.0577	0.0032

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded PVL04 to Different Rates and Methods of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-59
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	1.20
pH	7.18
Extractable nutrients (ppm)	Ca-1614; Cu-1.4; Mg-252; P-20.5; K-55; Na-125; S-6.3; Zn-8.4
Crop/Variety	Rice / PVL04
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 26
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 0-24-24-2.8, March 13
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 23. Agronomic response of drill-seeded PVL04 to nitrogen fertilizer rate and application methods. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle		
Rating Date					7/31/2024	7/31/2024	7/31/2024
Rating Type			50% HD	50% HD	Height	Moist	Yield
Rating Unit			days	days	In	%	lb/A
Crop Stage			Main	Main	Main	Main	Main
Trt	Urea	Growth					
No.	(lb N/A)	Stage					
1	N 120	Preflood	111.0 a	97.0 a	36.5 a	19.35 a	8280 a
2	N 150	Preflood	111.3 a	97.3 a	39.8 a	20.85 a	8708 a
3	N 180	Preflood	111.5 a	97.5 a	36.3 a	20.70 a	8164 a
4	N 75	Preflood	110.3 a	96.3 a	36.5 a	19.15 a	7141 a
	N 45	Mid-season					
5	N 105	Preflood	111.5 a	97.5 a	39.0 a	20.43 a	7204 a
	N 45	Mid-season					
6	N 135	Preflood	112.3 a	98.3 a	39.0 a	21.94 a	7584 a
	N 45	Mid-season					
LSD P=.05			1.79	1.79	3.67	1.713	1322.4
Standard Deviation			1.19	1.19	2.44	1.129	872.0
CV			1.07	1.22	6.44	5.56	11.07
Treatment F			1.237	1.237	1.677	2.707	2.048
Treatment Prob(F)			0.3405	0.3405	0.2008	0.0649	0.1336

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded Fitzgerald to Different Rates and Methods of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-CM-60
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	1.20
pH	7.18
Extractable nutrients (ppm)	Ca-1614; Cu-1.4; Mg-252; P-20.5; K-55; Na-125; S-6.3; Zn-8.4
Crop/Variety	Rice / Fitzgerald
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 26
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 0-24-24-2.8, March 13
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 24. Agronomic response of drill-seeded Fitzgerald to nitrogen fertilizer rate and application methods. H. Rouse Caffey Rice Research Station.

Crop Name			Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle		
Rating Date					7/31/2024	7/31/2024	7/31/2024
Rating Type			50% HD	50% HD	Height	Moist	Yield
Rating Unit			days	days	In	%	lb/A
Crop Stage			Main	Main	Main	Main	Main
Trt	Urea	Growth					
No.	(lb N/A)	Stage					
1	N 120	Preflood	107.0 a	93.0 a	34.5 a	16.58 bc	7722 a
2	N 150	Preflood	107.3 a	93.3 a	35.3 a	17.23 ab	8212 a
3	N 180	Preflood	107.8 a	93.8 a	34.5 a	18.05 a	8791 a
4	N 75	Preflood	107.0 a	93.0 a	34.5 a	15.60 c	7296 a
	N 45	Mid-season					
5	N 105	Preflood	107.3 a	93.3 a	33.8 a	17.25 ab	7464 a
	N 45	Mid-season					
6	N 135	Preflood	108.0 a	94.0 a	34.8 a	18.05 a	8598 a
	N 45	Mid-season					
LSD P=.05			1.24	1.24	3.20	1.287	1198.3
Standard Deviation			0.82	0.82	2.13	0.842	784.4
CV			0.77	0.88	6.15	4.95	9.86
Treatment F			1.000	1.000	0.208	4.228	2.128
Treatment Prob(F)			0.4509	0.4509	0.9538	0.0167	0.1266

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response to Drill-Seeded DG353M to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-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	
% Organic matter	2.61
pH	7.10
Extractable nutrients ppm	Ca-5,039; Cu-1.62; Mg-749; P-102; K-227; Na-52; S-18.8; Zn-2.3
Crop/Variety	
Planting method/date	Drill seeded / April 4
Seeding rate/depth	25 seeds/ft ² / 1 inch
Emergence date	April 14
Harvest date	August 13
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	By Rainfall
Flood	May 24
Drain	July 29
Pest management	
Herbicides	Not Available
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 2

Table 25. Agronomic response of drill-seeded DG353M (DGM004) to nitrogen fertilizer rate. Palmetto, St. Landry Parish.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/13/2024 Height In Main	Rice 8/13/2024 Moist % Main	Rice 8/13/2024 Yield lb/A Main
Trt	Urea -	Growth					
No.	lb N/A	Stage					
1	No N	4-5 leaf	93.0 c	83.0 c	37.5 a	14.4 b	6170 b
2	N 90	4-5 leaf	95.8 b	85.8 b	35.8 a	15.5 a	6653 a
3	N 120	4-5 leaf	98.3 a	88.3 a	37.3 a	15.8 a	6797 a
4	N 150	4-5 leaf	98.3 a	88.3 a	39.5 a	15.5 a	7008 a
5	N 180	4-5 leaf	99.3 a	89.3 a	38.0 a	15.9 a	7027 a
6	N 210	4-5 leaf	99.3 a	89.3 a	38.3 a	16.3 a	6877 a
LSD P=.05			1.05	1.05	2.87	0.57	317.3
Standard Deviation			0.70	0.70	1.91	0.38	210.5
CV			0.72	0.8	5.05	2.43	3.12
Treatment F			49.869	49.869	1.692	11.860	9.168
Treatment Prob(F)			0.0001	0.0001	0.1973	0.0001	0.0004

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response to Drill-Seeded DG245L to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-SLP-02
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	
% Organic matter	2.61
pH	7.10
Extractable nutrients ppm	Ca-5,039; Cu-1.62; Mg-749; P-102; K-227; Na-52; S-18.8; Zn-2.3
Crop/Variety	
Planting method/date	Drill seeded / April 4
Seeding rate/depth	25 seeds/ft ² / 1 inch
Emergence date	April 14
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	By Rainfall
Flood	May 24
Drain	July 29
Pest management	
Herbicides	Not Available
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 2

Table 26. Agronomic response of drill-seeded DG245L (DGL2065) to nitrogen fertilizer rate. Palmetto, St. Landry Parish.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/13/2024 Height In Main	Rice 8/13/2024 Moist % Main	Rice 8/13/2024 Yield lb/A Main
Trt	Urea -	Growth					
No.	lb N/A	Stage					
1	No N	4-5 leaf	87.0 b	77.0 b	36.8 b	14.78 b	6065 b
2	N 90	4-5 leaf	90.0 ab	80.0 ab	38.8 ab	15.78 ab	8619 a
3	N 120	4-5 leaf	89.0 ab	79.0 ab	40.8 a	16.45 a	8531 a
4	N 150	4-5 leaf	92.0 a	82.0 a	40.8 a	15.35 ab	8525 a
5	N 180	4-5 leaf	92.3 a	82.3 a	40.0 a	16.05 a	8717 a
6	N 210	4-5 leaf	92.8 a	82.8 a	41.0 a	15.73 ab	8774 a
LSD P=.05			2.60	2.60	2.38	0.802	441.0
Standard Deviation			1.72	1.72	1.58	0.532	292.6
CV			1.9	2.14	3.98	3.39	3.57
Treatment F			6.775	6.775	4.366	4.709	51.815
Treatment Prob(F)			0.0017	0.0017	0.0118	0.0087	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response to Drill-Seeded 23DGL-003PV to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-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	
% Organic matter	2.61
pH	7.10
Extractable nutrients ppm	Ca-5,039; Cu-1.62; Mg-749; P-102; K-227; Na-52; S-18.8; Zn-2.3
Crop/Variety	
Planting method/date	Drill seeded / April 4
Seeding rate/depth	18 seeds/ft ² / 1 inch
Emergence date	April 14
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	By Rainfall
Flood	May 24
Drain	July 29
Pest management	
Herbicides	Not Available
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 2

Table 27. Agronomic response of drill-seeded 23DGL-003PV to nitrogen fertilizer rate. Palmetto, St. Landry Parish.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/13/2024 Height In Main	Rice 8/13/2024 Moist % Main	Rice 8/13/2024 Yield lb/A Main
Trt	Urea -	Growth					
No.	lb N/A	Stage					
1	No N	4-5 leaf	91.5 e	81.5 e	36.5 b	14.60 b	8471 b
2	N 90	4-5 leaf	95.0 d	85.0 d	38.5 a	15.88 a	9547 a
3	N 120	4-5 leaf	97.0 b	87.0 b	39.3 a	16.00 a	9692 a
4	N 150	4-5 leaf	96.0 c	86.0 c	39.3 a	15.35 ab	9405 a
5	N 180	4-5 leaf	98.0 a	88.0 a	39.3 a	16.10 a	9249 a
6	N 210	4-5 leaf	97.3 b	87.3 b	40.0 a	15.53 ab	8964 ab
LSD P=.05			0.50	0.50	1.51	0.807	523.7
Standard Deviation			0.33	0.33	1.00	0.535	347.5
CV			0.34	0.38	2.59	3.44	3.77
Treatment F			203.462	203.462	5.893	4.326	6.573
Treatment Prob(F)			0.0001	0.0001	0.0033	0.0123	0.0020

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response to Drill-Seeded CLL18 to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-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	
% Organic matter	2.61
pH	7.10
Extractable nutrients ppm	Ca-5,039; Cu-1.62; Mg-749; P-102; K-227; Na-52; S-18.8; Zn-2.3
Crop/Variety	
Planting method/date	Drill seeded / April 4
Seeding rate/depth	25 seeds/ft ² / 1 inch
Emergence date	April 14
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	
Flush	By Rainfall
Flood	May 24
Drain	July 29
Pest management	
Herbicides	Not Available
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 2

Table 28. Agronomic response of drill-seeded CLL18 to nitrogen fertilizer rate. Palmetto, St. Landry Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle		
Rating Date					8/13/2024	8/13/2024	8/13/2024
Rating Type			50% HD	50% HD	Height	Moist	Yield
Rating Unit			days	days	In	%	lb/A
Crop Stage			Main	Main	Main	Main	Main
Trt	Urea -	Growth					
No.	lb N/A	Stage					
1	No N	4-5 leaf	81.8 d	71.8 d	37.8 d	12.93 b	6331 c
2	N 90	4-5 leaf	84.5 c	74.5 c	42.3 c	15.18 a	9349 b
3	N 120	4-5 leaf	88.3 ab	78.3 ab	43.8 bc	15.50 a	10212 a
4	N 150	4-5 leaf	88.0 b	78.0 b	46.0 ab	14.60 a	10064 ab
5	N 180	4-5 leaf	90.0 a	80.0 a	42.8 c	15.50 a	9903 ab
6	N 210	4-5 leaf	89.3 ab	79.3 ab	46.8 a	15.75 a	9960 ab
LSD P=.05			1.87	1.87	2.95	1.448	730.7
Standard Deviation			1.24	1.24	1.95	0.961	484.8
CV			1.43	1.61	4.52	6.45	5.21
Treatment F			26.168	26.168	10.798	4.771	37.562
Treatment Prob(F)			0.0001	0.0001	0.0002	0.0083	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

**Agronomic Response to Drill-Seeded CLHA03 to Different Rates of Nitrogen Fertilizer Under Delayed
Flooding Conditions**

Experiment number	24-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	
% Organic matter	2.61
pH	7.10
Extractable nutrients ppm	Ca-5,039; Cu-1.62; Mg-749; P-102; K-227; Na-52; S-18.8; Zn-2.3
Crop/Variety	
Planting method/date	Drill seeded / April 4
Seeding rate/depth	25 seeds/ft ² / 1 inch
Emergence date	April 14
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	By Rainfall
Flood	May 24
Drain	July 29
Pest management	
Herbicides	Not Available
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 2

Table 29. Agronomic response of drill-seeded CLHA03 to nitrogen fertilizer rate. Palmetto, St. Landry Parish.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/13/2024 Height In Main	Rice 8/13/2024 Moist % Main	Rice 8/13/2024 Yield lb/A Main
Trt No.	Urea - lb N/A	Growth Stage					
1	No N	4-5 leaf	86.8 e	76.8 e	36.3 b	13.65 c	6231 c
2	N 90	4-5 leaf	90.0 d	80.0 d	38.0 ab	14.23 b	9032 b
3	N 120	4-5 leaf	91.0 c	81.0 c	39.8 a	14.63 a	9488 a
4	N 150	4-5 leaf	92.0 b	82.0 b	38.3 ab	14.53 ab	9011 b
5	N 180	4-5 leaf	92.0 b	82.0 b	38.8 a	14.53 ab	9101 b
6	N 210	4-5 leaf	93.0 a	83.0 a	40.0 a	14.75 a	8789 b
LSD P=.05			0.31	0.31	2.40	0.397	381.5
Standard Deviation			0.20	0.20	1.59	0.263	253.2
CV			0.22	0.25	4.13	1.83	2.94
Treatment F			476.200	476.200	2.921	9.183	87.900
Treatment Prob(F)			0.0001	0.0001	0.0490	0.0004	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response to Drill-Seeded PVL04 to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-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	Tensas-Sharkey Complex
% Organic matter	2.61
pH	7.10
Extractable nutrients ppm	Ca-5,039; Cu-1.62; Mg-749; P-102; K-227; Na-52; S-18.8; Zn-2.3
Crop/Variety	Rice / PVL04
Planting method/date	Drill seeded / April 4
Seeding rate/depth	25 seeds/ft ² / 1 inch
Emergence date	April 14
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	By Rainfall
Flood	May 24
Drain	July 29
Pest management	
Herbicides	Not Available
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 2

Table 30. Agronomic response of drill-seeded PVL04 to nitrogen fertilizer rate. Palmetto, St. Landry Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle		
Rating Date					8/13/2024	8/13/2024	8/13/2024
Rating Type			50% HD	50% HD	Height	Moist	Yield
Rating Unit			days	days	In	%	lb/A
Crop Stage			Main	Main	Main	Main	Main
Trt	Urea -	Growth					
No.	lb N/A	Stage					
1	No N	4-5 leaf	91.0 e	81.0 e	34.5 b	14.03 b	6041 b
2	N 90	4-5 leaf	98.8 d	88.8 d	40.3 a	15.85 a	7127 a
3	N 120	4-5 leaf	100.0 c	90.0 c	41.5 a	16.00 a	7128 a
4	N 150	4-5 leaf	100.0 c	90.0 c	41.8 a	15.58 a	6998 a
5	N 180	4-5 leaf	101.0 b	91.0 b	40.8 a	15.60 a	6470 ab
6	N 210	4-5 leaf	102.0 a	92.0 a	42.5 a	15.93 a	6654 ab
LSD P=.05			0.63	0.63	2.75	1.095	708.1
Standard Deviation			0.42	0.42	1.82	0.727	469.8
CV			0.42	0.47	4.53	4.69	6.97
Treatment F			360.238	360.238	10.165	4.159	3.389
Treatment Prob(F)			0.0001	0.0001	0.0002	0.0143	0.0301

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response to Drill-Seeded Taurus to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-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	
% Organic matter	2.61
pH	7.10
Extractable nutrients ppm	Ca-5,039; Cu-1.62; Mg-749; P-102; K-227; Na-52; S-18.8; Zn-2.3
Crop/Variety	
Planting method/date	Drill seeded / April 4
Seeding rate/depth	25 seeds/ft ² / 1 inch
Emergence date	April 14
Harvest date	August 13
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No Blanket Applications
Water management	
Flush	By Rainfall
Flood	May 24
Drain	July 29
Pest management	
Herbicides	Not Available
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 2

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

Crop Name			Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle		
Rating Date					8/13/2024	8/13/2024	8/13/2024
Rating Type			50% HD	50% HD	Height	Moist	Yield
Rating Unit			days	days	In	%	lb/A
Crop Stage			Main	Main	Main	Main	Main
Trt	Urea -	Growth					
No.	lb N/A	Stage					
1	No N	4-5 leaf	90.8 d	80.8 d	30.8 b	13.40 c	7280 b
2	N 90	4-5 leaf	93.0 b	83.0 b	35.3 a	14.25 b	9407 a
3	N 120	4-5 leaf	92.0 c	82.0 c	37.0 a	14.63 ab	9042 a
4	N 150	4-5 leaf	93.0 b	83.0 b	37.3 a	14.50 b	9667 a
5	N 180	4-5 leaf	94.0 a	84.0 a	37.3 a	14.70 ab	9771 a
6	N 210	4-5 leaf	93.8 a	83.8 a	37.0 a	15.03 a	9652 a
LSD P=.05			0.45	0.45	2.21	0.496	816.7
Standard Deviation			0.30	0.30	1.46	0.329	541.8
CV			0.32	0.36	4.1	2.28	5.93
Treatment F			65.250	65.250	12.264	11.535	12.200
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response to Drill-Seeded Addi Jo to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-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	
% Organic matter	2.61
pH	7.10
Extractable nutrients ppm	Ca-5,039; Cu-1.62; Mg-749; P-102; K-227; Na-52; S-18.8; Zn-2.3
Crop/Variety	
Planting method/date	Drill seeded / April 4
Seeding rate/depth	25 seeds/ft ² / 1 inch
Emergence date	April 14
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	By Rainfall
Flood	May 24
Drain	July 29
Pest management	
Herbicides	Not Available
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 2

Table 32. Agronomic response of drill-seeded Addi Jo to nitrogen fertilizer rate. Palmetto, St. Landry Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle		
Rating Date					8/13/2024	8/13/2024	8/13/2024
Rating Type			50% HD	50% HD	Height	Moist	Yield
Rating Unit			days	days	In	%	lb/A
Crop Stage			Main	Main	Main	Main	Main
Trt	Urea -	Growth					
No.	lb N/A	Stage					
1	No N	4-5 leaf	93.0 e	83.0 e	36.5 c	14.10 c	6525 d
2	N 90	4-5 leaf	96.0 d	86.0 d	37.8 bc	15.35 b	7954 ab
3	N 120	4-5 leaf	97.3 c	87.3 c	39.8 ab	16.23 a	8129 a
4	N 150	4-5 leaf	97.0 c	87.0 c	39.8 ab	15.70 b	7456 c
5	N 180	4-5 leaf	99.3 b	89.3 b	41.0 a	16.23 a	7487 bc
6	N 210	4-5 leaf	100.0 a	90.0 a	42.3 a	16.48 a	7377 c
LSD P=.05			0.45	0.45	2.55	0.406	496.0
Standard Deviation			0.30	0.30	1.69	0.269	329.1
CV			0.31	0.34	4.29	1.72	4.39
Treatment F			279.750	279.750	6.140	42.265	11.594
Treatment Prob(F)			0.0001	0.0001	0.0027	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response to Drill-Seeded Fitzgerald to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-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	
% Organic matter	2.61
pH	7.10
Extractable nutrients ppm	Ca-5,039; Cu-1.62; Mg-749; P-102; K-227; Na-52; S-18.8; Zn-2.3
Crop/Variety	
Planting method/date	Drill seeded / April 4
Seeding rate/depth	25 seeds/ft ² / 1 inch
Emergence date	April 14
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	
Flush	By Rainfall
Flood	May 24
Drain	July 29
Pest management	
Herbicides	Not Available
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 2

Table 33. Agronomic response of drill-seeded Fitzgerald to nitrogen fertilizer rate. Palmetto, St. Landry Parish.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/13/2024 Height In Main	Rice 8/13/2024 Moist % Main	Rice 8/13/2024 Yield lb/A Main
Trt No.	Urea - lb N/A	Growth Stage					
1	No N	4-5 leaf	85.0 e	75.0 e	34.3 c	12.30 c	5282 b
2	N 90	4-5 leaf	89.0 d	79.0 d	36.3 b	12.90 b	7529 a
3	N 120	4-5 leaf	92.0 a	82.0 a	38.3 a	13.50 a	7540 a
4	N 150	4-5 leaf	90.8 b	80.8 b	38.5 a	12.78 bc	7816 a
5	N 180	4-5 leaf	90.0 c	80.0 c	38.0 ab	12.83 b	7554 a
6	N 210	4-5 leaf	90.8 b	80.8 b	38.0 ab	13.45 a	7956 a
LSD P=.05			0.39	0.39	1.95	0.500	496.6
Standard Deviation			0.26	0.26	1.29	0.332	329.5
CV			0.29	0.32	3.48	2.56	4.53
Treatment F			361.000	361.000	6.532	7.427	36.409
Treatment Prob(F)			0.0001	0.0001	0.0021	0.0011	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response to Drill-Seeded 211L1008 to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-SLP-10
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	
% Organic matter	2.61
pH	7.10
Extractable nutrients ppm	Ca-5,039; Cu-1.62; Mg-749; P-102; K-227; Na-52; S-18.8; Zn-2.3
Crop/Variety	
Planting method/date	Drill seeded / April 4
Seeding rate/depth	25 seeds/ft ² / 1 inch
Emergence date	April 14
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	By Rainfall
Flood	May 24
Drain	July 29
Pest management	
Herbicides	Not Available
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 2

Table 34. Agronomic response of drill-seeded 211L1008 to nitrogen fertilizer rate. Palmetto, St. Landry Parish.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/13/2024 Height In Main	Rice 8/13/2024 Moist % Main	Rice 8/13/2024 Yield lb/A Main
Trt No.	Urea - lb N/A	Growth Stage					
1	No N	4-5 leaf	84.0 e	74.0 e	34.0 b	12.95 b	4211 c
2	N 90	4-5 leaf	87.3 d	77.3 d	36.8 a	14.08 a	8034 b
3	N 120	4-5 leaf	91.0 c	81.0 c	38.8 a	14.23 a	8543 ab
4	N 150	4-5 leaf	91.8 b	81.8 b	37.8 a	14.00 a	8700 a
5	N 180	4-5 leaf	92.3 ab	82.3 ab	38.5 a	14.23 a	8881 a
6	N 210	4-5 leaf	92.5 a	82.5 a	38.8 a	14.33 a	8730 a
LSD P=.05			0.69	0.69	2.25	0.644	612.9
Standard Deviation			0.46	0.46	1.49	0.427	406.7
CV			0.51	0.57	3.99	3.06	5.18
Treatment F			225.320	225.320	6.075	5.730	78.935
Treatment Prob(F)			0.0001	0.0001	0.0029	0.0038	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response to Drill-Seeded 201L1251 to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-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	
% Organic matter	2.61
pH	7.10
Extractable nutrients ppm	Ca-5,039; Cu-1.62; Mg-749; P-102; K-227; Na-52; S-18.8; Zn-2.3
Crop/Variety	
Planting method/date	Drill seeded / April 4
Seeding rate/depth	25 seeds/ft ² / 1 inch
Emergence date	April 14
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	By Rainfall
Flood	May 24
Drain	July 29
Pest management	
Herbicides	Not Available
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 2

Table 35. Agronomic response of drill-seeded 201L1251 to nitrogen fertilizer rate. Palmetto, St. Landry Parish.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/13/2024	Rice 8/13/2024	Rice 8/13/2024
			50% HD days Main	50% HD days Main	Height In Main	Moist % Main	Yield lb/A Main
Trt No.	Urea - lb N/A	Growth Stage					
1	No N	4-5 leaf	90.3 f	80.3 f	35.3 a	12.98 d	6034 b
2	N 90	4-5 leaf	93.8 e	83.8 e	36.0 a	13.95 c	9010 a
3	N 120	4-5 leaf	95.0 d	85.0 d	40.5 a	14.53 abc	9148 a
4	N 150	4-5 leaf	97.0 c	87.0 c	37.3 a	14.13 bc	9118 a
5	N 180	4-5 leaf	98.0 b	88.0 b	38.5 a	14.60 ab	9144 a
6	N 210	4-5 leaf	99.0 a	89.0 a	40.0 a	14.73 a	8999 a
LSD P=.05			0.42	0.42	4.34	0.590	700.7
Standard Deviation			0.28	0.28	2.88	0.391	464.9
CV			0.29	0.33	7.6	2.77	5.42
Treatment F			531.000	531.000	2.174	10.946	28.772
Treatment Prob(F)			0.0001	0.0001	0.1120	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response to Drill-Seeded RU1902034 CL to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-SLP-12
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	
% Organic matter	2.61
pH	7.10
Extractable nutrients ppm	Ca-5,039; Cu-1.62; Mg-749; P-102; K-227; Na-52; S-18.8; Zn-2.3
Crop/Variety	
Planting method/date	Drill seeded / April 4
Seeding rate/depth	25 seeds/ft ² / 1 inch
Emergence date	April 14
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	By Rainfall
Flood	May 24
Drain	July 29
Pest management	
Herbicides	Not Available
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 2

Table 36. Agronomic response of drill-seeded RU1902034 CL to nitrogen fertilizer rate. Palmetto, St. Landry Parish.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/13/2024	Rice 8/13/2024	Rice 8/13/2024
			50% HD days Main	50% HD days Main	Height In Main	Moist % Main	Yield lb/A Main
Trt No.	Urea - lb N/A	Growth Stage					
1	No N	4-5 leaf	83.0 f	73.0 f	35.3 b	12.03 a	5439 b
2	N 90	4-5 leaf	85.0 e	75.0 e	38.8 a	12.43 a	9075 a
3	N 120	4-5 leaf	88.0 d	78.0 d	40.3 a	12.48 a	8576 a
4	N 150	4-5 leaf	88.8 c	78.8 c	39.3 a	12.45 a	8997 a
5	N 180	4-5 leaf	90.0 b	80.0 b	38.8 a	12.65 a	9041 a
6	N 210	4-5 leaf	90.8 a	80.8 a	39.8 a	12.45 a	8893 a
LSD P=.05			0.45	0.45	2.59	0.727	626.6
Standard Deviation			0.30	0.30	1.72	0.482	415.7
CV			0.34	0.38	4.44	3.89	4.99
Treatment F			405.750	405.750	4.268	0.734	47.412
Treatment Prob(F)			0.0001	0.0001	0.0130	0.6095	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response to Drill-Seeded RU2102222 CL to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-SLP-13
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	
% Organic matter	2.61
pH	7.10
Extractable nutrients ppm	Ca-5,039; Cu-1.62; Mg-749; P-102; K-227; Na-52; S-18.8; Zn-2.3
Crop/Variety	
Planting method/date	Drill seeded / April 4
Seeding rate/depth	25 seeds/ft ² / 1 inch
Emergence date	April 14
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	By Rainfall
Flood	May 24
Drain	July 29
Pest management	
Herbicides	Not Available
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 2

Table 37. Agronomic response of drill-seeded RU2102222 CL to nitrogen fertilizer rate. Palmetto, St. Landry Parish.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/13/2024 Height In Main	Rice 8/13/2024 Moist % Main	Rice 8/13/2024 Yield lb/A Main
Trt	Urea -	Growth					
No.	lb N/A	Stage					
1	No N	4-5 leaf	89.5 d	79.5 d	32.3 c	12.70 c	5569 c
2	N 90	4-5 leaf	90.5 c	80.5 c	36.0 b	13.65 b	8378 b
3	N 120	4-5 leaf	91.8 b	81.8 b	37.8 ab	13.63 b	8402 ab
4	N 150	4-5 leaf	90.8 c	80.8 c	38.3 ab	14.18 a	9134 a
5	N 180	4-5 leaf	93.0 a	83.0 a	38.5 ab	14.25 a	9119 ab
6	N 210	4-5 leaf	92.8 a	82.8 a	40.3 a	14.28 a	8859 ab
LSD P=.05			0.91	0.91	2.80	0.379	746.4
Standard Deviation			0.60	0.60	1.86	0.251	495.2
CV			0.66	0.74	4.99	1.82	6.01
Treatment F			20.542	20.542	8.903	23.157	29.794
Treatment Prob(F)			0.0001	0.0001	0.0004	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response to Drill-Seeded RU2102070 to Different Rates of Nitrogen Fertilizer Under Delayed Flooding Conditions

Experiment number	24-SLP-14
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	
% Organic matter	2.61
pH	7.10
Extractable nutrients ppm	Ca-5,039; Cu-1.62; Mg-749; P-102; K-227; Na-52; S-18.8; Zn-2.3
Crop/Variety	
Planting method/date	Drill seeded / April 4
Seeding rate/depth	25 seeds/ft ² / 1 inch
Emergence date	April 14
Harvest date	August 13
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	No Blanket Applications
Water management	
Flush	By Rainfall
Flood	May 24
Drain	July 29
Pest management	
Herbicides	Not Available
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 2

Table 38. Agronomic response of drill-seeded RU2102070 to nitrogen fertilizer rate. Palmetto, St. Landry Parish.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/13/2024	Rice 8/13/2024	Rice 8/13/2024
			50% HD days Main	50% HD days Main	Height In Main	Moist % Main	Yield lb/A Main
Trt No.	Urea - lb N/A	Growth Stage					
1	No N	4-5 leaf	88.5 e	78.5 e	34.0 c	14.25 c	5318 d
2	N 90	4-5 leaf	89.3 d	79.3 d	40.0 b	15.08 b	8614 c
3	N 120	4-5 leaf	91.0 c	81.0 c	42.5 a	15.20 b	9432 ab
4	N 150	4-5 leaf	92.0 ab	82.0 ab	41.5 ab	15.66 a	9162 bc
5	N 180	4-5 leaf	91.8 b	81.8 b	41.5 ab	15.83 a	9514 ab
6	N 210	4-5 leaf	92.5 a	82.5 a	43.0 a	15.90 a	9909 a
LSD P=.05			0.66	0.66	2.05	0.359	662.0
Standard Deviation			0.43	0.43	1.36	0.235	433.3
CV			0.48	0.54	3.37	1.53	5.0
Treatment F			54.882	54.882	23.587	27.732	62.574
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded DG353M to Different Rates of Nitrogen Fertilizer

Experiment number : 24-MSU-01

Site and design :

Location/Cooperator : Calcasieu Parish / McNeese State University Farm

Tillage type..... : Spring 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 : Midland silty clay loam

% Organic matter..... : 3.11

pH..... : 4.78

Extractable nutrients (ppm)..... : Ca-1,329; Cu-0.74; Mg-263; P-30; K-115; Na-109; S-16.3; Zn-3.8

Crop/Variety : Rice / DG353M (DGM004)

Planting method/date : Drill seeded / April 16

Seeding rate/depth..... : 25 seed/ft² / 1 inch

Emergence date..... : April 25

Harvest date : August 21

Ratoon Harvest date..... : NA

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

Apron (fungicide) – 8.88 ml

Maxim (fungicide) – 0.88 ml

Release (gibberellic acid) – 10 g

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

AV-1011 (bird repellent) – 18.3 oz

Dermacor- 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, April 17

Water management : Underground irrigation

Flush : By Rainfall

Flood : May 28

Drain : August 4

Ratoon flood : NA

Ratoon drain : NA

Pest management :

Herbicides..... : 1.5 qt/A Glyphosate + 6 oz/A Command + 3 oz/A Sharpen + 4.8 oz/A Surfactant, April 17

1.5 oz/A Gambit + 2 qt/A Stam + 2 qt/A Rice Beaux, May 24

Insecticides : None

Fungicides..... : 15 oz/A Amistar Top, July 16

Table 39. Agronomic response of drill-seeded DG353M to nitrogen fertilizer rate. McNeese State University, Calcasieu Parish.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/21/2024	Rice 8/21/2024	Rice 8/21/2024
			50% HD days Main	50% HD days Main	Height In Main	Moist % Main	Yield lb/A Main
Trt No.	Urea - lb N/A	Growth Stage					
1	No N	4-5 leaf	88.0 d	79.0 d	33.3 c	15.40 a	5236 b
2	N 90	4-5 leaf	92.3 c	83.3 c	36.3 b	16.10 a	6552 a
3	N 120	4-5 leaf	93.3 b	84.3 b	38.0 a	16.23 a	6831 a
4	N 150	4-5 leaf	94.3 a	85.3 a	38.5 a	16.40 a	6890 a
5	N 180	4-5 leaf	94.8 a	85.8 a	39.3 a	15.60 a	6615 a
6	N 210	4-5 leaf	95.0 a	86.0 a	39.3 a	15.83 a	6607 a
LSD P=.05			0.83	0.83	1.67	0.700	373.0
Standard Deviation			0.55	0.55	1.11	0.465	247.5
CV			0.59	0.65	2.97	2.92	3.83
Treatment F			91.222	91.222	17.486	2.734	24.468
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0598	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded DG245L to Different Rates of Nitrogen Fertilizer

Experiment number : 24-MSU-02

Site and design :

Location/Cooperator : Calcasieu Parish / McNeese State University Farm

Tillage type : Spring 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 : Midland silty clay loam

% Organic matter : 3.11

pH : 4.78

Extractable nutrients (ppm) : Ca-1,329; Cu-0.74; Mg-263; P-30; K-115; Na-109; S-16.3; Zn-3.8

Crop/Variety : Rice / DG245L (DGL2065)

Planting method/date : Drill seeded / April 16

Seeding rate/depth : 25 seed/ft² / 1 inch

Emergence date : April 25

Harvest date : August 21

Ratoon Harvest date : NA

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

 Apron (fungicide) – 8.88 ml

 Maxim (fungicide) – 0.88 ml

 Release (gibberellic acid) – 10 g

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

 AV-1011 (bird repellent) – 18.3 oz

 Dermacor- 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, April 17

Water management : Underground irrigation

Flush : By Rainfall

Flood : May 28

Drain : August 4

Ratoon flood : NA

Ratoon drain : NA

Pest management :

Herbicides : 1.5 qt/A Glyphosate + 6 oz/A Command + 3 oz/A Sharpen + 4.8 oz/A Surfactant, April 17

 1.5 oz/A Gambit + 2 qt/A Stam + 2 qt/A Rice Beaux, May 24

Insecticides : None

Fungicides : 15 oz/A Amistar Top, July 16

Table 40. Agronomic response of drill-seeded DG245L to nitrogen fertilizer rate. McNeese State University, Calcasieu Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					8/21/2024	8/21/2024	8/21/2024	8/21/2024
Rating Type			50% HD	50% HD	Height	Lodge	Lodge	Moist
Rating Unit			days	days	In	% plot	rate	%
Crop Stage			Main	Main	Main	Main	Main	Main
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	84.0 d	75.0 d	36.3 c	0.0 b	0.0 b	14.83 a
2	N 90	4-5 leaf	87.5 c	78.5 c	39.5 b	0.0 b	0.0 b	15.10 a
3	N 120	4-5 leaf	88.0 bc	79.0 bc	40.8 ab	0.0 b	0.0 b	15.18 a
4	N 150	4-5 leaf	89.0 ab	80.0 ab	40.8 ab	0.0 b	0.0 b	15.23 a
5	N 180	4-5 leaf	89.5 a	80.5 a	42.3 a	12.5 b	0.5 b	15.00 a
6	N 210	4-5 leaf	90.0 a	81.0 a	43.0 a	37.5 a	2.0 a	14.73 a
LSD P=.05			1.10	1.10	2.47	14.12	0.57	0.500
Standard Deviation			0.73	0.73	1.64	9.37	0.38	0.332
CV			0.83	0.92	4.05	112.43	91.21	2.21
Treatment F			35.250	35.250	8.502	10.443	17.769	1.432
Treatment Prob(F)			0.0001	0.0001	0.0006	0.0002	0.0001	0.2693
Treatment Prob(F)			0.0001	0.0001	0.0006	0.0002	0.0001	0.2693

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded 23DGL-003PV to Different Rates of Nitrogen Fertilizer

Experiment number : 24-MSU-03

Site and design :

Location/Cooperator : Calcasieu Parish / McNeese State University Farm

Tillage type..... : Spring 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 : Midland silty clay loam

% Organic matter..... : 3.11

pH..... : 4.78

Extractable nutrients (ppm)..... : Ca-1,329; Cu-0.74; Mg-263; P-30; K-115; Na-109; S-16.3; Zn-3.8

Crop/Variety : Rice / 23DGL-003PV

Planting method/date : Drill seeded / April 16

Seeding rate/depth..... : 18 seed/ft² / 1 inch

Emergence date..... : April 25

Harvest date : August 21

Ratoon Harvest date..... : NA

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

Apron (fungicide) – 8.88 ml

Maxim (fungicide) – 0.88 ml

Release (gibberellic acid) – 10 g

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

AV-1011 (bird repellent) – 18.3 oz

Dermacor- 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, April 17

Water management : Underground irrigation

Flush : By Rainfall

Flood : May 28

Drain : August 4

Ratoon flood : NA

Ratoon drain : NA

Pest management :

Herbicides..... : 1.5 qt/A Glyphosate + 6 oz/A Command + 3 oz/A Sharpen + 4.8 oz/A Surfactant, April 17

1.5 oz/A Gambit + 2 qt/A Stam + 2 qt/A Rice Beaux, May 24

Insecticides : None

Fungicides..... : 15 oz/A Amistar Top, July 16

Table 41. Agronomic response of drill-seeded 23DGL-003PV to nitrogen fertilizer rate. McNeese State University, Calcasieu Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					8/21/2024	8/21/2024	8/21/2024	8/21/2024
Rating Type			50% HD	50% HD	Height	Lodge	Lodge	Moist
Rating Unit			days	days	In	% plot	rate	%
Crop Stage			Main	Main	Main	Main	Main	Main
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	86.8 c	77.8 c	37.3 c	20.0 b	0.5 b	15.78 a
2	N 90	4-5 leaf	91.8 b	82.8 b	38.0 bc	75.0 a	2.8 a	14.85 b
3	N 120	4-5 leaf	92.0 b	83.0 b	39.0 abc	82.5 a	2.8 a	14.95 b
4	N 150	4-5 leaf	92.3 ab	83.3 ab	39.5 ab	87.5 a	3.5 a	14.53 bc
5	N 180	4-5 leaf	93.3 a	84.3 a	40.8 a	85.0 a	3.5 a	13.98 c
6	N 210	4-5 leaf	93.3 a	84.3 a	39.3 abc	90.0 a	3.5 a	14.20 bc
LSD P=.05			1.05	1.05	2.01	17.62	1.03	0.799
Standard Deviation			0.70	0.70	1.34	11.69	0.68	0.530
CV			0.76	0.84	3.43	15.94	24.84	3.6
Treatment F			48.634	48.634	3.327	20.756	11.571	5.830
Treatment Prob(F)			0.0001	0.0001	0.0321	0.0001	0.0001	0.0035

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

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

Experiment number : 24-MSU-04

Site and design

Location/Cooperator : Calcasieu Parish / McNeese State University Farm

Tillage type..... : Spring 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 : Midland silty clay loam

% Organic matter..... : 3.11

pH..... : 4.78

Extractable nutrients (ppm)..... : Ca-1,329; Cu-0.74; Mg-263; P-30; K-115; Na-109; S-16.3; Zn-3.8

Crop/Variety : Rice / CLL18

Planting method/date : Drill seeded / April 16

Seeding rate/depth..... : 25 seed/ft² / 1 inch

Emergence date..... : April 25

Harvest date : August 21

Ratoon Harvest date..... : NA

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

Apron (fungicide) – 8.88 ml

Maxim (fungicide) – 0.88 ml

Release (gibberellic acid) – 10 g

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

AV-1011 (bird repellent) – 18.3 oz

Dermacor- 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, April 17

Water management : Underground irrigation

Flush : By Rainfall

Flood : May 28

Drain : August 4

Ratoon flood : NA

Ratoon drain : NA

Pest management..... :

Herbicides..... : 1.5 qt/A Glyphosate + 6 oz/A Command + 3 oz/A Sharpen + 4.8 oz/A Surfactant, April 17

1.5 oz/A Gambit + 2 qt/A Stam + 2 qt/A Rice Beaux, May 24

Insecticides : None

Fungicides..... : 15 oz/A Amistar Top, July 16

Table 42. Agronomic response of drill-seeded CLL18 to nitrogen fertilizer rate. McNeese State University, Calcasieu Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					8/21/2024	8/21/2024	8/21/2024	8/21/2024
Rating Type			50% HD	50% HD	Height	Lodge	Lodge	Moist
Rating Unit			days	days	In	% plot	rate	%
Crop Stage			Main	Main	Main	Main	Main	Main
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	86.0 d	77.0 d	38.0 c	0.0 c	0.0 c	13.80 b
2	N 90	4-5 leaf	92.0 c	83.0 c	43.8 b	5.0 c	0.3 c	14.98 a
3	N 120	4-5 leaf	92.3 c	83.3 c	46.5 a	42.5 b	1.8 b	15.15 a
4	N 150	4-5 leaf	93.0 b	84.0 b	46.3 a	52.5 b	2.0 b	15.10 a
5	N 180	4-5 leaf	93.8 a	84.8 a	47.0 a	67.5 ab	2.5 ab	14.60 ab
6	N 210	4-5 leaf	94.0 a	85.0 a	46.8 a	85.0 a	3.3 a	14.48 ab
LSD P=.05			0.42	0.42	2.28	26.14	1.01	0.899
Standard Deviation			0.28	0.28	1.52	17.34	0.67	0.596
CV			0.3	0.34	3.39	41.21	41.41	4.06
Treatment F			452.143	452.143	21.218	15.271	14.301	2.942
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	0.0479

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded CLHA03 to Different Rates of Nitrogen Fertilizer

Experiment number : 24-MSU-05

Site and design :

Location/Cooperator : Calcasieu Parish / McNeese State University Farm

Tillage type : Spring 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 : Midland silty clay loam

% Organic matter : 3.11

pH : 4.78

Extractable nutrients (ppm) : Ca-1,329; Cu-0.74; Mg-263; P-30; K-115; Na-109; S-16.3; Zn-3.8

Crop/Variety : Rice / CLHA03 (CL2150)

Planting method/date : Drill seeded / April 16

Seeding rate/depth : 25 seed/ft² / 1 inch

Emergence date : April 25

Harvest date : August 21

Ratoon Harvest date : NA

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

 Apron (fungicide) – 8.88 ml

 Maxim (fungicide) – 0.88 ml

 Release (gibberellic acid) – 10 g

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

 AV-1011 (bird repellent) – 18.3 oz

 Dermacor- 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, April 17

Water management : Underground irrigation

Flush : By Rainfall

Flood : May 28

Drain : August 4

Ratoon flood : NA

Ratoon drain : NA

Pest management :

Herbicides : 1.5 qt/A Glyphosate + 6 oz/A Command + 3 oz/A Sharpen + 4.8 oz/A Surfactant, April 17

 1.5 oz/A Gambit + 2 qt/A Stam + 2 qt/A Rice Beaux, May 24

Insecticides : None

Fungicides : 15 oz/A Amistar Top, July 16

Table 43. Agronomic response of drill-seeded CLHA03 to nitrogen fertilizer rate. McNeese State University, Calcasieu Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					8/21/2024	8/21/2024	8/21/2024	8/21/2024
Rating Type			50% HD	50% HD	Height	Lodge	Lodge	Moist
Rating Unit			days	days	In	% plot	rate	%
Crop Stage			Main	Main	Main	Main	Main	Main
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	86.0 d	77.0 d	36.8 b	0.0 c	0.0 c	15.20 ab
2	N 90	4-5 leaf	88.8 c	79.8 c	41.0 a	0.0 c	0.0 c	15.38 a
3	N 120	4-5 leaf	89.3 c	80.3 c	41.5 a	25.0 b	1.3 b	15.58 a
4	N 150	4-5 leaf	90.0 b	81.0 b	41.5 a	37.5 b	2.3 b	15.23 ab
5	N 180	4-5 leaf	90.8 a	81.8 a	42.0 a	77.5 a	4.0 a	14.48 c
6	N 210	4-5 leaf	91.0 a	82.0 a	41.5 a	87.5 a	4.0 a	14.60 bc
LSD P=.05			0.72	0.72	1.86	21.24	1.23	0.705
Standard Deviation			0.48	0.48	1.24	14.09	0.82	0.468
CV			0.54	0.6	3.04	37.17	42.6	3.1
Treatment F			57.867	57.867	10.089	28.469	19.900	3.524
Treatment Prob(F)			0.0001	0.0001	0.0002	0.0001	0.0001	0.0263
								0.0055

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded PVL04 to Different Rates of Nitrogen Fertilizer

Experiment number : 24-MSU-06

Site and design :

Location/Cooperator : Calcasieu Parish / McNeese State University Farm

Tillage type..... : Spring 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 : Midland silty clay loam

% Organic matter..... : 3.11

pH..... : 4.78

Extractable nutrients (ppm)..... : Ca-1,329; Cu-0.74; Mg-263; P-30; K-115; Na-109; S-16.3; Zn-3.8

Crop/Variety : Rice / PVL04

Planting method/date : Drill seeded / April 16

Seeding rate/depth..... : 25 seed/ft² / 1 inch

Emergence date..... : April 25

Harvest date : August 21

Ratoon Harvest date..... : NA

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

Apron (fungicide) – 8.88 ml

Maxim (fungicide) – 0.88 ml

Release (gibberellic acid) – 10 g

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

AV-1011 (bird repellent) – 18.3 oz

Dermacor- 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, April 17

Water management : Underground irrigation

Flush : By Rainfall

Flood : May 28

Drain : August 4

Ratoon flood : NA

Ratoon drain : NA

Pest management :

Herbicides..... : 1.5 qt/A Glyphosate + 6 oz/A Command + 3 oz/A Sharpen + 4.8 oz/A Surfactant, April 17

1.5 oz/A Gambit + 2 qt/A Stam + 2 qt/A Rice Beaux, May 24

Insecticides : None

Fungicides..... : 15 oz/A Amistar Top, July 16

Table 44. Agronomic response of drill-seeded PVL04 to nitrogen fertilizer rate. McNeese State University, Calcasieu Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					8/21/2024	8/21/2024	8/21/2024	8/21/2024
Rating Type			50% HD	50% HD	Height	Lodge	Lodge	Moist
Rating Unit			days	days	In	% plot	rate	%
Crop Stage			Main	Main	Main	Main	Main	Main
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	89.0 d	80.0 d	41.5 c	0.0 a	0.0 a	16.45 a
2	N 90	4-5 leaf	93.8 c	84.8 c	44.8 b	0.0 a	0.0 a	16.38 a
3	N 120	4-5 leaf	94.3 c	85.3 c	46.8 ab	0.0 a	0.0 a	16.55 a
4	N 150	4-5 leaf	95.5 b	86.5 b	45.3 ab	0.0 a	0.0 a	16.75 a
5	N 180	4-5 leaf	96.3 ab	87.3 ab	46.3 ab	20.0 a	0.8 a	16.33 a
6	N 210	4-5 leaf	96.8 a	87.8 a	47.3 a	42.5 a	1.3 a	16.63 a
LSD P=.05			1.09	1.09	2.18	33.39	1.04	0.546
Standard Deviation			0.72	0.72	1.44	22.15	0.69	0.362
CV			0.77	0.85	3.19	212.69	207.36	2.19
Treatment F			60.702	60.702	8.265	2.535	2.442	0.783
Treatment Prob(F)			0.0001	0.0001	0.0006	0.0745	0.0826	0.5773
0.0030								

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded Taurus to Different Rates of Nitrogen Fertilizer

Experiment number	24-MSU-07
Site and design	
Location/Cooperator	Calcasieu Parish / McNeese State University Farm
Tillage type	Spring 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	Midland silty clay loam
% Organic matter	3.11
pH	4.78
Extractable nutrients (ppm)	Ca-1,329; Cu-0.74; Mg-263; P-30; K-115; Na-109; S-16.3; Zn-3.8
Crop/Variety	Rice / Taurus
Planting method/date	Drill seeded / April 16
Seeding rate/depth	25 seed/ft ² / 1 inch
Emergence date	April 25
Harvest date	August 21
Ratoon Harvest date	NA
Seed treatment/cwt	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	250 lb/A 0-24-24-2.8, April 17
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 28
Drain	August 4
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1.5 qt/A Glyphosate + 6 oz/A Command + 3 oz/A Sharpen + 4.8 oz/A Surfactant, April 17
	1.5 oz/A Gambit + 2 qt/A Stam + 2 qt/A Rice Beaux, May 24
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 16

Table 45. Agronomic response of drill-seeded Taurus to nitrogen fertilizer rate. McNeese State University, Calcasieu Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					8/21/2024	8/21/2024	8/21/2024	8/21/2024
Rating Type			50% HD	50% HD	Height	Lodge	Lodge	Moist
Rating Unit			days	days	In	% plot	rate	%
Crop Stage			Main	Main	Main	Main	Main	Main
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	85.0 d	76.0 d	33.0 c	0.0 c	0.0 c	14.95 a
2	N 90	4-5 leaf	89.0 c	80.0 c	36.5 b	0.0 c	0.0 c	15.25 a
3	N 120	4-5 leaf	89.0 c	80.0 c	36.8 b	0.0 c	0.0 c	14.93 a
4	N 150	4-5 leaf	89.5 b	80.5 b	37.5 ab	7.5 bc	0.3 bc	15.25 a
5	N 180	4-5 leaf	90.3 a	81.3 a	37.3 ab	25.0 ab	1.0 b	14.75 a
6	N 210	4-5 leaf	90.0 a	81.0 a	39.3 a	35.0 a	2.3 a	14.88 a
LSD P=.05			0.44	0.44	2.21	22.23	0.95	0.550
Standard Deviation			0.29	0.29	1.46	14.75	0.63	0.365
CV			0.33	0.37	3.99	131.09	108.42	2.43
Treatment F			172.355	172.355	7.911	4.218	8.167	1.269
Treatment Prob(F)			0.0001	0.0001	0.0008	0.0136	0.0007	0.3277

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded Addi Jo to Different Rates of Nitrogen Fertilizer

Experiment number	24-MSU-08
Site and design	
Location/Cooperator	Calcasieu Parish / McNeese State University Farm
Tillage type	Spring 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	Midland silty clay loam
% Organic matter	3.11
pH	4.78
Extractable nutrients (ppm)	Ca-1,329; Cu-0.74; Mg-263; P-30; K-115; Na-109; S-16.3; Zn-3.8
Crop/Variety	Rice / Addi Jo
Planting method/date	Drill seeded / April 16
Seeding rate/depth	25 seed/ft ² / 1 inch
Emergence date	April 25
Harvest date	August 21
Ratoon Harvest date	NA
Seed treatment/cwt	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	250 lb/A 0-24-24-2.8, April 17
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 28
Drain	August 4
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1.5 qt/A Glyphosate + 6 oz/A Command + 3 oz/A Sharpen + 4.8 oz/A Surfactant, April 17
	1.5 oz/A Gambit + 2 qt/A Stam + 2 qt/A Rice Beaux, May 24
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 16

Table 46. Agronomic response of drill-seeded Addi Jo to nitrogen fertilizer rate. McNeese State University, Calcasieu Parish.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/21/2024	Rice 8/21/2024	Rice 8/21/2024
			50% HD days Main	50% HD days Main	Height In Main	Moist % Main	Yield lb/A Main
Trt No.	Urea - lb N/A	Growth Stage					
1	No N	4-5 leaf	93.0 c	84.0 c	38.0 b	15.65 c	5780 c
2	N 90	4-5 leaf	97.0 b	88.0 b	41.5 a	16.90 b	6700 a
3	N 120	4-5 leaf	97.3 b	88.3 b	41.8 a	17.70 ab	6622 ab
4	N 150	4-5 leaf	98.8 a	89.8 a	42.8 a	18.03 a	6685 a
5	N 180	4-5 leaf	99.0 a	90.0 a	42.0 a	18.00 a	6066 bc
6	N 210	4-5 leaf	99.0 a	90.0 a	42.3 a	18.45 a	5846 c
LSD P=.05			0.48	0.48	2.62	0.836	586.6
Standard Deviation			0.32	0.32	1.74	0.555	389.2
CV			0.32	0.36	4.21	3.18	6.19
Treatment F			211.667	211.667	3.852	13.626	4.969
Treatment Prob(F)			0.0001	0.0001	0.0191	0.0001	0.0070

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded Fitzgerald to Different Rates of Nitrogen Fertilizer

Experiment number: 24-MSU-09

Site and design:

Location/Cooperator: Calcasieu Parish / McNeese State University Farm

Tillage type.....: Spring 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: Midland silty clay loam

% Organic matter.....: 3.11

pH.....: 4.78

Extractable nutrients (ppm).....: Ca-1,329; Cu-0.74; Mg-263; P-30; K-115; Na-109; S-16.3; Zn-3.8

Crop/Variety: Rice / Fitzgerald

Planting method/date: Drill seeded / April 16

Seeding rate/depth.....: 25 seed/ft² / 1 inch

Emergence date.....: April 25

Harvest date: August 21

Ratoon Harvest date.....: NA

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

 Apron (fungicide) – 8.88 ml

 Maxim (fungicide) – 0.88 ml

 Release (gibberellic acid) – 10 g

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

 AV-1011 (bird repellent) – 18.3 oz

 Dermacor- 0.137 lb ai/cwt

Fertilization: 250 lb/A 0-24-24-2.8, April 17

Water management: Underground irrigation

Flush: By Rainfall

Flood: May 28

Drain: August 4

Ratoon flood: NA

Ratoon drain: NA

Pest management:

Herbicides.....: 1.5 qt/A Glyphosate + 6 oz/A Command + 3 oz/A Sharpen + 4.8 oz/A Surfactant, April 17

 1.5 oz/A Gambit + 2 qt/A Stam + 2 qt/A Rice Beaux, May 24

Insecticides: None

Fungicides.....: 15 oz/A Amistar Top, July 16

Table 47. Agronomic response of drill-seeded Fitzgerald to nitrogen fertilizer rate. McNeese State University, Calcasieu Parish.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/21/2024	Rice 8/21/2024	Rice 8/21/2024
			50% HD days Main	50% HD days Main	Height In Main	Moist % Main	Yield lb/A Main
Trt No.	Urea - lb N/A	Growth Stage					
1	No N	4-5 leaf	82.0 c	73.0 c	36.0 b	13.85 a	5300 b
2	N 90	4-5 leaf	84.5 b	75.5 b	39.5 a	14.10 a	6354 a
3	N 120	4-5 leaf	85.0 b	76.0 b	39.0 a	14.05 a	6473 a
4	N 150	4-5 leaf	86.3 a	77.3 a	40.0 a	14.45 a	6522 a
5	N 180	4-5 leaf	86.5 a	77.5 a	40.5 a	14.28 a	6683 a
6	N 210	4-5 leaf	86.8 a	77.8 a	40.5 a	13.58 a	6607 a
LSD P=.05			1.13	1.13	1.69	0.869	560.4
Standard Deviation			0.75	0.75	1.12	0.576	371.8
CV			0.88	0.99	2.85	4.1	5.88
Treatment F			22.529	22.529	9.159	1.152	7.639
Treatment Prob(F)			0.0001	0.0001	0.0004	0.3765	0.0010

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded RT7331 MA to Different Rates of Nitrogen Fertilizer

Experiment number : 24-MSU-21

Site and design :

Location/Cooperator : Calcasieu Parish / McNeese State University Farm

Tillage type : Spring 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 : Midland silty clay loam

% Organic matter : 3.11

pH : 4.78

Extractable nutrients (ppm) : Ca-1,329; Cu-0.74; Mg-263; P-30; K-115; Na-109; S-16.3; Zn-3.8

Crop/Variety : Rice / RT7331 MA

Planting method/date : Drill seeded / April 16

Seeding rate/depth : 10 seed/ft² / 1 inch

Emergence date : April 25

Harvest date : August 21

Ratoon Harvest date : NA

Seed treatment/cwt : **Hybrid Varieties:**

 Apron (fungicide) – 8.88 ml

 Maxim (fungicide) – 0.88 ml

 Release (gibberellic acid) – 10 g

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

 AV-1011 (bird repellent) – 18.3 oz

 Dermacor- 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, April 17

Water management : Underground irrigation

Flush : By Rainfall

Flood : May 28

Drain : August 4

Ratoon flood : NA

Ratoon drain : NA

Pest management :

Herbicides : 1.5 qt/A Glyphosate + 6 oz/A Command + 3 oz/A Sharpen + 4.8 oz/A Surfactant, April 17

 1.5 oz/A Gambit + 2 qt/A Stam + 2 qt/A Rice Beaux, May 24

Insecticides : None

Fungicides : 15 oz/A Amistar Top, July 16

Table 48. Agronomic response of drill-seeded RT7331 MA to nitrogen fertilizer rate. McNeese State University, Calcasieu Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					8/21/2024	8/21/2024	8/21/2024	8/21/2024
Rating Type			50% HD	50% HD	Height	Lodge	Lodge	Moist
Rating Unit			days	days	In	% plot	rate	%
Crop Stage			Main	Main	Main	Main	Main	Main
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	81.0 d	72.0 d	46.8 a	0.0 b	0.0 b	13.58 b
2	N 90	4-5 leaf	85.5 c	76.5 c	46.8 a	47.5 a	1.8 a	14.13 a
3	N 120	4-5 leaf	86.3 b	77.3 b	47.5 a	72.5 a	2.0 a	14.45 a
4	N 150	4-5 leaf	86.0 bc	77.0 bc	48.8 a	70.0 a	2.5 a	14.35 a
5	N 180	4-5 leaf	86.5 ab	77.5 ab	48.0 a	55.0 a	2.0 a	14.28 a
6	N 210	4-5 leaf	87.0 a	78.0 a	48.0 a	72.5 a	2.3 a	14.25 a
LSD P=.05			0.59	0.59	3.60	34.18	1.12	0.422
Standard Deviation			0.39	0.39	2.39	22.68	0.75	0.280
CV			0.46	0.51	5.02	42.85	42.59	1.98
Treatment F			126.818	126.818	0.433	6.057	5.760	4.933
Treatment Prob(F)			0.0001	0.0001	0.8188	0.0029	0.0037	0.0072

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded RT7421 FP to Different Rates of Nitrogen Fertilizer

Experiment number	24-MSU-22
Site and design	
Location/Cooperator	Calcasieu Parish / McNeese State University Farm
Tillage type	Spring 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	Midland silty clay loam
% Organic matter	3.11
pH	4.78
Extractable nutrients (ppm)	Ca-1,329; Cu-0.74; Mg-263; P-30; K-115; Na-109; S-16.3; Zn-3.8
Crop/Variety	Rice / RT7421 FP
Planting method/date	Drill seeded / April 16
Seeding rate/depth	10 seed/ft ² / 1 inch
Emergence date	April 25
Harvest date	August 21
Ratoon Harvest date	NA
Seed treatment/cwt	Hybrid Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	250 lb/A 0-24-24-2.8, April 17
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 28
Drain	August 4
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1.5 qt/A Glyphosate + 6 oz/A Command + 3 oz/A Sharpen + 4.8 oz/A Surfactant, April 17
	1.5 oz/A Gambit + 2 qt/A Stam + 2 qt/A Rice Beaux, May 24
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 16

Table 49. Agronomic response of drill-seeded RT7421 FP to nitrogen fertilizer rate. McNeese State University, Calcasieu Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					8/21/2024	8/21/2024	8/21/2024	8/21/2024
Rating Type			50% HD	50% HD	Height	Lodge	Lodge	Moist
Rating Unit			days	days	In	% plot	rate	%
Crop Stage			Main	Main	Main	Main	Main	Main
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	88.0 e	79.0 e	49.0 a	42.5 b	1.3 c	14.75 a
2	N 90	4-5 leaf	91.0 d	82.0 d	51.8 a	85.0 a	3.0 b	14.65 a
3	N 120	4-5 leaf	91.5 d	82.5 d	51.8 a	75.0 a	3.0 b	14.35 a
4	N 150	4-5 leaf	92.3 c	83.3 c	50.0 a	94.8 a	4.0 ab	13.78 a
5	N 180	4-5 leaf	93.0 b	84.0 b	52.8 a	90.0 a	3.5 ab	14.35 a
6	N 210	4-5 leaf	94.0 a	85.0 a	51.8 a	94.8 a	4.5 a	13.75 a
LSD P=.05			0.63	0.63	2.74	22.71	1.05	0.873
Standard Deviation			0.42	0.42	1.82	15.07	0.70	0.579
CV			0.46	0.51	3.56	18.76	21.73	4.06
Treatment F			98.143	98.143	2.315	7.015	10.371	2.155
Treatment Prob(F)			0.0001	0.0001	0.0953	0.0015	0.0002	0.1145

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded RT3202 to Different Rates of Nitrogen Fertilizer

Experiment number : 24-MSU-23

Site and design :

Location/Cooperator : Calcasieu Parish / McNeese State University Farm

Tillage type..... : Spring 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 : Midland silty clay loam

% Organic matter..... : 3.11

pH..... : 4.78

Extractable nutrients (ppm)..... : Ca-1,329; Cu-0.74; Mg-263; P-30; K-115; Na-109; S-16.3; Zn-3.8

Crop/Variety : Rice / RT3202

Planting method/date : Drill seeded / April 16

Seeding rate/depth..... : 10 seed/ft² / 1 inch

Emergence date..... : April 25

Harvest date : August 21

Ratoon Harvest date..... : NA

Seed treatment/cwt : **Hybrid Varieties:**

Apron (fungicide) – 8.88 ml

Maxim (fungicide) – 0.88 ml

Release (gibberellic acid) – 10 g

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

AV-1011 (bird repellent) – 18.3 oz

Dermacor- 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, April 17

Water management : Underground irrigation

Flush : By Rainfall

Flood : May 28

Drain : August 4

Ratoon flood : NA

Ratoon drain : NA

Pest management :

Herbicides..... : 1.5 qt/A Glyphosate + 6 oz/A Command + 3 oz/A Sharpen + 4.8 oz/A Surfactant, April 17

1.5 oz/A Gambit + 2 qt/A Stam + 2 qt/A Rice Beaux, May 24

Insecticides : None

Fungicides..... : 15 oz/A Amistar Top, July 16

Table 50. Agronomic response of drill-seeded RT3202 to nitrogen fertilizer rate. McNeese State University, Calcasieu Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle			
Rating Date					8/21/2024	8/21/2024	8/21/2024	8/21/2024
Rating Type			50% HD	50% HD	Height	Lodge	Lodge	Moist
Rating Unit			days	days	In	% plot	rate	%
Crop Stage			Main	Main	Main	Main	Main	Main
Trt	Urea	Growth						
No.	(lb N/A)	Stage						
1	No N	4-5 leaf	81.0 -	72.0 -	44.0 a	7.5 b	0.3 c	14.60 a
2	N 90	4-5 leaf	83.0 -	74.0 -	44.5 a	75.0 a	2.8 b	14.30 a
3	N 120	4-5 leaf	83.0 -	74.0 -	44.8 a	80.0 a	3.3 ab	14.13 a
4	N 150	4-5 leaf	83.0 -	74.0 -	44.8 a	77.5 a	3.5 ab	14.28 a
5	N 180	4-5 leaf	83.0 -	74.0 -	45.0 a	87.5 a	4.0 a	13.90 a
6	N 210	4-5 leaf	83.0 -	74.0 -	43.8 a	87.5 a	3.5 ab	14.08 a
LSD P=.05			.	.	1.95	17.04	0.96	0.586
Standard Deviation			0.00	0.00	1.29	11.30	0.64	0.389
CV			0.0	0.0	2.91	16.34	22.23	2.73
Treatment F			NA	NA	0.562	29.400	17.816	1.515
Treatment Prob(F)			NA	NA	0.7275	0.0001	0.0001	0.2437

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

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

Experiment number	24-MSU-24
Site and design	
Location/Cooperator	Calcasieu Parish / McNeese State University Farm
Tillage type	Spring 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	Midland silty clay loam
% Organic matter	3.11
pH	4.78
Extractable nutrients (ppm)	Ca-1,329; Cu-0.74; Mg-263; P-30; K-115; Na-109; S-16.3; Zn-3.8
Crop/Variety	Rice / DG3H2007
Planting method/date	Drill seeded / April 16
Seeding rate/depth	10 seed/ft ² / 1 inch
Emergence date	April 25
Harvest date	August 21
Ratoon Harvest date	NA
Seed treatment/cwt	Hybrid Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	250 lb/A 0-24-24-2.8, April 17
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 28
Drain	August 4
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1.5 qt/A Glyphosate + 6 oz/A Command + 3 oz/A Sharpen + 4.8 oz/A Surfactant, April 17
	1.5 oz/A Gambit + 2 qt/A Stam + 2 qt/A Rice Beaux, May 24
Insecticides	None
Fungicides	15 oz/A Amistar Top, July 16

Table 51. Agronomic response of drill-seeded DG3H2007 to nitrogen fertilizer rate. McNeese State University, Calcasieu Parish.

Crop Name			Rice	Rice	Rice	Rice	Rice
Description			Plant – HD	Emer - HD	Tip of Panicle		
Rating Date					8/21/2024	8/21/2024	8/21/2024
Rating Type			50% HD	50% HD	Height	Moist	Yield
Rating Unit			days	days	In	%	lb/A
Crop Stage			Main	Main	Main	Main	Main
Trt	Urea -	Growth					
No.	lb N/A	Stage					
1	No N	4-5 leaf	89.0 c	80.0 c	42.0 b	16.35 bc	9892 c
2	N 90	4-5 leaf	91.5 b	82.5 b	45.5 a	17.13 a	10757 a
3	N 120	4-5 leaf	92.8 a	83.8 a	46.3 a	16.75 abc	10620 ab
4	N 150	4-5 leaf	92.3 a	83.3 a	45.3 a	16.95 ab	9978 bc
5	N 180	4-5 leaf	92.5 a	83.5 a	47.3 a	16.18 c	9664 c
6	N 210	4-5 leaf	92.8 a	83.8 a	46.0 a	16.65 abc	9482 c
LSD P=.05			0.72	0.72	3.10	0.614	713.7
Standard Deviation			0.48	0.48	2.06	0.408	473.5
CV			0.52	0.58	4.53	2.45	4.7
Treatment F			36.181	36.181	3.043	3.080	4.724
Treatment Prob(F)			0.0001	0.0001	0.0430	0.0414	0.0086

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

**Determination of Optimum Plant Population and Seeding Rate for DG353M (DGM004) in a Stale Seedbed
Tillage System**

Experiment number	24-CM-30 Seeding Rate
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	1.29
pH	6.52
Extractable nutrients (ppm)	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	Rice / DG353M (DGM004)
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date	March 29
Harvest date	August 1
Ratoon Harvest date	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 52. Evaluation of seeding rate and plant population in a stale seedbed for DG353M (DGM004). H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice	Rice
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle			
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024	
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon	MC + RC
Trt No.	Treatment Name							
1	5 seed/ft2 (11.6lb/A)	3.1 e	112.0 a	98.0 a	36.5 a	5876 b	1354 a	7537 a
2	10 seed/ft2 (22.3 lb/A)	7.4 d	111.5 ab	97.5 ab	37.0 a	7080 a	1476 a	8898 a
3	15 seed/ft2 (34.9 lb/A)	8.9 d	111.0 bc	97.0 bc	36.8 a	7832 a	1631 a	9507 a
4	20 seed/ft2 (46.6 lb/A)	13.9 c	110.8 cd	96.8 cd	36.3 a	7845 a	1763 a	9608 a
5	30 seed/ft2 (69.9 lb/A)	20.4 b	110.3 d	96.3 d	36.8 a	7824 a	2044 a	9998 a
6	40 seed/ft2 (93.1 lb/A)	28.9 a	110.3 d	96.3 d	37.3 a	7776 a	2049 a	9825 a
LSD P=.05		2.094	0.57	0.57	2.85	859.0	531.9	1290.8
Standard Deviation		1.389	0.38	0.38	1.89	557.6	326.2	791.6
CV		10.1	0.34	0.39	5.14	7.44	17.8	8.25
Treatment F		186.59	13.706	13.706	0.140	5.592	1.407	1.702
Treatment Prob(F)		0.0001	0.0001	0.0001	0.9801	0.0069	0.3175	0.2399

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

**Determination of Optimum Plant Population and Seeding Rate for DG245L (DGL2065) in a Stale Seedbed
Tillage System**

Experiment number	24-CM-31 Seeding Rate
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	1.29
pH	6.52
Extractable nutrients (ppm)	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	Rice / DG245L (DGL2065)
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date	March 26
Harvest date	August 1
Ratoon Harvest date	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 53. Evaluation of seeding rate and plant population in a stale seedbed for DG245L (DGL2065). H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice	Rice
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle			
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024	
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon	MC + RC
Trt No.	Treatment Name							
1	5 seed/ft2 (11.6lb/A)	2.8 d	106.0 a	92.0 a	35.8 b	7357 c	2727 c	10084 c
2	10 seed/ft2 (22.3 lb/A)	5.8 d	106.0 a	92.0 a	38.3 a	8612 b	3376 b	11988 b
3	15 seed/ft2 (34.9 lb/A)	9.8 c	104.5 bc	90.5 bc	38.8 a	9817 a	3540 ab	13357 a
4	20 seed/ft2 (46.6 lb/A)	12.6 c	104.8 b	90.8 b	38.8 a	10038 a	3992 a	14030 a
5	30 seed/ft2 (69.9 lb/A)	20.0 b	104.3 bc	90.3 bc	38.3 a	10088 a	3425 b	13513 a
6	40 seed/ft2 (93.1 lb/A)	25.4 a	103.5 c	89.5 c	37.8 a	9687 a	3798 ab	13485 a
LSD P=.05		3.009	1.11	1.11	1.75	905.8	530.1	1313.0
Standard Deviation		1.996	0.74	0.74	1.16	601.0	351.7	871.2
CV		15.68	0.7	0.81	3.07	6.49	10.12	6.84
Treatment F		73.714	7.286	7.286	3.738	12.906	6.124	11.403
Treatment Prob(F)		0.0001	0.0012	0.0012	0.0213	0.0001	0.0028	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Determination of Optimum Plant Population and Seeding Rate System for 23DGL-003PV in a Stale Seedbed Tillage

Experiment number	24-CM-32 Seeding Rate
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	1.29
pH	6.52
Extractable nutrients (ppm)	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	Rice / 23DGL-003PV
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date	March 29
Harvest date	August 1
Ratoon Harvest date	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 54. Evaluation of seeding rate and plant population in a stale seedbed for 23DGL-003PV. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice	Rice
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle			
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024	
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon	MC + RC
Trt No.	Treatment Name							
1	5 seed/ft2 (11.6 lb/A)	2.8 d	113.3 a	99.3 a	38.3 a	8286 b	699 a	8986 cd
2	10 seed/ft2 (22.3 lb/A)	2.5 d	112.0 a	98.0 a	39.3 a	7943 b	462 a	8405 d
3	15 seed/ft2 (34.9 lb/A)	6.2 c	110.0 b	96.0 b	39.3 a	9901 a	462 a	10364 ab
4	20 seed/ft2 (46.6 lb/A)	7.9 bc	109.3 bc	95.3 bc	39.8 a	9905 a	255 a	10160 bc
5	30 seed/ft2 (69.9 lb/A)	10.5 b	109.0 bc	95.0 bc	38.5 a	9837 a	413 a	10249 bc
6	40 seed/ft2 (93.1 lb/A)	15.7 a	108.3 c	94.3 c	38.0 a	11073 a	552 a	11625 a
LSD P=.05		2.963	1.50	1.50	2.32	1261.3	381.1	1283.4
Standard Deviation		1.966	0.99	0.99	1.54	836.9	252.8	851.5
CV		25.84	0.9	1.03	3.97	8.82	53.34	8.55
Treatment F		26.000	15.152	15.152	0.785	7.779	1.361	7.089
Treatment Prob(F)		0.0001	0.0001	0.0001	0.5762	0.0009	0.2933	0.0014

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for CLL18 in a Stale Seedbed Tillage System

Experiment number	24-CM-33 Seeding Rate
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	1.29
pH	6.52
Extractable nutrients (ppm)	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	Rice / CLL18
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date	March 26
Harvest date	August 1
Ratoon Harvest date	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 55. 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	Rice	Rice
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle			
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024	
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon	MC + RC
Trt No.	Treatment Name							
1	5 seed/ft2 (11.6 lb/A)	3.5 f	112.5 a	98.5 a	43.3 a	8277 b	807 b	9084 c
2	10 seed/ft2 (22.3 lb/A)	7.2 e	111.5 ab	97.5 ab	42.5 a	8902 b	1080 ab	9983 bc
3	15 seed/ft2 (34.9 lb/A)	11.2 d	109.8 bc	95.8 bc	43.8 a	10079 a	897 b	10976 ab
4	20 seed/ft2 (46.6 lb/A)	14.9 c	108.8 c	94.8 c	43.5 a	10617 a	900 b	11517 a
5	30 seed/ft2 (69.9 lb/A)	20.2 b	109.5 c	95.5 c	42.8 a	10261 a	995 b	11256 a
6	40 seed/ft2 (93.1 lb/A)	27.1 a	108.5 c	94.5 c	43.0 a	10692 a	1423 a	12115 a
LSD P=.05		2.229	1.89	1.89	2.36	1110.8	356.3	1229.9
Standard Deviation		1.479	1.26	1.26	1.57	737.0	236.4	816.1
CV		10.56	1.14	1.31	3.63	7.52	23.25	7.54
Treatment F		137.277	6.380	6.380	0.357	7.184	3.457	7.316
Treatment Prob(F)		0.0001	0.0023	0.0023	0.8700	0.0013	0.0282	0.0012

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for CLHA03 in a Stale Seedbed Tillage System

Experiment number	24-CM-34 Seeding Rate
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.....	1.29
pH.....	6.52
Extractable nutrients (ppm).....	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	Rice / CLHA03
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date.....	March 26
Harvest date	August 1
Ratoon Harvest date.....	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides.....	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides.....	15 oz/A Amistar Top, June 26

Table 56. Evaluation of seeding rate and plant population in a stale seedbed for CLHA03. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle		
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon
Trt	Treatment						
No.	Name						
1	5 seed/ft2 (11.6 lb/A)	4.3 f	106.0 a	92.0 a	36.5 a	7399 c	3211 a
2	10 seed/ft2 (22.3 lb/A)	6.5 e	105.8 ab	91.8 ab	37.8 a	8654 bc	3655 a
3	15 seed/ft2 (34.9 lb/A)	10.8 d	105.3 abc	91.3 abc	37.5 a	9124 ab	3624 a
4	20 seed/ft2 (46.6 lb/A)	14.2 c	104.8 cd	90.8 cd	37.5 a	10007 a	3979 a
5	30 seed/ft2 (69.9 lb/A)	19.1 b	105.0 bcd	91.0 bcd	38.0 a	9189 ab	3484 a
6	40 seed/ft2 (93.1 lb/A)	24.3 a	104.3 d	90.3 d	37.5 a	9866 a	3752 a
LSD P=.05		2.024	0.84	0.84	1.27	1186.4	555.6
Standard Deviation		1.343	0.56	0.56	0.84	776.6	368.6
CV		10.19	0.53	0.61	2.25	8.63	10.19
Treatment F		128.185	5.357	5.357	1.471	5.911	1.962
Treatment Prob(F)		0.0001	0.0051	0.0051	0.2571	0.0046	0.1433

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for PVL04 in a Stale Seedbed Tillage System

Experiment number : 24-CM-35 Seeding Rate

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..... : 1.29

pH..... : 6.52

Extractable nutrients (ppm)..... : Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2

Crop/Variety : Rice / PVL04

Planting method/date : Drill seeded / March 12

Seeding rate/depth : See Trt. Name / 1.5 inch

Emergence date..... : March 26

Harvest date : August 1

Ratoon Harvest date..... : October 29

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 13

150 lb N/A 46-0-0, May 13

90 lb N/A 46-0-0, August 7

Water management : Underground irrigation

Flush : By Rainfall

Flood : May 14

Drain : July 18

Ratoon flood : August 8

Ratoon drain : October 16

Pest management

Herbicides..... : 1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28

1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21

1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A

Surfactant, March 14

4 qt/A Propanil + 1.5 oz/A Gambit, May 9

Insecticides : None

Fungicides..... : 15 oz/A Amistar Top, June 26

Table 57. Evaluation of seeding rate and plant population in a stale seedbed for PVL04. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle		
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon
Trt	Treatment						
No.	Name						
1	5 seed/ft2 (11.6 lb/A)	1.8 e	113.5 a	99.5 a	42.3 a	5215 d	1792 a
2	10 seed/ft2 (22.3 lb/A)	3.2 de	113.0 ab	99.0 ab	41.3 a	6897 c	2344 a
3	15 seed/ft2 (34.9 lb/A)	4.8 d	111.8 bc	97.8 bc	41.0 a	8228 b	2242 a
4	20 seed/ft2 (46.6 lb/A)	8.1 c	110.8 cd	96.8 cd	41.3 a	8808 ab	2456 a
5	30 seed/ft2 (69.9 lb/A)	10.7 b	110.8 cd	96.8 cd	42.3 a	8544 ab	2327 a
6	40 seed/ft2 (93.1 lb/A)	15.6 a	109.5 d	95.5 d	42.3 a	9306 a	2792 a
LSD P=.05		2.594	1.75	1.75	3.02	1042.7	478.9
Standard Deviation		1.721	1.16	1.16	2.00	670.0	313.5
CV		23.36	1.04	1.19	4.81	8.11	13.14
Treatment F		36.041	6.814	6.814	0.359	13.246	2.825
Treatment Prob(F)		0.0001	0.0017	0.0017	0.8687	0.0002	0.0610

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

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

Experiment number	24-CM-36 Seeding Rate
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	1.29
pH	6.52
Extractable nutrients (ppm)	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	Rice / Taurus
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date	March 26
Harvest date	August 1
Ratoon Harvest date	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 58. 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	Rice
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle		
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon
Trt	Treatment						
No.	Name						
1	5 seed/ft2 (11.6 lb/A)	3.4 f	106.3 a	92.3 a	33.8 a	8815 c	2062 c
2	10 seed/ft2 (22.3 lb/A)	6.0 e	105.8 b	91.8 b	34.8 a	9568 bc	2410 bc
3	15 seed/ft2 (34.9 lb/A)	9.6 d	105.3 c	91.3 c	35.3 a	11378 a	3208 a
4	20 seed/ft2 (46.6 lb/A)	12.9 c	105.3 c	91.3 c	36.0 a	10758 ab	2782 ab
5	30 seed/ft2 (69.9 lb/A)	19.4 b	105.3 c	91.3 c	34.8 a	10849 ab	2680 ab
6	40 seed/ft2 (93.1 lb/A)	23.9 a	105.3 c	91.3 c	34.8 a	10962 a	2993 a
LSD P=.05		1.318	0.36	0.36	2.11	1321.7	561.7
Standard Deviation		0.874	0.24	0.24	1.40	838.9	364.6
CV		6.98	0.22	0.26	4.01	8.05	13.3
Treatment F		325.907	12.600	12.600	1.114	4.186	4.027
Treatment Prob(F)		0.0001	0.0001	0.0001	0.3943	0.0259	0.0223
Treatment Prob(F)		0.0001	0.0001	0.0001	0.3943	0.0259	0.0223

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

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

Experiment number	24-CM-37 Seeding Rate
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	1.29
pH	6.52
Extractable nutrients (ppm)	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	Rice / Addi Jo
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date	March 26
Harvest date	August 1
Ratoon Harvest date	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 59. 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	Rice
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle		
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon
Trt	Treatment						
No.	Name						
1	5 seed/ft2 (11.6 lb/A)	3.1 e	114.3 a	100.3 a	40.3 a	7605 b	4063 a
2	10 seed/ft2 (22.3 lb/A)	6.9 d	113.3 ab	99.3 ab	40.5 a	7760 b	4238 a
3	15 seed/ft2 (34.9 lb/A)	10.8 c	112.5 bc	98.5 bc	39.5 a	8593 ab	3845 a
4	20 seed/ft2 (46.6 lb/A)	12.4 c	112.0 cd	98.0 cd	40.3 a	9049 a	4306 a
5	30 seed/ft2 (69.9 lb/A)	18.9 b	112.3 bcd	98.3 bcd	40.8 a	9024 a	3964 a
6	40 seed/ft2 (93.1 lb/A)	26.3 a	111.3 d	97.3 d	40.3 a	8856 a	4188 a
LSD P=.05		2.790	1.18	1.18	2.00	837.7	481.5
Standard Deviation		1.851	0.78	0.78	1.33	538.3	319.5
CV		14.19	0.69	0.79	3.3	6.25	7.79
Treatment F		81.653	7.145	7.145	0.396	3.823	1.210
Treatment Prob(F)		0.0001	0.0013	0.0013	0.8438	0.0298	0.3515

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

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

Experiment number	24-CM-38 Seeding Rate
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	1.29
pH	6.52
Extractable nutrients (ppm)	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	Rice / Fitzgerald
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date	March 26
Harvest date	August 1
Ratoon Harvest date	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 60. Evaluation of seeding rate and plant population in a stale seedbed for Fitzgerald. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle		
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon
Trt	Treatment						
No.	Name						
1	5 seed/ft2 (11.6 lb/A)	2.7 e	106.5 a	92.5 a	36.0 a	4939 d	3268 b
2	10 seed/ft2 (22.3 lb/A)	6.0 d	106.3 ab	92.3 ab	37.3 a	7265 c	4075 a
3	15 seed/ft2 (34.9 lb/A)	8.6 c	105.5 b	91.5 b	37.0 a	8060 bc	3915 ab
4	20 seed/ft2 (46.6 lb/A)	12.2 b	104.5 c	90.5 c	37.8 a	8636 ab	4464 a
5	30 seed/ft2 (69.9 lb/A)	14.0 b	104.5 c	90.5 c	37.0 a	9021 ab	4063 a
6	40 seed/ft2 (93.1 lb/A)	21.2 a	103.8 c	89.8 c	36.8 a	9487 a	4444 a
LSD P=.05		2.158	0.99	0.99	1.51	1047.8	682.8
Standard Deviation		1.432	0.66	0.66	1.00	695.2	453.0
CV		13.3	0.63	0.72	2.72	8.8	11.22
Treatment F		84.085	11.000	11.000	1.331	22.363	3.728
Treatment Prob(F)		0.0001	0.0001	0.0001	0.3042	0.0001	0.0216

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for 211L1008 in a Stale Seedbed Tillage System

Experiment number	24-CM-39 Seeding Rate
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.....	1.29
pH.....	6.52
Extractable nutrients (ppm).....	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	Rice / 211L1008
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date.....	March 26
Harvest date	August 1
Ratoon Harvest date.....	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides.....	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides.....	15 oz/A Amistar Top, June 26

Table 61. Evaluation of seeding rate and plant population in a stale seedbed for 211L1008. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice	Rice
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle			
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024	
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon	MC + RC
Trt No.	Treatment Name							
1	5 seed/ft2 (11.6 lb/A)	2.9 e	105.3 a	91.3 a	38.5 a	7375 c	3208 a	10583 c
2	10 seed/ft2 (22.3 lb/A)	6.2 d	103.8 ab	89.8 ab	38.3 a	8466 b	3757 a	12223 b
3	15 seed/ft2 (34.9 lb/A)	9.3 c	104.5 a	90.5 a	39.8 a	10041 a	3837 a	13878 a
4	20 seed/ft2 (46.6 lb/A)	12.0 b	100.8 c	86.8 c	39.8 a	10164 a	4088 a	14252 a
5	30 seed/ft2 (69.9 lb/A)	17.4 a	101.0 bc	87.0 bc	38.8 a	10448 a	3650 a	14099 a
6	40 seed/ft2 (93.1 lb/A)	19.5 a	99.8 c	85.8 c	38.5 a	10734 a	4336 a	15070 a
LSD P=.05		2.359	3.00	3.00	1.32	1059.1	770.4	1352.8
Standard Deviation		1.565	1.99	1.99	0.88	702.7	511.2	897.6
CV		13.96	1.94	2.25	2.25	7.37	13.41	6.72
Treatment F		67.038	5.258	5.258	2.304	14.149	2.282	13.445
Treatment Prob(F)		0.0001	0.0055	0.0055	0.0965	0.0001	0.0989	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for 201L125 in a Stale Seedbed Tillage System

Experiment number	24-CM-40 Seeding Rate
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.....	1.29
pH.....	6.52
Extractable nutrients (ppm).....	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	Rice / 201L1251
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date.....	March 26
Harvest date	August 1
Ratoon Harvest date.....	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides.....	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides.....	15 oz/A Amistar Top, June 26

Table 62. Evaluation of seeding rate and plant population in a stale seedbed for 201L1251. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice	Rice
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle			
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024	
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon	MC + RC
Trt No.	Treatment Name							
1	5 seed/ft2 (11.6 lb/A)	2.0 e	113.3 a	99.3 a	36.0 c	4979 c	2948 c	7928 d
2	10 seed/ft2 (22.3 lb/A)	4.7 d	111.5 b	97.5 b	38.0 bc	8126 b	3651 bc	11777 bc
3	15 seed/ft2 (34.9 lb/A)	6.0 d	111.8 b	97.8 b	38.5 b	8056 b	3310 bc	11366 c
4	20 seed/ft2 (46.6 lb/A)	9.2 c	109.8 c	95.8 c	38.0 bc	8885 ab	4025 ab	12910 b
5	30 seed/ft2 (69.9 lb/A)	14.1 b	109.3 c	95.3 c	38.3 b	9025 ab	3890 ab	12916 b
6	40 seed/ft2 (93.1 lb/A)	16.8 a	109.0 c	95.0 c	40.8 a	9940 a	4614 a	14554 a
LSD P=.05		1.907	1.13	1.13	2.19	1130.3	905.7	1388.8
Standard Deviation		1.266	0.75	0.75	1.45	750.0	601.0	921.5
CV		14.41	0.68	0.78	3.8	9.18	16.07	7.74
Treatment F		81.321	19.941	19.941	4.358	20.724	3.738	23.718
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0119	0.0001	0.0213	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for RU1902034 CL in a Stale Seedbed Tillage System

Experiment number	24-CM-41 Seeding Rate
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	
% Organic matter	1.29
pH	6.52
Extractable nutrients (ppm)	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date	March 26
Harvest date	August 1
Ratoon Harvest date	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 63. Evaluation of seeding rate and plant population in a stale seedbed for RU1902034 CL. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice	Rice
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle			
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024	
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon	MC + RC
Trt No.	Treatment Name							
1	5 seed/ft2 (11.6 lb/A)	2.7 f	104.5 a	90.5 a	36.3 ab	7407 e	3119 a	10526 e
2	10 seed/ft2 (22.3 lb/A)	5.0 e	103.3 ab	89.3 ab	34.8 b	8701 d	3722 a	12423 d
3	15 seed/ft2 (34.9 lb/A)	7.3 d	102.0 bc	88.0 bc	36.0 ab	9350 c	3576 a	12926 cd
4	20 seed/ft2 (46.6 lb/A)	9.9 c	101.5 c	87.5 c	37.5 a	9882 b	4024 a	13906 ab
5	30 seed/ft2 (69.9 lb/A)	14.3 b	101.0 c	87.0 c	37.5 a	9887 b	3631 a	13518 bc
6	40 seed/ft2 (93.1 lb/A)	18.8 a	100.8 c	86.8 c	37.5 a	10663 a	3915 a	14578 a
LSD P=.05		1.849	1.52	1.52	1.81	412.3	589.1	816.3
Standard Deviation		1.227	1.01	1.01	1.20	273.6	390.9	541.6
CV		12.7	0.98	1.14	3.29	2.94	10.67	4.17
Treatment F		96.013	8.275	8.275	3.508	69.302	2.628	27.370
Treatment Prob(F)		0.0001	0.0006	0.0006	0.0268	0.0001	0.0672	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for RU2102222 CL in a Stale Seedbed Tillage System

Experiment number	24-CM-42 Seeding Rate
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	
% Organic matter	1.29
pH	6.52
Extractable nutrients (ppm)	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date	March 26
Harvest date	August 1
Ratoon Harvest date	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 64. Evaluation of seeding rate and plant population in a stale seedbed for RU2102222 CL. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice	Rice
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle			
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024	
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon	MC + RC
Trt	Treatment							
No.	Name							
1	5 seed/ft2 (11.6 lb/A)	3.0 e	111.0 a	97.0 a	34.3 a	7388 d	3145 a	10533 d
2	10 seed/ft2 (22.3 lb/A)	4.9 de	109.3 b	95.3 b	36.0 a	8614 cd	3701 a	12315 c
3	15 seed/ft2 (34.9 lb/A)	7.1 d	107.8 c	93.8 c	35.3 a	8998 bc	3427 a	12425 bc
4	20 seed/ft2 (46.6 lb/A)	11.1 c	107.3 cd	93.3 cd	35.5 a	10064 ab	3668 a	13731 ab
5	30 seed/ft2 (69.9 lb/A)	16.5 b	107.0 cd	93.0 cd	35.3 a	9740 abc	3608 a	13348 abc
6	40 seed/ft2 (93.1 lb/A)	18.9 a	106.3 d	92.3 d	35.5 a	10628 a	3776 a	14405 a
LSD P=.05		2.267	1.02	1.02	1.48	1289.2	552.8	1335.8
Standard Deviation		1.504	0.67	0.67	0.98	855.4	366.8	886.3
CV		14.65	0.62	0.72	2.78	9.26	10.32	6.93
Treatment F		73.250	26.707	26.707	1.392	7.365	1.608	9.430
Treatment Prob(F)		0.0001	0.0001	0.0001	0.2826	0.0011	0.2181	0.0003

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for RU2102070 in a Stale Seedbed Tillage System

Experiment number	24-CM-43 Seeding Rate
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.....	1.29
pH.....	6.52
Extractable nutrients (ppm).....	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	Rice / RU2102070 Med
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date.....	March 26
Harvest date	August 1
Ratoon Harvest date.....	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides.....	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides.....	15 oz/A Amistar Top, June 26

Table 65. Evaluation of seeding rate and plant population in a stale seedbed for RU2102070. H. Rouse Caffey Rice Research Station.

Crop Name	Rice	Rice	Rice	Rice	Rice	Rice	Rice
Description	Rice Density	Plant - HD	Emer - HD	Tip of Panicle			
Rating Date	4/15/2024			7/30/2024	8/1/2024	10/29/2024	
Rating Type	Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit	#/sq ft.	days	days	In	lb/A	lb/A	lb/A
Crop Stage	Main	Main	Main	Main	Main	Ratoon	MC + RC
Trt	Treatment						
No.	Name						
1	15 Seeds/ft2 (34.9 lb/A)	7.3 c	105.5 a	91.5 a	36.3 b	9251 a	3008 a
2	25 Seeds/ft2 (58.2 lb/A)	12.2 b	104.5 b	90.5 b	38.8 a	9889 a	3790 a
3	35 Seeds/ft2 (81.5 lb/A)	18.2 a	103.8 c	89.8 c	39.3 a	9941 a	3417 a
LSD P=.05	3.502	0.50	0.50	1.53	745.2	1263.9	1434.3
Standard Deviation	2.024	0.29	0.29	0.88	430.7	730.5	829.0
CV	16.11	0.28	0.32	2.32	4.44	21.45	6.33
Treatment F	29.200	37.000	37.000	13.286	3.182	1.148	3.227
Treatment Prob(F)	0.0008	0.0004	0.0004	0.0063	0.1143	0.3784	0.1118

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for 213L1130 PV in a Stale Seedbed Tillage System

Experiment number	24-CM-44 Seeding Rate
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.....	1.29
pH.....	6.52
Extractable nutrients (ppm).....	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	Rice / 213L1130 PV
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date.....	March 26
Harvest date	August 1
Ratoon Harvest date.....	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides.....	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides.....	15 oz/A Amistar Top, June 26

Table 66. Evaluation of seeding rate and plant population in a stale seedbed for 213L1130 PV. H. Rouse Caffey Rice Research Station.

Table 66. Evaluation of seedling rate and plant population in a state selected for 215E1156 F.V. H. Rouse Caffey Rice Research Station.								
Crop Name		Rice	Rice	Rice	Rice	Rice	Rice	
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle			
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024	
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon	MC + RC
Trt	Treatment							
No.	Name							
1	15 Seeds/ft2 (34.9 lb/A)	7.7 b	102.5 a	88.5 a	38.5 b	7430 a	2943 a	10374 b
2	25 Seeds/ft2 (58.2 lb/A)	16.1 a	101.5 a	87.5 a	41.8 a	8623 a	3721 a	12344 a
3	35 Seeds/ft2 (81.5 lb/A)	18.6 a	100.8 a	86.8 a	40.5 ab	8966 a	3404 a	12371 a
LSD P=.05		3.648	2.50	2.50	2.14	1431.6	1043.8	1381.7
Standard Deviation		2.108	1.44	1.44	1.24	827.4	603.3	798.5
CV		14.95	1.42	1.65	3.07	9.92	17.97	6.83
Treatment F		29.541	1.480	1.480	7.036	3.798	1.682	8.231
Treatment Prob(F)		0.0008	0.3003	0.3003	0.0267	0.0859	0.2631	0.0191

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for 213L1140 PV in a Stale Seedbed Tillage System

Experiment number	24-CM-45 Seeding Rate
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.....	1.29
pH.....	6.52
Extractable nutrients (ppm).....	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	Rice / 213L1140 PV
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date.....	March 26
Harvest date	August 1
Ratoon Harvest date.....	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides.....	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides.....	15 oz/A Amistar Top, June 26

Table 67. Evaluation of seeding rate and plant population in a stale seedbed for 213L1140 PV. H. Rouse Caffey Rice Research Station.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice	Rice
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle			
Rating Date		4/15/2024			7/30/2024	8/1/2024	10/29/2024	
Rating Type		Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit		#/sq ft.	days	days	In	lb/A	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Main	Ratoon	MC + RC
Trt	Treatment							
No.	Name							
1	15 Seeds/ft ² (34.9 lb/A)	8.3 c	108.5 a	94.5 a	38.8 a	9229 c	2472 a	11776 b
2	25 Seeds/ft ² (58.2 lb/A)	12.4 b	107.3 b	93.3 b	36.5 a	10147 b	2570 a	12717 a
3	35 Seeds/ft ² (81.5 lb/A)	16.3 a	106.3 c	92.3 c	37.0 a	10743 a	2245 a	12988 a
LSD P=.05		3.376	0.96	0.96	2.66	350.9	481.1	612.1
Standard Deviation		1.951	0.55	0.55	1.54	202.8	264.7	336.7
CV		15.86	0.52	0.59	4.11	2.02	11.07	2.68
Treatment F		16.919	16.636	16.636	2.365	56.561	1.567	12.143
Treatment Prob(F)		0.0034	0.0036	0.0036	0.1749	0.0001	0.2963	0.0120

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Determination of Optimum Plant Population and Seeding Rate for 213L1041 PV in a Stale Seedbed Tillage System

Experiment number	24-CM-46 Seeding Rate
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.....	1.29
pH.....	6.52
Extractable nutrients (ppm).....	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	Rice / 213L1041 PV
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date.....	March 26
Harvest date	August 1
Ratoon Harvest date.....	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides.....	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides.....	15 oz/A Amistar Top, June 26

Table 68. Evaluation of seeding rate and plant population in a stale seedbed for 213L1041 PV. H. Rouse Caffey Rice Research Station.

Crop Name	Rice	Rice	Rice	Rice	Rice	Rice	Rice
Description	Rice Density	Plant - HD	Emer - HD	Tip of Panicle			
Rating Date	4/15/2024			7/30/2024	8/1/2024	10/29/2024	
Rating Type	Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit	#/sq ft.	days	days	In	lb/A	lb/A	lb/A
Crop Stage	Main	Main	Main	Main	Main	Ratoon	MC + RC
Trt	Treatment						
No.	Name						
1	15 Seeds/ft2 (34.9 lb/A)	10.3 c	101.3 a	87.3 a	41.3 a	8484 a	3053 a
2	25 Seeds/ft2 (58.2 lb/A)	16.5 b	100.5 a	86.5 a	43.0 a	8936 a	3588 a
3	35 Seeds/ft2 (81.5 lb/A)	22.3 a	100.5 a	86.5 a	42.0 a	9214 a	3510 a
LSD P=.05	2.378	1.50	1.50	4.46	712.2	936.0	1087.5
Standard Deviation	1.375	0.87	0.87	2.58	411.6	541.0	628.5
CV	8.39	0.86	1.0	6.12	4.64	15.99	5.13
Treatment F	76.240	1.000	1.000	0.464	3.211	1.140	4.092
Treatment Prob(F)	0.0001	0.4219	0.4219	0.6493	0.1127	0.3805	0.0757

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

**Determination of Optimum Plant Population and Seeding Rate System for 212M1144 CL in a Stale Seedbed
Tillage**

Experiment number	24-CM-47 Seeding Rate
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	
% Organic matter	1.29
pH	6.52
Extractable nutrients (ppm)	Ca-1349; Cu-1.5; Mg-265; P-16.0; K-61.7; Na-117; S-6.5; Zn-8.2
Crop/Variety	
Planting method/date	Drill seeded / March 12
Seeding rate/depth	See Trt. Name / 1.5 inch
Emergence date	March 26
Harvest date	August 1
Ratoon Harvest date	October 29
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 13
	150 lb N/A 46-0-0, May 13
	90 lb N/A 46-0-0, August 7
Water management	
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 8
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 69. Evaluation of seeding rate and plant population in a stale seedbed for 212M1144 CL. H. Rouse Caffey Rice Research Station.

Crop Name	Rice	Rice	Rice	Rice	Rice	Rice	Rice
Description	Rice Density	Plant - HD	Emer - HD	Tip of Panicle			
Rating Date	4/15/2024			7/30/2024	8/1/2024	10/29/2024	
Rating Type	Stand Count	50% HD	50% HD	Height	Yield	Yield	Total Yield
Rating Unit	#/sq ft.	days	days	In	lb/A	lb/A	lb/A
Crop Stage	Main	Main	Main	Main	Main	Ratoon	MC + RC
Trt	Treatment						
No.	Name						
1	15 Seeds/ft2 (34.9 lb/A)	7.6 c	109.3 a	95.3 a	41.3 a	10331 a	3350 a
2	25 Seeds/ft2 (58.2 lb/A)	13.4 b	109.0 a	95.0 a	42.3 a	10556 a	3553 a
3	35 Seeds/ft2 (81.5 lb/A)	16.8 a	108.5 a	94.5 a	42.0 a	10546 a	3309 a
LSD P=.05	1.784	0.64	0.64	3.73	668.2	744.6	1340.5
Standard Deviation	1.031	0.37	0.37	2.15	386.2	430.3	774.8
CV	8.18	0.34	0.39	5.15	3.69	12.64	5.58
Treatment F	82.016	4.200	4.200	0.234	0.433	0.368	0.307
Treatment Prob(F)	0.0001	0.0723	0.0723	0.7986	0.6676	0.7066	0.7463

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded CLL19 to Nitrogen Fertilizer Rate and Time, When P and K Were Applied at Planting

Experiment number	24-CM-71
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	1.20
pH	7.18
Extractable nutrients (ppm)	Ca-1614; Cu-1.4; Mg-252; P-20.5; K-55; Na-125; S-6.3; Zn-8.4
Crop/Variety	Rice / CLL19
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 26
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 0-24-24-2.8, March 13
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 70. Agronomic response of drill-seeded CLL19 to nitrogen fertilizer rate and time of application, when P and K were applied at planting. HRC Rice Research Station, 2024.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant - HD	Rice Emer - HD	Rice Tip of Panicle 7/30/2024 Height In Main	Rice 7/30/2024 Moisture % Main	Rice 7/30/2024 Yield lb/A Main
Trt No.	Urea (lb N/A)	Growth Stage					
1	0	4-5 leaf	96.0 b	83.0 b	28.5 c	12.50 d	6354 f
2	45	4-5 leaf	97.0 b	84.0 b	30.3 bc	13.90 c	8275 e
3	90	4-5 leaf	101.0 a	88.0 a	32.3 ab	15.28 ab	9228 d
4	120	4-5 leaf	100.3 a	87.3 a	31.3 b	14.30 bc	10700 ab
5	150	4-5 leaf	101.3 a	88.3 a	32.3 ab	15.68 a	10283 bc
6	180	4-5 leaf	102.8 a	89.8 a	31.5 ab	15.15 ab	11484 a
7	75	4-5 leaf	102.8 a	89.8 a	31.5 ab	14.78 abc	9457 cd
	45	Green ring					
8	105	4-5 leaf	102.5 a	89.5 a	32.0 ab	15.08 ab	9792 bcd
	45	Green ring					
9	135	4-5 leaf	101.3 a	88.3 a	33.5 a	15.60 a	9567 cd
	45	Green ring					
LSD P=.05			3.09	3.09	2.10	1.128	842.8
Standard Deviation			2.12	2.12	1.44	0.765	571.4
CV			2.11	2.42	4.59	5.24	6.1
Treatment F			5.351	5.351	3.842	6.360	24.986
Treatment Prob(F)			0.0006	0.0006	0.0049	0.0004	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Agronomic Response of Drill-Seeded CLL19 to Nitrogen Fertilizer Rate and Time, When No P and K Were Applied at Planting

Experiment number	24-CM-72
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	1.20
pH	7.18
Extractable nutrients (ppm)	Ca-1614; Cu-1.4; Mg-252; P-20.5; K-55; Na-125; S-6.3; Zn-8.4
Crop/Variety	Rice / CLL19
Planting method/date	Drill seeded / March 13
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 26
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	None
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 71. Agronomic response of drill-seeded CLL19 to nitrogen fertilizer rate and time of application, when no P and K were applied at planting. HRC Rice Research Station, 2024.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant - HD	Rice Emer - HD	Rice Tip of Panicle 7/30/2024 Height In Main	Rice 7/30/2024 Moisture % Main	Rice 7/30/2024 Yield lb/A Main
Trt No.	Urea (lb N/A)	Growth Stage					
1	0	4-5 leaf	100.8 c	87.8 c	28.0 c	13.95 c	3011 d
2	45	4-5 leaf	103.3 b	90.3 b	30.5 b	14.45 c	5834 c
3	90	4-5 leaf	105.5 ab	92.5 ab	31.8 ab	16.44 ab	8567 ab
4	120	4-5 leaf	105.5 ab	92.5 ab	31.3 ab	15.84 b	9575 a
5	150	4-5 leaf	106.3 a	93.3 a	31.8 ab	16.65 ab	9603 a
6	180	4-5 leaf	107.5 a	94.5 a	30.8 b	16.60 ab	9696 a
7	75	4-5 leaf	107.3 a	94.3 a	32.5 ab	15.94 ab	7936 b
	45	Green ring					
8	105	4-5 leaf	107.5 a	94.5 a	32.5 ab	16.24 ab	8995 a
	45	Green ring					
9	135	4-5 leaf	106.0 a	93.0 a	33.3 a	16.93 a	9426 a
	45	Green ring					
LSD P=.05			2.45	2.45	2.30	1.002	853.7
Standard Deviation			1.68	1.68	1.58	0.672	569.5
CV			1.59	1.82	5.02	4.25	7.21
Treatment F			6.993	6.993	3.806	9.110	60.554
Treatment Prob(F)			0.0001	0.0001	0.0052	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Evaluation of Phosphorus Rate on Grain Yield and Milling Quality of CLL17

Experiment number	24-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	1.20
pH	7.18
Extractable nutrients (ppm)	Ca-1614; Cu-1.4; Mg-252; P-20.5; K-55; Na-125; S-6.3; Zn-8.4
Crop/Variety	Rice / CLL17
Planting method/date	Drill seeded / March 13
Seeding rate/depth	33 seed/ft ² / 1.5 inch
Emergence date	March 26
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	120 lb N/A 46-0-0, May 15
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 72. Evaluation of phosphorus application rate on grain yield and milling quality of CLL17. HRC Rice Research Station, 2024.

Crop Name			Rice	Rice	Rice	Rice	Rice	Rice
Description			Plant - HD	Emer - HD	Tip of Panicle			
Rating Date					7/30/2024	7/30/2024	7/30/2024	
Rating Type			50% HD	50% HD	Height	Moisture	Yield	
Rating Unit			days	days	In	%	lb/A	%
Crop Stage			Main	Main	Main	Main	Main	Main
Trt No.	P Rate (P205/A)	Growth Stage						
1	0	At planting	109.5 a	95.5 a	38.3 a	17.53 a	8827 b	65.72 c
2	30	At planting	107.8 b	93.8 b	36.5 a	16.76 a	9308 b	67.42 a
3	60	At planting	107.3 b	93.3 b	37.5 a	16.40 a	9663 b	66.89 ab
4	90	At planting	107.0 b	93.0 b	37.8 a	16.63 a	9879 b	66.93 ab
5	120	At planting	107.0 b	93.0 b	39.8 a	16.75 a	11029 a	66.54 b
LSD P=.05			0.88	0.88	2.42	0.730	1099.4	0.781
Standard Deviation			0.57	0.57	1.57	0.469	706.4	0.507
CV			0.53	0.61	4.15	2.79	7.24	0.76
Treatment F			13.615	13.615	2.293	3.255	5.374	6.220
Treatment Prob(F)			0.0002	0.0002	0.1193	0.0542	0.0120	0.0060

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Evaluation of Phosphorus Timing on Grain Yield and Milling Quality of CLL17

Experiment number	24-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	1.20
pH	7.18
Extractable nutrients (ppm)	Ca-1614; Cu-1.4; Mg-252; P-20.5; K-55; Na-125; S-6.3; Zn-8.4
Crop/Variety	Rice / CLL17
Planting method/date	Drill seeded / March 13
Seeding rate/depth	33 seed/ft ² / 1.5 inch
Emergence date	March 26
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	120 lb N/A 46-0-0, May 15
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 16
Drain	July 18
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 73. Evaluation of phosphorus application timing on grain yield and milling quality of CLL17. HRC Rice Research Station, 2024.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant - HD	Rice Emer - HD	Rice Tip of Panicle 7/30/2024 Height In Main	Rice 7/30/2024 Moisture % Main	Rice 7/30/2024 Yield lb/A Main	Rice Milling Head % Main	Rice Milling Total % Main
Trt No.	P Rate (P205/A)	Growth Stage							
1	No P	-	110.0 ab	96.0 ab	37.5 a	17.15 a	9360 bc	66.67 a	71.05 a
2	120	At Planting	107.3 d	93.3 d	37.0 a	16.58 a	10476 a	67.59 a	71.64 a
3	120	Preflood	109.3 bc	95.3 bc	35.8 a	16.37 a	8723 c	67.13 a	71.28 a
4	120	Mid-tillering	110.3 ab	96.3 ab	36.3 a	17.48 a	9310 bc	66.92 a	71.32 a
5	120	Green ring	110.3 ab	96.3 ab	37.0 a	17.71 a	8963 bc	66.58 a	71.11 a
6	120	50% Heading	110.5 a	96.5 a	36.0 a	16.97 a	9789 ab	67.29 a	71.34 a
7	60	At Planting	107.3 d	93.3 d	38.8 a	16.78 a	10331 a	66.89 a	71.41 a
	60	Preflood							
8	60	At Planting	108.3 cd	94.3 cd	35.5 a	16.38 a	9728 ab	67.26 a	71.33 a
	60	Green ring							
9	60	At Planting	107.5 d	93.5 d	36.3 a	17.08 a	9733 ab	66.96 a	71.19 a
	60	50% Heading							
LSD P=.05			1.09	1.09	2.27	1.054	796.5	0.782	0.425
Standard Deviation			0.75	0.75	1.56	0.712	538.1	0.533	0.290
CV			0.69	0.79	4.24	4.21	5.56	0.8	0.41
Treatment F			13.642	13.642	1.704	1.453	3.889	1.329	1.459
Treatment Prob(F)			0.0001	0.0001	0.1490	0.2387	0.0072	0.2811	0.2283

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Determine the Agronomic Response of Drill Seeded CLL19 to Nitrogen Fertilizer Rate in Furrow Irrigated Rice

Experiment number	24-CS-07
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (South Unit)
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	
% Organic matter.....	1.73
pH.....	4.79
Extractable nutrients (ppm).....	Ca-1,267; Cu-1.51; Mg-244; P-12; K-79; Na-55; S-9.6; Zn-1.1
Crop/Variety	
Planting method/date	Drill seeded / April 15
Seeding rate/depth	33 seeds /ft ² / 1 inch
Emergence date.....	April 23
Harvest date	August 12
Ratoon Harvest date.....	NA
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	250 lb/A 0-24-24-2.8, April 18
Water management	
First Water	May 23
Irrigation	June 13, July 3
Drain	NA
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides.....	1 qt/A Glyphosate + 4 oz/A Command + 2 oz/A Sharpen + 4.8 oz/A Surfactant, April 17
	4 qt/A Propanil + 1.5 oz/A Gambit, May 11
Insecticides	7.5 oz/A Tencu, July 25
Fungicides.....	15 oz/A Amistar Top, July 9

Table 74. Determine the agronomic response of drill seeded CLL19 to nitrogen fertilizer rate in furrow irrigated rice. HRC Rice Research Station, 2024.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/12/2024 Height In Main	Rice 8/12/2024 Lodge % plot Main	Rice 8/12/2024 Lodge rate Main	Rice 8/12/2024 Moist % Main	Rice 8/12/2024 Yield lb/A Main
Trt No.	Urea (lb N/A)	Growth Stage							
1	No N	4-5 leaf	81.5 d	73.5 d	31.3 d	0.0 b	0.0 c	13.80 a	4736 a
2	N 90	4-5 leaf	83.8 c	75.8 c	34.8 c	0.0 b	0.0 c	12.35 a	6200 a
3	N 120	4-5 leaf	85.5 ab	77.5 ab	36.8 ab	50.0 a	0.8 bc	12.68 a	5723 a
4	N 150	4-5 leaf	85.3 b	77.3 b	36.3 bc	75.0 a	0.8 bc	11.93 a	5583 a
5	N 180	4-5 leaf	86.5 a	78.5 a	38.0 ab	75.0 a	1.0 ab	12.43 a	4989 a
6	N 210	4-5 leaf	86.0 ab	78.0 ab	38.3 a	90.0 a	1.8 a	12.58 a	5004 a
LSD P=.05			1.08	1.08	1.77	44.93	0.85	1.138	1244.1
Standard Deviation			0.71	0.71	1.17	29.81	0.57	0.755	825.5
CV			0.84	0.93	3.27	61.68	79.79	5.98	15.36
Treatment F			26.609	26.609	19.618	7.050	5.452	2.796	1.807
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0014	0.0047	0.0560	0.1720

Means followed by same letter or symbol do not significantly differ (P = 0.05, LSD).

Determine the Agronomic Response of Drill Seeded RT7421 FP to Nitrogen Fertilizer Rate in Furrow Irrigated Rice

Experiment number	24-CS-11
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (South Unit)
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	
% Organic matter	1.73
pH	4.79
Extractable nutrients (ppm)	Ca-1,267; Cu-1.51; Mg-244; P-12; K-79; Na-55; S-9.6; Zn-1.1
Crop/Variety	
Planting method/date	Drill seeded / April 15
Seeding rate/depth	10 seeds /ft ² / 1 inch
Emergence date	April 23
Harvest date	August 12
Ratoon Harvest date	NA
Seed treatment/cwt	
	Hybrids:
	Apron (fungicide)
	Dynasty (fungicide)
	Fludioxonil (fungicide)(Maxim)
	Gibberellic Acid
	Sedaxane (fungicide)
	Thiamethoxam (insecticide)
	Zinc
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor – 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, April 18
Water management	
First Water	May 23
Irrigation	June 13, July 3
Drain	NA
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 4 oz/A Command + 2 oz/A Sharpen + 4.8 oz/A Surfactant, April 17
	4 qt/A Propanil + 1.5 oz/A Gambit, May 11
Insecticides	7.5 oz/A Tenchu, July 25
Fungicides	15 oz/A Amistar Top, July 9

Table 75. Determine the agronomic response of drill seeded RT7421 FP to nitrogen fertilizer rate in furrow irrigated rice. HRC Rice Research Station, 2024.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/12/2024 Height In Main	Rice 8/12/2024 Lodge % plot Main	Rice 8/12/2024 Lodge rate Main	Rice 8/12/2024 Moist % Main	Rice 8/12/2024 Yield lb/A Main
Trt No.	Urea (lb N/A)	Growth Stage							
1	No N	4-5 leaf	87.8 d	79.8 d	48.5 b	90.0 -	4.0 a	14.03 a	4659 a
2	N 90	4-5 leaf	92.3 c	84.3 c	48.8 b	90.0 -	3.8 a	13.98 a	4098 a
3	N 120	4-5 leaf	94.0 b	86.0 b	50.3 ab	90.0 -	3.5 a	13.75 a	3684 a
4	N 150	4-5 leaf	95.3 b	87.3 b	52.0 a	90.0 -	3.0 a	13.73 a	3581 a
5	N 180	4-5 leaf	96.8 a	88.8 a	49.3 b	90.0 -	3.8 a	15.18 a	3518 a
6	N 210	4-5 leaf	96.8 a	88.8 a	50.5 ab	90.0 -	3.5 a	14.28 a	3576 a
LSD P=.05			1.49	1.49	2.12	NA	0.84	2.076	1012.3
Standard Deviation			0.99	0.99	1.41	0.00	0.56	1.378	671.6
CV			1.05	1.15	2.83	0.0	15.57	9.73	17.43
Treatment F			48.043	48.043	3.462	NA	1.500	0.613	1.774
Treatment Prob(F)			0.0001	0.0001	0.0280	NA	0.2482	0.6921	0.1789

NA = unable to perform mean comparison.

Means followed by same letter or symbol do not significantly differ (P = 0.05, LSD).

Determine the Agronomic Response of Drill Seeded CLL18 to Nitrogen Fertilizer Rate in Furrow Irrigated Rice – Top Slope

Experiment number	24-CS-15
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (South Unit)
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	
% Organic matter	1.73
pH	4.79
Extractable nutrients (ppm)	Ca-1,267; Cu-1.51; Mg-244; P-12; K-79; Na-55; S-9.6; Zn-1.1
Crop/Variety	
Planting method/date	Drill seeded / April 15
Seeding rate/depth	33 seeds /ft ² / 1 inch
Emergence date	April 23
Harvest date	August 12
Ratoon Harvest date	NA
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, April 18
Water management	
First Water	May 23
Irrigation	June 13, July 3
Drain	NA
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 4 oz/A Command + 2 oz/A Sharpen + 4.8 oz/A Surfactant, April 17
	4 qt/A Propanil + 1.5 oz/A Gambit, May 11
Insecticides	7.5 oz/A Tenchu, July 25
Fungicides	15 oz/A Amistar Top, July 9

Table 76. Determine the agronomic response of drill seeded CLL18 to nitrogen fertilizer rate in furrow irrigated rice – top slope. HRC Rice Research Station, 2024.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/12/2024	Rice 8/12/2024	Rice 8/12/2024	Rice 8/12/2024	Rice 8/12/2024
			50% HD days Main	50% HD days Main	Height In Main	Lodge % plot Main	Lodge rate Main	Moist % Main	Yield lb/A Main
Trt No.	Urea (lb N/A)	Growth Stage							
1	No N	4-5 leaf	87.5 c	79.5 c	40.5 d	0.0 c	0.0 c	14.5 a	5245 a
2	N 90	4-5 leaf	93.3 b	85.3 b	46.3 c	32.5 ab	1.3 ab	12.7 a	3383 b
3	N 120	4-5 leaf	94.3 ab	86.3 ab	47.0 bc	22.5 abc	0.8 bc	13.0 a	3028 bc
4	N 150	4-5 leaf	94.8 a	86.8 a	47.8 abc	42.5 ab	1.3 ab	10.7 a	2920 bc
5	N 180	4-5 leaf	94.8 a	86.8 a	50.0 a	45.0 a	2.0 a	13.4 a	2650 c
6	N 210	4-5 leaf	95.5 a	87.5 a	49.3 ab	20.0 bc	0.5 bc	10.4 a	2611 c
LSD P=.05			1.42	1.42	2.92	24.34	1.04	6.01	624.2
Standard Deviation			0.94	0.94	1.94	16.15	0.69	3.99	414.2
CV			1.01	1.1	4.15	59.63	71.92	32.05	12.53
Treatment F			39.225	39.225	12.153	4.272	4.088	0.656	22.881
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0129	0.0153	0.6616	0.0001

Means followed by same letter or symbol do not significantly differ (P = 0.05, LSD).

**Determine the Agronomic Response of Drill Seeded CLL18 to Nitrogen Fertilizer Rate in Furrow Irrigated
Rice – Bottom Slope**

Experiment number	24-CS-16
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (South Unit)
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	
% Organic matter	1.73
pH	4.79
Extractable nutrients (ppm)	Ca-1,267; Cu-1.51; Mg-244; P-12; K-79; Na-55; S-9.6; Zn-1.1
Crop/Variety	
Planting method/date	Drill seeded / April 15
Seeding rate/depth	33 seeds /ft ² / 1 inch
Emergence date	April 23
Harvest date	August 12
Ratoon Harvest date	NA
Seed treatment/cwt	
	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	
	250 lb/A 0-24-24-2.8, April 18
Water management	
First Water	May 23
Irrigation	June 13, July 3
Drain	NA
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 4 oz/A Command + 2 oz/A Sharpen + 4.8 oz/A Surfactant, April 17
	4 qt/A Propanil + 1.5 oz/A Gambit, May 11
Insecticides	7.5 oz/A Tenu, July 25
Fungicides	15 oz/A Amistar Top, July 9

Table 77. Determine the agronomic response of drill seeded CLL18 to nitrogen fertilizer rate in furrow irrigated rice – bottom slope. HRC Rice Research Station, 2024.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Plant – HD	Rice Emer - HD	Rice Tip of Panicle 8/12/2024	Rice 8/12/2024	Rice 8/12/2024	Rice 8/12/2024	Rice 8/12/2024
			50% HD days Main	50% HD days Main	Height In Main	Lodge % plot Main	Lodge rate Main	Moist % Main	Yield lb/A Main
Trt No.	Urea (lb N/A)	Growth Stage							
1	No N	4-5 leaf	85.0 e	77.0 e	40.3 d	0.0 c	0.0 d	13.8 a	7086 a
2	N 90	4-5 leaf	90.0 d	82.0 d	46.2 c	67.5 ab	1.8 bc	14.1 a	5528 b
3	N 120	4-5 leaf	91.8 cd	83.8 cd	46.9 bc	80.0 a	3.0 a	14.2 a	5052 bc
4	N 150	4-5 leaf	92.3 bc	84.3 bc	47.7 abc	55.0 ab	1.8 bc	14.6 a	5321 b
5	N 180	4-5 leaf	94.3 ab	86.3 ab	50.0 a	67.5 ab	2.0 ab	14.1 a	4476 cd
6	N 210	4-5 leaf	95.0 a	87.0 a	49.1 ab	37.5 b	0.8 cd	14.7 a	4126 d
LSD P=.05			2.12	2.12	2.91	35.19	1.04	1.45	776.8
Standard Deviation			1.41	1.41	1.94	23.35	0.69	0.96	515.4
CV			1.54	1.69	4.38	45.56	44.71	6.77	9.79
Treatment F			26.119	26.119	12.151	6.139	9.140	0.472	16.123
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0027	0.0004	0.7911	0.0001

Means followed by same letter or symbol do not significantly differ (P = 0.05, LSD).

Evaluation of Nitrogen Application Timing in Furrow Irrigated Rice for CLL19

Experiment number : 24-CS-08

Site and design :

Location/Cooperator : H. Rouse Caffey Rice Research Station (South Unit)

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 : Crowley silt loam

% Organic matter : 1.73

pH : 4.79

Extractable nutrients (ppm) : Ca-1,267; Cu-1.51; Mg-244; P-12; K-79; Na-55; S-9.6; Zn-1.1

Crop/Variety : Rice / CLL19

Planting method/date : Drill seeded / April 15

Seeding rate/depth : 33 seeds /ft² / 1 inch

Emergence date : April 23

Harvest date : August 12

Ratoon Harvest date : NA

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

 Apron (fungicide) – 8.88 ml

 Maxim (fungicide) – 0.88 ml

 Release (gibberellic acid) – 10 g

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

 AV-1011 (bird repellent) – 18.3 oz

 Dermacor- 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, April 18

Water management : Underground irrigation

First Water : May 23

Irrigation : June 13, July 3

Drain : NA

Ratoon flood : NA

Ratoon drain : NA

Pest management :

Herbicides : 1 qt/A Glyphosate + 4 oz/A Command + 2 oz/A Sharpen + 4.8 oz/A Surfactant, April 17

 4 qt/A Propanil + 1.5 oz/A Gambit, May 11

Insecticides : 7.5 oz/A Tenchu, July 25

Fungicides : 15 oz/A Amistar Top, July 9

Table 78. Evaluation of nitrogen application rate and timing for CLL19 in furrow irrigated rice. HRC Rice Research Station, 2024.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Emer - HD	Rice Tip of Panicle 8/12/2024	Rice 8/12/2024	Rice 8/12/2024	Rice 8/12/2024
			50% HD days Main	Height In Main	Lodge % plot Main	Lodge rate Main	Yield lb/A Main
Trt No.	Treatment Name	N Rate (lb N/A)					
1	Check	0	74.0 c	31.8 a	0.0 a	0.0 a	4812 c
2	120 lb N/A		76.0 a	36.8 a	25.0 a	0.3 a	6609 a
	One time (4 Leaf)	120					
3	120 lb N/A		75.0 b	35.8 a	0.0 a	0.0 a	6698 a
	2-way split (4 L)	60					
	2-way split (4 L+7 d)	60					
4	120 lb N/A		75.0 b	34.3 a	25.0 a	0.3 a	6372 ab
	2-way split (4 Leaf)	60					
	2-way split (4 L +14 d)	60					
5	120 lb N/A		75.5 ab	35.0 a	0.0 a	0.0 a	6051 ab
	3-way (4 Leaf)	40					
	3-way (4 Leaf+7 d)	40					
	3-way (4 Leaf+14 d)	40					
6	165 lb N/A		76.0 a	35.8 a	0.0 a	0.0 a	5668 b
	One time (4 Leaf)	165					
7	165 lb N/A		75.8 ab	37.3 a	75.0 a	1.0 a	6292 ab
	2-way split (4 Leaf)	82.5					
	2-way split (4 L+7 d)	82.5					
8	165 lb N/A		75.5 ab	36.3 a	50.0 a	0.5 a	6353 ab
	2-way split (4 Leaf)	82.5					
	2-way split (4 L+14 d)	82.5					
9	165 lb N/A		75.8 ab	35.5 a	25.0 a	0.3 a	6540 a
	3-way (4 Leaf)	55					
	3-way (4 Leaf+7 d)	55					
	3-way (4 Leaf+14 d)	55					
LSD P=.05			0.80	3.11	54.39	0.63	741.5
Standard Deviation			0.55	2.13	37.27	0.43	506.9
CV			0.72	6.02	167.71	173.21	8.22
Treatment F			5.465	2.317	2.000	2.333	5.988
Treatment Prob(F)			0.0005	0.0533	0.0905	0.0518	0.0003

Evaluation of Nitrogen Application Timing in Furrow Irrigated Rice for RT7421 FP

Experiment number : 24-CS-12

Site and design :

Location/Cooperator : H. Rouse Caffey Rice Research Station (South Unit)

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 : Crowley silt loam

% Organic matter..... : 1.73

pH..... : 4.79

Extractable nutrients (ppm)..... : Ca-1,267; Cu-1.51; Mg-244; P-12; K-79; Na-55; S-9.6; Zn-1.1

Crop/Variety : Rice / RT7421 FP

Planting method/date : Drill seeded / April 15

Seeding rate/depth..... : 10 seeds /ft² / 1 inch

Emergence date..... : April 23

Harvest date : August 12

Ratoon Harvest date..... : NA

Seed treatment/cwt : **Hybrids:**

Apron (fungicide)

Dynasty (fungicide)

Fludioxonil (fungicide)(Maxim)

Gibberellic Acid

Sedaxane (fungicide)

Thiamethoxam (insecticide)

Zinc

AV-1011 (bird repellent) – 18.3 oz

Dermacor – 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, April 18

Water management : Underground irrigation

First Water..... : May 23

Irrigation : June 13, July 3

Drain..... : NA

Ratoon flood : NA

Ratoon drain : NA

Pest management..... :

Herbicides..... : 1 qt/A Glyphosate + 4 oz/A Command + 2 oz/A Sharpen + 4.8 oz/A Surfactant, April 17

4 qt/A Propanil + 1.5 oz/A Gambit, May 11

Insecticides : 7.5 oz/A Tenchu, July 25

Fungicides..... : 15 oz/A Amistar Top, July 9

Table 79. Evaluation of nitrogen application rate and timing for RT7421 FP in furrow irrigated rice. HRC Rice Research Station, 2024.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage			Rice Emer - HD	Rice Tip of Panicle 8/12/2024	Rice 8/12/2024	Rice 8/12/2024	Rice 8/12/2024
			50% HD days Main	Height In Main	Lodge % plot Main	Lodge rate Main	Yield lb/A Main
Trt No.	Treatment Name	N Rate (lb N/A)					
1	Check	0	80.5 c	46.8 a	90.0 -	4.0 a	5008 a
2	120 lb N/A		85.0 ab	49.5 a	90.0 -	3.5 a	4532 abc
	One time (4 Leaf)	120					
3	120 lb N/A		84.8 ab	49.3 a	90.0 -	3.5 a	4222 c
	2-way split (4 L)	60					
	2-way split (4 L+7 d)	60					
4	120 lb N/A		83.3 b	49.8 a	90.0 -	4.0 a	4876 ab
	2-way split (4 Leaf)	60					
	2-way split (4 L +14 d)	60					
5	120 lb N/A		85.5 ab	48.3 a	90.0 -	3.5 a	4368 bc
	3-way (4 Leaf)	40					
	3-way (4 Leaf+7 d)	40					
	3-way (4 Leaf+14 d)	40					
6	165 lb N/A		85.3 ab	49.8 a	90.0 -	3.3 a	3965 c
	One time (4 Leaf)	165					
7	165 lb N/A		85.8 ab	49.0 a	90.0 -	4.0 a	4047 c
	2-way split (4 Leaf)	82.5					
	2-way split (4 L+7 d)	82.5					
8	165 lb N/A		86.3 a	48.0 a	90.0 -	3.8 a	3965 c
	2-way split (4 Leaf)	82.5					
	2-way split (4 L+14 d)	82.5					
9	165 lb N/A		85.0 ab	49.5 a	90.0 -	3.8 a	4471 abc
	3-way (4 Leaf)	55					
	3-way (4 Leaf+7 d)	55					
	3-way (4 Leaf+14 d)	55					
LSD P=.05			2.71	2.99	NA	0.68	602.9
Standard Deviation			1.85	2.05	0.00	0.46	413.1
CV			2.19	4.19	0.0	12.56	9.42
Treatment F			3.525	0.969	NA	1.387	3.376
Treatment Prob(F)			0.0078	0.4825	NA	0.2519	0.0098

Determination of Optimum Plant Population and Seeding Rate of CLL19 in Furrow Irrigated Rice System

Experiment number : 24-CS-13

Site and design

Location/Cooperator : H. Rouse Caffey Rice Research Station (South Unit)

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 : Crowley silt loam

% Organic matter..... : 1.73

pH..... : 4.79

Extractable nutrients (ppm)..... : Ca-1,267; Cu-1.51; Mg-244; P-12; K-79; Na-55; S-9.6; Zn-1.1

Crop/Variety : Rice / CLL19

Planting method/date : Drill seeded / April 15

Seeding rate/depth..... : See Trt. Sheet / 1 inch

Emergence date..... : April 23

Harvest date : August 12

Ratoon Harvest date..... : NA

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

Apron (fungicide) – 8.88 ml

Maxim (fungicide) – 0.88 ml

Release (gibberellic acid) – 10 g

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

AV-1011 (bird repellent) – 18.3 oz

Dermacor- 0.137 lb ai/cwt

Fertilization : 250 lb/A 0-24-24-2.8, April 18

150 lb N/A 46-0-0, May 22

Water management : Underground irrigation

First Water..... : May 23

Irrigation : June 13, July 3

Drain : NA

Ratoon flood : NA

Ratoon drain : NA

Pest management..... :

Herbicides..... : 1 qt/A Glyphosate + 4 oz/A Command + 2 oz/A Sharpen + 4.8 oz/A
Surfactant, April 17

4 qt/A Propanil + 1.5 oz/A Gambit, May 11

Insecticides : 7.5 oz/A Tenchu, July 25

Fungicides..... : 15 oz/A Amistar Top, July 9

Table 80. Determination of optimum plant population and seeding rate of CLL19 in furrow irrigated rice system. HRC Rice Research Station, 2024.

Crop Name	Rice	Rice	Rice	Rice	Rice	Rice	Rice	Rice	
Description	Rice Density	Plant - HD	Emer - HD	Tip of Panicle					
Rating Date	5/14/2024			8/12/24	8/12/24	8/12/24	8/12/24	8/12/14	
Rating Type	Stand Count	50% HD	50% HD	Height	Lodge	Lodge	Moist	Yield	
Rating Unit	#/sq ft.	days	days	In	% plot	rate	%	lb/A	
Crop Stage	Main	Main	Main	Main	Main	Main	Main	Main	
Trt	Treatment								
No.	Name								
1	5 seed/ft2 (11.6 lb/A)	3.8 e	88.0 a	80.0 a	40.5 a	45.0 a	2.0 a	13.65 a	3988 a
2	10 seed/ft2 (22.3 lb/A)	6.6 d	87.0 a	79.0 a	40.0 a	40.0 a	2.0 a	13.75 a	4934 a
3	15 seed/ft2 (34.9 lb/A)	11.7 c	87.5 a	79.5 a	39.8 a	60.0 a	2.3 a	12.98 a	4647 a
4	20 seed/ft2 (46.6 lb/A)	13.8 c	87.0 a	79.0 a	37.8 a	47.5 a	1.8 a	12.88 a	4626 a
5	30 seed/ft2 (69.9 lb/A)	19.1 b	86.8 a	78.8 a	37.8 a	35.0 a	1.5 a	13.13 a	4886 a
6	40 seed/ft2 (93.1 lb/A)	25.8 a	86.0 a	78.0 a	36.8 a	40.0 a	1.3 a	13.03 a	5012 a
LSD P=.05	2.194	1.45	1.45	3.04	40.93	1.84	0.907	718.9	
Standard Deviation	1.456	0.96	0.96	2.02	27.16	1.22	0.601	477.0	
CV	10.81	1.11	1.22	5.21	60.91	68.29	4.55	10.19	
Treatment F	123.336	1.979	1.979	2.281	0.412	0.362	1.528	2.464	
Treatment Prob(F)	0.0001	0.1404	0.1404	0.0991	0.8328	0.8667	0.2400	0.0806	

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Determination of Optimum Plant Population and Seeding Rate of PVL04 in Furrow Irrigated Rice System

Experiment number	24-CS-14
Site and design	
Location/Cooperator	H. Rouse Caffey Rice Research Station (South Unit)
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	Crowley silt loam
% Organic matter	1.73
pH	4.79
Extractable nutrients (ppm)	Ca-1,267; Cu-1.51; Mg-244; P-12; K-79; Na-55; S-9.6; Zn-1.1
Crop/Variety	Rice / PVL04
Planting method/date	Drill seeded / April 15
Seeding rate/depth	See Trt. Sheet / 1 inch
Emergence date	April 23
Harvest date	August 12
Ratoon Harvest date	NA
Seed treatment/cwt	Conventional Varieties:
	Apron (fungicide) – 8.88 ml
	Maxim (fungicide) – 0.88 ml
	Release (gibberellic acid) – 10 g
	Zinc Plus (10% Zn and 4.9% combined sulfur) – 296 ml
	AV-1011 (bird repellent) – 18.3 oz
	Dermacor- 0.137 lb ai/cwt
Fertilization	250 lb/A 0-24-24-2.8, April 18
	150 lb N/A 46-0-0, May 22
Water management	Underground irrigation
First Water	May 23
Irrigation	June 13, July 3
Drain	NA
Ratoon flood	NA
Ratoon drain	NA
Pest management	
Herbicides	1 qt/A Glyphosate + 4 oz/A Command + 2 oz/A Sharpen + 4.8 oz/A Surfactant, April 17
	4 qt/A Propanil + 1.5 oz/A Gambit, May 11
Insecticides	7.5 oz/A Tenchu, July 25
Fungicides	15 oz/A Amistar Top, July 9

Table 81. Determination of optimum plant population and seeding rate of PVL04 in furrow irrigated rice system. HRC Rice Research Station, 2024.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice	Rice	
Description		Rice Density	Plant - HD	Emer - HD	Tip of Panicle				
Rating Date		5/17/2024			8/12/24	8/12/24	8/12/24	8/12/24	8/12/14
Rating Type		Stand Count	50% HD	50% HD	Height	Lodge	Lodge	Moist	Yield
Rating Unit		#/sq ft.	days	days	In	% plot	rate	%	lb/A
Crop Stage		Main	Main	Main	Main	Main	Main	Main	Main
Trt No.	Treatment Name								
1	5 seed/ft2 (11.6 lb/A)	4.0 d	98.8 a	90.8 a	46.0 a	0.0 a	0.0 a	12.00 b	1109 d
2	10 seed/ft2 (22.3 lb/A)	4.8 d	98.0 a	90.0 a	46.3 a	0.0 a	0.0 a	12.63 a	1845 c
3	15 seed/ft2 (34.9 lb/A)	7.2 c	97.8 a	89.8 a	44.0 a	0.0 a	0.0 a	11.38 a	2208 bc
4	20 seed/ft2 (46.6 lb/A)	8.8 c	96.8 ab	88.8 ab	46.0 a	0.0 a	0.0 a	15.75 a	2726 ab
5	30 seed/ft2 (69.9 lb/A)	14.5 b	94.8 bc	86.8 bc	46.5 a	40.0 a	1.5 a	14.90 a	3288 a
6	40 seed/ft2 (93.1 lb/A)	20.0 a	94.0 c	86.0 c	46.0 a	37.5 a	1.5 a	15.18 a	3366 a
LSD P=.05		2.267	1.02	1.02	1.48	1289.2	552.8	1335.8	
Standard Deviation		1.504	0.67	0.67	0.98	855.4	366.8	886.3	
CV		14.65	0.62	0.72	2.78	9.26	10.32	6.93	
Treatment F		73.250	26.707	26.707	1.392	7.365	1.608	9.430	
Treatment Prob(F)		0.0001	0.0001	0.0001	0.2826	0.0011	0.2181	0.0003	

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Evaluation of Cultural Practices and Ratoon Nitrogen Rates on Yield and Grain Quality of Titan with 135 lb N/A SPF in Main Crop

Experiment number	24-CM-25
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	
% Organic matter	1.24
pH	6.86
Extractable nutrients (ppm)	Ca-1573; Cu-1.5; Mg-286; P-18.0; K-59.3; Na-119; S-7.5; Zn-8.3
Crop/Variety	
Planting method/date	Drill seeded / March 12
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 26
Harvest date	August 2
Ratoon Harvest date	October 30
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 13
	135 lb N/A 46-0-0, May 13
Water management	
	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 13
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 82. Evaluation of cultural practices and ratoon nitrogen rates on yield and milling quality of Titan when 135 lb N/A were applied preflood in main crop. HRC Rice Research Station, 2024.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage				Rice Plant - HD	Rice Emer - HD	Rice Tip of Panicle 7/30/2024	Rice 7/30/2024	Rice 10/30/2024	Rice
				50% HD days Main	50% HD days Main	Height In Main	Yield lb/A Main	Yield lb/A Ratoon	Yield lb/A MC + RC
Trt No.	Stubble Management	N Rate (lb/A)	Growth Stage						
1	Normal Cut	0	Ratoon PF	105.3 a	91.3 a	36.0 a	7368 a	1824 i	9192 e
2	Normal Cut	30	Ratoon PF	105.0 a	91.0 a	36.0 a	7967 a	2357 fg	10325 cde
3	Normal Cut	60	Ratoon PF	105.0 a	91.0 a	36.0 a	8016 a	2352 fgh	10368 cde
4	Normal Cut	90	Ratoon PF	104.8 a	90.8 a	35.0 a	8466 a	2719 de	11185 a-d
5	Normal Cut	120	Ratoon PF	105.3 a	91.3 a	35.8 a	7872 a	2570 ef	10442 cde
6	Normal Cut	150	Ratoon PF	105.3 a	91.3 a	35.0 a	8116 a	2593 ef	10709 b-e
7	Mowing 8"	0	Ratoon PF	104.8 a	90.8 a	36.5 a	7909 a	2036 hi	9945 de
8	Mowing 8"	30	Ratoon PF	104.8 a	90.8 a	36.5 a	8511 a	2631 def	11142 a-d
9	Mowing 8"	60	Ratoon PF	105.0 a	91.0 a	35.5 a	8563 a	2832 cde	11395 a-d
10	Mowing 8"	90	Ratoon PF	104.8 a	90.8 a	37.0 a	8810 a	3329 a	12139 ab
11	Mowing 8"	120	Ratoon PF	105.3 a	91.3 a	35.8 a	8223 a	3214 ab	11437 a-d
12	Mowing 8"	150	Ratoon PF	105.3 a	91.3 a	36.5 a	7301 a	3361 a	10662 b-e
13	Rolling	0	Ratoon PF	104.3 a	90.3 a	36.8 a	9199 a	2061 ghi	11260 a-d
14	Rolling	30	Ratoon PF	104.5 a	90.5 a	36.0 a	9162 a	2384 f	11547 a-d
15	Rolling	60	Ratoon PF	105.0 a	91.0 a	35.3 a	7716 a	2928 bcd	10644 b-e
16	Rolling	90	Ratoon PF	104.8 a	90.8 a	37.3 a	8590 a	3105 abc	11694 abc
17	Rolling	120	Ratoon PF	105.0 a	91.0 a	37.0 a	7819 a	3072 abc	10891 a-d
18	Rolling	150	Ratoon PF	105.0 a	91.0 a	36.5 a	9144 a	3338 a	12482 a
LSD P=.05				0.60	0.60	2.07	1560.5	320.1	1630.8
Standard Deviation				0.42	0.42	1.46	1099.3	225.5	1148.8
CV				0.4	0.46	4.03	13.3	8.33	10.47
Treatment F				1.782	1.782	0.864	1.116	17.883	1.892
Treatment Prob(F)				0.0575	0.0575	0.6158	0.3657	0.0001	0.0409

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Continued.

Table 82. Continued.

Crop Name				Rice	Rice	Rice	Rice
Description				Milling	Milling	Milling	Milling
Rating Date				12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type				Head	Total	Head	Total
Rating Unit				%	%	%	%
Crop Stage				Main	Main	Ratoon	Ratoon
Trt	Stubble	N Rate	Growth				
No.	Management	(lb/A)	Stage				
1	Normal Cut	0	Ratoon PF	63.17 a	69.25 a	41.47 g	66.63 k
2	Normal Cut	30	Ratoon PF	62.91 a	69.17 a	43.73 g	67.30 jk
3	Normal Cut	60	Ratoon PF	63.19 a	69.36 a	49.92 ef	68.07 hi
4	Normal Cut	90	Ratoon PF	63.54 a	69.38 a	48.54 f	68.14 ghi
5	Normal Cut	120	Ratoon PF	61.94 a	68.92 a	49.59 ef	68.29 ghi
6	Normal Cut	150	Ratoon PF	64.30 a	69.57 a	49.24 ef	68.19 ghi
7	Mowing 8"	0	Ratoon PF	63.64 a	69.46 a	50.38 ef	67.89 ij
8	Mowing 8"	30	Ratoon PF	64.27 a	69.63 a	52.10 de	68.62 fgh
9	Mowing 8"	60	Ratoon PF	64.55 a	69.67 a	55.18 cd	69.05 def
10	Mowing 8"	90	Ratoon PF	64.07 a	69.64 a	55.43 bcd	69.55 bcd
11	Mowing 8"	120	Ratoon PF	63.79 a	69.45 a	57.22 abc	69.74 bc
12	Mowing 8"	150	Ratoon PF	64.72 a	69.78 a	58.28 abc	70.21 ab
13	Rolling	0	Ratoon PF	64.52 a	69.80 a	52.58 de	68.76 efg
14	Rolling	30	Ratoon PF	64.38 a	69.61 a	54.84 cd	69.36 cde
15	Rolling	60	Ratoon PF	63.57 a	69.32 a	58.76 ab	70.09 ab
16	Rolling	90	Ratoon PF	65.17 a	70.06 a	59.91 a	70.16 ab
17	Rolling	120	Ratoon PF	63.72 a	69.48 a	59.44 a	70.45 a
18	Rolling	150	Ratoon PF	64.71 a	69.88 a	60.58 a	70.65 a
LSD P=.05				1.698	0.709	3.523	0.684
Standard Deviation				1.196	0.500	2.481	0.482
CV				1.87	0.72	4.67	0.7
Treatment F				1.732	1.204	19.900	22.792
Treatment Prob(F)				0.0668	0.2953	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Table 83. Two-way table for the evaluation of cultural practices and ratoon nitrogen rates on yield and milling quality of Titan when 135 lb N/A were applied pre flood in main crop. HRC Rice Research Station, 2024.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice
Description		Plant - HD	Emer - HD	Tip of Panicle			
Rating Date				7/30/2024	7/30/2024	10/30/2024	
Rating Type		50% HD	50% HD	Height	Yield	Yield	Yield
Rating Unit		days	days	In	lb/A	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Ratoon	MC + RC
TABLE OF A (Cultural practice) MEANS							
1	Normal Cut	105.1 a	91.1 a	35.6 a	7968 a	2402 b	10370 b
2	Mowing 8"	105.0 ab	91.0 ab	36.3 a	8220 a	2900 a	11120 a
3	Rolling	104.8 b	90.8 b	36.5 a	8605 a	2815 a	11420 a
<i>P</i>		0.2860	0.2860	0.1209	0.1395	0.0001	0.0080
LSD <i>P</i> =.05		0.24	0.24	0.84	637.1	130.7	665.8
TABLE OF B (Fertilizer rate) MEANS							
1	0 N - Ratoon	104.8 b	90.8 b	36.4 a	8159 a	1973 d	10132 b
2	30 N - Ratoon	104.8 b	90.8 b	36.2 a	8547 a	2458 c	11004 ab
3	60 N - Ratoon	105.0 ab	91.0 ab	35.6 a	8098 a	2704 b	10802 ab
4	90 N - Ratoon	104.8 b	90.8 b	36.4 a	8622 a	3051 a	11673 a
5	120 N - Ratoon	105.2 a	91.2 a	36.2 a	7972 a	2952 a	10923 ab
6	150 N - Ratoon	105.2 a	91.2 a	36.0 a	8187 a	3097 a	11284 a
<i>P</i>		0.2290	0.2290	0.7400	0.6471	0.0001	0.0488
LSD <i>P</i> =.05		0.35	0.35	1.19	901.0	184.8	941.6

Continued.

Table 83. Continued.

Crop Name		Rice	Rice	Rice	Rice
Description		Milling	Milling	Milling	Milling
Rating Date		12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type		Head	Total	Head	Total
Rating Unit		%	%	%	%
Crop Stage		Main	Main	Ratoon	Ratoon
TABLE OF A (Cultural practice) MEANS					
1	Normal Cut	63.18 b	69.28 b	47.08 c	67.77 c
2	Mowing 8"	64.17 a	69.61 a	54.77 b	69.17 b
3	Rolling	64.34 a	69.69 a	57.68 a	69.91 a
<i>P</i>		0.0027	0.0141	0.0001	0.0001
LSD P=.05		0.6932	0.2896	1.4381	0.2791
TABLE OF B (Fertilizer rate) MEANS					
1	0 N - Ratoon	63.78 a	69.50 a	48.14 c	67.76 e
2	30 N - Ratoon	63.85 a	69.47 a	50.22 b	68.43 d
3	60 N - Ratoon	63.77 a	69.45 a	54.62 a	69.07 c
4	90 N - Ratoon	64.26 a	69.69 a	54.63 a	69.28 bc
5	120 N - Ratoon	63.15 a	69.28 a	55.42 a	69.49 ab
6	150 N - Ratoon	64.58 a	69.75 a	56.03 a	69.68 a
<i>P</i>		0.0948	0.2402	0.0001	0.0001
LSD P=.05		0.9803	0.4096	2.0337	0.3947

Continued.

Table 83. Continued.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage	Rice Plant - HD	Rice Emer - HD	Rice Tip of Panicle 7/30/2024 Height In Main	Rice 7/30/24 Yield lb/A Main	Rice 10/30/24 Yield lb/A Ratoon	Rice Yield lb/A MC + RC
TABLE OF A x B MEANS						
1 Normal Cut	105.3 a	91.3 a	36.0 a	7368 a	1824 a	9192 a
1 0 N - Ratoon						
2 Mowing 8"	104.8 a	90.8 a	36.5 a	7909 a	2036 a	9945 a
1 0 N - Ratoon						
3 Rolling	104.3 a	90.3 a	36.8 a	9199 a	2061 a	11260 a
1 0 N - Ratoon						
1 Normal Cut	105.0 a	91.0 a	36.0 a	7967 a	2357 a	10325 a
2 30 N - Ratoon						
2 Mowing 8"	104.8 a	90.8 a	36.5 a	8511 a	2631 a	11142 a
2 30 N - Ratoon						
3 Rolling	104.5 a	90.5 a	36.0 a	9162 a	2384 a	11547 a
2 30 N - Ratoon						
1 Normal Cut	105.0 a	91.0 a	36.0 a	8016 a	2352 a	10368 a
3 60 N - Ratoon						
2 Mowing 8"	105.0 a	91.0 a	35.5 a	8563 a	2832 a	11395 a
3 60 N - Ratoon						
3 Rolling	105.0 a	91.0 a	35.3 a	7716 a	2928 a	10644 a
3 60 N - Ratoon						
1 Normal Cut	104.8 a	90.8 a	35.0 a	8466 a	2719 a	11185 a
4 90 N - Ratoon						
2 Mowing 8"	104.8 a	90.8 a	37.0 a	8810 a	3329 a	12139 a
4 90 N - Ratoon						
3 Rolling	104.8 a	90.8 a	37.3 a	8590 a	3105 a	11694 a
4 90 N - Ratoon						
1 Normal Cut	105.3 a	91.3 a	35.8 a	7872 a	2570 a	10442 a
5 120 N - Ratoon						
2 Mowing 8"	105.3 a	91.3 a	35.8 a	8223 a	3214 a	11437 a
5 120 N - Ratoon						
3 Rolling	105.0 a	91.0 a	37.0 a	7819 a	3072 a	10891 a
5 120 N - Ratoon						
1 Normal Cut	105.3 a	91.3 a	35.0 a	8116 a	2593 a	10709 a
6 150 N - Ratoon						
2 Mowing 8"	105.3 a	91.3 a	36.5 a	7301 a	3361 a	10662 a
6 150 N - Ratoon						
3 Rolling	105.0 a	91.0 a	36.5 a	9144 a	3338 a	12482 a
6 150 N - Ratoon						
<i>P</i>	0.606	0.606	0.670	0.344	0.098	0.499
LSD <i>P</i> =.05	0.60	0.60	2.07	1561	320.1	1631
Standard Deviation	0.42	0.42	1.46	1099	225.5	1149
CV	0.40	0.46	4.03	13.3	8.3	10.5

Continued.

Table 83. Continued.

Crop Name	Rice	Rice	Rice	Rice
Description	Milling	Milling	Milling	Milling
Rating Date	12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type	Head	Total	Head	Total
Rating Unit	%	%	%	%
Crop Stage	Main	Main	Ratoon	Ratoon
TABLE OF A x B MEANS				
1 Normal Cut	63.17 a	69.25 a	41.47 a	66.63 a
1 0 N - Ratoon				
2 Mowing 8"	63.64 a	69.46 a	50.38 a	67.89 a
1 0 N - Ratoon				
3 Rolling	64.52 a	69.80 a	52.58 a	68.76 a
1 0 N - Ratoon				
1 Normal Cut	62.91 a	69.17 a	43.73 a	67.30 a
2 30 N - Ratoon				
2 Mowing 8"	64.27 a	69.63 a	52.10 a	68.62 a
2 30 N - Ratoon				
3 Rolling	64.38 a	69.61 a	54.84 a	69.36 a
2 30 N - Ratoon				
1 Normal Cut	63.19 a	69.36 a	49.92 a	68.07 a
3 60 N - Ratoon				
2 Mowing 8"	64.55 a	69.67 a	55.18 a	69.05 a
3 60 N - Ratoon				
3 Rolling	63.57 a	69.32 a	58.76 a	70.09 a
3 60 N - Ratoon				
1 Normal Cut	63.54 a	69.38 a	48.54 a	68.14 a
4 90 N - Ratoon				
2 Mowing 8"	64.07 a	69.64 a	55.43 a	69.55 a
4 90 N - Ratoon				
3 Rolling	65.17 a	70.06 a	59.91 a	70.16 a
4 90 N - Ratoon				
1 Normal Cut	61.94 a	68.92 a	49.59 a	68.29 a
5 120 N - Ratoon				
2 Mowing 8"	63.79 a	69.45 a	57.22 a	69.74 a
5 120 N - Ratoon				
3 Rolling	63.72 a	69.48 a	59.44 a	70.45 a
5 120 N - Ratoon				
1 Normal Cut	64.30 a	69.57 a	49.24 a	68.19 a
6 150 N - Ratoon				
2 Mowing 8"	64.72 a	69.78 a	58.28 a	70.21 a
6 150 N - Ratoon				
3 Rolling	64.71 a	69.88 a	60.58 a	70.65 a
6 150 N - Ratoon				
<i>P</i>	0.797	0.931	0.925	0.852
LSD <i>P</i> =.05	1.698	0.709	3.523	0.684
Standard Deviation	1.196	0.500	2.481	0.482
CV	1.872	0.719	4.666	0.699

Means followed by the same letter or symbol do not significantly differ (*P*=0.05, LSD).

**Evaluation of Cultural Practices and Ratoon Nitrogen Rates and Timing on Yield and Grain Quality of Titan
with 90/40 (PF/PI) lb N/A in Main Crop**

Experiment number	24-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	1.24
pH	6.86
Extractable nutrients (ppm)	Ca-1573; Cu-1.5; Mg-286; P-18.0; K-59.3; Na-119; S-7.5; Zn-8.3
Crop/Variety	Rice / Titan
Planting method/date	Drill seeded / March 12
Seeding rate/depth	25 seed/ft ² / 1.5 inch
Emergence date	March 26
Harvest date	August 2
Ratoon Harvest date	October 30
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 13
	90 lb N/A 46-0-0, May 13 (PF)
	45 lb N/A 46-0-0, May 30 (PI)
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 13
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28
	1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21
	1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A
	Surfactant, March 14
	4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 84. Evaluation of cultural practices and ratoon nitrogen rates and application timing on yield and milling quality of Titan when split N rate 90/45 (PF/PI) lb N/A in main crop were applied. HRC Rice Research Station, 2024.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage				Rice Plant - HD	Rice Emer - HD	Rice Tip of Panicle 7/30/2024	Rice 7/30/2024	Rice 10/30/2024	Rice
				50% HD days Main	50% HD days Main	Height In Main	Yield lb/A Main	Yield lb/A Ratoon	Yield lb/A MC + RC
Trt No.	Stubble Management	N Rate (lb/A)	Growth Stage						
1	Normal Cut	30	At harvest	103.5 a	89.5 a	37.0 abc	8182 a	2459 h	10641 cde
2	Normal Cut	30	Ratoon - PF	103.8 a	89.8 a	36.0 bcd	8625 a	2433 h	11059 b-e
3	Normal Cut	90	At harvest	103.8 a	89.8 a	35.5 cd	7751 a	2623 gh	10374 de
4	Normal Cut	90	Ratoon - PF	103.8 a	89.8 a	35.5 cd	8290 a	2925 fg	11215 b-e
5	Normal Cut	150	At harvest	103.8 a	89.8 a	35.5 cd	8201 a	2777 fg	10979 b-e
6	Normal Cut	150	Ratoon - PF	103.5 a	89.5 a	36.8 abc	8157 a	2837 fg	10994 b-e
7	Mowing 8"	30	At harvest	103.5 a	89.5 a	37.0 abc	8480 a	2829 fg	11310 b-e
8	Mowing 8"	30	Ratoon - PF	103.8 a	89.8 a	35.8 cd	7533 a	2811 fg	10345 de
9	Mowing 8"	90	At harvest	103.5 a	89.5 a	36.8 abc	8955 a	3687 ab	12641 abc
10	Mowing 8"	90	Ratoon - PF	104.0 a	90.0 a	35.0 d	10701 a	3366 cd	14067 a
11	Mowing 8"	150	At harvest	103.5 a	89.5 a	36.0 bcd	9279 a	3643 abc	12963 ab
12	Mowing 8"	150	Ratoon - PF	103.8 a	89.8 a	36.8 abc	8723 a	3536 bcd	12259 a-d
13	Rolling	30	At harvest	103.5 a	89.5 a	35.8 cd	9029 a	2969 ef	11998 a-e
14	Rolling	30	Ratoon - PF	103.8 a	89.8 a	37.8 a	7193 a	2830 fg	10023 e
15	Rolling	90	At harvest	103.5 a	89.5 a	35.5 cd	8972 a	3634 abc	12606 abc
16	Rolling	90	Ratoon - PF	104.0 a	90.0 a	36.5 a-d	8523 a	3281 de	11804 a-e
17	Rolling	150	At harvest	103.5 a	89.5 a	37.5 ab	9009 a	3934 a	12943 ab
18	Rolling	150	Ratoon - PF	103.5 a	89.5 a	36.0 bcd	8752 a	3710 ab	12462 a-d
LSD P=.05				0.52	0.52	1.53	2092.9	317.1	2159
Standard Deviation				0.37	0.37	1.08	1473.6	223.4	1520
CV				0.35	0.41	2.97	17.24	7.14	13.03
Treatment F				0.903	0.903	2.081	1.037	17.944	2.010
Treatment Prob(F)				0.5741	0.5741	0.0227	0.4381	0.0001	0.0289

Continued.

Table 84. Continued.

Crop Name				Rice	Rice	Rice	Rice
Description				Milling	Milling	Milling	Milling
Rating Date				12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type				Head	Total	Head	Total
Rating Unit				%	%	%	%
Crop Stage				Main	Main	Ratoon	Ratoon
Trt	Stubble	N Rate	Growth				
No.	Management	(lb/A)	Stage				
1	Normal Cut	30	At harvest	60.56 a	67.68 a	42.37 g	66.45 h
2	Normal Cut	30	Ratoon - PF	63.25 a	69.18 a	42.66 g	66.39 h
3	Normal Cut	90	At harvest	62.26 a	68.99 a	47.84 f	67.97 fg
4	Normal Cut	90	Ratoon - PF	62.76 a	69.18 a	48.56 ef	67.78 g
5	Normal Cut	150	At harvest	61.94 a	68.90 a	50.37 ef	68.57 ef
6	Normal Cut	150	Ratoon - PF	63.34 a	69.31 a	47.48 f	67.68 g
7	Mowing 8"	30	At harvest	63.29 a	69.09 a	51.40 e	68.20 fg
8	Mowing 8"	30	Ratoon - PF	62.20 a	68.85 a	49.56 ef	68.22 fg
9	Mowing 8"	90	At harvest	63.67 a	69.51 a	55.78 d	69.12 de
10	Mowing 8"	90	Ratoon - PF	62.46 a	69.11 a	56.22 cd	69.58 bcd
11	Mowing 8"	150	At harvest	63.98 a	69.66 a	55.66 d	69.49 bcd
12	Mowing 8"	150	Ratoon - PF	63.57 a	69.45 a	56.87 cd	69.50 bcd
13	Rolling	30	At harvest	63.82 a	69.50 a	55.35 d	69.10 de
14	Rolling	30	Ratoon - PF	63.16 a	69.33 a	57.40 bcd	69.39 cd
15	Rolling	90	At harvest	63.43 a	69.33 a	58.96 abc	69.95 abc
16	Rolling	90	Ratoon - PF	63.66 a	69.63 a	58.98 abc	70.10 ab
17	Rolling	150	At harvest	63.94 a	69.48 a	60.54 a	70.40 a
18	Rolling	150	Ratoon - PF	63.92 a	69.50 a	60.15 ab	70.36 a
LSD P=.05				2.211	0.955	3.110	0.664
Standard Deviation				1.557	0.673	2.190	0.468
CV				2.47	0.97	4.12	0.68
Treatment F				1.258	1.713	27.559	27.103
Treatment Prob(F)				0.2583	0.0716	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Table 85. Two-way table for the evaluation of cultural practices and ratoon nitrogen rates and application timing on yield and milling quality of Titan when split N rate 90/45 (PF/PI) lb N/A in main crop were applied. HRC Rice Research Station, 2024.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice
Description		Plant - HD	Emer - HD	Tip of Panicle			
Rating Date				7/30/2024	7/30/2024	10/30/2024	
Rating Type		50% HD	50% HD	Height	Yield	Yield	Yield
Rating Unit		days	days	In	lb/A	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Ratoon	MC + RC
TABLE OF A (Cultural) MEANS							
1	Normal Cut	103.7 a	89.7 a	36.0 a	8201 a	2676 b	10877 b
2	Mowing 8"	103.7 a	89.7 a	36.2 a	8945 a	3312 a	12264 a
3	Rolling	103.6 a	89.6 a	36.5 a	8580 a	3393 a	11973 a
<i>P</i>		0.9	0.9	0.3	0.2471	0.0001 0	0.0081
LSD <i>P</i> =.05		0.21	0.21	0.62	854.4	129.5	881.5
TABLE OF B (Fertilizer) MEANS							
1	0 N - Ratoon	103.6 a	89.6 a	36.5 a	8174 a	2722 c	10896 b
2	90 N - Ratoon	103.8 a	89.8 a	35.8 b	8865 a	3253 b	12118 a
3	150 N - Ratoon	103.6 a	89.6 a	36.4 a	8687 a	3406 a	12100 a
<i>P</i>		0.3	0.3	0.0	0.2538	0.0001	0.0105
LSD <i>P</i> =.05		0.21	0.21	0.62	854.4	129.5	881.5
TABLE OF C (Timing) MEANS							
1	At Harvest	103.6 b	89.6 b	36.3 a	8651 a	3173 a	11828 a
2	Ratoon - PF	103.8 a	89.8 a	36.2 a	8500 a	3081 a	11581 a
<i>P</i>		0.029	0.029	0.8276	0.6772	0.0879	0.2064
LSD <i>P</i> =.05		0.17	0.17	0.51	697.6	105.7	719.8

Continued.

Table 85. Continued.

Crop Name		Rice	Rice	Rice	Rice
Description		Milling	Milling	Milling	Milling
Rating Date		12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type		Head	Total	Head	Total
Rating Unit		%	%	%	%
Crop Stage		Main	Main	Ratoon	Ratoon
TABLE OF A (Cultural) MEANS					
1	Normal Cut	62.35 b	68.87 b	46.55 c	67.47 c
2	Mowing 8"	63.19 ab	69.28 a	54.25 b	69.02 b
3	Rolling	63.65 a	69.46 a	58.56 a	69.88 a
<i>P</i>		0.020	0.0131	0.0001	0.0001
LSD <i>P</i> =.05		0.903	0.390	1.269	0.271
TABLE OF B (Fertilizer) MEANS					
1	0 N - Ratoon	62.71 a	68.94 a	49.79 b	67.96 b
2	90 N - Ratoon	63.04 a	69.29 a	54.39 a	69.08 a
3	150 N - Ratoon	63.45 a	69.38 a	55.18 a	69.33 a
<i>P</i>		0.298	0.071	0.0001	0.0001
LSD <i>P</i> =.05		0.903	0.390	1.269	0.271
TABLE OF C (Timing) MEANS					
1	At Harvest	62.99 a	69.13 a	53.14 a	68.80 a
2	Ratoon - PF	63.15 a	69.28 a	53.10 a	68.78 a
<i>P</i>		0.6414	0.305	0.936	0.8079
LSD <i>P</i> =.05		0.737	0.318	1.037	0.221

Continued.

Table 85. Continued.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage	Rice Plant - HD	Rice Emer - HD	Rice Tip of Panicle 7/30/2024 Height In Main	Rice 7/30/2024 Yield lb/A Main	Rice 10/30/2024 Yield lb/A Ratoon	Rice Yield lb/A MC + RC
TABLE OF A x B MEANS						
1 Normal Cut	103.6 a	89.6 a	36.5 a	8404 a	2446 d	10850 a
1 30 N - Ratoon						
2 Mowing 8"	103.6 a	89.6 a	36.4 a	8007 a	2820 c	10827 a
1 30 N - Ratoon						
3 Rolling	103.6 a	89.6 a	36.8 a	8111 a	2900 c	11011 a
1 30 N - Ratoon						
1 Normal Cut	103.8 a	89.8 a	35.5 a	8020 a	2774 c	10795 a
2 90 N - Ratoon						
2 Mowing 8"	103.8 a	89.8 a	35.9 a	9828 a	3526 b	13354 a
2 90 N - Ratoon						
3 Rolling	103.8 a	89.8 a	36.0 a	8748 a	3457 b	12205 a
2 90 N - Ratoon						
1 Normal Cut	103.6 a	89.6 a	36.1 a	8179 a	2807 c	10986 a
3 150 N - Ratoon						
2 Mowing 8"	103.6 a	89.6 a	36.4 a	9001 a	3590 b	12611 a
3 150 N - Ratoon						
3 Rolling	103.5 a	89.5 a	36.8 a	8880 a	3822 a	12703 a
3 150 N - Ratoon						
<i>P</i>	0.981	0.981	0.965	0.322	0.006	0.165
LSD <i>P</i> =.05	0.37	0.37	1.08	1479.9	224.2	1527

Continued.

Table 85. Continued.

Crop Name	Rice	Rice	Rice	Rice
Description	Milling	Milling	Milling	Milling
Rating Date	12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type	Head	Total	Head	Total
Rating Unit	%	%	%	%
Crop Stage	Main	Main	Ratoon	Ratoon
TABLE OF A x B MEANS				
1 Normal Cut	61.91 a	68.43 a	42.51 a	66.42 a
1 30 N - Ratoon				
2 Mowing 8"	62.75 a	68.97 a	50.48 a	68.21 a
1 30 N - Ratoon				
3 Rolling	63.49 a	69.41 a	56.37 a	69.24 a
1 30 N - Ratoon				
1 Normal Cut	62.51 a	69.09 a	48.20 a	67.87 a
2 90 N - Ratoon				
2 Mowing 8"	63.07 a	69.31 a	56.00 a	69.35 a
2 90 N - Ratoon				
3 Rolling	63.54 a	69.48 a	58.97 a	70.02 a
2 90 N - Ratoon				
1 Normal Cut	62.64 a	69.10 a	48.93 a	68.13 a
3 150 N - Ratoon				
2 Mowing 8"	63.77 a	69.55 a	56.27 a	69.49 a
3 150 N - Ratoon				
3 Rolling	63.93 a	69.49 a	60.34 a	70.38 a
3 150 N - Ratoon				
<i>P</i>	0.958	0.672	0.255	0.285
LSD <i>P</i> =.05	1.563	0.675	2.199	0.469

Continued.

Table 85. Continued.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage	Rice Plant - HD 50% HD days Main	Rice Emer - HD 50% HD days Main	Rice Tip of Panicle 7/30/2024 Height In Main	Rice 7/30/2024 Yield lb/A Main	Rice 10/30/2024 Yield lb/A Ratoon	Rice Yield lb/A MC + RC
TABLE OF A x C MEANS						
1 Normal Cut	103.7 a	89.7 a	36.0 a	8045 a	2620 c	10665 a
1 At Harvest						
2 Mowing 8"	103.5 a	89.5 a	36.6 a	8905 a	3386 ab	12305 a
1 At Harvest						
3 Rolling	103.5 a	89.5 a	36.3 a	9004 a	3512 a	12516 a
1 At Harvest						
1 Normal Cut	103.7 a	89.7 a	36.1 a	8357 a	2732 c	11089 a
2 Ratoon – PF						
2 Mowing 8"	103.8 a	89.8 a	35.8 a	8986 a	3238 b	12224 a
2 Ratoon – PF						
3 Rolling	103.8 a	89.8 a	36.8 a	8156 a	3274 b	11430 a
2 Ratoon – PF						
<i>P</i>	0.271	0.271	0.133	0.354	0.025	0.223
LSD <i>P</i> =.05	0.30	0.30	0.88	1208.4	183.1	1247
TABLE of B x C MEANS						
1 30 N - Ratoon	103.5 a	89.5 a	36.6 a	8564 a	2753 a	11316 a
1 At Harvest						
2 90 N - Ratoon	103.6 a	89.6 a	35.9 a	8559 a	3314 a	11874 a
1 At Harvest						
3 150 N - Ratoon	103.6 a	89.6 a	36.3 a	8830 a	3452 a	12295 a
1 At Harvest						
1 30 N - Ratoon	103.8 a	89.8 a	36.5 a	7784 a	2692 a	10475 a
2 Ratoon - PF						
2 90 N - Ratoon	103.9 a	89.9 a	35.7 a	9171 a	3191 a	12362 a
2 Ratoon - PF						
3 150 N - Ratoon	103.6 a	89.6 a	36.5 a	8544 a	3361 a	11905 a
2 Ratoon - PF						
<i>P</i>	0.271	0.271	0.797	0.265	0.889	0.317
LSD <i>P</i> =.05	0.30	0.30	0.88	1208.4	183.1	1247
Continued.						

Table 85. Continued.

Crop Name	Rice	Rice	Rice	Rice
Description	Milling	Milling	Milling	Milling
Rating Date	12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type	Head	Total	Head	Total
Rating Unit	%	%	%	%
Crop Stage	Main	Main	Ratoon	Ratoon
TABLE OF A x C MEANS				
1 Normal Cut	61.59 b	68.52 b	46.86 a	67.66 a
1 At Harvest				
2 Mowing 8"	63.65 a	69.42 a	54.28 a	68.93 a
1 At Harvest				
3 Rolling	63.73 a	69.44 a	58.28 a	69.81 a
1 At Harvest				
1 Normal Cut	63.12 a	69.22 a	46.24 a	67.28 a
2 Ratoon – PF				
2 Mowing 8"	62.74 ab	69.14 a	54.22 a	69.10 a
2 Ratoon – PF				
3 Rolling	63.58 a	69.49 a	58.84 a	69.95 a
2 Ratoon – PF				
<i>P</i>	0.029	0.046	0.646	0.083
LSD <i>P</i> =.05	1.276	0.552	1.795	0.383
TABLE of B x C MEANS				
1 30 N - Ratoon	62.56 a	68.75 a	49.70 a	67.91 a
1 At Harvest				
2 90 N - Ratoon	63.12 a	69.28 a	54.19 a	69.01 a
1 At Harvest				
3 150 N - Ratoon	63.29 a	69.35 a	55.52 a	69.49 a
1 At Harvest				
1 30 N - Ratoon	62.87 a	69.12 a	49.87 a	68.00 a
2 Ratoon - PF				
2 90 N - Ratoon	62.96 a	69.31 a	54.59 a	69.15 a
2 Ratoon - PF				
3 150 N - Ratoon	63.61 a	69.42 a	54.83 a	69.18 a
2 Ratoon - PF				
<i>P</i>	0.838	0.639	0.666	0.207
LSD <i>P</i> =.05	1.276	0.552	1.795	0.383

Continued.

Table 85. Continued.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage	Rice Plant - HD 50% HD days Main	Rice Emer - HD 50% HD days Main	Rice Tip of Panicle 7/30/2024 Height In Main	Rice 7/30/24 Yield lb/A Main	Rice 10/30/24 Yield lb/A Ratoon
TABLE OF A x B x C MEANS					
1 Normal Cut	103.5 a	89.5 a	37.0 abc	8182 a	2459 a
1 30 N - Harvest					
2 Mowing 8"	103.5 a	89.5 a	37.0 abc	8480 a	2829 a
1 30 N - Harvest					
3 Rolling	103.5 a	89.5 a	35.8 cd	9029 a	2969 a
1 30 N - Harvest					
1 Normal Cut	103.8 a	89.8 a	35.5 cd	7751 a	2623 a
2 90 N - Harvest					
2 Mowing 8"	103.5 a	89.5 a	36.8 abc	8955 a	3687 a
2 90 N - Harvest					
3 Rolling	103.5 a	89.5 a	35.5 cd	8972 a	3634 a
2 90 N - Harvest					
1 Normal Cut	103.8 a	89.8 a	35.5 cd	8201 a	2777 a
3 150 N - Harvest					
2 Mowing 8"	103.5 a	89.5 a	36.0 bcd	9279 a	3643 a
3 150 N - Harvest					
3 Rolling	103.5 a	89.5 a	37.5 ab	9009 a	3934 a
3 150 N - Harvest					
1 Normal Cut	103.8 a	89.8 a	36.0 bcd	8625 a	2433 a
1 30 N - Ratoon PF					
2 Mowing 8"	103.8 a	89.8 a	35.8 cd	7533 a	2811 a
1 30 N - Ratoon PF					
3 Rolling	103.8 a	89.8 a	37.8 a	7193 a	2830 a
1 30 N - Ratoon PF					
1 Normal Cut	103.8 a	89.8 a	35.5 cd	8290 a	2925 a
2 90 N - Ratoon PF					
2 Mowing 8"	104.0 a	90.0 a	35.0 d	10701 a	3366 a
2 90 N - Ratoon PF					
3 Rolling	104.0 a	90.0 a	36.5 a-d	8523 a	3281 a
2 90 N - Ratoon PF					
1 Normal Cut	103.5 a	89.5 a	36.8 abc	8157 a	2837 a
3 150 N - Ratoon PF					
2 Mowing 8"	103.8 a	89.8 a	36.8 abc	8723 a	3536 a
3 150 N - Ratoon PF					
3 Rolling	103.5 a	89.5 a	36.0 bcd	8752 a	3710 a
3 150 N - Ratoon PF					
<i>P</i>	0.799	0.799	0.001	0.619	0.306
LSD <i>P</i> =.05	0.52	0.52	1.53	2093	317.1
Standard Deviation	0.37	0.37	1.08	1474	223.4
CV	0.35	0.41	2.97	17.2	7.1

Continued.

Table 85. Continued.

Crop Name	Rice	Rice	Rice	Rice	Rice
Description		Milling	Milling	Milling	Milling
Rating Date		12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type	Yield	Head	Total	Head	Total
Rating Unit	lb/A	%	%	%	%
Crop Stage	MC + RC	Main	Main	Ratoon	Ratoon
TABLE OF A x B x C MEANS					
1 Normal Cut	10641 a	60.56 a	67.68 a	42.37 a	66.45 a
1 30 N - Harvest					
2 Mowing 8"	11310 a	63.29 a	69.09 a	51.40 a	68.20 a
1 30 N - Harvest					
3 Rolling	11998 a	63.82 a	69.50 a	55.35 a	69.10 a
1 30 N - Harvest					
1 Normal Cut	10374 a	62.26 a	68.99 a	47.84 a	67.97 a
2 90 N - Harvest					
2 Mowing 8"	12641 a	63.67 a	69.51 a	55.78 a	69.12 a
2 90 N - Harvest					
3 Rolling	12606 a	63.43 a	69.33 a	58.96 a	69.95 a
2 90 N - Harvest					
1 Normal Cut	10979 a	61.94 a	68.90 a	50.37 a	68.57 a
3 150 N - Harvest					
2 Mowing 8"	12963 a	63.98 a	69.66 a	55.66 a	69.49 a
3 150 N - Harvest					
3 Rolling	12943 a	63.94 a	69.48 a	60.54 a	70.40 a
3 150 N - Harvest					
1 Normal Cut	11059 a	63.25 a	69.18 a	42.66 a	66.39 a
1 30 N - Ratoon PF					
2 Mowing 8"	10345 a	62.20 a	68.85 a	49.56 a	68.22 a
1 30 N - Ratoon PF					
3 Rolling	10023 a	63.16 a	69.33 a	57.40 a	69.39 a
1 30 N - Ratoon PF					
1 Normal Cut	11215 a	62.76 a	69.18 a	48.56 a	67.78 a
2 90 N - Ratoon PF					
2 Mowing 8"	14067 a	62.46 a	69.11 a	56.22 a	69.58 a
2 90 N - Ratoon PF					
3 Rolling	11804 a	63.66 a	69.63 a	58.98 a	70.10 a
2 90 N - Ratoon PF					
1 Normal Cut	10994 a	63.34 a	69.31 a	47.48 a	67.68 a
3 150 N - Ratoon PF					
2 Mowing 8"	12259 a	63.57 a	69.45 a	56.87 a	69.50 a
3 150 N - Ratoon PF					
3 Rolling	12462 a	63.92 a	69.50 a	60.15 a	70.36 a
3 150 N - Ratoon PF					
P	0.747	0.689	0.410	0.220	0.720
LSD P=.05	2159	2.211	0.955	3.110	0.664
Standard Deviation	1520	1.557	0.673	2.190	0.468
CV	13.0	2.468	0.972	4.124	0.680

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

**Evaluation of Cultural Practices and Ratoon Nitrogen Rates on Yield and Milling Quality of RT7421 FP with
150 lb N/A Preflood Application in Main Crop**

Experiment number	24-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	1.24
pH	6.86
Extractable nutrients (ppm)	Ca-1573; Cu-1.5; Mg-286; P-18.0; K-59.3; Na-119; S-7.5; Zn-8.3
Crop/Variety	Rice / RT7421 FP
Planting method/date	Drill seeded / March 12
Seeding rate/depth	10 seed/ft ² / 1.5 inch
Emergence date	March 26
Harvest date	August 2
Ratoon Harvest date	Normal stubble -October 30 Bush hog and rolled stubble – November 15
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 13 150 lb N/A 46-0-0, May 13
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 13
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28 1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21 1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A Surfactant, March 14 4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 86. Evaluation of cultural practices and ratoon nitrogen rates on yield and milling quality of RT7421 FP when 135 lb N/A were applied pre flood in main crop. HRC Rice Research Station, 2024.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage				Rice Plant - HD	Rice Emer - HD	Rice Tip of Panicle 7/30/2024 Height In Main	Rice 7/30/2024 Yield lb/A Main	Rice 10/30/2024 Yield lb/A Ratoon	Rice Yield lb/A MC + RC
Trt No.	Stubble Management	N Rate (lb/A)	Growth Stage						
1	Normal Cut	0	Ratoon PF	105.0 -	91.0 -	49.0 a	13500 a	2264 ef	15764 a-c
2	Normal Cut	30	Ratoon PF	105.0 -	91.0 -	48.5 a	13647 a	2944 bcd	16591 ab
3	Normal Cut	60	Ratoon PF	105.0 -	91.0 -	47.5 a	13523 a	2905 bcd	16428 ab
4	Normal Cut	90	Ratoon PF	105.0 -	91.0 -	46.8 a	13378 a	3377 abc	16755 a
5	Normal Cut	120	Ratoon PF	105.0 -	91.0 -	47.5 a	13075 a	3503 a	16578 ab
6	Normal Cut	150	Ratoon PF	105.0 -	91.0 -	47.5 a	12874 a	3415 ab	16290 abc
7	Mowing 8"	0	Ratoon PF	105.0 -	91.0 -	47.8 a	13395 a	853 h	14248 fg
8	Mowing 8"	30	Ratoon PF	105.0 -	91.0 -	48.5 a	13336 a	1045 h	14380 fg
9	Mowing 8"	60	Ratoon PF	105.0 -	91.0 -	47.3 a	12877 a	1149 h	14025 g
10	Mowing 8"	90	Ratoon PF	105.0 -	91.0 -	48.3 a	13132 a	1951 fg	15083 def
11	Mowing 8"	120	Ratoon PF	105.0 -	91.0 -	48.3 a	13339 a	1918 fg	15257 c-f
12	Mowing 8"	150	Ratoon PF	105.0 -	91.0 -	47.5 a	13197 a	1684 g	14881 efg
13	Rolling	0	Ratoon PF	105.0 -	91.0 -	48.3 a	13202 a	1671 g	14873 efg
14	Rolling	30	Ratoon PF	105.0 -	91.0 -	47.0 a	13402 a	2272 ef	15674 b-c
15	Rolling	60	Ratoon PF	105.0 -	91.0 -	47.5 a	13427 a	2679 de	16106 a-d
16	Rolling	90	Ratoon PF	105.0 -	91.0 -	48.8 a	13511 a	3164 a-d	16675 ab
17	Rolling	120	Ratoon PF	105.0 -	91.0 -	47.3 a	12800 a	2869 cd	15669 b-e
18	Rolling	150	Ratoon PF	105.0 -	91.0 -	46.8 a	13233 a	3184 a-d	16418 ab
LSD P=.05				NA	NA	3.32	826	512	1054
Standard Deviation				0.00	0.00	2.34	581.9	360.5	742.5
CV				0.0	0.0	4.9	4.39	15.14	4.74
Treatment F				NA	NA	0.336	0.693	22.726	5.862
Treatment Prob(F)				NA	NA	0.9919	0.7952	0.0001	0.0001

Continued.

Table 86. Continued.

Crop Name				Rice Milling 12/19/2024	Rice Milling 12/19/2024	Rice Milling 12/19/2024	Rice Milling 12/19/2024
Description				Head	Total	Head	Total
Rating Date				%	%	%	%
Rating Type				Main	Main	Ratoon	Ratoon
Rating Unit							
Crop Stage							
Trt No.	Stubble Management	N Rate (lb/A)	Growth Stage				
1	Normal Cut	0	Ratoon PF	62.18 a	71.68 a	45.64 g	67.02 f
2	Normal Cut	30	Ratoon PF	62.85 a	71.96 a	48.56 fg	67.92 ef
3	Normal Cut	60	Ratoon PF	62.56 a	71.85 a	51.64 f	68.50 e
4	Normal Cut	90	Ratoon PF	63.66 a	72.54 a	57.56 e	70.09 d
5	Normal Cut	120	Ratoon PF	62.50 a	71.63 a	57.14 e	69.83 d
6	Normal Cut	150	Ratoon PF	62.92 a	71.76 a	58.35 e	70.22 d
7	Mowing 8"	0	Ratoon PF	61.63 a	71.55 a	64.69 d	73.02 c
8	Mowing 8"	30	Ratoon PF	62.85 a	71.88 a	67.20 bcd	74.21 abc
9	Mowing 8"	60	Ratoon PF	62.92 a	71.96 a	67.22 bcd	74.32 ab
10	Mowing 8"	90	Ratoon PF	63.93 a	72.43 a	69.56 abc	75.05 a
11	Mowing 8"	120	Ratoon PF	61.56 a	71.24 a	69.19 abc	74.77 ab
12	Mowing 8"	150	Ratoon PF	62.51 a	71.29 a	69.46 abc	74.66 ab
13	Rolling	0	Ratoon PF	62.95 a	72.13 a	65.32 d	73.67 bc
14	Rolling	30	Ratoon PF	62.63 a	71.56 a	66.77 cd	74.29 ab
15	Rolling	60	Ratoon PF	61.25 a	70.92 a	70.49 a	75.10 a
16	Rolling	90	Ratoon PF	62.54 a	71.56 a	70.33 ab	75.02 a
17	Rolling	120	Ratoon PF	62.08 a	71.30 a	70.00 ab	74.64 ab
18	Rolling	150	Ratoon PF	62.13 a	71.32 a	71.12 a	74.81 a
LSD P=.05				1.663	0.959	3.171	1.118
Standard Deviation				1.172	0.675	2.232	0.786
CV				1.87	0.94	3.53	1.08
Treatment F				1.339	1.535	53.167	51.488
Treatment Prob(F)				0.2077	0.1199	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Table 87. Two-way table for the evaluation of cultural practices and ratoon nitrogen rates on yield and milling quality of RT7421 FP when 135 lb N/A were applied preflood in main crop. HRC Rice Research Station, 2024.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice
Description		Plant - HD	Emer - HD	Tip of Panicle			
Rating Date				7/30/2024	7/30/2024	10/30/2024	
Rating Type		50% HD	50% HD	Height	Yield	Yield	Yield
Rating Unit		days	days	In	lb/A	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Ratoon	MC + RC
TABLE OF A (Cultural practice) MEANS							
1	Normal Cut	105.0 -	91.0 -	47.8 a	13333 a	3068 a	16401 a
2	Mowing 8"	105.0 -	91.0 -	47.9 a	13212 a	1433 c	14646 c
3	Rolling	105.0 -	91.0 -	47.6 a	13263 a	2640 b	15903 b
<i>P</i>		NA	NA	0.9	0.7724	0.0001	0.0001
LSD <i>P</i> =.05		NA	NA	1.36	337.3	208.9	430.3
TABLE OF B (Fertilizer rate) MEANS							
1	0 N - Ratoon	105.0 -	91.0 -	48.3 a	13366 a	1596 c	14962 c
2	30 N - Ratoon	105.0 -	91.0 -	48.0 a	13462 a	2087 b	15549 bc
3	60 N - Ratoon	105.0 -	91.0 -	47.4 a	13276 a	2244 b	15520 bc
4	90 N - Ratoon	105.0 -	91.0 -	47.9 a	13340 a	2831 a	16171 a
5	120 N - Ratoon	105.0 -	91.0 -	47.7 a	13071 a	2764 a	15835 ab
6	150 N - Ratoon	105.0 -	91.0 -	47.3 a	13101 a	2761 a	15863 ab
<i>P</i>		NA	NA	0.9	0.5262	0.0001	0.0061
LSD <i>P</i> =.05		NA	NA	1.92	477.0	295.5	608.6

Continued.

Table 87. Continued.

Crop Name		Rice	Rice	Rice	Rice
Description		Milling	Milling	Milling	Milling
Rating Date		12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type		Head	Total	Head	Total
Rating Unit		%	%	%	%
Crop Stage		Main	Main	Ratoon	Ratoon
TABLE OF A (Cultural practice) MEANS					
1	Normal Cut	62.78 a	71.90 a	53.15 b	68.93 b
2	Mowing 8"	62.56 a	71.72 a	67.89 a	74.34 a
3	Rolling	62.26 a	71.47 a	69.00 a	74.59 a
<i>P</i>		0.3191	0.0883	0.0001	0.0001
LSD P=.05		0.6791	0.3914	1.2688	0.4552
TABLE OF B (Fertilizer rate) MEANS					
1	0 N - Ratoon	62.25 a	71.79 a	58.55 d	71.24 d
2	30 N - Ratoon	62.78 a	71.80 a	60.84 c	72.14 c
3	60 N - Ratoon	62.24 a	71.58 a	63.12 b	72.64 bc
4	90 N - Ratoon	63.38 a	72.17 a	65.82 a	73.38 a
5	120 N - Ratoon	62.05 a	71.39 a	65.44 a	73.08 ab
6	150 N - Ratoon	62.52 a	71.46 a	66.31 a	73.23 ab
<i>P</i>		0.0864	0.0713	0.0001	0.0001
LSD P=.05		0.9604	0.5535	1.7944	0.6437

Continued.

Table 87. Continued.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage	Rice Plant - HD	Rice Emer - HD	Rice Tip of Panicle 7/30/2024 Height In Main	Rice 7/30/24 Yield lb/A Main	Rice 10/30/24 Yield lb/A Ratoon	Rice Yield lb/A MC + RC
TABLE OF A x B MEANS						
1 Normal Cut	105.0 -	91.0 -	49.0 a	13500 a	2264 a	15764 a
1 0 N - Ratoon						
2 Mowing 8"	105.0 -	91.0 -	47.8 a	13395 a	853 a	14248 a
1 0 N - Ratoon						
3 Rolling	105.0 -	91.0 -	48.3 a	13202 a	1671 a	14873 a
1 0 N - Ratoon						
1 Normal Cut	105.0 -	91.0 -	48.5 a	13647 a	2944 a	16591 a
2 30 N - Ratoon						
2 Mowing 8"	105.0 -	91.0 -	48.5 a	13336 a	1045 a	14380 a
2 30 N - Ratoon						
3 Rolling	105.0 -	91.0 -	47.0 a	13402 a	2272 a	15674 a
2 30 N - Ratoon						
1 Normal Cut	105.0 -	91.0 -	47.5 a	13523 a	2905 a	16428 a
3 60 N - Ratoon						
2 Mowing 8"	105.0 -	91.0 -	47.3 a	12877 a	1149 a	14025 a
3 60 N - Ratoon						
3 Rolling	105.0 -	91.0 -	47.5 a	13427 a	2679 a	16106 a
3 60 N - Ratoon						
1 Normal Cut	105.0 -	91.0 -	46.8 a	13378 a	3377 a	16755 a
4 90 N - Ratoon						
2 Mowing 8"	105.0 -	91.0 -	48.3 a	13132 a	1951 a	15083 a
4 90 N - Ratoon						
3 Rolling	105.0 -	91.0 -	48.8 a	13511 a	3164 a	16675 a
4 90 N - Ratoon						
1 Normal Cut	105.0 -	91.0 -	47.5 a	13075 a	3503 a	16578 a
5 120 N - Ratoon						
2 Mowing 8"	105.0 -	91.0 -	48.3 a	13339 a	1918 a	15257 a
5 120 N - Ratoon						
3 Rolling	105.0 -	91.0 -	47.3 a	12800 a	2869 a	15669 a
5 120 N - Ratoon						
1 Normal Cut	105.0 -	91.0 -	47.5 a	12874 a	3415 a	16290 a
6 150 N - Ratoon						
2 Mowing 8"	105.0 -	91.0 -	47.5 a	13197 a	1684 a	14881 a
6 150 N - Ratoon						
3 Rolling	105.0 -	91.0 -	46.8 a	13233 a	3184 a	16418 a
6 150 N - Ratoon						
P	NA	NA	0.9573	0.716	0.5618	0.4667
LSD P=.05	NA	NA	3.32	826.1	511.8	1054.0
Standard Deviation	0.00	0.00	2.34	581.9	360.5	742.5
CV	0.00	0.00	4.90	4.4	15.1	4.7

Continued.

Table 87. Continued.

Crop Name	Rice	Rice	Rice	Rice
Description	Milling	Milling	Milling	Milling
Rating Date	12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type	Head	Total	Head	Total
Rating Unit	%	%	%	%
Crop Stage	Main	Main	Ratoon	Ratoon
TABLE OF A x B MEANS				
1 Normal Cut	62.18 a	71.68 a	45.64 g	67.02 a
1 0 N - Ratoon				
2 Mowing 8"	61.63 a	71.55 a	64.69 d	73.02 a
1 0 N - Ratoon				
3 Rolling	62.95 a	72.13 a	65.32 d	73.67 a
1 0 N - Ratoon				
1 Normal Cut	62.85 a	71.96 a	48.56 fg	67.92 a
2 30 N - Ratoon				
2 Mowing 8"	62.85 a	71.88 a	67.20 bcd	74.21 a
2 30 N - Ratoon				
3 Rolling	62.63 a	71.56 a	66.77 cd	74.29 a
2 30 N - Ratoon				
1 Normal Cut	62.56 a	71.85 a	51.64 f	68.50 a
3 60 N - Ratoon				
2 Mowing 8"	62.92 a	71.96 a	67.22 bcd	74.32 a
3 60 N - Ratoon				
3 Rolling	61.25 a	70.92 a	70.49 ab	75.10 a
3 60 N - Ratoon				
1 Normal Cut	63.66 a	72.54 a	57.56 e	70.09 a
4 90 N - Ratoon				
2 Mowing 8"	63.93 a	72.43 a	69.56 abc	75.05 a
4 90 N - Ratoon				
3 Rolling	62.54 a	71.56 a	70.33 ab	75.02 a
4 90 N - Ratoon				
1 Normal Cut	62.50 a	71.63 a	57.14 e	69.83 a
5 120 N - Ratoon				
2 Mowing 8"	61.56 a	71.24 a	69.19 abc	74.77 a
5 120 N - Ratoon				
3 Rolling	62.08 a	71.30 a	70.00 ab	74.64 a
5 120 N - Ratoon				
1 Normal Cut	62.92 a	71.76 a	58.35 e	70.22 a
6 150 N - Ratoon				
2 Mowing 8"	62.51 a	71.29 a	69.46 abc	74.66 a
6 150 N - Ratoon				
3 Rolling	62.13 a	71.32 a	71.12 a	74.81 a
6 150 N - Ratoon				
<i>P</i>	0.4431	0.446	0.0012	0.0422
LSD <i>P</i> =.05	1.6634	0.9587	3.1080	1.1149
Standard Deviation	1.1718	0.6753	2.1872	0.7846
CV	1.8738	0.9419	3.4528	1.0805

Means followed by the same letter or symbol do not significantly differ (*P*=0.05, LSD).

**Evaluation of Cultural Practices and Ratoon Nitrogen Rates and Timing on Yield and Grain Quality of
RT7421 FP with 105/45 (PF/10%HD) lb N/A in Main Crop**

Experiment number	24-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	1.24
pH	6.86
Extractable nutrients (ppm)	Ca-1573; Cu-1.5; Mg-286; P-18.0; K-59.3; Na-119; S-7.5; Zn-8.3
Crop/Variety	Rice / RT7421 FP
Planting method/date	Drill seeded / March 12
Seeding rate/depth	10 seed/ft ² / 1.5 inch
Emergence date	March 26
Harvest date	August 2
Ratoon Harvest date	Normal stubble - October 30 Bush hog and Rolled stubble – November 15
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 13 105 lb N/A 46-0-0, May 13 (PF) 45 lb N/A 46-0-0, June 24 (10%HD)
Water management	Underground irrigation
Flush	By Rainfall
Flood	May 14
Drain	July 18
Ratoon flood	August 13
Ratoon drain	October 16
Pest management	
Herbicides	1 qt/A Glyphosate + 1 pt/A 2,4-D + 2 oz/A Panther, November 28 1.5 qt/A Glyphosate + .8 oz/A Firstshot, February 21 1 qt/A Glyphosate + 8 oz/A Command + 1 oz/A Gambit + 4.8 oz/A Surfactant, March 14 4 qt/A Propanil + 1.5 oz/A Gambit, May 9
Insecticides	None
Fungicides	15 oz/A Amistar Top, June 26

Table 88. Evaluation of cultural practices and ratoon nitrogen rates and timing on yield and milling quality of RT7421 FP with 105/45 (PF/10%HD) lb N/A in main crop. HRC Rice Research Station, 2024.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage				Rice Plant - HD	Rice Emer - HD	Rice Tip of Panicle 7/30/2024	Rice 7/30/2024	Rice 10/30/2024	Rice
				50% HD days Main	50% HD days Main	Height In Main	Yield lb/A Main	Yield lb/A Ratoon	Yield lb/A MC + RC
Trt No.	Stubble Management	N Rate (lb/A)	Growth Stage						
1	Normal Cut	30	At harvest	105.0 -	91.0 -	47.3 a	13062 a	2787 bc	15848 ab
2	Normal Cut	30	Ratoon - PF	105.0 -	91.0 -	46.3 a	12722 a	2692 bcd	15415 ab
3	Normal Cut	90	At harvest	105.0 -	91.0 -	47.3 a	13098 a	3545 a	16643 ab
4	Normal Cut	90	Ratoon - PF	105.0 -	91.0 -	46.8 a	12690 a	3242 ab	15932 ab
5	Normal Cut	150	At harvest	105.0 -	91.0 -	47.0 a	13258 a	3366 a	16624 ab
6	Normal Cut	150	Ratoon - PF	105.0 -	91.0 -	49.0 a	13920 a	3414 a	17333 a
7	Mowing 8"	30	At harvest	105.0 -	91.0 -	47.8 a	13229 a	1446 ghi	14675 bc
8	Mowing 8"	30	Ratoon - PF	105.0 -	91.0 -	48.8 a	13306 a	1253 hi	14559 bc
9	Mowing 8"	90	At harvest	105.0 -	91.0 -	46.5 a	12956 a	1750 fgh	14705 bc
10	Mowing 8"	90	Ratoon - PF	105.0 -	91.0 -	47.0 a	11944 a	1453 ghi	13398 c
11	Mowing 8"	150	At harvest	105.0 -	91.0 -	46.0 a	12033 a	1131 i	13164 c
12	Mowing 8"	150	Ratoon - PF	105.0 -	91.0 -	46.3 a	13074 a	1744 fgh	14818 bc
13	Rolling	30	At harvest	105.0 -	91.0 -	46.5 a	12579 a	1927 efg	14506 bc
14	Rolling	30	Ratoon - PF	105.0 -	91.0 -	47.3 a	13243 a	1456 ghi	14751 bc
15	Rolling	90	At harvest	105.0 -	91.0 -	45.8 a	13791 a	2144 def	15935 ab
16	Rolling	90	Ratoon - PF	105.0 -	91.0 -	46.3 a	11270 a	2050 ef	13317 c
17	Rolling	150	At harvest	105.0 -	91.0 -	46.5 a	13121 a	2662 cd	15782 ab
18	Rolling	150	Ratoon - PF	105.0 -	91.0 -	47.3 a	13485 a	2414 cde	15899 ab
LSD P=.05				NA	NA	2.94	1692.6	575.2	2012.0
Standard Deviation				0.00	0.00	2.07	1191.1	405.2	1415.9
CV				0.0	0.0	4.42	9.2	18.02	9.3
Treatment F				NA	NA	0.706	1.106	15.426	2.666
Treatment Prob(F)				NA	NA	0.7820	0.3750	0.0001	0.0038

Continued.

Table 88. Continued.

Crop Name				Rice	Rice	Rice	Rice
Description				Milling	Milling	Milling	Milling
Rating Date				12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type				Head	Total	Head	Total
Rating Unit				%	%	%	%
Crop Stage				Main	Main	Ratoon	Ratoon
Trt	Stubble	N Rate	Growth				
No.	Management	(lb/A)	Stage				
1	Normal Cut	30	At harvest	58.14 a	69.08 a	47.34 e	67.53 c
2	Normal Cut	30	Ratoon - PF	57.87 a	68.83 abc	50.24 e	68.41 c
3	Normal Cut	90	At harvest	57.52 a	68.79 a-d	58.21 d	70.35 b
4	Normal Cut	90	Ratoon - PF	59.26 a	69.08 a	57.96 d	70.07 b
5	Normal Cut	150	At harvest	57.57 a	68.49 a-e	60.45 d	70.68 b
6	Normal Cut	150	Ratoon - PF	58.54 a	68.92 ab	59.63 d	70.57 b
7	Mowing 8"	30	At harvest	56.72 a	68.24 b-e	66.04 c	73.07 a
8	Mowing 8"	30	Ratoon - PF	57.69 a	68.49 a-e	67.40 bc	73.55 a
9	Mowing 8"	90	At harvest	57.21 a	67.87 ef	69.62 ab	74.13 a
10	Mowing 8"	90	Ratoon - PF	58.38 a	68.80 a-d	68.55 abc	73.46 a
11	Mowing 8"	150	At harvest	57.99 a	67.93 ef	69.14 ab	73.67 a
12	Mowing 8"	150	Ratoon - PF	58.49 a	68.78 a-d	69.26 ab	73.73 a
13	Rolling	30	At harvest	57.27 a	68.68 a-d	67.21 bc	73.59 a
14	Rolling	30	Ratoon - PF	56.36 a	68.14 cde	68.79 abc	73.86 a
15	Rolling	90	At harvest	56.75 a	68.42 a-e	69.83 ab	74.10 a
16	Rolling	90	Ratoon - PF	55.56 a	67.44 f	69.94 ab	73.82 a
17	Rolling	150	At harvest	57.30 a	68.37 b-e	69.98 ab	73.90 a
18	Rolling	150	Ratoon - PF	56.84 a	68.11 def	70.86 a	74.18 a
LSD P=.05				1.9626	0.6968	2.9100	1.2149
Standard Deviation				1.3825	0.4909	2.0457	0.8540
CV				2.4	0.72	3.18	1.18
Treatment F				1.675	3.365	48.208	24.997
Treatment Prob(F)				0.0794	0.0004	0.0001	0.0001

Means followed by the same letter or symbol do not significantly differ (P=0.05, LSD).

Table 89. Two-way table for the evaluation of cultural practices and ratoon nitrogen rates and timing on yield and milling quality of RT7421 FP with 105/45 (PF/10%HD) lb N/A in main crop. HRC Rice Research Station, 2024.

Crop Name		Rice	Rice	Rice	Rice	Rice	Rice
Description		Plant - HD	Emer - HD	Tip of Panicle			
Rating Date				7/30/2024	7/30/2024	10/30/2024	
Rating Type		50% HD	50% HD	Height	Yield	Yield	Yield
Rating Unit		days	days	In	lb/A	lb/A	lb/A
Crop Stage		Main	Main	Main	Main	Ratoon	MC + RC
TABLE OF A (Cultural) MEANS							
1	Normal Cut	105.0 -	91.0 -	47.3 a	13125 a	3174 a	16299 a
2	Mowing 8"	105.0 -	91.0 -	47.0 a	12757 a	1463 c	14220 b
3	Rolling	105.0 -	91.0 -	46.6 a	12915 a	2109 b	15032 b
<i>P</i>		NA	NA	0.5	0.5634	0.0001	0.0001
LSD <i>P</i> =.05		NA	NA	1.20	691.0	234.8	821.4
TABLE OF B (Fertilizer) MEANS							
1	0 N - Ratoon	105.0 -	91.0 -	47.3 a	13024 a	1927 b	14959 a
2	90 N - Ratoon	105.0 -	91.0 -	46.6 a	12625 a	2364 a	14988 a
3	150 N - Ratoon	105.0 -	91.0 -	47.0 a	13148 a	2455 a	15603 a
<i>P</i>		NA	NA	0.5	0.4019	0.0001	0.2591
LSD <i>P</i> =.05		NA	NA	1.20	691.0	234.8	821.4
TABLE OF C (Timing) MEANS							
1	At Harvest	105.0 -	91.0 -	46.7 a	13014 a	2306 a	15320 a
2	Ratoon - PF	105.0 -	91.0 -	47.2 a	12850 a	2191 a	15047 a
<i>P</i>		NA	NA	0.3	0.649	0.232	0.505
LSD <i>P</i> =.05		NA	NA	0.98	564	192	671

Continued.

Table 89. Continued.

Crop Name		Rice	Rice	Rice	Rice
Description		Milling	Milling	Milling	Milling
Rating Date		12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type		Head	Total	Head	Total
Rating Unit		%	%	%	%
Crop Stage		Main	Main	Ratoon	Ratoon
TABLE OF A (Cultural) MEANS					
1	Normal Cut	58.15 a	68.87 a	55.64 b	69.60 b
2	Mowing 8"	57.75 a	68.35 b	68.33 a	73.60 a
3	Rolling	56.68 b	68.19 b	69.44 a	73.91 a
<i>P</i>		0.0017	0.0001	0.0001	0.0001
LSD P=.05		0.8012	0.2845	1.188	0.496
TABLE OF B (Fertilizer) MEANS					
1	0 N - Ratoon	57.34 a	68.58 a	61.17 b	71.67 b
2	90 N - Ratoon	57.44 a	68.40 a	65.69 a	72.65 a
3	150 N - Ratoon	57.79 a	68.43 a	66.55 a	72.79 a
<i>P</i>		0.51	0.42	0.00	0.00
LSD P=.05		0.8012	0.2845	1.1880	0.4960
TABLE OF C (Timing) MEANS					
1	At Harvest	57.39 a	68.43 a	64.20 a	72.34 a
2	Ratoon - PF	57.66 a	68.51 a	64.74 a	72.41 a
<i>P</i>		0.40	0.49	0.28	0.71
LSD P=.05		0.654	0.232	0.970	0.405

Continued.

Table 89. Continued.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage	Rice Plant - HD	Rice Emer - HD	Rice Tip of Panicle 7/30/2024 Height In Main	Rice 7/30/2024 Yield lb/A Main	Rice 10/30/2024 Yield lb/A Ratoon	Rice Yield lb/A MC + RC
TABLE OF A x B MEANS						
1 Normal Cut	105.0 -	91.0 -	46.8 a	12892 a	2739 a	15631 a
1 30 N - Ratoon						
2 Mowing 8"	105.0 -	91.0 -	48.3 a	13268 a	1349 a	14617 a
1 30 N - Ratoon						
3 Rolling	105.0 -	91.0 -	46.9 a	12911 a	1691 a	14629 a
1 30 N - Ratoon						
1 Normal Cut	105.0 -	91.0 -	47.0 a	12894 a	3394 a	16287 a
2 90 N - Ratoon						
2 Mowing 8"	105.0 -	91.0 -	46.8 a	12450 a	1602 a	14052 a
2 90 N - Ratoon						
3 Rolling	105.0 -	91.0 -	46.0 a	12530 a	2097 a	14626 a
2 90 N - Ratoon						
1 Normal Cut	105.0 -	91.0 -	48.0 a	13589 a	3390 a	16978 a
3 150 N - Ratoon						
2 Mowing 8"	105.0 -	91.0 -	46.1 a	12553 a	1437 a	13991 a
3 150 N - Ratoon						
3 Rolling	105.0 -	91.0 -	46.9 a	13303 a	2538 a	15841 a
3 150 N - Ratoon						
<i>P</i>	NA	NA	0.247	0.531	0.063	0.294
LSD <i>P</i> =.05	NA	NA	2.08	1197	407	1423

Continued.

Table 89. Continued.

Crop Name	Rice	Rice	Rice	Rice
Description	Milling	Milling	Milling	Milling
Rating Date	12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type	Head	Total	Head	Total
Rating Unit	%	%	%	%
Crop Stage	Main	Main	Ratoon	Ratoon
TABLE OF A x B MEANS				
1 Normal Cut	58.00 a	68.96 a	48.79 e	67.97 c
1 30 N - Ratoon				
2 Mowing 8"	57.20 a	68.37 a	66.72 c	73.31 a
1 30 N - Ratoon				
3 Rolling	56.82 a	68.41 a	68.00 bc	73.73 a
1 30 N - Ratoon				
1 Normal Cut	58.39 a	68.94 a	58.09 d	70.21 b
2 90 N - Ratoon				
2 Mowing 8"	57.79 a	68.33 a	69.09 ab	73.79 a
2 90 N - Ratoon				
3 Rolling	56.15 a	67.93 a	69.89 ab	73.96 a
2 90 N - Ratoon				
1 Normal Cut	58.05 a	68.71 a	60.04 d	70.63 b
3 150 N - Ratoon				
2 Mowing 8"	58.24 a	68.36 a	69.20 ab	73.70 a
3 150 N - Ratoon				
3 Rolling	57.07 a	68.24 a	70.42 a	74.04 a
3 150 N - Ratoon				
<i>P</i>	0.539	0.495	0.0001	0.0012
LSD <i>P</i> =.05	1.388	0.493	2.058	0.859

Continued.

Table 89. Continued.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage	Rice Plant - HD 50% HD days Main	Rice Emer - HD 50% HD days Main	Rice Tip of Panicle 7/30/2024 Height In Main	Rice 7/30/2024 Yield lb/A Main	Rice 10/30/2024 Yield lb/A Ratoon	Rice Yield lb/A MC + RC
TABLE OF A x C MEANS						
1 Normal Cut	105.0 -	91.0 -	47.2 a	13139 a	3233 a	16372 a
1 At Harvest						
2 Mowing 8"	105.0 -	91.0 -	46.8 a	12739 a	1442 a	14181 a
1 At Harvest						
3 Rolling	105.0 -	91.0 -	46.3 a	13164 a	2244 a	15408 a
1 At Harvest						
1 Normal Cut	105.0 -	91.0 -	47.3 a	13111 a	3116 a	16226 a
2 Ratoon – PF						
2 Mowing 8"	105.0 -	91.0 -	47.3 a	12775 a	1483 a	14258 a
2 Ratoon – PF						
3 Rolling	105.0 -	91.0 -	46.9 a	12666 a	1973 a	14656 a
2 Ratoon – PF						
<i>P</i>	NA	NA	0.9049	0.765	0.416	0.641
LSD <i>P</i> =.05	NA	NA	1.70	977	332	1162
TABLE of B x C MEANS						
1 30 N - Ratoon	105.0 -	91.0 -	47.2 a	12957 ab	2053 a	15010 ab
1 At Harvest						
2 90 N - Ratoon	105.0 -	91.0 -	46.5 a	13282 a	2480 a	15761 a
1 At Harvest						
3 150 N - Ratoon	105.0 -	91.0 -	46.5 a	12804 ab	2386 a	15190 ab
1 At Harvest						
1 30 N - Ratoon	105.0 -	91.0 -	47.4 a	13091 a	1800 a	14908 ab
2 Ratoon - PF						
2 90 N - Ratoon	105.0 -	91.0 -	46.7 a	11968 b	2248 a	14215 b
2 Ratoon - PF						
3 150 N - Ratoon	105.0 -	91.0 -	47.5 a	13493 a	2524 a	16017 a
2 Ratoon - PF						
<i>P</i>	NA	NA	0.747	0.022	0.182	0.024
LSD <i>P</i> =.05	NA	NA	1.70	977	332	1162

Continued.

Table 89. Continued.

Crop Name	Rice	Rice	Rice	Rice
Description	Milling	Milling	Milling	Milling
Rating Date	12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type	Head	Total	Head	Total
Rating Unit	%	%	%	%
Crop Stage	Main	Main	Ratoon	Ratoon
TABLE OF A x C MEANS				
1 Normal Cut	57.74 a	68.79 ab	55.33 a	69.52 a
1 At Harvest				
2 Mowing 8"	57.31 a	68.02 c	68.27 a	73.62 a
1 At Harvest				
3 Rolling	57.11 a	68.49 b	69.01 a	73.86 a
1 At Harvest				
1 Normal Cut	58.55 a	68.95 a	55.94 a	69.68 a
2 Ratoon – PF				
2 Mowing 8"	58.18 a	68.69 ab	68.40 a	73.58 a
2 Ratoon – PF				
3 Rolling	56.25 a	67.90 c	69.86 a	73.95 a
2 Ratoon – PF				
<i>P</i>	0.057	0.0002	0.860	0.938
LSD <i>P</i> =.05	1.133	0.402	1.680	0.701
TABLE of B x C MEANS				
1 30 N - Ratoon	57.38 a	68.67 a	60.20 a	71.40 a
1 At Harvest				
2 90 N - Ratoon	57.16 a	68.36 a	65.89 a	72.86 a
1 At Harvest				
3 150 N - Ratoon	57.62 a	68.26 a	66.52 a	72.75 a
1 At Harvest				
1 30 N - Ratoon	57.30 a	68.49 a	62.14 a	71.94 a
2 Ratoon - PF				
2 90 N - Ratoon	57.73 a	68.44 a	65.48 a	72.45 a
2 Ratoon - PF				
3 150 N - Ratoon	57.96 a	68.61 a	66.58 a	72.83 a
2 Ratoon - PF				
<i>P</i>	0.715	0.196	0.125	0.185
LSD <i>P</i> =.05	1.133	0.402	1.680	0.701
Continued.				

Table 89. Continued.

Crop Name Description Rating Date Rating Type Rating Unit Crop Stage	Rice Plant - HD 50% HD days Main	Rice Emer - HD 50% HD days Main	Rice Tip of Panicle 7/30/2024 Height In Main	Rice 7/30/24 Yield lb/A Main	Rice 10/30/24 Yield lb/A Ratoon
TABLE OF A x B x C MEANS					
1 Normal Cut	105.0 -	91.0 -	47.3 a	13062 a	2787 a
1 30 N - Harvest					
2 Mowing 8"	105.0 -	91.0 -	47.8 a	13229 a	1446 a
1 30 N - Harvest					
3 Rolling	105.0 -	91.0 -	46.5 a	12579 a	1927 a
1 30 N - Harvest					
1 Normal Cut	105.0 -	91.0 -	47.3 a	13098 a	3545 a
2 90 N - Harvest					
2 Mowing 8"	105.0 -	91.0 -	46.5 a	12956 a	1750 a
2 90 N - Harvest					
3 Rolling	105.0 -	91.0 -	45.8 a	13791 a	2144 a
2 90 N - Harvest					
1 Normal Cut	105.0 -	91.0 -	47.0 a	13258 a	3366 a
3 150 N - Harvest					
2 Mowing 8"	105.0 -	91.0 -	46.0 a	12033 a	1131 a
3 150 N - Harvest					
3 Rolling	105.0 -	91.0 -	46.5 a	13121 a	2662 a
3 150 N - Harvest					
1 Normal Cut	105.0 -	91.0 -	46.3 a	12722 a	2692 a
1 30 N - Ratoon PF					
2 Mowing 8"	105.0 -	91.0 -	48.8 a	13306 a	1253 a
1 30 N - Ratoon PF					
3 Rolling	105.0 -	91.0 -	47.3 a	13243 a	1456 a
1 30 N - Ratoon PF					
1 Normal Cut	105.0 -	91.0 -	46.8 a	12690 a	3242 a
2 90 N - Ratoon PF					
2 Mowing 8"	105.0 -	91.0 -	47.0 a	11944 a	1453 a
2 90 N - Ratoon PF					
3 Rolling	105.0 -	91.0 -	46.3 a	11270 a	2050 a
2 90 N - Ratoon PF					
1 Normal Cut	105.0 -	91.0 -	49.0 a	13920 a	3414 a
3 150 N - Ratoon PF					
2 Mowing 8"	105.0 -	91.0 -	46.3 a	13074 a	1744 a
3 150 N - Ratoon PF					
3 Rolling	105.0 -	91.0 -	47.3 a	13485 a	2414 a
3 150 N - Ratoon PF					
<i>P</i>	NA	NA	0.741	0.509	0.397
LSD <i>P</i> =.05	NA	NA	2.94	1693	575
Standard Deviation	0.00	0.00	2.07	1191	405
CV	0.00	0.00	4.42	9.2	18.0

Continued.

Table 89. Continued.

Crop Name	Rice	Rice	Rice	Rice	Rice
Description		Milling	Milling	Milling	Milling
Rating Date		12/19/2024	12/19/2024	12/19/2024	12/19/2024
Rating Type	Yield	Head	Total	Head	Total
Rating Unit	lb/A	%	%	%	%
Crop Stage	MC + RC	Main	Main	Ratoon	Ratoon
TABLE OF A x B x C MEANS					
1 Normal Cut	15848 a	58.14 a	69.08 a	47.34 a	67.53 a
1 30 N - Harvest					
2 Mowing 8"	14675 a	56.72 a	68.24 a	66.04 a	73.07 a
1 30 N - Harvest					
3 Rolling	14506 a	57.27 a	68.68 a	67.21 a	73.59 a
1 30 N - Harvest					
1 Normal Cut	16643 a	57.52 a	68.79 a	58.21 a	70.35 a
2 90 N - Harvest					
2 Mowing 8"	14705 a	57.21 a	67.87 a	69.62 a	74.13 a
2 90 N - Harvest					
3 Rolling	15935 a	56.75 a	68.42 a	69.83 a	74.10 a
2 90 N - Harvest					
1 Normal Cut	16624 a	57.57 a	68.49 a	60.45 a	70.68 a
3 150 N - Harvest					
2 Mowing 8"	13164 a	57.99 a	67.93 a	69.14 a	73.67 a
3 150 N - Harvest					
3 Rolling	15782 a	57.30 a	68.37 a	69.98 a	73.90 a
3 150 N - Harvest					
1 Normal Cut	15415 a	57.87 a	68.83 a	50.24 a	68.41 a
1 30 N - Ratoon PF					
2 Mowing 8"	14559 a	57.69 a	68.49 a	67.40 a	73.55 a
1 30 N - Ratoon PF					
3 Rolling	14751 a	56.36 a	68.14 a	68.79 a	73.86 a
1 30 N - Ratoon PF					
1 Normal Cut	15932 a	59.26 a	69.08 a	57.96 a	70.07 a
2 90 N - Ratoon PF					
2 Mowing 8"	13398 a	58.38 a	68.80 a	68.55 a	73.46 a
2 90 N - Ratoon PF					
3 Rolling	13317 a	55.56 a	67.44 a	69.94 a	73.82 a
2 90 N - Ratoon PF					
1 Normal Cut	17333 a	58.54 a	68.92 a	59.63 a	70.57 a
3 150 N - Ratoon PF					
2 Mowing 8"	14818 a	58.49 a	68.78 a	69.26 a	73.73 a
3 150 N - Ratoon PF					
3 Rolling	15899 a	56.84 a	68.11 a	70.86 a	74.18 a
3 150 N - Ratoon PF					
<i>P</i>	0.723	0.729	0.521	0.864	0.935
LSD <i>P</i> =.05	2012	1.963	0.697	2.910	1.215
Standard Deviation	1416	1.383	0.491	2.046	0.854
CV	9.3	2.4033	0.7169	3.1732	1.1801

Means followed by the same letter or symbol do not significantly differ (*P*=0.05, LSD).

ROTATIONAL CROP RESEARCH

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

Soybean date of planting (DOP) trials was evaluated for two different combination factors: DOP vs seeding rate and DOP vs maturity group. Six planting dates were targeted for both trials. Due to weather conditions, only four planting dates (April 5, May 10, June 10, and July 1) were completed. In addition, severe drought during the reproductive stages from R4 to R7, most pods fell off at about R5 stage. Soybean strip trials were conducted at this location. It was planted on June 16 with the seeding rate of 130,000 seeds per acre. These trials were also severely impacted by drought. Yield from all trials was not included in this report.

Soybean variety trials included Group 3.0-4.4 (14 varieties), Group 4.5-4.7 (28 varieties), Group 4.8-4.9 (27 varieties), Group 5.0-5.3 (12 varieties), and Group 5.4 + (10 varieties). The data is not included in this text; however, the average yield from the entire State can be found in the 2024 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.

Wheat varietal and experimental lines are evaluated annually. Wheat plots were planted on November 8, 2023, and harvested on May 9, 2024. The plot size was 4.67 x 16 ft (7-row plot). Thirty-six entries were included in the trial. The results from the Crowley site (South Farm unit) can be found in the 2023 Small Grain Performance Trials publication (LSU AgCenter publication number 206) which can be found online at www.lsuagcenter.com. The average wheat yield in 2023 was 76.7 bu/A. The top three yielding varieties at the Crowley location were GA151313-20E48 (94.8 bu/A), PROGENY #CHAD (93.0 bu/A), and AGS 2055 (91.8 bu/A).

Grain sorghum hybrids are evaluated annually for their yield response. In 2024, grain sorghum plots were planted on April 12, and harvested on July 31 with the seed rate of 80,000 seeds / acre. The results from 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. Eighteen entries were evaluated in 2024. Due to disease pressure and bird damage, the average yield (53.5 bu/A) was lower than the previous year. The top three highest yielding at the Crowley location in 2024 were 83P38, BH 4041, and DKS 44-07 with yields of 60.2, 59.3, and 58.3 bu/A, respectively.

RICE WEED MANAGEMENT

L. Connor Webster, S. Ben Stoker, Maranda P. Arcement, Wesley B. Carr, Gavin R. Sparks, Eve M. Williams,
Caden Benoit, Dustin Zaunbrecher

INTRODUCTION

Evaluation of a Novel Herbicide, Tetflupyrolimet. Tetflupyrolimet belongs to a new mode of action and will be the first new ai of a new mode of action in over three decades. Tetflupyrolimet is a preemergence grass residual herbicide that controls barnyardgrass and Amazon sprangletop, with little to no crop injury. Studies were conducted to evaluate tetflupyrolimet across multiple water management systems including a delayed flood, water-seeded pinpoint flood, and row rice. 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. Tetflupyrolimet was also evaluated on cut ground in 2024 and no crop response was observed. Two on-farm trials were conducted in 2024 to evaluate tetflupyrolimet activity on Neally's sprangletop. Data not shown in this report.

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 PVL03, PVL04, and 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 two Provisia programs applied consisted of 15.5 fl oz/A followed by 15.5 fl oz/A and 31 fl oz/A followed by 31 fl oz/A. These trials are conducted yearly as the breeding project makes decisions to begin moving forward with specific lines. These trials not only assist the breeding program in making decisions on which lines to move forward with but also helps us to understand injury patterns across multiple environments.

Simulated Newpath/Preface Carryover in PVL03, Avant, and Jupiter. 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. In 2023, the rates ranged from 0 to 1 fl oz/A of Preface in 1/8th of an ounce increments. These rates did not result in yield differences compared with the nontreated plots, so the rate structure was adjusted in 2024 to 0 to 2 fl oz/A of Preface in 1/4th of an ounce increments. The goal is to determine yield potential of different varieties based on the amount of imazethapyr present in the soil.

Simulated Overcast Weather Conditions and How Overcast Weather Influences Provisia Injury. Since the release of PVL01, crop response has been an issue. In 2023, due to adverse growing conditions numerous reports of negative crop response were reported. Two studies were designed with different levels of shade cloth covering the plots to simulate different degrees of solar radiation. One study introduced shade to the plots 7 days prior to the Provisia herbicide application, the other introduced shade 7 days after application. In the 2023 season, it was observed that crop response chances increased when overcast growing conditions were present after an application. Crop response was observed for both timings of overcast growing conditions but were more prevalent after a Provisia application. These studies were repeated in 2024.

Identification and Control of Fimbristylis. Beginning in 2022, on-farm trials have been conducted in green rice fields on Hebert Farms in Abbeville, LA. The results from these on-farm research trials have made a substantial impact on rice production in south Louisiana. The information gained from these studies have been disseminated at winter production meetings and provided the vital information needed for recommendations that were made throughout the 2023 and 2024 growing seasons. Of the herbicides evaluated, 2,4-D provided the highest levels of control followed by Grandstand, Rogue, Novixid, and Regiment. Of the residual control studies conducted, Prowl and Bolero provided the highest levels of residual control of Fimbristylis.

Evaluation of Experimental Herbicides. In addition to tetflupyrolimet and GXP-70101, the project also evaluated an experimental formulation of Rinde, the ROXY traited rice production system and several generic formulations of herbicides being developed by Albaugh LLC.

Other Areas of Research in 2024. The use of Brake in Louisiana rice production. Rogue for weedy rice suppression (failed trials due to lack of weedy rice germination). Plant back following Loyant burndowns in crawfish ponds. Preflood applications for residual into ratoon crop. Burndown programs using Gambit.

LSU AgCenter
School of Plant, Environmental and Soil Sciences

2024 Evaluation of gambit and permit plus weed control applications in drill-seeded rice

Experiment number : **C24-06**
 Location : RRS-Crowley, LA
 Experimental design : RCB
 Number of reps : 4
 Plot size : 5'x17'
 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 lbs/A
 Planting date : 4/3/24
 Emergence date..... : 4/8/24
 Harvest date : 8/20/2024

Application type	Burndown	MPOST	LPOST
Date applied [mm/dd/yy]	4/5/24	5/6/24	5/15/24
Time [hh:mm-hh:mm]	11:05-11:27a	2:17-2:23p	11:42-11:50a
Air/Soil temperature [F]	73/63	85/80	83/71
Relative humidity [%]	56%	67%	55%
Wind [mph, direction]	3-5, WNW	8-10, S	4-5, NW
Weather [sunny, etc]	Sunny	Sunny	Sunny
Soil/Leaf surface moist.....	Dry/NA	Moist/dry	Moist/wet
Crop stage/Height	N/A	4lf-1til/6-9"	1-2til/8-12"
Sprayer type/MPH	BKPK/3.0	BKPK/3.0	BKPK/3.0
Nozzle type/Size*	FF/110015	FF/110015	FF/110015
Boom ht/# Noz/Spacing.....	15/5/15	15/5/15	15/5/15
GPA/PSI	15/21	15/21	15/21
Applied by	SBS	SBS	WBC

Weed Species (population) :----- (height/#leaves) -----

ALRPH (5-10m ²).....	NA	2-6"/5-12lf	3-4"/8-16lf
CYPIR (10-20m ²)	NA	1-2"/1-3lf	2-5"/1-3lf
ECHCG (30-40m ²)	NA	1-4"/2-3lf	2-4"/3-4lf

Flush Dates : 4/24/24
 Permanent Flood..... : 5/16/24

*AMFF – Air mix flat fan nozzles

Table1. Evaluation of Gambit and Permit Plus Weed Control applications in Drill-seeded Rice

Rating Date							May-14-2024	May-21-2024	Jun-3-2024
Rating Type							INJURY	INJURY	INJURY
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							RICE	RICE	RICE
Pest Code							7DAMPOST	7DALPOST	21DALPOST
Treatment Appl. Interval							1*	2*	3*
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing			
1	CHECK						0 na	0 na	0 na
	ROUNDUP	1.13	lb ai/a	30	fl oz/a	BURNDOWN			
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
2	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 na	0 na	0 na
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
3	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 na	0 na	0 na
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.074	lb ai/a	1.5	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
4	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 na	0 na	0 na
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
5	COC	1	% v/v	19.2	fl oz/a	MPOST			
	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 na	0 na	0 na
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			

Table 1 Continued.

Rating Date							May-14-2024	May-21-2024	Jun-3-2024
Rating Type							INJURY	INJURY	INJURY
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							RICE	RICE	RICE
Pest Code							7DAMPOST	7DALPOST	21DALPOST
Treatment Appl. Interval							1*	2*	3*
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing			
6	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 na	0 na	0 na
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
7	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 na	0 na	0 na
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
8	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 na	0 na	0 na
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
9	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 na	0 na	0 na
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			

Table 1 Continued.

Table 1 Continued.							May-14-2024	May-21-2024	Jun-3-2024
Rating Date							INJURY	INJURY	INJURY
Rating Type							%	%	%
Rating Unit							0, 100, -	0, 100, -	0, 100, -
Rating Min/Max/Interval									
Pest Type							RICE	RICE	RICE
Pest Code							7DAMPOST	7DALPOST	21DALPOST
Treatment Appl. Interval									
Trt	Treatment	Rate	Rate	Other	Other	Appl	1*	2*	3*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 na	0 na	0 na
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
LSD P=.05							.	.	.
Standard Deviation							0.0	0.0	0.0
CV							0.0	0.0	0.0
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.
Replicate F							NaN	NaN	NaN
Replicate Prob(F)							NaN	NaN	NaN
Treatment F							NaN	NaN	NaN
Treatment Prob(F)							NaN	NaN	NaN

Table 2. Evaluation of Gambit and Permit Plus Weed Control applications in Drill-seeded Rice

Rating Date							May-14-2024	May-21-2024	Jun-3-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CYPIR	CYPIR	CYPIR
Treatment Appl. Interval							7DAMPOST	7DALPOST	21DALPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	4*	5*	6*
1	CHECK						0 b	0 e	0 b
	ROUNDUP	1.13	lb ai/a	30	fl oz/a	BURNDOWN			
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
2	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	88 a	88 abc	84 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
3	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	88 a	89 abc	80 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.074	lb ai/a	1.5	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
4	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	90 a	94 a	86 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
5	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	87 a	91 ab	84 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			

Table 2. Continued

Rating Date							May-14-2024	May-21-2024	Jun-3-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CYPIR	CYPIR	CYPIR
Treatment Appl. Interval							7DAMPOST	7DALPOST	21DALPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	4*	5*	6*
6	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	90 a	88 abc	85 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
7	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 b	74 d	83 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN			
8	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN	0 b	81 bcd	86 a
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN			
9	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN	0 b	78 cd	80 a
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN			
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			

Table 2. Continued

							May-14-2024	May-21-2024	Jun-3-2024
							CONTROL	CONTROL	CONTROL
							%	%	%
							0, 100, -	0, 100, -	0, 100, -
							W, Weed	W, Weed	W, Weed
							CYPIR	CYPIR	CYPIR
Treatment Appl. Interval							7DAMPOST	7DALPOST	21DALPOST
Trt	Treatment		Rate	Other	Other	Appl	4*	5*	6*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
10	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 b	80 bcd	84 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
LSD P=.05							2.2	8.3	7.9
Standard Deviation							1.5	5.7	5.5
CV							3.36	7.55	7.28
Levene's F							8.544*	0.696	0.868
Levene's Prob(F)							0.00*	0.707	0.563
Shapiro-Wilk							0.8922*	0.9537	0.9824
P(Shapiro-Wilk)							0.0011*	0.1015	0.7773
Skewness							-0.252	-0.5414	0.2108
P(Skewness)							0.5195	0.1704	0.5897
Kurtosis							1.2487	-0.228	-0.6384
P(Kurtosis)							0.1083	0.7657	0.4059
Replicate F							0.464	1.785	1.806
Replicate Prob(F)							0.7099	0.1738	0.1700
Treatment F							3934.323	91.512	93.902
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 3. Evaluation of Gambit and Permit Plus Weed Control applications in Drill-seeded Rice

Rating Date							May-14-2024	May-21-2024	Jun-3-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ALRPH	ALRPH	ALRPH
Treatment Appl. Interval							7DAMPOST	7DALPOST	21DALPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	7*	8*	9*
1	CHECK						0 b	0 b	0 b
	ROUNDUP	1.13	lb ai/a	30	fl oz/a	BURNDOWN			
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
2	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	84 a	84 a	75 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
3	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	83 a	85 a	74 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.074	lb ai/a	1.5	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
4	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	80 a	89 a	78 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
5	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	83 a	88 a	78 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			

Table 3. Continued

Rating Date							May-14-2024	May-21-2024	Jun-3-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ALRPH	ALRPH	ALRPH
Treatment Appl. Interval							7DAMPOST	7DALPOST	21DALPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	7*	8*	9*
6	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	84 a	84 a	80 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
7	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 b	79 a	83 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
8	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 b	84 a	83 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
9	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 b	78 a	71 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			

Table 3. Continued

							May-14-2024	May-21-2024	Jun-3-2024
							CONTROL	CONTROL	CONTROL
							%	%	%
							0, 100, -	0, 100, -	0, 100, -
							W, Weed	W, Weed	W, Weed
							ALRPH	ALRPH	ALRPH
Treatment Appl. Interval							7DAMPOST	7DALPOST	21DALPOST
Trt	Treatment	Rate	Rate	Other	Other	Appl	7*	8*	9*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	0 b	83 a	79 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
LSD P=.05							7.0	9.7	7.8
Standard Deviation							4.8	6.7	5.4
CV							11.76	8.86	7.66
Levene's F							1.188	1.165	0.976
Levene's Prob(F)							0.338	0.352	0.479
Shapiro-Wilk							0.9329*	0.9695	0.9713
P(Shapiro-Wilk)							0.02*	0.3474	0.396
Skewness							-0.8411*	-0.1429	0.4456
P(Skewness)							0.0362*	0.7144	0.2574
Kurtosis							1.4726	-0.6844	-0.2584
P(Kurtosis)							0.0599	0.3732	0.7356
Replicate F							1.453	0.540	4.438
Replicate Prob(F)							0.2495	0.6587	0.0116
Treatment F							321.732	63.931	85.881
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 4. Evaluation of Gambit and Permit Plus Weed Control applications in Drill-seeded Rice

Rating Date							May-14-2024	May-21-2024	Jun-3-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG
Treatment Appl. Interval							7DAMPOST	7DALPOST	21DALPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	10*	11*	12*
1	CHECK						46 b	18 c	0 b
	ROUNDUP	1.13	lb ai/a	30	fl oz/a	BURNDOWN			
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
2	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	90 a	89 ab	90 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
3	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	90 a	89 ab	90 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.074	lb ai/a	1.5	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
4	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	90 a	93 a	90 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
5	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	88 a	88 ab	90 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			

Table 4. Continued

Rating Date							May-14-2024	May-21-2024	Jun-3-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG
Treatment Appl. Interval							7DAMPOST	7DALPOST	21DALPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	10*	11*	12*
6	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	89 a	91 ab	90 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
7	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	91 a	81 b	90 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN			
8	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN	90 a	90 ab	90 a
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN			
9	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN	88 a	88 ab	89 a
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN			
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			

Table 4. Continued

							May-14-2024	May-21-2024	Jun-3-2024
							CONTROL	CONTROL	CONTROL
							%	%	%
							0, 100, -	0, 100, -	0, 100, -
							W, Weed	W, Weed	W, Weed
							ECHCG	ECHCG	ECHCG
Treatment Appl. Interval							7DAMPOST	7DALPOST	21DALPOST
Trt	Treatment	Rate	Rate	Other	Other	Appl	10*	11*	12*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	88 a	83 ab	90 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
LSD P=.05							5.9	6.4	1.1
Standard Deviation							4.0	4.4	0.8
CV							4.77	5.47	0.98
Levene's F							6.673*	0.92	0.711
Levene's Prob(F)							0.00*	0.521	0.694
Shapiro-Wilk							0.9033*	0.9641	0.5356*
P(Shapiro-Wilk)							0.0024*	0.2313	0.0*
Skewness							0.3523	-0.0509	-3.2005*
P(Skewness)							0.369	0.8963	0.0*
Kurtosis							4.9097*	-0.4971	18.2785*
P(Kurtosis)							0.0*	0.5168	0.0*
Replicate F							0.840	0.384	1.000
Replicate Prob(F)							0.4841	0.7654	0.4079
Treatment F							45.180	103.664	5169.001
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 5. Evaluation of Gambit and Permit Plus Weed Control applications in Drill-seeded Rice

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024	
Rating Type							HEIGHTS	HEIGHTS	HEIGHTS	
Rating Unit							cm	cm	cm	
Rating Min/Max/Interval										
Pest Type										
Pest Code										
Treatment Appl. Interval							RICE	RICE	RICE	
							HARVEST	HARVEST	HARVEST	
Trt	Treatment		Rate	Other	Other	Appl	13*	14*	15*	
No.	Name	Rate	Unit	Rate	Rate Unit	Timing				
1	CHECK						102	-	102	-
	ROUNDUP	1.13	lb ai/a	30	fl oz/a	BURNDOWN				
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN				
2	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	104	-	105	-
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN				
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN				
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST				
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST				
	COC	1	% v/v	19.2	fl oz/a	MPOST				
3	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	106	-	109	-
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN				
	GAMBIT	0.074	lb ai/a	1.5	oz/a	BURNDOWN				
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST				
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST				
	COC	1	% v/v	19.2	fl oz/a	MPOST				
4	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	107	-	106	-
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN				
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN				
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN				
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST				
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST				
	COC	1	% v/v	19.2	fl oz/a	MPOST				
5	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	104	-	103	-
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN				
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN				
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST				
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST				
	COC	1	% v/v	19.2	fl oz/a	MPOST				
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST				
	COC	1	% v/v	19.2	fl oz/a	LPOST				

Table 5. Continued

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type							HEIGHTS	HEIGHTS	HEIGHTS
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Type									
Pest Code									
Treatment Appl. Interval							RICE	RICE	RICE
							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	13*	14*	15*
No.	Name		Unit	Rate	Rate Unit	Timing			
6	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	102 -	104 -	105 -
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
7	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	108 -	107 -	108 -
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
8	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	107 -	108 -	105 -
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
9	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	108 -	107 -	108 -
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			

Table 5. Continued

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type							HEIGHTS	HEIGHTS	HEIGHTS
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	13*	14*	15*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	109 -	108 -	109 -
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
LSD P=.05							4.3	4.4	5.0
Standard Deviation							3.0	3.0	3.4
CV							2.82	2.87	3.22
Levene's F							2.144	1.321	1.518
Levene's Prob(F)							0.057	0.268	0.187
Shapiro-Wilk							0.9876	0.969	0.9724
P(Shapiro-Wilk)							0.9326	0.3356	0.4286
Skewness							0.0773	-0.4304	-0.2794
P(Skewness)							0.843	0.2737	0.4753
Kurtosis							-0.422	0.9244	-0.6422
P(Kurtosis)							0.5817	0.2311	0.4031
Replicate F							1.052	1.200	0.786
Replicate Prob(F)							0.3857	0.3284	0.5125
Treatment F							2.837	1.975	1.329
Treatment Prob(F)							0.0173	0.0831	0.2682

Table 6. Evaluation of Gambit and Permit Plus Weed Control applications in Drill-seeded Rice

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type							HEIGHTS	AVG HEIGHTS	YIELD
Rating Unit							cm	cm	LBS/PLOT
Rating Min/Max/Interval									
Pest Type									
Pest Code									
Treatment Appl. Interval							RICE	RICE	RICE
							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	16*	17*	18*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	CHECK						106 ab	104 b	6.31 b
	ROUNDUP	1.13	lb ai/a	30	fl oz/a	BURNDOWN			
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
2	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	106 ab	105 ab	9.89 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
3	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	110 a	108 ab	10.16 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.074	lb ai/a	1.5	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
4	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	107 ab	107 ab	9.90 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
5	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	103 b	104 b	9.55 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			

Table 6. Continued

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type							HEIGHTS	AVG HEIGHTS	YIELD
Rating Unit							cm	cm	LBS/PLOT
Rating Min/Max/Interval									
Pest Type									
Pest Code									
Treatment Appl. Interval							RICE	RICE	RICE
							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	16*	17*	18*
No.	Name		Unit	Rate	Rate Unit	Timing			
6	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	103 b	104 b	10.33 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
7	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	109 ab	108 ab	9.72 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
8	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	111 a	108 ab	10.10 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
9	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	107 ab	107 ab	10.48 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			

Table 6. Continued

							Aug-20-2024	Aug-20-2024	Aug-20-2024
							HEIGHTS	AVG HEIGHTS	YIELD
							cm	cm	LBS/PLOT
Rating Date									
Rating Type									
Rating Unit									
Rating Min/Max/Interval									
Pest Type									
Pest Code									
Treatment Appl. Interval							RICE	RICE	RICE
							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	16*	17*	18*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	111 a	109 a	10.46 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
LSD P=.05							4.2	3.1	0.880
Standard Deviation							2.9	2.1	0.607
CV							2.71	1.98	6.26
Levene's F							0.899	1.46	0.381
Levene's Prob(F)							0.538	0.208	0.935
Shapiro-Wilk							0.9891	0.9684	0.9759
P(Shapiro-Wilk)							0.9621	0.3199	0.5407
Skewness							-0.1671	0.3169	0.5016
P(Skewness)							0.6689	0.4186	0.2032
Kurtosis							0.3083	-0.4093	0.2082
P(Kurtosis)							0.6871	0.5932	0.7855
Replicate F							0.735	1.396	26.670
Replicate Prob(F)							0.5401	0.2655	0.0001
Treatment F							3.960	4.120	16.339
Treatment Prob(F)							0.0026	0.0020	0.0001

Table 7. Evaluation of Gambit and Permit Plus Weed Control applications in Drill-seeded Rice

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type							MOICON	YIELD	YIELD
Rating Unit							%	LB/A	BU/A
Rating Min/Max/Interval							0, 100, -		
Pest Type							RICE	RICE	RICE
Pest Code							HARVEST	HARVEST	HARVEST
Treatment Appl. Interval									
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	19*	20*	21*
1	CHECK						12.1 ab	3955 b	88 b
	ROUNDUP	1.13	lb ai/a	30	fl oz/a	BURNDOWN			
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
2	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	12.1 ab	6196 a	138 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
3	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	12.1 ab	6367 a	141 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.074	lb ai/a	1.5	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
4	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	12.5 a	6176 a	137 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
5	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	12.0 ab	5995 a	133 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			

Table 7. Continued

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type							MOICON	YIELD	YIELD
Rating Unit							%	LB/A	BU/A
Rating Min/Max/Interval							0, 100, -		
Pest Type							RICE	RICE	RICE
Pest Code							HARVEST	HARVEST	HARVEST
Treatment Appl. Interval									
Trt	Treatment	Rate	Rate	Other	Other	Appl	19*	20*	21*
No.	Name		Unit	Rate	Rate Unit	Timing			
6	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	12.0 ab	6482 a	144 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
7	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	11.2 c	6156 a	137 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
8	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	11.6 bc	6367 a	141 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST			
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
9	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	11.2 c	6639 a	148 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			

Table 7. Continued

							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Date							MOICON	YIELD	YIELD
Rating Type							%	LB/A	BU/A
Rating Unit							0, 100, -		
Rating Min/Max/Interval									
Pest Type							RICE	RICE	RICE
Pest Code							HARVEST	HARVEST	HARVEST
Treatment Appl. Interval							19*	20*	21*
Trt	Treatment	Rate	Rate	Other	Other	Appl			
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	11.1 c	6626 a	147 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN			
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST			
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST			
	COC	1	% v/v	19.2	fl oz/a	MPOST			
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST			
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST			
	COC	1	% v/v	19.2	fl oz/a	LPOST			
LSD P=.05							0.55	544.8	12.1
Standard Deviation							0.38	375.5	8.3
CV							3.23	6.16	6.16
Levene's F							0.895	0.305	0.305
Levene's Prob(F)							0.542	0.967	0.967
Shapiro-Wilk							0.9918	0.9668	0.9668
P(Shapiro-Wilk)							0.991	0.284	0.284
Skewness							-0.0324	0.6006	0.6006
P(Skewness)							0.9338	0.1294	0.1294
Kurtosis							0.5403	0.1795	0.1795
P(Kurtosis)							0.4812	0.8144	0.8144
Replicate F							0.653	27.613	27.613
Replicate Prob(F)							0.5882	0.0001	0.0001
Treatment F							6.579	17.289	17.289
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 8. Evaluation of Gambit and Permit Plus Weed Control applications in Drill-seeded Rice

Rating Date							Aug-20-2024
Rating Type							YIELD
Rating Unit							KG/HA
Rating Min/Max/Interval							
Pest Type							
Pest Code							RICE
Treatment Appl. Interval							HARVEST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	22*
1	CHECK						4433 b
	ROUNDUP	1.13	lb ai/a	30	fl oz/a	BURNDOWN	
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN	
2	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	6945 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN	
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN	
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST	
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST	
	COC	1	% v/v	19.2	fl oz/a	MPOST	
3	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	7136 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN	
	GAMBIT	0.074	lb ai/a	1.5	oz/a	BURNDOWN	
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST	
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST	
	COC	1	% v/v	19.2	fl oz/a	MPOST	
4	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	6923 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN	
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN	
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN	
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST	
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST	
	COC	1	% v/v	19.2	fl oz/a	MPOST	
5	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	6719 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN	
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN	
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST	
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST	
	COC	1	% v/v	19.2	fl oz/a	MPOST	
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST	
	COC	1	% v/v	19.2	fl oz/a	LPOST	

Table 8. Continued

Rating Date							Aug-20-2024
Rating Type							YIELD
Rating Unit							KG/HA
Rating Min/Max/Interval							
Pest Type							RICE
Pest Code							HARVEST
Treatment Appl. Interval							22*
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	
6	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	7265 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN	
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN	
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST	
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST	
	COC	1	% v/v	19.2	fl oz/a	MPOST	
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST	
	COC	1	% v/v	19.2	fl oz/a	LPOST	
7	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	6900 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN	
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST	
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST	
	COC	1	% v/v	19.2	fl oz/a	MPOST	
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST	
	COC	1	% v/v	19.2	fl oz/a	LPOST	
8	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	7136 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN	
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST	
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST	
	COC	1	% v/v	19.2	fl oz/a	MPOST	
	GAMBIT	0.0494	lb ai/a	1	oz/a	LPOST	
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST	
	COC	1	% v/v	19.2	fl oz/a	LPOST	
9	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	7441 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN	
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST	
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST	
	COC	1	% v/v	19.2	fl oz/a	MPOST	
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST	
	COC	1	% v/v	19.2	fl oz/a	LPOST	

Table 8. Continued

Rating Date							Aug-20-2024
Rating Type							YIELD
Rating Unit							KG/HA
Rating Min/Max/Interval							
Pest Type							RICE
Pest Code							HARVEST
Treatment Appl. Interval							22*
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	
10	ROUNDUP	1.13	lb ae/a	30	fl oz/a	BURNDOWN	7426 a
	COMMAND 3 ME	0.3	lb ai/a	12.8	fl oz/a	BURNDOWN	
	RICESTAR HT	0.109	lb ai/a	24	fl oz/a	MPOST	
	COMMAND 3 ME	0.234	lb ai/a	10	fl oz/a	MPOST	
	COC	1	% v/v	19.2	fl oz/a	MPOST	
	PERMIT PLUS	0.035	lb ai/a	0.75	oz/a	LPOST	
	FACET L	0.328	lb ai/a	28	fl oz/a	LPOST	
	COC	1	% v/v	19.2	fl oz/a	LPOST	
LSD P=.05							610.6
Standard Deviation							420.8
CV							6.16
Levene's F							0.305
Levene's Prob(F)							0.967
Shapiro-Wilk							0.9668
P(Shapiro-Wilk)							0.284
Skewness							0.6006
P(Skewness)							0.1294
Kurtosis							0.1795
P(Kurtosis)							0.8144
Replicate F							27.613
Replicate Prob(F)							0.0001
Treatment F							17.289
Treatment Prob(F)							0.0001

Rating Type	Rating Unit	Pest Type	Pest Code
YIELD = yield	%, 0, 100 = percent	W, Weed = Weed or volunteer crop	CYPPIR, Cypress iria, Rice flatsedge= US
MOICON = moisture content	cm = centimeter		ALRPH, Alternanthera philoxeroides, Alligatorweed= US
	KG/HA = kilogram per hectare		ECHCG, Echinochloa crus-galli, common barnyardgrass= US

LSU AgCenter
School of Plant, Environmental and Soil Sciences

2024 Evaluation of weed control of early burndown applications for rice

Experiment number : **C24-07**
 Location..... : RRS-Crowley, LA
 Experimental design : RCB
 Number of reps : 4
 Plot size : 10'x30'
 Row width/# per plot..... : NA
 Soil type..... : Crowley silt loam (3% sand, 69% silt, 28% clay)
 % OM : 1.4
 pH : 6.4
 CEC : 19.1
 Crop/Variety : N/A
 Planting date : N/A
 Emergence date..... : N/A
 Harvest date..... : N/A

Application type : Burndown
 Date applied [mm/dd/yy] : 4/5/24
 Time [hh:mm-hh:mm] : 2:46-3:22p
 Air/Soil temperature [F] : 81/76
 Relative humidity [%] : 43%
 Wind [mph, direction] : 5-6, W
 Weather [sunny, etc]..... : Sunny
 Soil/Leaf surface moist..... : Dry/dry
 Crop stage/Height..... : N/A
 Sprayer type/MPH : BKPK/3.0
 Nozzle type/Size* : FF/11001
 Boom ht/# Noz/Spacing..... : 18/7/20
 GPA/PSI : 10/33
 Applied by : WBC/CSB

Weed Species (population)..... :- (height/#leaves) -
 ALRPH (2-6m²)..... : 8-12"/26-20lf
 AESIN (1-4m²)..... : 2-3"/2-4lf
 HORPU (5-8m²)..... : 4-6"/5-7lf
 RANSA (6-8m²)..... : 4-6"/10-15lf
 TIOAR (15-20m²)..... : 4-6"/10-15lf

Flush Dates : NA
 Permanent Flood..... : NA

*AMFF – Air mix flat fan nozzles

Table 1. Evaluation of weed control of early burndown applications for rice

Rating Date							Apr-26-2024	May-8-2024	May-22-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ALRPH	ALRPH	ALRPH
Treatment Appl. Interval							21 DAT	35 DAT	49 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*
1	UTC						0 c	0 b	0 c
2	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	92 b	70 a	0 c
3	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	87 a	99 a
	GAMBIT	0.037	lb ai/a	0.75	oz/a	BURNDOWN			
4	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	95 a	99 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
5	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	79 a	69 b
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
6	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	89 a	79 ab
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
7	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	89 a	79 ab
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
8	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	94 a	97 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
9	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	98 a	99 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
10	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	97 a	97 a
	FIRSTSHOT SG	0.0219	lb ai/a	0.7	oz/a	BURNDOWN			

Table 1. Continued

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type							MOICON	YIELD	YIELD
Rating Unit							%	LB/A	BU/A
Rating Min/Max/Interval							0, 100, -		
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	19*	20*	21*
LSD P=.05							3.6	17.5	15.9
Standard Deviation							2.5	12.1	11.0
CV							2.81	15.16	15.33
Levene's F							250.839*	2.673*	3.91*
Levene's Prob(F)							0.00*	0.021*	0.002*
Shapiro-Wilk							0.7193*	0.9602	0.9475
P(Shapiro-Wilk)							0.0*	0.1705	0.0622
Skewness							-0.0175	-0.6199	-0.4771
P(Skewness)							0.9641	0.1179	0.2258
Kurtosis							5.9645*	1.5789*	0.7549
P(Kurtosis)							0.0*	0.0443*	0.3265
Replicate F							1.387	1.248	1.636
Replicate Prob(F)							0.2680	0.3120	0.2043
Treatment F							627.322	23.516	50.935
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 2. Evaluation of weed control of early burndown applications for rice

Rating Date							Apr-26-2024	May-8-2024	May-22-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							AESIN	AESIN	AESIN
Treatment Appl. Interval							21 DAT	35 DAT	49 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	4*	5*	6*
1	UTC						0 b	0 c	0 b
2	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	96 a	73 b	0 b
3	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	92 a	89 a
	GAMBIT	0.037	lb ai/a	0.75	oz/a	BURNDOWN			
4	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	93 a	96 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
5	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	96 a	94 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
6	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	96 a	94 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
7	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	94 a	99 a
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
8	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	89 ab	94 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
9	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	99 a	97 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
10	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	85 ab	84 a
	FIRSTSHOT SG	0.0219	lb ai/a	0.7	oz/a	BURNDOWN			

Table 2. Continued

							Apr-26-2024	May-8-2024	May-22-2024
							CONTROL	CONTROL	CONTROL
							%	%	%
							0, 100, -	0, 100, -	0, 100, -
							W, Weed	W, Weed	W, Weed
							AESIN	AESIN	AESIN
							21 DAT	35 DAT	49 DAT
Trt	Treatment		Rate	Other	Other	Appl	4*	5*	6*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
LSD P=.05							2.1	14.1	10.6
Standard Deviation							1.4	9.7	7.3
CV							1.61	11.88	9.85
Levene's F							0.697	1.817	2.107
Levene's Prob(F)							0.706	0.106	0.062
Shapiro-Wilk							0.5937*	0.962	0.8818*
P(Shapiro-Wilk)							0.0*	0.1963	0.0007*
Skewness							-3.1215*	-0.7428	-1.3106*
P(Skewness)							0.0*	0.0627	0.0019*
Kurtosis							17.591*	1.4322	5.9166*
P(Kurtosis)							0.0*	0.0669	0.0*
Replicate F							1.000	0.283	1.191
Replicate Prob(F)							0.4079	0.8371	0.3324
Treatment F							1907.766	37.416	116.559
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 3. Evaluation of weed control of early burndown applications for rice

Rating Date							Apr-26-2024	May-8-2024	May-22-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							HORPU	HORPU	HORPU
Treatment Appl. Interval							21 DAT	35 DAT	49 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	7*	8*	9*
1	UTC						0 b	0 b	0 b
2	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	98 a	99 a
3	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	98 a	99 a
	GAMBIT	0.037	lb ai/a	0.75	oz/a	BURNDOWN			
4	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	99 a	99 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
5	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	99 a	99 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
6	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	98 a	99 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
7	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	98 a	99 a
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
8	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	98 a	99 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
9	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	99 a	99 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
10	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	98 a	99 a
	FIRSTSHOT SG	0.0219	lb ai/a	0.7	oz/a	BURNDOWN			

Table 3. Continued

							Apr-26-2024	May-8-2024	May-22-2024
							CONTROL	CONTROL	CONTROL
							%	%	%
							0, 100, -	0, 100, -	0, 100, -
							W, Weed	W, Weed	W, Weed
							HORPU	HORPU	HORPU
							21 DAT	35 DAT	49 DAT
Trt	Treatment		Rate	Other	Other	Appl	7*	8*	9*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
LSD P=.05							0.3	0.4	0.5
Standard Deviation							0.2	0.3	0.3
CV							0.26	0.32	0.36
Levene's F							3.107*	0.417	0.397
Levene's Prob(F)							0.009*	0.916	0.927
Shapiro-Wilk							0.8614*	0.93*	0.926*
P(Shapiro-Wilk)							0.0002*	0.0161*	0.0119*
Skewness							0.7706	0.1944	-0.32
P(Skewness)							0.0539	0.6188	0.4142
Kurtosis							2.9977*	0.5687	1.7609*
P(Kurtosis)							0.0003*	0.4586	0.0258*
Replicate F							44.390	23.143	8.027
Replicate Prob(F)							0.0001	0.0001	0.0006
Treatment F							71080.736	49729.291	37995.166
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 4. Evaluation of weed control of early burndown applications for rice

Rating Date							Apr-26-2024	May-8-2024	May-22-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							RANSA	RANSA	RANSA
Treatment Appl. Interval							21 DAT	35 DAT	49 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	10*	11*	12*
1	UTC						0 b	0 b	0 b
2	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	95 a	98 a	74 a
3	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	98 a	99 a
	GAMBIT	0.037	lb ai/a	0.75	oz/a	BURNDOWN			
4	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	99 a	99 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
5	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	99 a	99 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
6	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	98 a	99 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
7	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	98 a	99 a
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
8	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	98 a	99 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
9	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	99 a	99 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
10	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	98 a	99 a
	FIRSTSHOT SG	0.0219	lb ai/a	0.7	oz/a	BURNDOWN			

Table 4. Continued

							Apr-26-2024	May-8-2024	May-22-2024
							CONTROL	CONTROL	CONTROL
							%	%	%
							0, 100, -	0, 100, -	0, 100, -
							W, Weed	W, Weed	W, Weed
							RANSA	RANSA	RANSA
							21 DAT	35 DAT	49 DAT
Trt	Treatment		Rate	Other	Other	Appl	10*	11*	12*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
LSD P=.05							3.0	0.4	22.8
Standard Deviation							2.1	0.3	15.7
CV							2.35	0.32	18.16
Levene's F							0.745	0.417	0.721
Levene's Prob(F)							0.666	0.916	0.686
Shapiro-Wilk							0.5811*	0.93*	0.55*
P(Shapiro-Wilk)							0.0*	0.0161*	0.0*
Skewness							-3.1633*	0.1944	-3.1986*
P(Skewness)							0.0*	0.6188	0.0*
Kurtosis							17.9569*	0.5687	18.2616*
P(Kurtosis)							0.0*	0.4586	0.0*
Replicate F							2.514	23.143	0.951
Replicate Prob(F)							0.0796	0.0001	0.4300
Treatment F							895.550	49729.291	15.943
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 5. Evaluation of weed control of early burndown applications for rice

Rating Date							Apr-26-2024	May-8-2024	May-22-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							TOIAR	TOIAR	TOIAR
Treatment Appl. Interval							21 DAT	35 DAT	49 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	13*	14*	15*
1	UTC						0 c	0 d	0 d
2	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	63 b	53 c	23 c
3	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	89 a	98 a	99 a
	GAMBIT	0.037	lb ai/a	0.75	oz/a	BURNDOWN			
4	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	93 a	99 a	99 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
5	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	78 a	99 a	97 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
6	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	86 a	98 a	99 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
7	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	90 a	74 b	63 b
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
8	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	95 a	98 a	98 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
9	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	96 a	96 a	99 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
10	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	79 a	98 a	99 a
	FIRSTSHOT SG	0.0219	lb ai/a	0.7	oz/a	BURNDOWN			

Table 5. Continued

							Apr-26-2024	May-8-2024	May-22-2024
Rating Date							CONTROL	CONTROL	CONTROL
Rating Type							%	%	%
Rating Unit							0, 100, -	0, 100, -	0, 100, -
Rating Min/Max/Interval							W, Weed	W, Weed	W, Weed
Pest Type							TOIAR	TOIAR	TOIAR
Pest Code							21 DAT	35 DAT	49 DAT
Treatment Appl. Interval									
Trt	Treatment		Rate	Other	Other	Appl	13*	14*	15*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
LSD P=.05							11.5	10.2	6.0
Standard Deviation							7.9	7.1	4.1
CV							10.29	8.68	5.31
Levene's F							0.882	1.769	2.453*
Levene's Prob(F)							0.552	0.116	0.031*
Shapiro-Wilk							0.9619	0.82*	0.8302*
P(Shapiro-Wilk)							0.194	0.0*	0.0*
Skewness							-0.2101	1.1938*	0.1398
P(Skewness)							0.5909	0.0038*	0.7203
Kurtosis							1.6608*	5.9343*	6.3178*
P(Kurtosis)							0.0349*	0.0*	0.0*
Replicate F							3.203	1.728	0.318
Replicate Prob(F)							0.0390	0.1850	0.8121
Treatment F							53.113	84.494	324.509
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 6. Evaluation of weed control of early burndown applications for rice

Rating Date							May-8-2024	May-22-2024	May-8-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CYPIR	CYPIR	ECLAL
Treatment Appl. Interval							35 DAT	49 DAT	35 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	16*	17*	18*
1	UTC						0 d	0 d	0 c
2	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	0 d	0 d	0 c
3	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	86 a	56 b	98 a
	GAMBIT	0.037	lb ai/a	0.75	oz/a	BURNDOWN			
4	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	91 a	73 a	99 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
5	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	38 c	40 bc	99 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
6	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	55 b	44 bc	98 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
7	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	40 c	40 bc	98 a
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
8	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	55 b	31 c	98 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
9	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	56 b	41 bc	99 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
10	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	10 d	10 d	73 b
	FIRSTSHOT SG	0.0219	lb ai/a	0.7	oz/a	BURNDOWN			

Table 6. Continued

Rating Date							May-8-2024	May-22-2024	May-8-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CYPIR	CYPIR	ECLAL
Treatment Appl. Interval							35 DAT	49 DAT	35 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	16*	17*	18*
LSD P=.05							9.8	12.3	10.3
Standard Deviation							6.8	8.5	7.1
CV							15.68	25.27	9.34
Levene's F							2.478*	2.239*	1.21
Levene's Prob(F)							0.03*	0.047*	0.326
Shapiro-Wilk							0.9398*	0.9535	0.5956*
P(Shapiro-Wilk)							0.0341*	0.1	0.0*
Skewness							-0.6608	0.7194	-2.7855*
P(Skewness)							0.0962	0.071	0.0*
Kurtosis							0.9179	2.6526*	17.376*
P(Kurtosis)							0.2343	0.0012*	0.0*
Replicate F							0.342	3.093	0.763
Replicate Prob(F)							0.7953	0.0436	0.5245
Treatment F							92.241	31.566	132.404
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 7. Evaluation of weed control of early burndown applications for rice

							May-22-2024	May-8-2024	May-22-2024
Rating Date							CONTROL	CONTROL	CONTROL
Rating Type							%	%	%
Rating Unit							0, 100, -	0, 100, -	0, 100, -
Rating Min/Max/Interval							W, Weed	W, Weed	W, Weed
Pest Type							ECLAL	ECHCG	ECHCG
Pest Code							49 DAT	35 DAT	49 DAT
Treatment Appl. Interval							19*	20*	21*
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing			
1	UTC						0 c	0 na	0 na
2	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	0 c	0 na	0 na
3	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	0 na	0 na
	GAMBIT	0.037	lb ai/a	0.75	oz/a	BURNDOWN			
4	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	0 na	0 na
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
5	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	0 na	0 na
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
6	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	0 na	0 na
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
7	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	95 a	0 na	0 na
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
8	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	0 na	0 na
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
9	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a	0 na	0 na
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
10	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	77 b	0 na	0 na
	FIRSTSHOT SG	0.0219	lb ai/a	0.7	oz/a	BURNDOWN			

Table 7. Continued

Rating Date							May-22-2024	May-8-2024	May-22-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECLAL	ECHCG	ECHCG
Treatment Appl. Interval							49 DAT	35 DAT	49 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	19*	20*	21*
LSD P=.05							9.9	.	.
Standard Deviation							6.8	0.0	0.0
CV							8.91	0.0	0.0
Levene's F							3.088*	.	.
Levene's Prob(F)							0.01*	.	.
Shapiro-Wilk							0.7185*	.	.
P(Shapiro-Wilk)							0.0*	.	.
Skewness							-1.3572*	.	.
P(Skewness)							0.0012*	.	.
Kurtosis							11.4316*	.	.
P(Kurtosis)							0.0*	.	.
Replicate F							0.917	NaN	NaN
Replicate Prob(F)							0.4458	NaN	NaN
Treatment F							143.697	NaN	NaN
Treatment Prob(F)							0.0001	NaN	NaN

Table 8. Evaluation of weed control of early burndown applications for rice

Rating Date							May-8-2024	May-22-2024	May-8-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							BRAPP	BRAPP	SOLAM
Treatment Appl. Interval							35 DAT	49 DAT	35 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	22*	23*	24*
1	UTC						0 na	0 na	0 c
2	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	0 na	0 na	0 c
3	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	0 na	0 na	98 a
	GAMBIT	0.037	lb ai/a	0.75	oz/a	BURNDOWN			
4	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	0 na	0 na	99 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN			
5	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	0 na	0 na	99 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
6	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	0 na	0 na	98 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
7	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	0 na	0 na	98 a
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
8	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	0 na	0 na	98 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
9	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	0 na	0 na	99 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN			
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN			
	MSO			1	pt/a	BURNDOWN			
10	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	0 na	0 na	74 b
	FIRSTSHOT SG	0.0219	lb ai/a	0.7	oz/a	BURNDOWN			

Table 8. Continued

Rating Date							May-8-2024	May-22-2024	May-8-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							BRAPP	BRAPP	SOLAM
Treatment Appl. Interval							35 DAT	49 DAT	35 DAT
Trt	Treatment		Rate	Other	Other	Appl	22*	23*	24*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
LSD P=.05							.	.	10.6
Standard Deviation							0.0	0.0	7.3
CV							0.0	0.0	9.62
Levene's F							.	.	1.405
Levene's Prob(F)							.	.	0.23
Shapiro-Wilk							.	.	0.5922*
P(Shapiro-Wilk)							.	.	0.0*
Skewness							.	.	-2.9184*
P(Skewness)							.	.	0.0*
Kurtosis							.	.	17.5124*
P(Kurtosis)							.	.	0.0*
Replicate F							NaN	NaN	0.760
Replicate Prob(F)							NaN	NaN	0.5262
Treatment F							NaN	NaN	124.420
Treatment Prob(F)							NaN	NaN	0.0001

Table 9. Evaluation of weed control of early burndown applications for rice

Rating Date							May-22-2024
Rating Type							CONTROL
Rating Unit							%
Rating Min/Max/Interval							0, 100, -
Pest Type							W, Weed
Pest Code							SOLAM
Treatment Appl. Interval							49 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	25*
1	UTC						0 c
2	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	0 c
3	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a
	GAMBIT	0.037	lb ai/a	0.75	oz/a	BURNDOWN	
4	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a
	GAMBIT	0.0494	lb ai/a	1	oz/a	BURNDOWN	
5	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN	
6	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN	
7	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN	
	MSO			1	pt/a	BURNDOWN	
8	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a
	PEAK	0.0118	lb ai/a	0.33	oz/a	BURNDOWN	
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN	
	MSO			1	pt/a	BURNDOWN	
9	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	99 a
	PEAK	0.0178	lb ai/a	0.5	oz/a	BURNDOWN	
	SHARPEN	0.0445	lb ai/a	2	oz/a	BURNDOWN	
	MSO			1	pt/a	BURNDOWN	
10	ROUNDUP	1.05	lb ae/a	28	fl oz/a	BURNDOWN	72 b
	FIRSTSHOT SG	0.0219	lb ai/a	0.7	oz/a	BURNDOWN	

Table 9. Continued

Rating Date							May-22-2024
Rating Type							CONTROL
Rating Unit							%
Rating Min/Max/Interval							0, 100, -
Pest Type							W, Weed
Pest Code							SOLAM
Treatment Appl. Interval							49 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	25*
LSD P=.05							9.8
Standard Deviation							6.7
CV							8.83
Levene's F							10.291*
Levene's Prob(F)							0.00*
Shapiro-Wilk							0.7024*
P(Shapiro-Wilk)							0.0*
Skewness							0.6039
P(Skewness)							0.1273
Kurtosis							10.9747*
P(Kurtosis)							0.0*
Replicate F							1.066
Replicate Prob(F)							0.3801
Treatment F							148.642
Treatment Prob(F)							0.0001

Rating Unit	Pest Type	Pest Code
%, 0, 100 = percent	W, Weed = Weed or volunteer crop	ALRPH, Alternanthera philoxeroides, Alligatorweed = US AESIN, Aeschynomene indica, Budda pea = US HORPU, Hordeum pusillum, Little barley = US RANSA, Ranunculus sardous, Hairy buttercup = US TOIAR, Torilis arvensis, Hedgeparsley = US CYPIR, Cyperus iria, Rice flatsedge = US ECLAL, Eclipta prostrata, Eclipta = US ECHCG, Echinochloa crus-galli, common barnyardgrass = US BRAPP, Brachiaria platyphylla, broad-leaved signal grass = US SOLAM, Solanum americanum, glossy nightshade = US

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Rice plant back following in-water loyant applications to crawfish ponds

Experiment number	: C24-10			
Location	: RRS-Crowley, LA			
Experimental design	: RCB			
Number of reps	: 3			
Plot size	: 2.5'x5'			
Row width/# per plot	: Broadcast			
Soil type	: Crowley silt loam (3% sand, 69% silt, 28% clay)			
% OM	: 1.4			
pH	: 6.4			
CEC	: 19.1			
Crop/Variety	: PVL03 @ 100lbs/A			
Planting date	: 5/15/2024			
Emergence date	: 5/18/2024			
Harvest date	: NA			
Uniform Standard Treatment	: Loyant @ 4 oz/A on 5/22/24			
Application type	28 DBFR	14 DBFR	7 DBFR	1 DBFR
Date applied [mm/dd/yy]	4/12/24	5/1/24	5/6/24	5/14/24
Time [hh:mm-hh:mm]	10:06-10:12a	3:38-3:44p	11:00-11:07a	11:05-11:14a
Air/Soil temperature [F]	65/60	83/73	81/86	78/68
Relative humidity [%]	58%	66%	75%	79%
Wind [mph, direction]	3-4, N	6-8, SSE	8-10, SSE	9-13, W
Weather [sunny, etc]	Sunny	Sunny	Cloudy	Sunny
Soil/Leaf surface moist	Flood	Flood	Flood	Flood
Crop stage/Height	N/A	NA	NA	NA
Sprayer type/MPH	BKPK/3.0	BKPK/3.0	BKPK/3.0	BKPK/3.0
Nozzle type/Size*	FF/110015	FF/110015	FF/110015	FF/110015
Boom ht/# Noz/Spacing	15/5/15	15/5/15	15/5/15	15/15/15
GPA/PSI	15/21	15/21	15/21	15/21
Applied by	LCW	SBS	WBC	LCW
Flush Dates	: 5/23/24			
Permanent Flood	: 6/11/2024			

*AMFF – Air mix flat fan nozzles

Table. 1 Rice Plant Back Following In-Water Loyant Applications to Crawfish Ponds

Rating Date						May-31-2024	Jun-13-2024	Jun-26-2024	May-31-2024
Rating Type						INJURY	INJURY	INJURY	STAND
Rating Unit						%	%	%	count
Rating Min/Max/Interval						0, 100, -	0, 100, -	0, 100, -	
Pest Code						RICE	RICE	RICE	RICE
Treatment Appl. Interval						16 DA SEED	29 DA SEED	42 DA SEED	16 DA SEED
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	1*	2*	3*	4*
1	28 Days Before Flood Removal					0 c	0 c	0 c	10 ab
	Loyant	0.013	lb ai/a	8	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
2	28 Days Before Flood Removal					0 c	0 c	0 c	11 ab
	Loyant	0.0195	lb ai/a	12	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
3	28 Days Before Flood Removal					13 bc	12 c	0 c	5 b
	Loyant	0.026	lb ai/a	16	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
4	14 Days Before Flood Removal					3 c	0 c	0 c	9 ab
	Loyant	0.013	lb ai/a	8	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
5	14 Days Before Flood Removal					3 c	0 c	0 c	14 a
	Loyant	0.0195	lb ai/a	12	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
6	14 Days Before Flood Removal					7 c	13 c	0 c	10 ab
	Loyant	0.026	lb ai/a	16	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
7	7 Days Before Flood Removal					37 abc	33 abc	50 abc	4 b
	Loyant	0.013	lb ai/a	8	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				

Table 1. Continued

Rating Date						May-31-2024	Jun-13-2024	Jun-26-2024	May-31-2024
Rating Type						INJURY	INJURY	INJURY	STAND
Rating Unit						%	%	%	count
Rating Min/Max/Interval						0, 100, -	0, 100, -	0, 100, -	
Pest Code						RICE	RICE	RICE	RICE
Treatment Appl. Interval						16 DA SEED	29 DA SEED	42 DA SEED	16 DA SEED
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	1*	2*	3*	4*
8	7 Days Before Flood Removal					33 abc	42 abc	58 abc	5 b
	Loyant	0.0195	lb ai/a	12	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
9	7 Days Before Flood Removal					33 abc	35 abc	52 abc	7 ab
	Loyant	0.026	lb ai/a	16	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
10	1 Day Before Flood Removal					83 a	77 a	78 a	2 b
	Loyant	0.013	lb ai/a	8	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
11	1 Day Before Flood Removal					30 abc	27 bc	25 bc	7 ab
	Loyant	0.0195	lb ai/a	12	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
12	1 Day Before Flood Removal					73 ab	67 ab	72 ab	2 b
	Loyant	0.026	lb ai/a	16	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
13	Nontreated								2 b

Table 1. Continued

Rating Date						May-31-2024	Jun-13-2024	Jun-26-2024	May-31-2024
Rating Type						INJURY	INJURY	INJURY	STAND
Rating Unit						%	%	%	count
Rating Min/Max/Interval						0, 100, -	0, 100, -	0, 100, -	
Pest Code						RICE	RICE	RICE	RICE
Treatment Appl. Interval						16 DA SEED	29 DA SEED	42 DA SEED	16 DA SEED
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	1*	2*	3*	4*
LSD P=.05						41.5	32.5	35.2	5.5
Standard Deviation						24.5	19.2	20.8	3.3
CV						92.92	75.44	74.44	48.39
Levene's F						0.541	0.556	0.677	0.635
Levene's Prob(F)						0.856	0.845	0.746	0.793
Shapiro-Wilk						0.945	0.9363*	0.9233*	0.9638
P(Shapiro-Wilk)						0.0726	0.0391*	0.0157*	0.2383
Skewness						0.8844*	0.6756	0.4482	0.1256
P(Skewness)						0.0374*	0.1072	0.2803	0.7508
Kurtosis						1.1769	1.971*	2.4429*	-0.4599
P(Kurtosis)						0.1501	0.0188*	0.0043*	0.5535
Analyzed as						RCB	RCB	RCB	RCB
Replicate F						1.973	1.468	0.714	6.185
Replicate Prob(F)						0.1629	0.2521	0.5007	0.0068
Treatment F						3.936	5.688	7.021	4.258
Treatment Prob(F)						0.0030	0.0003	0.0001	0.0012

Table. 2 Rice Plant Back Following In-Water Loyant Applications to Crawfish Ponds

Rating Date						May-31-2024	May-31-2024	May-31-2024	May-31-2024
Rating Type						HEIGHT	HEIGHT	HEIGHT	HEIGHT
Rating Unit						cm	cm	cm	cm
Rating Min/Max/Interval									
Pest Code						RICE	RICE	RICE	RICE
Treatment Appl. Interval						16 DA SEED	16 DA SEED	16 DA SEED	16 DA SEED
Trt	Treatment	Rate	Rate	Other	Other	5*	6*	7*	8*
No.	Name		Unit	Rate	Rate Unit				
1	28 Days Before Flood Removal					22 -	20 -	20 ab	21 a
	Loyant	0.013	lb ai/a	8	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
2	28 Days Before Flood Removal					18 -	22 -	22 a	20 a
	Loyant	0.0195	lb ai/a	12	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
3	28 Days Before Flood Removal					21 -	19 -	18 ab	21 a
	Loyant	0.026	lb ai/a	16	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
4	14 Days Before Flood Removal					19 -	19 -	19 ab	17 a
	Loyant	0.013	lb ai/a	8	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
5	14 Days Before Flood Removal					20 -	21 -	21 ab	22 a
	Loyant	0.0195	lb ai/a	12	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
6	14 Days Before Flood Removal					19 -	16 -	21 ab	20 a
	Loyant	0.026	lb ai/a	16	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				
7	7 Days Before Flood Removal					21 -	20 -	18 ab	20 a
	Loyant	0.013	lb ai/a	8	fl oz/a				
	MSO	0.5	% v/v	9.6	fl oz/a				

Table 2. Continued

Rating Date						May-31-2024	May-31-2024	May-31-2024	May-31-2024
Rating Type						HEIGHT	HEIGHT	HEIGHT	HEIGHT
Rating Unit						cm	cm	cm	cm
Rating Min/Max/Interval									
Pest Code						RICE	RICE	RICE	RICE
Treatment Appl. Interval						16 DA SEED	16 DA SEED	16 DA SEED	16 DA SEED
Trt	Treatment	Rate	Rate	Other	Other	5*	6*	7*	8*
No.	Name		Unit	Rate	Rate Unit				
8	7 Days Before					19	-	16	-
	Flood Removal							19	ab
	Loyant	0.0195	lb ai/a	12	fl oz/a				22
9	7 Days Before					17	-	17	-
	Flood Removal							18	ab
	Loyant	0.026	lb ai/a	16	fl oz/a				21
10	7 Days Before								
	Flood Removal								
	Loyant	0.5	% v/v	9.6	fl oz/a				
11	1 Day Before					12	-	14	-
	Flood Removal							10	ab
	Loyant	0.013	lb ai/a	8	fl oz/a				15
12	1 Day Before								
	Flood Removal								
	Loyant	0.5	% v/v	9.6	fl oz/a				
13	1 Day Before					18	-	19	-
	Flood Removal							20	ab
	Loyant	0.0195	lb ai/a	12	fl oz/a				20
12	1 Day Before								
	Flood Removal					16	-	13	-
	Loyant	0.026	lb ai/a	16	fl oz/a			6	b
13	1 Day Before								
	Flood Removal								
	Loyant	0.5	% v/v	9.6	fl oz/a				5
13	Nontreated					8	-	7	-
								8	ab
									18

Table 2. Continued

Rating Date						May-31-2024	May-31-2024	May-31-2024	May-31-2024
Rating Type						HEIGHT	HEIGHT	HEIGHT	HEIGHT
Rating Unit						cm	cm	cm	cm
Rating Min/Max/Interval									
Pest Code						RICE	RICE	RICE	RICE
Treatment Appl. Interval						16 DA SEED	16 DA SEED	16 DA SEED	16 DA SEED
Trt	Treatment		Rate	Other	Other	5*	6*	7*	8*
No.	Name	Rate	Unit	Rate	Rate Unit				
LSD P=.05						9.1	9.8	9.3	8.0
Standard Deviation						5.4	5.8	5.5	4.7
CV						30.44	33.95	32.87	25.54
Levene's F						0.583	0.625	0.53	0.572
Levene's Prob(F)						0.836	0.802	0.876	0.844
Shapiro-Wilk						0.9375*	0.9825	0.9167*	0.9586
P(Shapiro-Wilk)						0.0314*	0.7935	0.0069*	0.1598
Skewness						0.7296	0.2629	1.088*	0.6688
P(Skewness)						0.0709	0.5071	0.0086*	0.0966
Kurtosis						2.478*	1.1235	3.1302*	0.6669
P(Kurtosis)						0.0026*	0.1523	0.0002*	0.3913
Analyzed as						RCB	RCB	RCB	RCB
Replicate F						0.694	1.375	0.154	1.955
Replicate Prob(F)						0.5095	0.2722	0.8578	0.1635
Treatment F						1.556	1.414	2.886	2.848
Treatment Prob(F)						0.1722	0.2267	0.0131	0.0140

Table. 3 Rice Plant Back Following In-Water Loyant Applications to Crawfish Ponds

Rating Date							May-31-2024
Rating Type							AVG HEIGHT
Rating Unit							cm
Rating Min/Max/Interval							
Pest Code							RICE
Treatment Appl. Interval							16 DA SEED
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	9*	
1	28 Days Before Flood Removal					21	-
	Loyant	0.013	lb ai/a	8	fl oz/a		
	MSO	0.5	% v/v	9.6	fl oz/a		
2	28 Days Before Flood Removal					21	-
	Loyant	0.0195	lb ai/a	12	fl oz/a		
	MSO	0.5	% v/v	9.6	fl oz/a		
3	28 Days Before Flood Removal					20	-
	Loyant	0.026	lb ai/a	16	fl oz/a		
	MSO	0.5	% v/v	9.6	fl oz/a		
4	14 Days Before Flood Removal					19	-
	Loyant	0.013	lb ai/a	8	fl oz/a		
	MSO	0.5	% v/v	9.6	fl oz/a		
5	14 Days Before Flood Removal					21	-
	Loyant	0.0195	lb ai/a	12	fl oz/a		
	MSO	0.5	% v/v	9.6	fl oz/a		
6	14 Days Before Flood Removal					19	-
	Loyant	0.026	lb ai/a	16	fl oz/a		
	MSO	0.5	% v/v	9.6	fl oz/a		
7	7 Days Before Flood Removal					20	-
	Loyant	0.013	lb ai/a	8	fl oz/a		
	MSO	0.5	% v/v	9.6	fl oz/a		

Table 2. Continued

Rating Date						May-31-2024
Rating Type						AVG HEIGHT
Rating Unit						cm
Rating Min/Max/Interval						
Pest Code						RICE
Treatment Appl. Interval						16 DA SEED
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	9*
8	7 Days Before Flood Removal					19 -
	Loyant	0.0195	lb ai/a	12	fl oz/a	
	MSO	0.5	% v/v	9.6	fl oz/a	
9	7 Days Before Flood Removal					18 -
	Loyant	0.026	lb ai/a	16	fl oz/a	
	MSO	0.5	% v/v	9.6	fl oz/a	
10	1 Day Before Flood Removal					13 -
	Loyant	0.013	lb ai/a	8	fl oz/a	
	MSO	0.5	% v/v	9.6	fl oz/a	
11	1 Day Before Flood Removal					19 -
	Loyant	0.0195	lb ai/a	12	fl oz/a	
	MSO	0.5	% v/v	9.6	fl oz/a	
12	1 Day Before Flood Removal					10 -
	Loyant	0.026	lb ai/a	16	fl oz/a	
	MSO	0.5	% v/v	9.6	fl oz/a	
13	Nontreated					10 -

Table 3. Continued

Rating Date						May-31-2024
Rating Type						AVG HEIGHT
Rating Unit						cm
Rating Min/Max/Interval						
Pest Code						RICE
Treatment Appl. Interval						16 DA SEED
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	9*
LSD P=.05						7.2
Standard Deviation						4.3
CV						24.53
Levene's F						0.569
Levene's Prob(F)						0.847
Shapiro-Wilk						0.9111*
P(Shapiro-Wilk)						0.0047*
Skewness						1.0274*
P(Skewness)						0.0127*
Kurtosis						3.4057*
P(Kurtosis)						0.0*
Analyzed as						RCB
Replicate F						0.995
Replicate Prob(F)						0.3844
Treatment F						2.489
Treatment Prob(F)						0.0276

Rating Type	Rating Unit
HEIGHT = height	%, 0, 100 = percent cm = centimeter

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Evaluation of adjuvant systems with ricestar ht

Experiment number : **C24-13**
 Location..... : RRS-Crowley, LA
 Experimental design : RCB
 Number of reps : 4
 Plot size : 5'x17'
 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 lbs/A
 Planting date : 4/2/24
 Emergence date..... : 4/8/24
 Harvest date..... : 8/14/2024
 Uniform Standard Treatment..... : Gambit @ 1.5 oz/A on 5/6/24

Application type	PRE	PreFl 4-5BYG
Date applied [mm/dd/yy]	4/4/24	5/9/24
Time [hh:mm-hh:mm]	1:44-1:52p	9:40-10:00a
Air/Soil temperature [F]	72/61	80/70
Relative humidity [%]	76%	91%
Wind [mph, direction]	10, E	7-9, S
Weather [sunny, etc]	Sunny	Ptly Cloudy
Soil/Leaf surface moist.....	Dry/NA	Moist/DRY
Crop stage/Height.....	PRE	1-2 til/10-14"
Sprayer type/MPH	BKPK/3.0	BKPK/3.0
Nozzle type/Size*	FF/110015	FF/110015
Boom ht/# Noz/Spacing.....	15/5/15	15/5/15
GPA/PSI	15/21	15/21
Applied by	SBS	WBC

Weed Species (population) :----- (height/#leaves) -----

ECHCG (20m ²).....	NA	4-5"/2-4lf
BRAPP (15m ²)	NA	4-5"/2-4lf

Flush Dates : 4/24/24
 Permanent Flood..... : 5/18/24

*AMFF – Air mix flat fan nozzles

Table 1. Evaluation of adjuvant systems with Ricestar HT

Rating Date							May-21-2024	Jun-17-2024	Jul-2-2024
Rating Type							INJURY	INJURY	INJURY
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							RICE	RICE	RICE
Pest Code							14DAPREFL	42DAPREL	56DAPREL
Treatment Appl. Interval							1*	2*	3*
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing			
1	Untreated Check						0 b	0 na	0 na
2	Command	8.0	oz/a	0.188	lb ai/a	PRE	4 a	0 na	0 na
3	Command	8.0	oz/a	0.188	lb ai/a	PRE	6 a	0 na	0 na
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
4	Command	8.0	oz/a	0.188	lb ai/a	PRE	6 a	0 na	0 na
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	COC	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
5	Command	8.0	oz/a	0.188	lb ai/a	PRE	6 a	0 na	0 na
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	MSO	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
6	Command	8.0	oz/a	0.188	lb ai/a	PRE	5 a	0 na	0 na
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	Dyne-A-Pak	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
7	Command	8.0	oz/a	0.188	lb ai/a	PRE	5 a	0 na	0 na
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	Triple Play	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
8	Command	8.0	oz/a	0.188	lb ai/a	PRE	5 a	0 na	0 na
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	Invade Xtra	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
9	Command	8.0	oz/a	0.188	lb ai/a	PRE	5 a	0 na	0 na
	Clincher	15.0	oz/a	0.0223	lb ai/a	PREF 4-5 BYG			
	COC	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
10	Command	8.0	oz/a	0.188	lb ai/a	PRE	5 a	0 na	0 na
	Clincher	15.0	oz/a	0.0223	lb ai/a	PREF 4-5 BYG			
	COC	2	% v/v	2.4	pt/a	PREF 4-5 BYG			
11	Command	8.0	oz/a	0.188	lb ai/a	PRE	6 a	0 na	0 na
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	COC	2.0	% v/v	2.4	pt/a	PREF 4-5 BYG			

Table 1. Continued

Rating Date							May-21-2024	Jun-17-2024	Jul-2-2024
Rating Type							INJURY	INJURY	INJURY
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							RICE	RICE	RICE
Pest Code							14DAPREFL	42DAPREL	56DAPREL
Treatment Appl. Interval							1*	2*	3*
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*
12	Command	8.0	oz/a	0.188	lb ai/a	PRE	6 a	0 na	0 na
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	MSO	2.0	% v/v	2.4	pt/a	PREF 4-5 BYG			
LSD P=.05							2.6	.	12.7
Standard Deviation							1.8	0.0	8.8
CV							36.24	0.0	11.73
Levene's F							0.639	.	3.366*
Levene's Prob(F)							0.783	.	0.003*
Shapiro-Wilk							0.8641*	.	0.9708
P(Shapiro-Wilk)							0.0*	.	0.2725
Skewness							0.9913*	.	-0.5355
P(Skewness)							0.0074*	.	0.1368
Kurtosis							1.7656*	.	1.0125
P(Kurtosis)							0.0145*	.	0.152
Replicate F							0.423	NaN	0.455
Replicate Prob(F)							0.7377	NaN	0.7155
Treatment F							3.808	NaN	46.158
Treatment Prob(F)							0.0014	NaN	0.0001

Table 2. Evaluation of adjuvant systems with Ricestar HT

Rating Date							May-21-2024	Jun-17-2024	Jul-2-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG
Treatment Appl. Interval							14DAPREFL	42DAPREL	56DAPREL
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	4*	5*	6*
1	Untreated Check						0 c	0 d	0 e
2	Command	8.0	oz/a	0.188	lb ai/a	PRE	25 b	0 d	3 e
3	Command	8.0	oz/a	0.188	lb ai/a	PRE	85 a	45 c	59 cd
4	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	90 a	70 b	80 ab
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
5	COC	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	85 a	45 c	55 cd
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
6	MSO	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	84 a	66 b	73 b
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
7	Dyne-A-Pak	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	89 a	68 b	81 ab
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
8	Triple Play	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	86 a	73 b	79 ab
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
9	Invade Xtra	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	84 a	40 c	49 d
	Clincher	15.0	oz/a	0.0223	lb ai/a	PREF 4-5 BYG			
10	COC	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	88 a	48 c	61 c
	Clincher	15.0	oz/a	0.0223	lb ai/a	PREF 4-5 BYG			
11	COC	2	% v/v	2.4	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	93 a	85 a	84 ab
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	COC	2.0	% v/v	2.4	pt/a	PREF 4-5 BYG			

Table 2. Continued

Rating Date							May-21-2024	Jun-17-2024	Jul-2-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG
Treatment Appl. Interval							14DAPREFL	42DAPREL	56DAPREL
Trt	Treatment	Rate	Rate	Other	Other	Appl	4*	5*	6*
No.	Name		Unit	Rate	Rate Unit	Timing			
12	Command	8.0	oz/a	0.188	lb ai/a	PRE	95 a	85 a	91 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	MSO	2.0	% v/v	2.4	pt/a	PREF 4-5 BYG			
LSD P=.05							12.7	6.4	9.2
Standard Deviation							8.8	4.5	6.4
CV							11.73	8.57	10.71
Levene's F							3.366*	2.02	1.078
Levene's Prob(F)							0.003*	0.056	0.405
Shapiro-Wilk							0.9708	0.9582	0.9857
P(Shapiro-Wilk)							0.2725	0.0854	0.8172
Skewness							-0.5355	0.2683	0.0659
P(Skewness)							0.1368	0.452	0.8529
Kurtosis							1.0125	-0.5077	-0.4665
P(Kurtosis)							0.152	0.4689	0.5055
Replicate F							0.455	1.496	0.766
Replicate Prob(F)							0.7155	0.2336	0.5210
Treatment F							46.158	165.621	89.305
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 3. Evaluation of adjuvant systems with Ricestar HT

Rating Date							May-21-2024	Jun-17-2024	Jul-2-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							BRAPP	BRAPP	BRAPP
Treatment Appl. Interval							14DAPREFL	42DAPREL	56DAPREL
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	7*	8*	9*
1	Untreated Check						0 c	0 c	0 c
2	Command	8.0	oz/a	0.188	lb ai/a	PRE	25 b	28 b	15 b
3	Command	8.0	oz/a	0.188	lb ai/a	PRE	88 a	70 a	90 a
4	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	93 a	88 a	91 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
5	COC	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	85 a	73 a	94 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
6	MSO	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	84 a	88 a	95 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
7	Dyne-A-Pak	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	89 a	85 a	95 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
8	Triple Play	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	84 a	86 a	94 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
9	Invade Xtra	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	85 a	78 a	94 a
	Clincher	15.0	oz/a	0.0223	lb ai/a	PREF 4-5 BYG			
10	COC	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	88 a	78 a	95 a
	Clincher	15.0	oz/a	0.0223	lb ai/a	PREF 4-5 BYG			
11	COC	2	% v/v	2.4	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	93 a	93 a	83 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	COC	2.0	% v/v	2.4	pt/a	PREF 4-5 BYG			

Table 3. Continued

Rating Date							May-21-2024	Jun-17-2024	Jul-2-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							BRAPP	BRAPP	BRAPP
Treatment Appl. Interval							14DAPREFL	42DAPREL	56DAPREL
Trt	Treatment	Rate	Rate	Other	Other	Appl	7*	8*	9*
No.	Name		Unit	Rate	Rate Unit	Timing			
12	Command	8.0	oz/a	0.188	lb ai/a	PRE	95 a	81 a	88 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	MSO	2.0	% v/v	2.4	pt/a	PREF 4-5 BYG			
LSD P=.05							11.7	16.2	11.7
Standard Deviation							8.1	11.3	8.1
CV							10.75	16.01	10.48
Levene's F							2.955*	1.308	3.347*
Levene's Prob(F)							0.007*	0.26	0.003*
Shapiro-Wilk							0.9518*	0.88*	0.9438*
P(Shapiro-Wilk)							0.0472*	0.0002*	0.0228*
Skewness							-0.4994	1.029*	0.1996
P(Skewness)							0.1646	0.0055*	0.5752
Kurtosis							2.4938*	6.7434*	2.5711*
P(Kurtosis)							0.0008*	0.0*	0.0006*
Replicate F							0.661	0.306	1.685
Replicate Prob(F)							0.5819	0.8209	0.1892
Treatment F							55.098	24.474	66.277
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 4. Evaluation of adjuvant systems with Ricestar HT

Rating Date							Jul-2-2024	Aug-9-2024	Aug-9-2024
Rating Type							CONTROL	HEIGHT	HEIGHT
Rating Unit							%	cm	cm
Rating Min/Max/Interval							0, 100, -		
Pest Type							W, Weed		
Pest Code							LEFPA	RICE	RICE
Treatment Appl. Interval							56DAPREL	HARVEST	HARVEST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	10*	11*	12*
1	Untreated Check						0 c	95 -	97 -
2	Command	8.0	oz/a	0.188	lb ai/a	PRE	36 b	101 -	100 -
3	Command	8.0	oz/a	0.188	lb ai/a	PRE	81 a	97 -	97 -
4	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	85 a	97 -	97 -
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
5	COC	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	84 a	98 -	98 -
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
6	MSO	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	84 a	97 -	97 -
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
7	Dyne-A-Pak	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	95 a	99 -	100 -
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
8	Triple Play	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	83 a	101 -	100 -
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
9	Invade Xtra	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	74 a	95 -	97 -
	Clincher	15.0	oz/a	0.0223	lb ai/a	PREF 4-5 BYG			
10	COC	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	75 a	101 -	100 -
	Clincher	15.0	oz/a	0.0223	lb ai/a	PREF 4-5 BYG			
11	COC	2	% v/v	2.4	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	94 a	97 -	98 -
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	COC	2.0	% v/v	2.4	pt/a	PREF 4-5 BYG			

Table 4. Continued

Rating Date							Jul-2-2024	Aug-9-2024	Aug-9-2024
Rating Type							CONTROL	HEIGHT	HEIGHT
Rating Unit							%	cm	cm
Rating Min/Max/Interval							0, 100, -		
Pest Type							W, Weed		
Pest Code							LEFPA	RICE	RICE
Treatment Appl. Interval							56DAPREL	HARVEST	HARVEST
Trt	Treatment		Rate	Other	Other	Appl	10*	11*	12*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
12	Command	8.0	oz/a	0.188	lb ai/a	PRE	94 a	99 -	103 -
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	MSO	2.0	% v/v	2.4	pt/a	PREF 4-5 BYG			
LSD P=.05							13.1	4.2	3.8
Standard Deviation							9.1	2.9	2.6
CV							12.37	2.99	2.68
Levene's F							2.611*	0.807	0.581
Levene's Prob(F)							0.015*	0.633	0.832
Shapiro-Wilk							0.9661	0.9805	0.9834
P(Shapiro-Wilk)							0.177	0.5982	0.7235
Skewness							-0.2661	0.3218	-0.1888
P(Skewness)							0.4556	0.3677	0.596
Kurtosis							0.7489	0.277	-0.3489
P(Kurtosis)							0.2869	0.6922	0.6181
Replicate F							0.274	1.485	0.337
Replicate Prob(F)							0.8436	0.2365	0.7988
Treatment F							37.506	2.144	2.136
Treatment Prob(F)							0.0001	0.0448	0.0456

Table 5. Evaluation of adjuvant systems with Ricestar HT

Rating Date							Aug-9-2024	Aug-9-2024	Aug-9-2024
Rating Type							HEIGHT	HEIGHT	AVG HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Type									
Pest Code									
Treatment Appl. Interval							RICE HARVEST	RICE HARVEST	RICE HARVEST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	13*	14*	15*
1	Untreated Check						99 -	99 -	97 -
2	Command	8.0	oz/a	0.188	lb ai/a	PRE	99 -	99 -	99 -
3	Command	8.0	oz/a	0.188	lb ai/a	PRE	80 -	98 -	93 -
4	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	99 -	99 -	98 -
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
5	COC	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	98 -	95 -	97 -
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
6	MSO	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	96 -	97 -	97 -
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
7	Dyne-A-Pak	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	100 -	95 -	99 -
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
8	Triple Play	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	103 -	98 -	101 -
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
9	Invade Xtra	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	98 -	96 -	96 -
	Clincher	15.0	oz/a	0.0223	lb ai/a	PREF 4-5 BYG			
10	COC	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	98 -	100 -	100 -
	Clincher	15.0	oz/a	0.0223	lb ai/a	PREF 4-5 BYG			
11	COC	2	% v/v	2.4	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	100 -	103 -	99 -
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	COC	2.0	% v/v	2.4	pt/a	PREF 4-5 BYG			

Table 5. Continued

							Aug-9-2024	Aug-9-2024	Aug-9-2024
							HEIGHT	HEIGHT	AVG HEIGHT
							cm	cm	cm
Rating Min/Max/Interval									
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	13*	14*	15*
No.	Name		Unit	Rate	Rate Unit	Timing			
12	Command	8.0	oz/a	0.188	lb ai/a	PRE	104 -	101 -	102 -
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	MSO	2.0	% v/v	2.4	pt/a	PREF 4-5 BYG			
LSD P=.05							20.9	6.7	5.8
Standard Deviation							14.5	4.6	4.0
CV							14.84	4.73	4.12
Levene's F							0.92	1.035	0.83
Levene's Prob(F)							0.532	0.438	0.612
Shapiro-Wilk							0.6567*	0.961	0.8339*
P(Shapiro-Wilk)							0.0*	0.1113	0.0*
Skewness							-3.1937*	-0.6095	-2.0254*
P(Skewness)							0.0*	0.0915	0.0*
Kurtosis							19.6318*	0.4885	9.771*
P(Kurtosis)							0.0*	0.4858	0.0*
Replicate F							1.254	1.775	1.610
Replicate Prob(F)							0.3062	0.1711	0.2057
Treatment F							0.712	1.033	1.301
Treatment Prob(F)							0.7182	0.4415	0.2672

Table 6. Evaluation of adjuvant systems with Ricestar HT

Rating Date							Aug-14-2024	Aug-14-2024	Aug-14-2024
Rating Type							YIELD	MOICON	YIELD
Rating Unit							LBS/PLOT	%	LB/A
Rating Min/Max/Interval								0, 100, -	
Pest Type									
Pest Code									
Treatment Appl. Interval							RICE HARVEST	RICE HARVEST	RICE HARVEST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	16*	17*	18*
1	Untreated Check						5.43 b	13.6 a-d	3769 b
2	Command	8.0	oz/a	0.188	lb ai/a	PRE	5.15 b	14.0 abc	3560 b
3	Command	8.0	oz/a	0.188	lb ai/a	PRE	8.76 a	14.5 a	6020 a
4	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	8.86 a	14.3 ab	6104 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
5	COC	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	8.38 a	14.1 abc	5786 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
6	MSO	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	9.04 a	14.1 abc	6241 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
7	Dyne-A-Pak	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	8.86 a	13.4 bcd	6168 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
8	Triple Play	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	9.11 a	13.1 cd	6363 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
9	Invade Xtra	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	8.74 a	13.5 bcd	6076 a
	Clincher	15.0	oz/a	0.0223	lb ai/a	PREF 4-5 BYG			
10	COC	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	8.76 a	13.2 bcd	6109 a
	Clincher	15.0	oz/a	0.0223	lb ai/a	PREF 4-5 BYG			
11	COC	2	% v/v	2.4	pt/a	PREF 4-5 BYG			
	Command	8.0	oz/a	0.188	lb ai/a	PRE	8.92 a	13.2 bcd	6222 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	COC	2.0	% v/v	2.4	pt/a	PREF 4-5 BYG			

Table 6. Continued

Rating Date							Aug-14-2024	Aug-14-2024	Aug-14-2024
Rating Type							YIELD	MOICON	YIELD
Rating Unit							LBS/PLOT	%	LB/A
Rating Min/Max/Interval								0, 100, -	
Pest Type							RICE	RICE	RICE
Pest Code							HARVEST	HARVEST	HARVEST
Treatment Appl. Interval									
Trt	Treatment		Rate	Other	Other	Appl	16*	17*	18*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
12	Command	8.0	oz/a	0.188	lb ai/a	PRE	9.21 a	12.7 d	6456 a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			
	MSO	2.0	% v/v	2.4	pt/a	PREF 4-5 BYG			
LSD P=.05							0.961	0.66	668.2
Standard Deviation							0.666	0.45	463.3
CV							8.09	3.33	8.1
Levene's F							0.787	1.599	0.804
Levene's Prob(F)							0.651	0.144	0.636
Shapiro-Wilk							0.9724	0.9643	0.9755
P(Shapiro-Wilk)							0.3393	0.1682	0.4355
Skewness							0.4001	0.5345	0.4108
P(Skewness)							0.2741	0.1461	0.2617
Kurtosis							0.6481	1.0288	0.7626
P(Kurtosis)							0.3661	0.1542	0.2884
Replicate F							3.738	0.611	3.905
Replicate Prob(F)							0.0211	0.6129	0.0178
Treatment F							17.640	5.579	17.824
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 7. Evaluation of adjuvant systems with Ricestar HT

Rating Date							Aug-14-2024		Aug-14-2024	
Rating Type							YIELD		YIELD	
Rating Unit							BU/A		KG/HA	
Rating Min/Max/Interval										
Pest Type										
Pest Code										
Treatment Appl. Interval							RICE		RICE	
							HARVEST		HARVEST	
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	19*		20*	
1	Untreated Check						84	b	4224	b
2	Command	8.0	oz/a	0.188	lb ai/a	PRE	79	b	3990	b
3	Command	8.0	oz/a	0.188	lb ai/a	PRE	134	a	6747	a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG				
4	Command	8.0	oz/a	0.188	lb ai/a	PRE	136	a	6841	a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG				
	COC	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG				
5	Command	8.0	oz/a	0.188	lb ai/a	PRE	129	a	6485	a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG				
	MSO	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG				
6	Command	8.0	oz/a	0.188	lb ai/a	PRE	139	a	6995	a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG				
	Dyne-A-Pak	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG				
7	Command	8.0	oz/a	0.188	lb ai/a	PRE	137	a	6913	a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG				
	Triple Play	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG				
8	Command	8.0	oz/a	0.188	lb ai/a	PRE	141	a	7132	a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG				
	Invade Xtra	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG				
9	Command	8.0	oz/a	0.188	lb ai/a	PRE	135	a	6811	a
	Clincher	15.0	oz/a	0.0223	lb ai/a	PREF 4-5 BYG				
	COC	1.0	% v/v	1.2	pt/a	PREF 4-5 BYG				
10	Command	8.0	oz/a	0.188	lb ai/a	PRE	136	a	6847	a
	Clincher	15.0	oz/a	0.0223	lb ai/a	PREF 4-5 BYG				
	COC	2	% v/v	2.4	pt/a	PREF 4-5 BYG				
11	Command	8.0	oz/a	0.188	lb ai/a	PRE	138	a	6973	a
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG				
	COC	2.0	% v/v	2.4	pt/a	PREF 4-5 BYG				

Table 7. Continued

Rating Date							Aug-14-2024		Aug-14-2024
Rating Type							YIELD		YIELD
Rating Unit							BU/A		KG/HA
Rating Min/Max/Interval									
Pest Type									
Pest Code							RICE		RICE
Treatment Appl. Interval							HARVEST		HARVEST
Trt	Treatment		Rate	Other	Other	Appl	19*		20*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
12	Command	8.0	oz/a	0.188	lb ai/a	PRE	143	a	7236
	Ricestar HT	17.0	oz/a	0.077	lb ai/a	PREF 4-5 BYG			a
	MSO	2.0	% v/v	2.4	pt/a	PREF 4-5 BYG			
LSD P=.05							14.8		748.9
Standard Deviation							10.3		519.3
CV							8.1		8.1
Levene's F							0.804		0.804
Levene's Prob(F)							0.636		0.636
Shapiro-Wilk							0.9755		0.9755
P(Shapiro-Wilk)							0.4355		0.4355
Skewness							0.4108		0.4108
P(Skewness)							0.2617		0.2617
Kurtosis							0.7626		0.7626
P(Kurtosis)							0.2884		0.2884
Replicate F							3.905		3.905
Replicate Prob(F)							0.0178		0.0178
Treatment F							17.824		17.824
Treatment Prob(F)							0.0001		0.0001

Rating Type	Rating Unit	Pest Type	Pest Code
HEIGHT = height	%, 0, 100 = percent	W, Weed = Weed or volunteer crop	ECHCG, Echinochloa crus-galli, common barnyardgrass=US
YIELD = yield	cm = centimeter		BRAPP, Brachiaria platyphylla, broad-leaved signal grass=US
MOICON = moisture content	KG/HA = kilogram per hectare		LEFPA, Leptochloa panicoides, Tighthead sprangletop=US

LSU AgCenter
School of Plant, Environmental and Soil Sciences

Evaluation of rogue herbicide applied as a single application compared to split applications

Experiment number : **C24-14**
 Location..... : RRS-Crowley, LA
 Experimental design : RCB
 Number of reps : 1
 Plot size : 5'x200'
 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 : 4/24/2024
 Emergence date..... : 4/29/2024
 Harvest date : 8/27/2024
 Uniform Stand Treatment..... : Command @ 8 oz/A + Sharpen @ 2 oz/a on 4/25/2024
 : Provisia @ 6 oz/A + Loyant @ 6 oz/A on 5/20/2024

Application type	EPOSTFL	LPOSTFL
Date applied [mm/dd/yy]	6/13/24	7/3/24
Time [hh:mm-mm:mm]	11:17-11:23a	9:28-9:27a
Air/Soil temperature [F]	83/78	85/80
Relative humidity [%]	62%	82%
Wind [mph, direction]	5-8, NE	2-4 ESE
Weather [sunny, etc].....	Sunny	Sunny
Soil/Leaf surface moist.....	Wet/dry	wet/dry
Crop stage/Height.....	2-3til/15-20"	4-5 til/32-40"
Sprayer type/MPH	BKPK/3.0	BKPK/3.0
Nozzle type/Size*	FF/11001	FF/11001
Boom ht/# Noz/Spacing.....	20/12/20	20/12/20
GPA/PSI	10/33	10/33
Applied by	LCW/GRS	GRS/CSB

Weed Species (population)..... :----- (height/#leaves) -----

AESIN (3-5m ²).....	5-8"/4-6lf	15-20"/12-16lf
ECHCG(8-10m ²).	2-4"/2-5lf	20-24"/4-5til
LEFPA (10-15m ²).....	2-3"/2-4lf	15-20"/4-5til
CNPPA (2-3m ²).....	4-6"/3-5lf	12-15"/6-8lf
CYPIR (10-20m ²)	1-3"/1-3lf	8-10"/6-12lf
CYPES (2-4m ²)	6-8"/6-9lf	8-12"/9-12lf

Flush Dates : NA
 Permanent Flood..... : 6/12/2024

*AMFF – Air mix flat fan nozzles

Table 1. Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications

Table 1. Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications							Jul-3-2024	Jul-15-2024	Jul-29-2024
Rating Date							INJURY	INJURY	INJURY
Rating Type							%	%	%
Rating Unit									
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							21 DA EPFL	14 DALPFL	26 DALPFL
Trt	Treatment	Rate	Rate	Other	Other	Appl	1*	2*	3*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	Untreated Check						0	0	0
2	ROGUE SC	0.335	lb ai/a	12.6	fl oz/a	EPOST	0	0	0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
3	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	0	0	0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	Urea	69	lb/a	69	lb/a	LPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
4	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	0	0	0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
	MSO	1	% v/v	12.8	fl oz/a	LPOST			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 2. Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications

Table 2: Evaluation of Rogue Herbicide Applied as a Single Application Compared to Split Applications							Jul-3-2024	Jul-15-2024	Jul-29-2024
Rating Date							CONTROL	CONTROL	CONTROL
Rating Type							%	%	%
Rating Unit									
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG
Treatment Appl. Interval							21 DA EPFL	14 DALPFL	26 DALPFL
Trt	Treatment	Rate	Rate	Other	Other	Appl	4*	5*	6*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	Untreated Check						0	0	0
2	ROGUE SC	0.335	lb ai/a	12.6	fl oz/a	EPOST	0	0	0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
3	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	0	0	0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	Urea	69	lb/a	69	lb/a	LPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
4	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	0	0	0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
	MSO	1	% v/v	12.8	fl oz/a	LPOST			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 3. Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications

Rating Date							Jul-3-2024	Jul-15-2024	Jul-29-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							LEFPA	LEFPA	LEFPA
Treatment Appl. Interval							21 DA EPFL	14 DALPFL	26 DLPFL
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	7*	8*	9*
1	Untreated Check						0	0	0
2	ROGUE SC	0.335	lb ai/a	12.6	fl oz/a	EPOST	80	90	95
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
3	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	85	99	99
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	Urea	69	lb/a	69	lb/a	LPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
4	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	85	90	95
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
	MSO	1	% v/v	12.8	fl oz/a	LPOST			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 4. Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications

Table 4. Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications							Jul-3-2024	Jul-15-2024	Jul-29-2024
Rating Date							CONTROL	CONTROL	CONTROL
Rating Type									
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							AESIN	AESIN	AESIN
Treatment Appl. Interval							21 DA EPFL	14 DALPFL	26 DALPFL
Trt	Treatment	Rate	Rate	Other	Other	Appl	10*	11*	12*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	Untreated Check						0	0	0
2	ROGUE SC	0.335	lb ai/a	12.6	fl oz/a	EPOST	0	0	0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
3	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	0	0	0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	Urea	69	lb/a	69	lb/a	LPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
4	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	0	0	0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
	MSO	1	% v/v	12.8	fl oz/a	LPOST			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 5. Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications

Table 3. Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications							Jul-3-2024	Jul-15-2024	Jul-29-2024
Rating Date							CONTROL	CONTROL	CONTROL
Rating Type									
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CNPPA	CNPPA	CNPPA
Treatment Appl. Interval							21 DA EPFL	14 DALPFL	26 DALPFL
Trt	Treatment	Rate	Rate	Other	Other	Appl	13*	14*	15*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	Untreated Check						0	0	0
2	ROGUE SC	0.335	lb ai/a	12.6	fl oz/a	EPOST	90	85	0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
3	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	90	85	0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	Urea	69	lb/a	69	lb/a	LPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
4	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	90	85	0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
	MSO	1	% v/v	12.8	fl oz/a	LPOST			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 6. Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications

Table 6: Evaluation of Rogue Herbicide Applied as a Single Application Compared to Split Applications							Jul-3-2024	Jul-15-2024	Jul-29-2024
Rating Date							CONTROL	CONTROL	CONTROL
Rating Type							%	%	%
Rating Unit									
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CYPIR	CYPIR	CYPIR
Treatment Appl. Interval							21 DA EPFL	14 DALPFL	26 DALPFL
Trt	Treatment	Rate	Rate	Other	Other	Appl	16*	17*	18*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	Untreated Check						0	0	0.0
2	ROGUE SC	0.335	lb ai/a	12.6	fl oz/a	EPOST	99	99	99.0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
3	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	99	99	99.0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	Urea	69	lb/a	69	lb/a	LPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
4	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	99	99	99.0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
	MSO	1	% v/v	12.8	fl oz/a	LPOST			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 7. Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications

Table 7: Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications							Jul-3-2024	Jul-15-2024	Jul-29-2024
Rating Date							CONTROL	CONTROL	CONTROL
Rating Type							%	%	%
Rating Unit									
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CYPES	CYPES	CYPES
Treatment Appl. Interval							21 DA EPFL	14 DALPFL	26 DALPFL
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	19*	20*	21*
1	Untreated Check						0	0	0.0
2	ROGUE SC	0.335	lb ai/a	12.6	fl oz/a	EPOST	0	0	0.0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
3	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	0	0	0.0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	Urea	69	lb/a	69	lb/a	LPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
4	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	0	0	0.0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
	MSO	1	% v/v	12.8	fl oz/a	LPOST			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 8. Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications

Rating Date							Aug-27-2024	Aug-27-2024	Aug-27-2024
Rating Type							HEIGHTS	HEIGHTS	HEIGHTS
Rating Unit							CM	CM	CM
Rating Min/Max/Interval									
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	22*	23*	24*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	Untreated Check						101	112	116
2	ROGUE SC	0.335	lb ai/a	12.6	fl oz/a	EPOST	109	112	107
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
3	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	104	112	102
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	Urea	69	lb/a	69	lb/a	LPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
4	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	109	111	105
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
	MSO	1	% v/v	12.8	fl oz/a	LPOST			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 9. Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications

Rating Date							Aug-27-2024	Aug-27-2024	Aug-27-2024
Rating Type							HEIGHTS	HEIGHTS	HEIGHTS
Rating Unit							CM	CM	CM
Rating Min/Max/Interval									
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	25*	26*	27*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	Untreated Check						118	104	114
2	ROGUE SC	0.335	lb ai/a	12.6	fl oz/a	EPOST	110	100	108
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
3	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	104	108	111
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	Urea	69	lb/a	69	lb/a	LPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
4	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	113	111	102
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
	MSO	1	% v/v	12.8	fl oz/a	LPOST			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 10. Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications

Rating Date							Aug-27-2024	Aug-27-2024	Aug-27-2024
Rating Type							AVG HEIGHTS	YIELD	MOICON
Rating Unit							CM	LBS/PLOT	%
Rating Min/Max/Interval									0, 100, -
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	28*	29*	30*
1	Untreated Check						111	145.90	18.6
2	ROGUE SC	0.335	lb ai/a	12.6	fl oz/a	EPOST	108	117.60	17.0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
3	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	107	111.90	19.1
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	Urea	69	lb/a	69	lb/a	LPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
4	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	109	84.28	18.0
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
	MSO	1	% v/v	12.8	fl oz/a	LPOST			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 11. Evaluation of Rogue Herbicide Applied as a Single Application compared to Split Applications

Rating Date							Aug-27-2024	Aug-27-2024	Aug-27-2024
Rating Type							YIELD	YIELD	YIELD
Rating Unit							LB/A	BU/A	KG/HA
Rating Min/Max/Interval									
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	31*	32*	33*
1	Untreated Check						3846	85	4311
2	ROGUE SC	0.335	lb ai/a	12.6	fl oz/a	EPOST	3161	70	3543
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
3	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	2932	65	3286
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	Urea	69	lb/a	69	lb/a	LPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
4	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	EPOST	2238	50	2509
	MSO	1	% v/v	12.8	fl oz/a	EPOST			
	ROGUE SC	0.167	lb ai/a	6.3	fl oz/a	LPOST			
	MSO	1	% v/v	12.8	fl oz/a	LPOST			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Rating Type	Rating Unit	Pest Type	Pest Code
YIELD = yield	%, 0, 100 = percent	W, Weed = Weed or volunteer crop	ECHCG, Echinochloa crus-galli, common barnyardgrass=US
MOICON = moisture content	cm = centimeter		LEFPA, Leptochloa panicoides, Tighthead sprangletop = US
	KG/HA = kilogram per hectare		AESIN, Aeschynomene indica, Budda pea = US
			CNPPA, Caperonia palustris, Birdeye = US
			CYPIR, Cyperus iria, Rice flatsedge = US
			CYPES, Cyperus esculentus, Yellow nutsedge = US

LSU AgCenter
School of Plant, Environmental and Soil Sciences

Sharpen.residual and provisia apps

Experiment number : **C24-15**
 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 : 4/24/2024
 Emergence date..... : 4/29/2024
 Harvest date : 8/27/2024
 Uniform Standard Treatment..... : 6/4/2024 Gambit @ 1.5 oz/A

Application type	PRE	EPOST	MPOST	POSTFL
Date applied [mm/dd/yy]	4/25/2024	5/15/24	5/28/24	6/13/24
Time [hh:mm-hh:mm]	N/A	11:15-11:30a	10:43-10:49a	9:15-9:17a
Air/Soil temperature [F]	80/75	82/70	86/74	78/73
Relative humidity [%]	81%	58%	84%	68%
Wind [mph, direction]	6-8, S	2-3, NW	4-6, ESE	5-8, NE
Weather [sunny, etc]	sunny	Sunny	Sunny	Sunny
Soil/Leaf surface moist.....	dry	Moist/wet	Dry/dry	Wet/dry
Crop stage/Height	N/A	2-3lf/3-5"	1-2til/7-12"	1-2til/10-15"
Sprayer type/MPH	BKPK/3	BKPK/3.0	BKPK/3.0	BKPK/3.0
Nozzle type/Size*	FF11001	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	LCW/WBC	WBC/DSL	SBS/GRS	GRS/LCW

Weed Species (population) :----- (height/#leaves) -----

CYPIR (60-80m ²)	NA	1-3"/1-2lf	NA	NA
SEBEX (5-15m ²)	NA	1-3"/1-3lf	NA	NA
AESIN (5-10m ²)	NA	1-3"/1-3lf	NA	NA
ECHCG (20-50m ²)	NA	2-3/1-3lf	8-10"/2-3til	10-15"/2-5til
ORYSA (20-30m ²)	NA	3-4"/1-2lf	10-15"/2-4til	12-20"/4-8til
ALRPH (0-1m ²)	NA	5-8"/6-12lf	10-15"/15-20lf	15-20"/25-40lf
CNPPA(1-3m ²)	NA	1-2"/cot-1lf	NA	NA
COMDI (1-3m ²)	NA	1-3"/2-3lf	NA	NA

Flush Dates : NA
 Permanent Flood..... : 6/12/2024

*AMFF – Air mix flat fan nozzles

Table 1. Sharpen/residual & Provisia apps

Rating Date							May-21-2024	Jun-3-2024	Jun-17-2024
Rating Type							INJURY	INJURY	INJURY
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							RICE	RICE	RICE
Pest Code							7 DA EPOST	7 DAMPOST	21 DAMPOST
Treatment Appl. Interval							1*	2*	3*
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing			
1	CHECK						0 c	0 c	0 b
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	3 c	0 c	0 b
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	15 a	10 a	0 b
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	8 b	7 b	2 b
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						0 c	0 c	0 b

Table 1. Continued

Rating Date							May-21-2024	Jun-3-2024	Jun-17-2024
Rating Type							INJURY	INJURY	INJURY
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							RICE	RICE	RICE
Pest Code							7 DA EPOST	7 DAMPOST	21 DAMPOST
Treatment Appl. Interval							1*	2*	3*
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	7 b	12 a	17 a
	ROUNDUP								
	POWERMAX3	670	g ai/ha	16	fl oz/a	PRE			
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							3.2	3.2	3.2
Standard Deviation							1.7	1.7	1.7
CV							31.46	37.02	57.21
Levene's F							0.133	0.87	0.87
Levene's Prob(F)							0.982	0.529	0.529
Shapiro-Wilk							0.9139	0.8399*	0.8399*
P(Shapiro-Wilk)							0.1009	0.0059*	0.0059*
Skewness							-0.0424	1.1019	1.1019
P(Skewness)							0.9426	0.0746	0.0746
Kurtosis							-1.2601	1.743	1.743
P(Kurtosis)							0.2772	0.1389	0.1389
Replicate F							3.182	0.455	0.455
Replicate Prob(F)							0.0852	0.6472	0.6472
Treatment F							32.364	28.818	44.091
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 2. Sharpen/residual & Provisia apps

Rating Date							Jul-1-2024	May-21-2024	Jun-3-2024
Rating Type							INJURY	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG
Treatment Appl. Interval							21 DA POFL	7 DA EPOST	7 DAMPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	4*	5*	6*
1	CHECK						0 c	0 c	0 c
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	0 c	82 b	65 b
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	0 c	99 a	99 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	7 b	99 a	99 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						0 c	0 c	0 c

Table 2. Continued

Rating Date							Jul-1-2024	May-21-2024	Jun-3-2024
Rating Type							INJURY	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type								W, Weed	W, Weed
Pest Code							RICE	ECHCG	ECHCG
Treatment Appl. Interval							21 DA POFL	7 DA EPOST	7 DAMPOST
Trt	Treatment	Rate	Rate	Other	Other	Appl	4*	5*	6*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	20 a	99 a	99 a
	ROUNDUP								
	POWERMAX3	670	g ai/ha	16	fl oz/a	PRE			
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							4.3	7.7	3.7
Standard Deviation							2.4	4.2	2.0
CV							53.03	6.73	3.38
Levene's F							1.20	1.219	2.133
Levene's Prob(F)							0.366	0.358	0.131
Shapiro-Wilk							0.8636*	0.8192*	0.8186*
P(Shapiro-Wilk)							0.014*	0.0029*	0.0028*
Skewness							0.484	-1.0327	0.0
P(Skewness)							0.4156	0.0929	1.0
Kurtosis							1.9593	4.8663*	4.8663*
P(Kurtosis)							0.0989	0.0004*	0.0004*
Replicate F							1.000	1.000	1.000
Replicate Prob(F)							0.4019	0.4019	0.4019
Treatment F							35.200	404.564	1697.376
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 3. Sharpen/residual & Provisia apps

Rating Date							Jun-17-2024	Jul-1-2024	May-21-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	SEBEX
Treatment Appl. Interval							21 DAMPOST	21 DA POFL	7 DA EPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	7*	8*	9*
1	CHECK						0 na	0 na	0 b
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	0 na	0 na	80 a
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 na	99 na	82 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 na	99 na	81 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						0 na	0 na	0 b

Table 3. Continued

Rating Date							Jun-17-2024	Jul-1-2024	May-21-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	SEBEX
Treatment Appl. Interval							21 DAMPOST	21 DA POFL	7 DA EPOST
Trt	Treatment		Rate	Other	Other	Appl	7*	8*	9*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 na	99 na	80 a
	ROUNDUP								
	POWERMAX3	670	g ai/ha	16	fl oz/a	PRE			
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							.	.	9.8
Standard Deviation							0.0	0.0	5.4
CV							0.0	0.0	9.97
Levene's F							.	.	0.792
Levene's Prob(F)							.	.	0.576
Shapiro-Wilk							.	.	0.9461
P(Shapiro-Wilk)							.	.	0.367
Skewness							.	.	-0.6423
P(Skewness)							.	.	0.2836
Kurtosis							.	.	0.6486
P(Kurtosis)							.	.	0.5709
Replicate F							NaN	NaN	0.269
Replicate Prob(F)							NaN	NaN	0.7696
Treatment F							NaN	NaN	181.284
Treatment Prob(F)							NaN	NaN	0.0001

Table 4. Sharpen/residual & Provisia apps

Rating Date							Jun-3-2024	Jun-17-2024	Jul-1-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							SEBEX	SEBEX	SEBEX
Treatment Appl. Interval							7 DAMPOST	21 DAMPOST	21 DA POFL
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	10*	11*	12*
1	CHECK						0 b	99 na	99 na
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	72 a	99 na	99 na
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	72 a	99 na	99 na
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	72 a	99 na	99 na
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						0 b	99 na	99 na

Table 4. Continued

Rating Date							Jun-3-2024	Jun-17-2024	Jul-1-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							SEBEX	SEBEX	SEBEX
Treatment Appl. Interval							7 DAMPOST	21 DAMPOST	21 DA POFL
Trt	Treatment	Rate	Rate	Other	Other	Appl	10*	11*	12*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	72 a	99 na	99 na
	ROUNDUP								
	POWERMAX3	670	g ai/ha	16	fl oz/a	PRE			
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							11.7	.	.
Standard Deviation							6.4	0.0	0.0
CV							13.47	0.0	0.0
Levene's F							0.305	.	.
Levene's Prob(F)							0.901	.	.
Shapiro-Wilk							0.9126	.	.
P(Shapiro-Wilk)							0.0957	.	.
Skewness							-0.9326	.	.
P(Skewness)							0.1263	.	.
Kurtosis							0.2827	.	.
P(Kurtosis)							0.8042	.	.
Replicate F							1.242	NaN	NaN
Replicate Prob(F)							0.3299	NaN	NaN
Treatment F							99.275	NaN	NaN
Treatment Prob(F)							0.0001	NaN	NaN

Table 5. Sharpen/residual & Provisia apps

Rating Date							May-21-2024	Jun-3-2024	Jun-17-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ALRPH	ALRPH	ALRPH
Treatment Appl. Interval							7 DA EPOST	7 DAMPOST	21 DAMPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	13*	14*	15*
1	CHECK						0 na	0 na	67 b
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	0 na	0 na	73 ab
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	0 na	0 na	70 ab
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	0 na	0 na	77 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						0 na	0 na	70 ab

Table 5. Continued

Rating Date							May-21-2024	Jun-3-2024	Jun-17-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ALRPH	ALRPH	ALRPH
Treatment Appl. Interval							7 DA EPOST	7 DAMPOST	21 DAMPOST
Trt	Treatment		Rate	Other	Other	Appl	13*	14*	15*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	0 na	0 na	70 ab
	ROUNDUP								
	POWERMAX3	670	g ai/ha	16	fl oz/a	PRE			
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							.	.	5.7
Standard Deviation							0.0	0.0	3.1
CV							0.0	0.0	4.38
Levene's F							.	.	0.733
Levene's Prob(F)							.	.	0.613
Shapiro-Wilk							.	.	0.9165
P(Shapiro-Wilk)							.	.	0.1123
Skewness							.	.	-0.8662
P(Skewness)							.	.	0.1536
Kurtosis							.	.	2.0186
P(Kurtosis)							.	.	0.0899
Replicate F							NaN	NaN	0.143
Replicate Prob(F)							NaN	NaN	0.8686
Treatment F							NaN	NaN	3.657
Treatment Prob(F)							NaN	NaN	0.0385

Table 6. Sharpen/residual & Provisia apps

Rating Date							Jul-1-2024	May-21-2024	Jun-3-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ALRPH	AESIN	AESIN
Treatment Appl. Interval							21 DA POFL	7 DA EPOST	7 DAMPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	16*	17*	18*
1	CHECK						68 -	0 b	0 b
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	63 -	99 a	78 a
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	68 -	99 a	83 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	68 -	98 a	82 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						68 -	0 b	0 b

Table 6. Continued

Rating Date							Jul-1-2024	May-21-2024	Jun-3-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ALRPH	AESIN	AESIN
Treatment Appl. Interval							21 DA POFL	7 DA EPOST	7 DAMPOST
Trt	Treatment	Rate	Rate	Other	Other	Appl	16*	17*	18*
No.	Name		Unit	Rate	Rate Unit	Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	72 -	99 a	83 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							5.4	1.7	4.0
Standard Deviation							3.0	0.9	2.2
CV							4.38	1.43	3.99
Levene's F							0.075	0.533	0.345
Levene's Prob(F)							0.995	0.747	0.876
Shapiro-Wilk							0.8407*	0.766*	0.9534
P(Shapiro-Wilk)							0.0061*	0.0005*	0.4802
Skewness							-0.5467	-1.3829*	-0.1765
P(Skewness)							0.3591	0.029*	0.7646
Kurtosis							-1.1521	4.8663*	-0.8673
P(Kurtosis)							0.319	0.0004*	0.4503
Replicate F							0.625	1.000	2.059
Replicate Prob(F)							0.5549	0.4019	0.1783
Treatment F							2.406	8762.501	1132.000
Treatment Prob(F)							0.1112	0.0001	0.0001

Table 7. Sharpen/residual & Provisia apps

Rating Date							Jun-17-2024	Jul-1-2024	May-21-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							AESIN	AESIN	CNPPA
Treatment Appl. Interval							21 DAMPOST	21 DA POFL	7 DA EPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	19*	20*	21*
1	CHECK						99 na	99 na	0 b
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 na	99 na	98 a
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 na	99 na	98 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 na	99 na	99 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						99 na	99 na	0 b

Table 7. Continued

							Jun-17-2024	Jul-1-2024	May-21-2024
Rating Date							CONTROL	CONTROL	CONTROL
Rating Type							%	%	%
Rating Unit									
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							AESIN	AESIN	CNPPA
Treatment Appl. Interval							21 DAMPOST	21 DA POFL	7 DA EPOST
Trt	Treatment	Rate	Rate	Other	Other	Appl	19*	20*	21*
No.	Name		Unit	Rate	Rate Unit	Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 na	99 na	96 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							.	.	4.0
Standard Deviation							0.0	0.0	2.2
CV							0.0	0.0	3.34
Levene's F							.	.	0.541
Levene's Prob(F)							.	.	0.742
Shapiro-Wilk							.	.	0.8028*
P(Shapiro-Wilk)							.	.	0.0017*
Skewness							.	.	-1.3467*
P(Skewness)							.	.	0.0329*
Kurtosis							.	.	4.712*
P(Kurtosis)							.	.	0.0006*
Replicate F							NaN	NaN	0.748
Replicate Prob(F)							NaN	NaN	0.4982
Treatment F							NaN	NaN	1610.767
Treatment Prob(F)							NaN	NaN	0.0001

Table 8. Sharpen/residual & Provisia apps

Rating Date							Jun-3-2024	Jun-17-2024	Jul-1-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CNPPA	CNPPA	CNPPA
Treatment Appl. Interval							7 DAMPOST	21 DAMPOST	21 DA POFL
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	22*	23*	24*
1	CHECK						0 c	90 b	95 -
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	90 b	89 b	99 -
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	93 b	90 b	99 -
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	92 b	92 b	99 -
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						0 c	92 b	93 -

Table 8. Continued

Rating Date							Jun-3-2024	Jun-17-2024	Jul-1-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CNPPA	CNPPA	CNPPA
Treatment Appl. Interval							7 DAMPOST	21 DAMPOST	21 DA POFL
Trt	Treatment	Rate	Rate	Other	Other	Appl	22*	23*	24*
No.	Name		Unit	Rate	Rate Unit	Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 a	98 a	99 -
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							2.9	3.7	4.6
Standard Deviation							1.6	2.0	2.5
CV							2.54	2.2	2.6
Levene's F							0.48	0.351	0.48
Levene's Prob(F)							0.785	0.872	0.785
Shapiro-Wilk							0.9584	0.9607	0.9584
P(Shapiro-Wilk)							0.5707	0.6149	0.5707
Skewness							0.0	-0.1082	0.0
P(Skewness)							1.0	0.8542	1.0
Kurtosis							0.2007	0.1304	0.2007
P(Kurtosis)							0.8602	0.9088	0.8602
Replicate F							1.667	0.707	1.667
Replicate Prob(F)							0.2373	0.5164	0.2373
Treatment F							2808.534	6.894	3.458
Treatment Prob(F)							0.0001	0.0049	0.0449

Table 9. Sharpen/residual & Provisia apps

Rating Date							May-21-2024	Jun-3-2024	Jun-17-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CYPIR	CYPIR	CYPIR
Treatment Appl. Interval							7 DA EPOST	7 DAMPOST	21 DAMPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	25*	26*	27*
1	CHECK						0 d	0 c	99 na
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	32 c	48 b	99 na
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	50 b	42 b	99 na
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	55 b	60 a	99 na
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						0 d	0 c	99 na

Table 9. Continued

Rating Date							May-21-2024	Jun-3-2024	Jun-17-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CYPIR	CYPIR	CYPIR
Treatment Appl. Interval							7 DA EPOST	7 DAMPOST	21 DAMPOST
Trt	Treatment	Rate	Rate	Other	Other	Appl	25*	26*	27*
No.	Name		Unit	Rate	Rate Unit	Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	83 a	67 a	99 na
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							7.6	9.6	.
Standard Deviation							4.2	5.3	0.0
CV							11.41	14.67	0.0
Levene's F							1.606	1.298	.
Levene's Prob(F)							0.232	0.328	.
Shapiro-Wilk							0.8909*	0.9454	.
P(Shapiro-Wilk)							0.04*	0.3577	.
Skewness							-0.4174	-0.2864	.
P(Skewness)							0.4815	0.6278	.
Kurtosis							1.6839	1.4095	.
P(Kurtosis)							0.1519	0.2262	.
Replicate F							0.238	0.347	NaN
Replicate Prob(F)							0.7925	0.7153	NaN
Treatment F							185.333	91.802	NaN
Treatment Prob(F)							0.0001	0.0001	NaN

Table 10. Sharpen/residual & Provisia apps

Rating Date							Jul-1-2024	May-21-2024	Jun-3-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CYPIR	ORYSA	ORYSA
Treatment Appl. Interval							21 DA POFL	7 DA EPOST	7 DAMPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	28*	29*	30*
1	CHECK						99 na	0 d	0 c
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 na	0 d	0 c
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 na	95 b	83 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 na	92 c	77 b
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						99 na	0 d	0 c

Table 10. Continued

							Jul-1-2024	May-21-2024	Jun-3-2024
Rating Date							CONTROL	CONTROL	CONTROL
Rating Type							%	%	%
Rating Unit									
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CYPIR	ORYSA	ORYSA
Treatment Appl. Interval							21 DA POFL	7 DA EPOST	7 DAMPOST
Trt	Treatment	Rate	Rate	Other	Other	Appl	28*	29*	30*
No.	Name		Unit	Rate	Rate Unit	Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 na	98 a	80 ab
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							.	2.6	4.4
Standard Deviation							0.0	1.4	2.4
CV							0.0	3.03	6.04
Levene's F							.	0.485	0.525
Levene's Prob(F)							.	0.781	0.753
Shapiro-Wilk							.	0.9564	0.9453
P(Shapiro-Wilk)							.	0.5332	0.3566
Skewness							.	0.338	-0.4338
P(Skewness)							.	0.5678	0.4647
Kurtosis							.	0.4495	0.219
P(Kurtosis)							.	0.6938	0.8476
Replicate F							NaN	1.649	2.143
Replicate Prob(F)							NaN	0.2405	0.1681
Treatment F							NaN	3938.298	989.714
Treatment Prob(F)							NaN	0.0001	0.0001

Table 11. Sharpen/residual & Provisia apps

Rating Date							Jun-17-2024	Jul-1-2024	May-21-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ORYSA	ORYSA	COMDI
Treatment Appl. Interval							21 DAMPOST	21 DA POFL	7 DA EPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	31*	32*	33*
1	CHECK						0 b	0 b	0 b
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	0 b	0 b	99 a
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	78 a	77 a	98 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	78 a	83 a	99 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						0 b	0 b	0 b

Table 11. Continued

Rating Date							Jun-17-2024	Jul-1-2024	May-21-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ORYSA	ORYSA	COMDI
Treatment Appl. Interval							21 DAMPOST	21 DA POFL	7 DA EPOST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	31*	32*	33*
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	73 a	73 a	98 a
	ROUNDUP								
	POWERMAX3	670	g ai/ha	16	fl oz/a	PRE			
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							8.0	11.6	2.5
Standard Deviation							4.4	6.4	1.4
CV							11.42	16.35	2.13
Levene's F							1.023	1.613	0.87
Levene's Prob(F)							0.447	0.23	0.529
Shapiro-Wilk							0.9296	0.8789*	0.8399*
P(Shapiro-Wilk)							0.1914	0.025*	0.0059*
Skewness							-0.2913	0.4428	-1.1019
P(Skewness)							0.6219	0.4556	0.0746
Kurtosis							1.9171	4.017*	1.743
P(Kurtosis)							0.1058	0.0023*	0.1389
Replicate F							0.217	0.793	0.455
Replicate Prob(F)							0.8083	0.4788	0.6472
Treatment F							276.522	135.318	3956.228
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 12. Sharpen/residual & Provisia apps

Rating Date							Jun-3-2024	Jun-17-2024	Jul-1-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							COMDI	COMDI	COMDI
Treatment Appl. Interval							7 DAMPOST	21 DAMPOST	21 DA POFL
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	34*	35*	36*
1	CHECK						0 b	99 na	99 na
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 a	99 na	99 na
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 a	99 na	99 na
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 a	99 na	99 na
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						0 b	99 na	99 na

Table 12. Continued

Rating Date							Jun-3-2024	Jun-17-2024	Jul-1-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							COMDI	COMDI	COMDI
Treatment Appl. Interval							7 DAMPOST	21 DAMPOST	21 DA POFL
Trt	Treatment	Rate	Rate	Other	Other	Appl	34*	35*	36*
No.	Name		Unit	Rate	Rate Unit	Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	98 a	99 na	99 na
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							1.7	.	.
Standard Deviation							0.9	0.0	0.0
CV							1.41	0.0	0.0
Levene's F							0.507	.	.
Levene's Prob(F)							0.766	.	.
Shapiro-Wilk							0.8158*	.	.
P(Shapiro-Wilk)							0.0026*	.	.
Skewness							-1.2128	.	.
P(Skewness)							0.0518	.	.
Kurtosis							3.9249*	.	.
P(Kurtosis)							0.0028*	.	.
Replicate F							1.623	NaN	NaN
Replicate Prob(F)							0.2452	NaN	NaN
Treatment F							9088.429	NaN	NaN
Treatment Prob(F)							0.0001	NaN	NaN

Table 13. Sharpen/residual & Provisia apps

Rating Date							Jun-3-2024	Jun-17-2024	Jul-1-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CYPES	CYPES	CYPES
Treatment Appl. Interval							7 DAMPOST	21 DAMPOST	21 DA POFL
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	37*	38*	39*
1	CHECK						0 c	99 -	99 na
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 a	98 -	99 na
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 a	98 -	99 na
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	86 b	98 -	99 na
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						0 c	99 -	99 na

Table 13. Continued

Rating Date							Jun-3-2024	Jun-17-2024	Jul-1-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CYPES	CYPES	CYPES
Treatment Appl. Interval							7 DAMPOST	21 DAMPOST	21 DA POFL
Trt	Treatment	Rate	Rate	Other	Other	Appl	37*	38*	39*
No.	Name		Unit	Rate	Rate Unit	Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 a	96 -	99 na
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							8.1	3.4	.
Standard Deviation							4.5	1.9	0.0
CV							7.01	1.93	0.0
Levene's F							0.533	0.41	.
Levene's Prob(F)							0.747	0.833	.
Shapiro-Wilk							0.766*	0.9135	.
P(Shapiro-Wilk)							0.0005*	0.0994	.
Skewness							1.3829*	-0.4495	.
P(Skewness)							0.029*	0.449	.
Kurtosis							4.8663*	-0.221	.
P(Kurtosis)							0.0004*	0.8462	.
Replicate F							1.000	1.000	NaN
Replicate Prob(F)							0.4019	0.4019	NaN
Treatment F							369.944	0.850	NaN
Treatment Prob(F)							0.0001	0.5451	NaN

Table 14. Sharpen/residual & Provisia apps

Rating Date							Jul-1-2024	Aug-21-2024	Aug-21-2024
Rating Type							CONTROL	Heights	Heights
Rating Unit							%	cm	cm
Rating Min/Max/Interval							0, 100, -		
Pest Type							W, Weed		
Pest Code							LEFPA	RICE	RICE
Treatment Appl. Interval							21 DA POFL	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	40*	41*	42*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	CHECK						0 na	96 b	93 cd
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	0 na	98 b	99 bc
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 na	106 ab	107 ab
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 na	110 a	114 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						0 na	85 c	87 d

Table 14. Continued

Rating Date							Jul-1-2024	Aug-21-2024	Aug-21-2024
Rating Type							CONTROL	Heights	Heights
Rating Unit							%	cm	cm
Rating							0, 100, -		
Min/Max/Interval									
Pest Type							W, Weed		
Pest Code							LEFPA	RICE	RICE
Treatment Appl. Interval							21 DA POFL	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	40*	41*	42*
No.	Name		Unit	Rate	Rate Unit	Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	99 na	113 a	115 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							.	9.8	9.2
Standard Deviation							0.0	5.4	5.0
CV							0.0	5.31	4.93
Levene's F							.	0.697	0.629
Levene's Prob(F)							.	0.636	0.681
Shapiro-Wilk							.	0.9589	0.9627
P(Shapiro-Wilk)							.	0.5805	0.6552
Skewness							.	0.5033	0.5548
P(Skewness)							.	0.3976	0.3522
Kurtosis							.	1.4842	0.5741
P(Kurtosis)							.	0.2036	0.6156
Replicate F							NaN	1.254	0.041
Replicate Prob(F)							NaN	0.3267	0.9595
Treatment F							NaN	11.730	15.286
Treatment Prob(F)							NaN	0.0006	0.0002

Table 15. Sharpen/residual & Provisia apps

Rating Date							Aug-21-2024	Aug-21-2024	Aug-21-2024
Rating Type							Heights	heights	AVG heights
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	43*	44*	45*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	CHECK						91 b	91 b	93 bc
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	101 a	96 b	99 b
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	114 a	107 a	108 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	114 a	114 a	113 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						87 b	91 b	87 c

Table 15. Continued

Rating Date							Aug-21-2024	Aug-21-2024	Aug-21-2024
Rating Type							Heights	heights	AVG heights
Rating Unit							cm	cm	cm
Rating									
Min/Max/Interval									
Pest Type									
Pest Code									
Treatment Appl. Interval							RICE	RICE	RICE
							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	43*	44*	45*
No.	Name		Unit	Rate	Rate Unit	Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	114 a	113 a	114 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							9.5	8.6	7.8
Standard Deviation							5.2	4.7	4.3
CV							5.06	4.65	4.22
Levene's F							0.295	0.369	0.555
Levene's Prob(F)							0.906	0.861	0.732
Shapiro-Wilk							0.9215	0.8984	0.9485
P(Shapiro-Wilk)							0.1374	0.054	0.4014
Skewness							0.7265	-0.9867	0.4134
P(Skewness)							0.2273	0.1071	0.4857
Kurtosis							-0.352	0.5347	0.7322
P(Kurtosis)							0.7576	0.6399	0.5229
Replicate F							0.817	1.630	0.323
Replicate Prob(F)							0.4690	0.2438	0.7313
Treatment F							16.529	15.426	19.779
Treatment Prob(F)							0.0001	0.0002	0.0001

Table 16. Sharpen/residual & Provisia apps

Rating Date							Aug-27-2024	Aug-27-2024	Aug-27-2024
Rating Type							YIELD	MOI CON	YIELD
Rating Unit							LB/PLOT	%	LB
Rating Min/Max/Interval								0, 100, -	
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	46*	47*	48*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	CHECK						1.87 b	17.9 a	583 b
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	4.39 b	17.5 a	1375 b
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	14.12 a	18.1 a	4384 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	14.22 a	19.4 a	4351 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL			
5	CHECK						1.47 b	6.1 b	454 b

Table 16. Continued

Rating Date							Aug-27-2024	Aug-27-2024	Aug-27-2024
Rating Type							YIELD	MOI CON	YIELD
Rating Unit							LB/PLOT	%	LB
Rating								0, 100, -	
Min/Max/Interval									
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	46*	47*	48*
No.	Name		Unit	Rate	Rate Unit	Timing			
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	13.96 a	18.6 a	4313 a
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE			
	POWERMAX3								
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST			
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST			
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST			
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST			
LSD P=.05							2.651	8.06	821.6
Standard Deviation							1.457	4.43	451.6
CV							17.48	27.25	17.53
Levene's F							0.538	0.551	0.567
Levene's Prob(F)							0.745	0.735	0.724
Shapiro-Wilk							0.9751	0.8646*	0.9802
P(Shapiro-Wilk)							0.8855	0.0145*	0.9517
Skewness							0.0378	1.3429*	0.0168
P(Skewness)							0.9488	0.0333*	0.9772
Kurtosis							-0.537	4.3213*	-0.4999
P(Kurtosis)							0.6384	0.0013*	0.6617
Replicate F							5.097	0.933	5.081
Replicate Prob(F)							0.0298	0.4252	0.0300
Treatment F							57.705	3.826	56.933
Treatment Prob(F)							0.0001	0.0338	0.0001

Table 17. Sharpen/residual & Provisia apps

Rating Date							Aug-27-2024	Aug-27-2024
Rating Type							YIELD	YIELD
Rating Unit							KG	BU
Rating Min/Max/Interval								
Pest Type								
Pest Code								
Treatment Appl. Interval							RICE	RICE
							HARVEST	HARVEST
Trt	Treatment		Rate	Rate	Other	Other	Appl	
No.	Name		Unit	Rate	Rate	Unit	Timing	
1	CHECK							49*
2	SHARPEN	50	g ai/ha	2	fl oz/a	PRE		50*
	ROUNDUP	1340	g ai/ha	32	fl oz/a	PRE		
	POWERMAX3							
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE		
3	SHARPEN	50	g ai/ha	2	fl oz/a	PRE		
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE		
	POWERMAX3							
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE		
	PROVISIA	120	g ai/ha	15.5	fl oz/a	EPOST		
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST		
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST		
	PROVISIA	120	g ai/ha	15.5	fl oz/a	MPOST		
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST		
4	SHARPEN	50	g ai/ha	2	fl oz/a	PRE		
	ROUNDUP	670	g ai/ha	16	fl oz/a	PRE		
	POWERMAX3							
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE		
	PROVISIA	85	g ai/ha	11	fl oz/a	EPOST		
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST		
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST		
	PROVISIA	77	g ai/ha	10	fl oz/a	MPOST		
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST		
	PROVISIA	77	g ai/ha	10	fl oz/a	POSTFL		
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	POSTFL		
5	CHECK							

Table 17. Continued

Rating Date							Aug-27-2024	Aug-27-2024
Rating Type							YIELD	YIELD
Rating Unit							KG	BU
Rating Min/Max/Interval								
Pest Type								
Pest Code							RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST
Trt	Treatment		Rate	Other	Other	Appl	49*	50*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing		
6	SHARPEN	50	g ai/ha	2	fl oz/a	PRE	4834 a	96 a
	ROUNDUP							
	POWERMAX3	670	g ai/ha	16	fl oz/a	PRE		
	COMMAND 3 ME	210	g ai/ha	8	fl oz/a	PRE		
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	EPOST		
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	EPOST		
	PROWL H2O	1060	g ai/ha	32	fl oz/a	EPOST		
	HIGHCARD	120	g ai/ha	15.5	fl oz/a	MPOST		
	ADJUVANT-COC	12.8	fl oz/a	1	%v/v	MPOST		
LSD P=.05							920.9	18.3
Standard Deviation							506.2	10.0
CV							17.53	17.53
Levene's F							0.567	0.567
Levene's Prob(F)							0.724	0.724
Shapiro-Wilk							0.9802	0.9802
P(Shapiro-Wilk)							0.9517	0.9517
Skewness							0.0168	0.0168
P(Skewness)							0.9772	0.9772
Kurtosis							-0.4999	-0.4999
P(Kurtosis)							0.6617	0.6617
Replicate F							5.081	5.081
Replicate Prob(F)							0.0300	0.0300
Treatment F							56.933	56.933
Treatment Prob(F)							0.0001	0.0001

Rating Type	Rating Unit	Pest Type	Pest Code
YIELD = yield	%, 0, 100 = percent cm = centimeter LB/PLOT = pounds per plot LB = pound KG = kilogram BU = bushel	W, Weed = Weed or volunteer crop	ECHCG, Echinochloa crus-galli, common barnyardgrass=US SEBEX, Sesbania herbacea, Hemp sesbania = US ALRPH, Alternanthera philoxeroides, Alligatorweed = US AESIN, Aeschynomene indica, Budda pea = US CNPPA, Caperonia palustris, Birdeye = US CYPIR, Cyperus iria, Rice flatsedge = US ORYSA, Oryza sativa, Common rice = US COMDI, Commelina diffusa, baby dayflower = US CYPES, Cyperus esculentus, Yellow nutsedge = US LEFPA, Leptochloa panicoides, Tighthead sprangletop = US

LSU AgCenter
School of Plant, Environmental and Soil Sciences

Simulated Newpath carryover in PVL03

Experiment number : **C24-16**
Location..... : RRS-Crowley, LA
Experimental design : RCB
Number of reps..... : 4
Plot size : 5'x17'
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 : PVLO3 @ 70 lbs/A
Planting date : 4/19/2024
Emergence date..... : 5/2/2024
Harvest date..... : 8/21/2024
Uniform standard treatment..... : Preplant: Roundup @ 32 oz/A + Permit @ 1 oz/A on 4/19; Stam @ 3qts/A + Loyant 4 fl oz/A on 5/9

Application type : PRE
Date applied [mm/dd/yy]..... : 4/5/24
Time [hh:mm-hh:mm] : 12:00-12:30p
Air/Soil temperature [F] : 75/65
Relative humidity [%] : 47%
Wind [mph, direction] : 4-6, WNW
Weather [sunny, etc]..... : Sunny
Soil/Leaf surface moist..... : Dry/NA
Crop stage/Height..... : N/A
Sprayer type/MPH : BKPK/3.0
Nozzle type/Size* : FF/110015
Boom ht/# Noz/Spacing..... : 15/5/15
GPA/PSI : 15/25
Applied by : SBS

Weed Species (population)..... :- (height/#leaves) -

Flush Dates : 4/24/2024
Permanent Flood..... : 5/15/2024

*AMFF – Air mix flat fan nozzles

Table 1. Simulated Newpath carryover in PVL03

Rating Date							May-14-2024	May-21-2024	May-8-2024
Rating Type							INJURY	INJURY	STAND
Rating Unit							%	%	count
Rating Min/Max/Interval							0, 100, -	0, 100, -	
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							14 DAE	21 DAE	7 DAE
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*
1	nontreated						0 b	0 b	16 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	20 a	28 a	18 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	21 a	28 a	17 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	23 a	34 a	18 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	21 a	31 a	16 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	25 a	36 a	14 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	24 a	33 a	17 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	26 a	39 a	13 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	28 a	38 a	11 -
LSD P=.05							7.1	9.3	8.1
Standard Deviation							4.8	6.4	5.6
CV							23.21	21.65	36.31
Levene's F							0.891	1.997	1.285
Levene's Prob(F)							0.537	0.086	0.292
Shapiro-Wilk							0.9724	0.98	0.9746
P(Shapiro-Wilk)							0.4948	0.7438	0.5633
Skewness							0.4598	0.1467	-0.1119
P(Skewness)							0.2682	0.7218	0.7859
Kurtosis							0.4174	0.0106	-0.3567
P(Kurtosis)							0.605	0.9895	0.6583
Replicate F							13.030	4.103	3.106
Replicate Prob(F)							0.0001	0.0175	0.0454
Treatment F							11.495	13.581	0.714
Treatment Prob(F)							0.0001	0.0001	0.6773

Table 2. Simulated Newpath carryover in PVL03

Rating Date							May-14-2024	May-21-2024	AVG STAND
Rating Type							STAND	STAND	
Rating Unit							count	count	
Rating Min/Max/Interval									
Pest Code							14 DAE	RICE	RICE
Treatment Appl. Interval							HARVEST	21 DAE	
Trt	Treatment	Rate	Rate	Other	Other	Appl	4*	5*	6*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						15 -	18 -	16 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	17 -	13 -	16 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	13 -	16 -	15 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	15 -	13 -	15 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	18 -	13 -	15 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	11 -	14 -	13 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	14 -	15 -	15 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	15 -	11 -	13 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	13 -	13 -	12 -
LSD P=.05							4.8	6.2	5.1
Standard Deviation							3.3	4.2	3.5
CV							23.1	30.3	24.04
Levene's F							1.414	0.842	1.103
Levene's Prob(F)							0.236	0.574	0.392
Shapiro-Wilk							0.9745	0.9819	0.9847
P(Shapiro-Wilk)							0.5599	0.8091	0.8898
Skewness							-0.3584	-0.1023	-0.0646
P(Skewness)							0.3865	0.8038	0.8753
Kurtosis							-0.4941	-0.588	-0.4893
P(Kurtosis)							0.5407	0.4671	0.5446
Replicate F							8.856	0.206	2.908
Replicate Prob(F)							0.0004	0.8915	0.0553
Treatment F							1.773	0.879	0.683
Treatment Prob(F)							0.1327	0.5480	0.7025

Table 3. Simulated Newpath carryover in PVL03

Rating Date							May-8-2024	May-8-2024	May-8-2024
Rating Type							HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							7 DAE	7 DAE	7 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	7*	8*	9*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						13 -	12 -	13 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	13 -	15 -	15 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	12 -	14 -	15 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	12 -	13 -	13 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	14 -	16 -	15 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	14 -	14 -	13 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	16 -	14 -	15 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	12 -	14 -	13 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	12 -	12 -	14 -
LSD P=.05							3.1	2.5	3.8
Standard Deviation							2.1	1.7	2.6
CV							16.38	12.74	18.57
Levene's F							0.743	1.144	0.761
Levene's Prob(F)							0.653	0.367	0.639
Shapiro-Wilk							0.9765	0.9467	0.9747
P(Shapiro-Wilk)							0.6271	0.0822	0.5674
Skewness							-0.2807	0.2094	0.3463
P(Skewness)							0.4968	0.6116	0.4026
Kurtosis							1.4078	-1.1608	-0.2666
P(Kurtosis)							0.0871	0.1555	0.7408
Replicate F							2.911	2.831	1.892
Replicate Prob(F)							0.0551	0.0598	0.1579
Treatment F							1.363	1.399	0.752
Treatment Prob(F)							0.2620	0.2471	0.6463

Table 4. Simulated Newpath carryover in PVL03

Rating Date							May-8-2024	May-8-2024	May-14-2024
Rating Type							HEIGHT	AVG HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							7 DAE	7 DAE	14 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	10*	11*	12*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						13 -	12 -	22 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	16 -	15 -	22 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	15 -	14 -	19 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	12 -	13 -	18 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	15 -	15 -	23 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	11 -	13 -	20 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	15 -	15 -	20 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	14 -	13 -	21 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	15 -	13 -	24 -
LSD P=.05							3.5	2.3	3.7
Standard Deviation							2.4	1.5	2.5
CV							17.68	11.44	11.97
Levene's F							0.885	0.639	1.059
Levene's Prob(F)							0.542	0.738	0.42
Shapiro-Wilk							0.9599	0.9699	0.9718
P(Shapiro-Wilk)							0.2138	0.424	0.4775
Skewness							0.4411	0.1278	-0.3337
P(Skewness)							0.2879	0.7563	0.4197
Kurtosis							-0.4507	0.5332	-0.2418
P(Kurtosis)							0.5766	0.5093	0.7642
Replicate F							6.049	5.634	2.462
Replicate Prob(F)							0.0032	0.0045	0.0870
Treatment F							1.810	1.454	1.675
Treatment Prob(F)							0.1245	0.2259	0.1563

Table 5. Simulated Newpath carryover in PVL03

Rating Date							May-14-2024	May-14-2024	May-14-2024
Rating Type							HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							14 DAE	14 DAE	14 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	13*	14*	15*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						23 -	23 -	22 a
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	21 -	20 -	21 a
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	21 -	22 -	22 a
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	22 -	24 -	23 a
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	21 -	22 -	23 a
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	19 -	22 -	23 a
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	22 -	21 -	22 a
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	21 -	23 -	22 a
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	21 -	20 -	18 b
LSD P=.05							2.8	3.5	2.3
Standard Deviation							1.9	2.4	1.6
CV							9.05	11.07	7.35
Levene's F							1.218	0.933	0.747
Levene's Prob(F)							0.326	0.506	0.651
Shapiro-Wilk							0.9612	0.8904*	0.9722
P(Shapiro-Wilk)							0.2348	0.0019*	0.4896
Skewness							-0.4489	-1.3765*	0.267
P(Skewness)							0.2795	0.0019*	0.5179
Kurtosis							-0.0726	5.1495*	-0.7418
P(Kurtosis)							0.9282	0.0*	0.3599
Replicate F							1.357	0.223	0.672
Replicate Prob(F)							0.2797	0.8793	0.5779
Treatment F							1.237	1.244	3.350
Treatment Prob(F)							0.3211	0.3173	0.0102

Table 6. Simulated Newpath carryover in PVL03

Rating Date							May-14-2024	May-21-2024	May-21-2024
Rating Type							AVG HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							14 DAE	21 DAE	21 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	16*	17*	18*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						22 -	34 -	36 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	21 -	34 -	33 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	21 -	35 -	34 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	22 -	34 -	32 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	22 -	33 -	35 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	21 -	33 -	34 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	21 -	32 -	32 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	22 -	35 -	35 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	21 -	31 -	34 -
LSD P=.05							2.0	4.1	2.9
Standard Deviation							1.3	2.8	2.0
CV							6.27	8.32	5.87
Levene's F							1.464	0.579	0.857
Levene's Prob(F)							0.216	0.786	0.563
Shapiro-Wilk							0.9871	0.9717	0.9701
P(Shapiro-Wilk)							0.9431	0.4724	0.4286
Skewness							0.0025	0.3794	0.481
P(Skewness)							0.9952	0.3596	0.2472
Kurtosis							-0.0024	-0.3392	0.9354
P(Kurtosis)							0.9976	0.674	0.2501
Replicate F							1.334	1.382	2.942
Replicate Prob(F)							0.2865	0.2722	0.0535
Treatment F							0.778	0.759	1.409
Treatment Prob(F)							0.6260	0.6406	0.2430

Table 7. Simulated Newpath carryover in PVL03

Rating Date							May-21-2024	May-21-2024	May-21-2024
Rating Type							HEIGHT	HEIGHT	AVG HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							21 DAE	21 DAE	21 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	19*	20*	21*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						34 -	35 -	35 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	34 -	35 -	34 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	35 -	34 -	34 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	33 -	36 -	34 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	34 -	35 -	34 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	35 -	34 -	34 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	33 -	34 -	33 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	34 -	36 -	35 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	35 -	33 -	33 -
LSD P=.05							3.0	3.1	2.1
Standard Deviation							2.0	2.1	1.4
CV							5.98	6.07	4.22
Levene's F							0.82	0.595	1.642
Levene's Prob(F)							0.592	0.774	0.159
Shapiro-Wilk							0.9633	0.9823	0.9636
P(Shapiro-Wilk)							0.272	0.8206	0.2776
Skewness							-0.2279	-0.0014	-0.1376
P(Skewness)							0.5807	0.9972	0.7383
Kurtosis							2.2087*	-0.5725	-0.6525
P(Kurtosis)							0.0091*	0.4788	0.42
Replicate F							5.613	12.160	7.532
Replicate Prob(F)							0.0046	0.0001	0.0010
Treatment F							0.313	0.878	0.823
Treatment Prob(F)							0.9535	0.5485	0.5907

Table 8. Simulated Newpath carryover in PVL03

Rating Date							Jul-9-2024	Jul-15-2024	Jul-29-2024
Rating Type							HEADING	HEADING	HEADING
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							70 DAE	77 DAE	91 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	22*	23*	24*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						20 a	80 a	99 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	11 b	63 b	99 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	11 b	66 b	98 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	10 b	64 b	98 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	10 b	60 b	98 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	10 b	59 b	97 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	9 b	58 b	97 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	11 b	59 b	98 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	8 b	55 b	97 -
LSD P=.05							5.2	7.6	2.8
Standard Deviation							3.6	5.2	1.9
CV							32.11	8.33	1.99
Levene's F							0.744	1.064	1.525
Levene's Prob(F)							0.653	0.416	0.195
Shapiro-Wilk							0.9654	0.9423	0.8899*
P(Shapiro-Wilk)							0.3141	0.0599	0.0018*
Skewness							0.3298	0.8641*	-0.5074
P(Skewness)							0.4251	0.0417*	0.2227
Kurtosis							0.0503	1.4979	-0.9461
P(Kurtosis)							0.9502	0.0694	0.2448
Replicate F							2.473	10.769	0.471
Replicate Prob(F)							0.0861	0.0001	0.7056
Treatment F							3.982	8.077	0.647
Treatment Prob(F)							0.0040	0.0001	0.7310

Table 9. Simulated Newpath carryover in PVL03

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type							HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							112 DAE	112 DAE	112 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	25*	26*	27*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						107 -	110 -	107 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	110 -	110 -	107 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	109 -	108 -	109 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	110 -	112 -	110 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	111 -	111 -	112 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	109 -	110 -	111 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	110 -	111 -	112 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	109 -	112 -	113 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	112 -	111 -	111 -
LSD P=.05							5.8	4.9	4.3
Standard Deviation							4.0	3.3	3.0
CV							3.63	3.02	2.7
Levene's F							3.271*	0.915	0.621
Levene's Prob(F)							0.01*	0.52	0.753
Shapiro-Wilk							0.9644	0.992	0.9723
P(Shapiro-Wilk)							0.2927	0.9951	0.491
Skewness							0.3502	0.156	0.6068
P(Skewness)							0.3974	0.705	0.1466
Kurtosis							0.8197	0.0298	0.8406
P(Kurtosis)							0.3124	0.9705	0.3004
Replicate F							1.325	0.047	4.285
Replicate Prob(F)							0.2894	0.9863	0.0148
Treatment F							0.398	0.724	2.249
Treatment Prob(F)							0.9105	0.6693	0.0596

Table 10. Simulated Newpath carryover in PVL03

Rating Date							Aug-20-2024	Aug-20-2024	Aug-21-2024
Rating Type							HEIGHT	AVG HEIGHT	YIELD
Rating Unit							cm	cm	LBS/PLOT
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							112 DAE	112 DAE	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	28*	29*	30*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						110 -	108 -	8.50 ab
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	110 -	109 -	7.95 b
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	109 -	109 -	9.00 a
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	113 -	111 -	8.81 ab
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	112 -	112 -	9.08 a
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	109 -	109 -	8.35 ab
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	113 -	111 -	8.60 ab
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	110 -	111 -	9.11 a
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	112 -	111 -	8.52 ab
LSD P=.05							4.9	3.5	0.628
Standard Deviation							3.3	2.4	0.430
CV							3.02	2.15	4.97
Levene's F							0.499	0.41	0.472
Levene's Prob(F)							0.846	0.905	0.865
Shapiro-Wilk							0.9733	0.9659	0.9339*
P(Shapiro-Wilk)							0.5216	0.3233	0.0329*
Skewness							0.1429	0.2588	0.1095
P(Skewness)							0.7287	0.5307	0.7903
Kurtosis							-0.7959	-0.5981	-1.3417
P(Kurtosis)							0.3265	0.4595	0.1023
Replicate F							3.870	2.303	83.720
Replicate Prob(F)							0.0217	0.1026	0.0001
Treatment F							0.922	1.243	3.164
Treatment Prob(F)							0.5160	0.3177	0.0136

Table 11. Simulated Newpath carryover in PVL03

Rating Date							Aug-21-2024	Aug-21-2024	Aug-21-2024
Rating Type							MOICON	YIELD	YIELD
Rating Unit							%	KG/HA	LB/A
Rating Min/Max/Interval							0, 100, -		
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	31*	32*	33*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						14.4 -	5852 ab	5221 ab
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	14.4 -	5475 b	4885 b
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	14.2 -	6211 a	5542 a
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	13.8 -	6107 ab	5449 ab
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	13.8 -	6303 a	5624 a
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	14.2 -	5766 ab	5144 ab
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	13.9 -	5957 ab	5314 ab
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	13.3 -	6353 a	5668 a
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	13.2 -	5952 ab	5310 ab
LSD P=.05							0.94	442.7	395.0
Standard Deviation							0.64	303.4	270.6
CV							4.62	5.06	5.06
Levene's F							0.444	0.51	0.51
Levene's Prob(F)							0.884	0.838	0.838
Shapiro-Wilk							0.9407	0.9308*	0.9308*
P(Shapiro-Wilk)							0.0533	0.0265*	0.0265*
Skewness							0.6515	0.2503	0.2503
P(Skewness)							0.1199	0.5441	0.5441
Kurtosis							0.0287	-1.2785	-1.2785
P(Kurtosis)							0.9716	0.1189	0.1189
Replicate F							2.216	80.616	80.616
Replicate Prob(F)							0.1123	0.0001	0.0001
Treatment F							1.937	3.419	3.419
Treatment Prob(F)							0.1006	0.0092	0.0092

Table 12. Simulated Newpath carryover in PVL03

Rating Date							Aug-21-2024
Rating Type							YIELD
Rating Unit							BU/A
Rating Min/Max/Interval							
Pest Code							RICE
Treatment Appl. Interval							HARVEST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	34*
1	nontreated						116 ab
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	109 b
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	123 a
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	121 ab
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	125 a
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	114 ab
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	118 ab
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	126 a
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	118 ab
LSD P=.05							8.8
Standard Deviation							6.0
CV							5.06
Levene's F							0.51
Levene's Prob(F)							0.838
Shapiro-Wilk							0.9308*
P(Shapiro-Wilk)							0.0265*
Skewness							0.2503
P(Skewness)							0.5441
Kurtosis							-1.2785
P(Kurtosis)							0.1189
Replicate F							80.616
Replicate Prob(F)							0.0001
Treatment F							3.419
Treatment Prob(F)							0.0092

Rating Type**Rating Unit**

HEIGHT = height	%, 0, 100 = percent
YIELD = yield	cm = centimeter
MOICON = moisture content	KG/HA = kilograms per hectare

LSU AgCenter
School of Plant, Environmental and Soil Sciences

Simulated Newpath carryover in Jupiter

Experiment number : **C24-17**
 Location..... : RRS-Crowley, LA
 Experimental design : RCB
 Number of reps..... : 4
 Plot size : 5'x17'
 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 : Jupiter @ 70 lbs/A
 Planting date : 4/19
 Emergence date..... : 5/2
 Harvest date..... : 8/21/2024
 Uniform standard treatment..... : Preplant: Roundup @ 32 oz/A + Permit @ 1 oz/A on 4/19 ;Stam @ 3qts/A +
 Loyant 4 fl oz/A on 5/9

Application type : PRE
 Date applied [mm/dd/yy]..... : 4/5/24
 Time [hh:mm-hh:mm] : 12:00-12:30p
 Air/Soil temperature [F] : 75/65
 Relative humidity [%] : 47%
 Wind [mph, direction] : 4-6, WNW
 Weather [sunny, etc]..... : Sunny
 Soil/Leaf surface moist..... : Dry/NA
 Crop stage/Height..... : N/A
 Sprayer type/MPH : BKPK/3.0
 Nozzle type/Size* : FF/110015
 Boom ht/# Noz/Spacing..... : 15/5/15
 GPA/PSI : 15/25
 Applied by : SBS

Weed Species (population)..... :- (height/#leaves) -

Flush Dates : 4/24/2024
 Permanent Flood..... : 5/15/2024

*AMFF – Air mix flat fan nozzles

Table 1. Simulated Newpath carryover in Jupiter

Rating Date							May-14-2024	May-21-2024	May-7-2024
Rating Type							INJURY	INJURY	STAND
Rating Unit							%	%	count
Rating Min/Max/Interval							0, 100, -	0, 100, -	
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							14 DAE	21 DAE	7 DAE
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*
1	nontreated						0 b	0 d	6 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	20 a	28 c	6 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	18 a	36 ab	8 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	23 a	34 b	6 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	24 a	36 ab	10 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	25 a	39 ab	9 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	24 a	33 b	9 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	25 a	39 ab	10 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	26 a	41 a	7 -
LSD P=.05							5.7	4.4	4.8
Standard Deviation							3.9	3.0	3.3
CV							18.96	9.52	42.57
Levene's F							1.309	1.836	0.731
Levene's Prob(F)							0.281	0.114	0.664
Shapiro-Wilk							0.9802	0.9797	0.9459
P(Shapiro-Wilk)							0.7529	0.7363	0.0776
Skewness							0.1052	0.0811	0.8582*
P(Skewness)							0.7984	0.8439	0.043*
Kurtosis							0.2915	-0.4122	1.3467
P(Kurtosis)							0.7177	0.6095	0.1011
Replicate F							2.147	3.465	0.826
Replicate Prob(F)							0.1207	0.0320	0.4926
Treatment F							17.618	69.306	0.993
Treatment Prob(F)							0.0001	0.0001	0.4659

Table 2. Simulated Newpath carryover in Jupiter

Rating Date							May-14-2024	May-21-2024	AVG STAND
Rating Type							STAND	STAND	
Rating Unit							count	count	
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							14 DAE	21 DAE	
Trt	Treatment	Rate	Rate	Other	Other	Appl	4*	5*	6*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						15 -	18 -	13 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	17 -	17 -	13 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	16 -	14 -	13 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	18 -	14 -	13 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	15 -	17 -	14 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	17 -	15 -	13 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	15 -	16 -	13 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	15 -	13 -	13 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	14 -	15 -	12 -
LSD P=.05							7.3	5.0	3.6
Standard Deviation							5.0	3.5	2.5
CV							32.02	22.37	19.17
Levene's F							0.932	0.484	2.113
Levene's Prob(F)							0.506	0.857	0.07
Shapiro-Wilk							0.9489	0.9501	0.9758
P(Shapiro-Wilk)							0.0964	0.1055	0.6045
Skewness							0.3296	0.6913	0.1817
P(Skewness)							0.4255	0.0996	0.6593
Kurtosis							-0.9909	0.9545	-0.0201
P(Kurtosis)							0.2235	0.2407	0.9801
Replicate F							1.964	2.637	0.864
Replicate Prob(F)							0.1463	0.0727	0.4730
Treatment F							0.209	0.962	0.223
Treatment Prob(F)							0.9863	0.4874	0.9831

Table 3. Simulated Newpath carryover in Jupiter

Rating Date							May-7-2024	May-7-2024	May-7-2024
Rating Type							HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							7 DAE	7 DAE	7 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	7*	8*	9*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						14 -	14 -	13 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	12 -	12 -	11 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	15 -	14 -	13 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	14 -	11 -	13 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	12 -	12 -	12 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	12 -	12 -	13 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	12 -	13 -	14 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	11 -	13 -	13 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	13 -	13 -	14 -
LSD P=.05							3.2	4.4	2.7
Standard Deviation							2.2	3.0	1.9
CV							17.28	23.88	14.61
Levene's F							1.029	0.851	1.377
Levene's Prob(F)							0.439	0.568	0.251
Shapiro-Wilk							0.9741	0.9596	0.9819
P(Shapiro-Wilk)							0.5464	0.2089	0.8074
Skewness							0.0913	0.3931	0.0867
P(Skewness)							0.8246	0.3427	0.8332
Kurtosis							-0.3086	1.1513	0.1725
P(Kurtosis)							0.7019	0.1589	0.8305
Replicate F							1.443	1.788	3.378
Replicate Prob(F)							0.2550	0.1764	0.0348
Treatment F							1.160	0.402	0.689
Treatment Prob(F)							0.3622	0.9085	0.6971

Table 4. Simulated Newpath carryover in Jupiter

Rating Date							May-7-2024	May-7-2024	May-14-2024
Rating Type							HEIGHT	AVG HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							7 DAE	7 DAE	14 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	10*	11*	12*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						16 -	14 -	16 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	38 -	18 -	17 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	14 -	14 -	17 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	12 -	12 -	17 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	13 -	12 -	15 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	13 -	12 -	16 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	12 -	13 -	16 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	12 -	12 -	17 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	14 -	13 -	16 -
LSD P=.05							24.4	6.4	2.7
Standard Deviation							16.7	4.4	1.9
CV							104.91	32.4	11.63
Levene's F							0.71	0.937	1.436
Levene's Prob(F)							0.68	0.503	0.227
Shapiro-Wilk							0.6415*	0.7491*	0.9747
P(Shapiro-Wilk)							0.0*	0.0*	0.5655
Skewness							2.9124*	2.4811*	0.2608
P(Skewness)							0.0*	0.0*	0.5275
Kurtosis							15.3488*	12.3739*	0.3448
P(Kurtosis)							0.0*	0.0*	0.669
Replicate F							0.972	1.381	13.501
Replicate Prob(F)							0.4224	0.2725	0.0001
Treatment F							0.983	0.782	0.384
Treatment Prob(F)							0.4731	0.6224	0.9187

Table 5. Simulated Newpath carryover in Jupiter

Rating Date							May-14-2024	May-14-2024	May-14-2024
Rating Type							HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							14 DAE	14 DAE	14 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	13*	14*	15*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						17 -	16 -	16 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	18 -	17 -	17 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	16 -	17 -	17 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	18 -	16 -	18 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	15 -	15 -	17 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	16 -	17 -	17 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	16 -	18 -	17 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	15 -	18 -	16 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	17 -	17 -	17 -
LSD P=.05							2.8	2.8	2.8
Standard Deviation							1.9	1.9	1.9
CV							11.93	11.49	11.18
Levene's F							0.384	1.787	1.734
Levene's Prob(F)							0.919	0.124	0.136
Shapiro-Wilk							0.9736	0.969	0.986
P(Shapiro-Wilk)							0.5306	0.3992	0.9192
Skewness							-0.3585	0.4864	0.0156
P(Skewness)							0.3864	0.242	0.9699
Kurtosis							-0.3447	-0.2417	0.0416
P(Kurtosis)							0.669	0.7643	0.9588
Replicate F							4.948	1.103	0.464
Replicate Prob(F)							0.0082	0.3673	0.7102
Treatment F							0.958	0.909	0.350
Treatment Prob(F)							0.4905	0.5256	0.9366

Table 6. Simulated Newpath carryover in Jupiter

Rating Date							May-14-2024	May-21-2024	May-21-2024
Rating Type							AVG HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							14 DAE	21 DAE	21 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	16*	17*	18*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						16 -	25 -	25 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	17 -	26 -	26 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	17 -	23 -	25 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	17 -	24 -	26 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	15 -	23 -	24 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	16 -	23 -	24 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	16 -	23 -	25 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	17 -	24 -	25 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	17 -	22 -	24 -
LSD P=.05							1.5	3.3	2.2
Standard Deviation							1.1	2.2	1.5
CV							6.4	9.42	6.22
Levene's F							0.67	0.446	0.911
Levene's Prob(F)							0.713	0.882	0.523
Shapiro-Wilk							0.9672	0.9809	0.9763
P(Shapiro-Wilk)							0.3545	0.7758	0.6212
Skewness							-0.1651	-0.1688	-0.1775
P(Skewness)							0.6887	0.6821	0.6667
Kurtosis							0.588	-0.3007	-0.3737
P(Kurtosis)							0.4671	0.7092	0.6432
Replicate F							9.984	2.535	5.030
Replicate Prob(F)							0.0002	0.0807	0.0076
Treatment F							0.838	1.485	1.095
Treatment Prob(F)							0.5786	0.2146	0.4004

Table 7. Simulated Newpath carryover in Jupiter

Rating Date							May-21-2024	May-21-2024	May-21-2024
Rating Type							HEIGHT	HEIGHT	AVG HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							21 DAE	21 DAE	21 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	19*	20*	21*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						24 -	26 ab	25 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	26 -	24 b	25 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	27 -	29 a	26 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	26 -	27 ab	26 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	24 -	25 ab	24 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	24 -	25 ab	24 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	26 -	26 ab	25 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	25 -	25 ab	25 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	24 -	27 ab	24 -
LSD P=.05							2.6	2.6	2.0
Standard Deviation							1.8	1.8	1.4
CV							7.0	6.82	5.53
Levene's F							0.264	0.363	0.815
Levene's Prob(F)							0.972	0.931	0.596
Shapiro-Wilk							0.9829	0.935*	0.9497
P(Shapiro-Wilk)							0.8382	0.0355*	0.1024
Skewness							-0.2498	-0.9254*	-0.0718
P(Skewness)							0.5451	0.0299*	0.8615
Kurtosis							-0.0855	1.0087	-0.9075
P(Kurtosis)							0.9155	0.2155	0.2642
Replicate F							3.883	3.574	4.672
Replicate Prob(F)							0.0214	0.0288	0.0104
Treatment F							1.391	2.751	0.968
Treatment Prob(F)							0.2502	0.0262	0.4833

Table 8. Simulated Newpath carryover in Jupiter

Rating Date							Jul-9-2024	Jul-15-2024	Jul-29-2024
Rating Type							HEADING	HEADING	HEADING
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							70 DAE	77 DAE	91 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	22*	23*	24*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	nontreated						3 -	28 a	81 a
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	1 -	11 b	73 b
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	1 -	14 b	71 b
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	0 -	8 c	65 bc
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	1 -	6 c	61 c
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	1 -	5 c	60 c
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	0 -	5 c	65 bc
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	3 -	5 c	60 c
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	1 -	6 c	59 c
LSD P=.05							3.5	3.6	7.1
Standard Deviation							2.4	2.5	4.9
CV							190.52	25.23	7.35
Levene's F							0.659	1.221	0.387
Levene's Prob(F)							0.722	0.324	0.918
Shapiro-Wilk							0.8863*	0.9409	0.9647
P(Shapiro-Wilk)							0.0015*	0.0543	0.2989
Skewness							0.8492*	-0.4385	-0.523
P(Skewness)							0.0451*	0.2906	0.2091
Kurtosis							-0.4045	-0.027	-0.169
P(Kurtosis)							0.6162	0.9733	0.8339
Replicate F							0.449	1.692	3.294
Replicate Prob(F)							0.7203	0.1953	0.0377
Treatment F							0.551	35.769	9.559
Treatment Prob(F)							0.8064	0.0001	0.0001

Table 9. Simulated Newpath carryover in Jupiter

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type							HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							112 DAE	112 DAE	112 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	25*	26*	27*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						91 -	92 -	94 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	89 -	88 -	90 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	90 -	90 -	90 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	89 -	87 -	88 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	86 -	88 -	90 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	85 -	88 -	86 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	92 -	94 -	93 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	90 -	89 -	89 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	90 -	87 -	88 -
LSD P=.05							5.5	6.1	6.4
Standard Deviation							3.8	4.2	4.4
CV							4.26	4.67	4.91
Levene's F							1.245	0.824	0.591
Levene's Prob(F)							0.312	0.589	0.777
Shapiro-Wilk							0.9768	0.976	0.9731
P(Shapiro-Wilk)							0.6365	0.6094	0.5165
Skewness							-0.2964	-0.0324	-0.405
P(Skewness)							0.4731	0.9373	0.3285
Kurtosis							0.3855	-0.8078	-0.2703
P(Kurtosis)							0.6328	0.3194	0.7374
Replicate F							1.103	1.136	3.591
Replicate Prob(F)							0.3672	0.3545	0.0283
Treatment F							1.439	1.404	1.203
Treatment Prob(F)							0.2313	0.2449	0.3386

Table 10. Simulated Newpath carryover in Jupiter

Rating Date							Aug-20-2024	Aug-20-2024	Aug-21-2024
Rating Type							HEIGHT	AVG HEIGHT	YIELD
Rating Unit							cm	cm	LBS/PLOT
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							112 DAE	112 DAE	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	28*	29*	30*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						94 -	93 -	2.96 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	90 -	89 -	2.78 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	89 -	90 -	2.80 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	91 -	89 -	2.82 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	88 -	88 -	2.07 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	89 -	87 -	2.14 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	92 -	93 -	2.21 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	87 -	89 -	2.48 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	89 -	88 -	2.12 -
LSD P=.05							5.2	4.6	0.697
Standard Deviation							3.6	3.1	0.476
CV							3.97	3.51	19.08
Levene's F							0.689	0.641	0.244
Levene's Prob(F)							0.698	0.737	0.978
Shapiro-Wilk							0.9607	0.9835	0.9412
P(Shapiro-Wilk)							0.2266	0.8573	0.067
Skewness							0.6223	-0.1944	-0.6933
P(Skewness)							0.1368	0.6373	0.1088
Kurtosis							0.2462	-0.5352	0.6991
P(Kurtosis)							0.76	0.5077	0.4013
Replicate F							0.453	1.686	2.328
Replicate Prob(F)							0.7175	0.1967	0.1024
Treatment F							1.610	1.672	2.357
Treatment Prob(F)							0.1743	0.1570	0.0533

Table 11. Simulated Newpath carryover in Jupiter

Rating Date							Aug-21-2024	Aug-21-2024	Aug-21-2024
Rating Type							MOICON	YIELD	YIELD
Rating Unit							%	KG/HA	LB/A
Rating Min/Max/Interval							0, 100, -		
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment		Rate	Other	Other	Appl	31*	32*	33*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	nontreated						23.1 -	1771.6 -	1580.6 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	23.1 -	1659.5 -	1480.6 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	23.5 -	1661.9 -	1482.7 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	23.1 -	1691.7 -	1509.3 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	20.9 -	1248.7 -	1114.0 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	21.8 -	1292.0 -	1152.7 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	22.7 -	1326.9 -	1183.8 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	22.7 -	1486.7 -	1326.4 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	21.6 -	1290.2 -	1151.1 -
LSD P=.05							3.50	384.86	343.36
Standard Deviation							2.40	262.44	234.14
CV							10.67	17.54	17.54
Levene's F							0.548	0.215	0.215
Levene's Prob(F)							0.81	0.985	0.985
Shapiro-Wilk							0.8594*	0.9475	0.9475
P(Shapiro-Wilk)							0.0003*	0.1036	0.1036
Skewness							-1.8375*	-0.6498	-0.6498
P(Skewness)							0.0*	0.1319	0.1319
Kurtosis							5.7324*	0.5353	0.5353
P(Kurtosis)							0.0*	0.5195	0.5195
Replicate F							1.057	2.366	2.366
Replicate Prob(F)							0.3858	0.0985	0.0985
Treatment F							0.532	2.591	2.591
Treatment Prob(F)							0.8206	0.0367	0.0367

Table 12. Simulated Newpath carryover in Jupiter

Rating Date							Aug-21-2024
Rating Type							YIELD
Rating Unit							BU
Rating Min/Max/Interval							
Pest Code							RICE
Treatment Appl. Interval							HARVEST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	34*
1	nontreated						35.1 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	32.9 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	32.9 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	33.5 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	24.8 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	25.6 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	26.3 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	29.5 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	25.6 -
LSD P=.05							7.63
Standard Deviation							5.20
CV							17.54
Levene's F							0.215
Levene's Prob(F)							0.985
Shapiro-Wilk							0.9475
P(Shapiro-Wilk)							0.1036
Skewness							-0.6498
P(Skewness)							0.1319
Kurtosis							0.5353
P(Kurtosis)							0.5195
Replicate F							2.366
Replicate Prob(F)							0.0985
Treatment F							2.591
Treatment Prob(F)							0.0367

Rating Type**Rating Unit**

HEIGHT = height	% , 0, 100 = percent
YIELD = yield	cm = centimeter
MOICON = moisture content	KG/HA = kilograms per hectare
	BU = bushel

LSU AgCenter
School of Plant, Environmental and Soil Sciences

Simulated Newpath carryover in Avant

Experiment number : **C24-18**
 Location : RRS-Crowley, LA
 Experimental design : RCB
 Number of reps : 4
 Plot size : 5'x17'
 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 : Avant @ 70 lbs/A
 Planting date : 4/19
 Emergence date..... : 5/2
 Harvest date : 8/21/2024
 Uniform standard treatment..... : Preplant: Roundup @ 32 oz/A + Permit @ 1 oz/A on 4/19 ;Stam @ 3qts/A + Loyant 4 fl oz/A on 5/9

Application type : PRE
 Date applied [mm/dd/yy] : 4/5/24
 Time [hh:mm-hh:mm] : 12:00-12:30p
 Air/Soil temperature [F] : 75/65
 Relative humidity [%] : 47%
 Wind [mph, direction] : 4-6, WNW
 Weather [sunny, etc]..... : Sunny
 Soil/Leaf surface moist..... : Dry/NA
 Crop stage/Height : N/A
 Sprayer type/MPH : BKPK/3.0
 Nozzle type/Size* : FF/110015
 Boom ht/# Noz/Spacing..... : 15/5/15
 GPA/PSI : 15/25
 Applied by : SBS

Weed Species (population) :- (height/#leaves) -

Flush Dates : 4/24/2024
 Permanent Flood..... : 5/15/2024

*AMFF – Air mix flat fan nozzles

Table 1. Simulated Newpath carryover in Avant

Rating Date							May-14-2024	May-21-2024	May-8-2024
Rating Type							INJURY	INJURY	STAND
Rating Unit							%	%	count
Rating Min/Max/Interval							0, 100, -	0, 100, -	
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							14 DAE	21 DAE	7 DAE
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*
1	nontreated						0 b	0 c	19 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	28 a	45 b	19 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	33 a	55 ab	16 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	33 a	56 ab	16 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	34 a	56 ab	16 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	33 a	50 ab	16 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	36 a	61 ab	15 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	34 a	59 ab	17 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	38 a	64 a	15 -
LSD P=.05							6.9	11.4	6.3
Standard Deviation							4.7	7.8	4.3
CV							15.87	15.8	26.3
Levene's F							0.621	1.407	1.028
Levene's Prob(F)							0.753	0.238	0.44
Shapiro-Wilk							0.9757	0.9542	0.9807
P(Shapiro-Wilk)							0.5982	0.1413	0.7697
Skewness							0.1668	0.0168	-0.2303
P(Skewness)							0.6857	0.9674	0.5767
Kurtosis							0.2009	-1.104	0.2862
P(Kurtosis)							0.8031	0.1762	0.7226
Replicate F							2.299	7.336	1.283
Replicate Prob(F)							0.1030	0.0012	0.3027
Treatment F							23.740	24.693	0.362
Treatment Prob(F)							0.0001	0.0001	0.9304

Table 2. Simulated Newpath carryover in Avant

Rating Date							May-14-2024	May-21-2024	AVG STAND
Rating Type							STAND	STAND	
Rating Unit							count	count	
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							14 DAE	21 DAE	
Trt	Treatment	Rate	Rate	Other	Other	Appl	4*	5*	6*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						8 -	11 -	12 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	7 -	10 -	12 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	7 -	5 -	9 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	8 -	7 -	10 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	6 -	7 -	10 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	8 -	7 -	10 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	9 -	7 -	10 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	9 -	8 -	11 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	8 -	7 -	10 -
LSD P=.05							4.2	4.6	3.3
Standard Deviation							2.8	3.1	2.3
CV							37.16	42.15	21.38
Levene's F							0.613	3.499*	3.821*
Levene's Prob(F)							0.759	0.007*	0.004*
Shapiro-Wilk							0.9443	0.9249*	0.9688
P(Shapiro-Wilk)							0.0692	0.0176*	0.3927
Skewness							0.8174	0.7601	0.0464
P(Skewness)							0.0533	0.0713	0.9102
Kurtosis							0.6897	3.5453*	0.8347
P(Kurtosis)							0.3943	0.0*	0.3038
Replicate F							2.966	1.580	3.874
Replicate Prob(F)							0.0522	0.2203	0.0216
Treatment F							0.447	1.116	0.769
Treatment Prob(F)							0.8806	0.3878	0.6331

Table 3. Simulated Newpath carryover in Avant

Rating Date							May-8-2024	May-8-2024	May-8-2024
Rating Type							HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							7 DAE	7 DAE	7 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	7*	8*	9*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						11 -	11 -	11 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	11 -	10 -	12 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	9 -	10 -	10 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	11 -	10 -	10 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	9 -	9 -	9 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	11 -	11 -	10 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	11 -	10 -	10 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	10 -	10 -	9 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	9 -	10 -	11 -
LSD P=.05							2.4	1.9	3.2
Standard Deviation							1.6	1.3	2.2
CV							16.05	13.24	21.63
Levene's F							0.589	0.593	1.108
Levene's Prob(F)							0.778	0.775	0.388
Shapiro-Wilk							0.9618	0.9575	0.9612
P(Shapiro-Wilk)							0.2444	0.1798	0.2339
Skewness							0.3661	-0.3538	0.6996
P(Skewness)							0.3764	0.3926	0.0958
Kurtosis							1.0832	-0.2436	1.4676
P(Kurtosis)							0.1843	0.7624	0.075
Replicate F							3.055	5.599	4.281
Replicate Prob(F)							0.0477	0.0047	0.0148
Treatment F							1.256	0.808	0.588
Treatment Prob(F)							0.3113	0.6024	0.7782

Table 4. Simulated Newpath carryover in Avant

Rating Date							May-8-2024	May-8-2024	May-14-2024
Rating Type							HEIGHT	AVG HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							7 DAE	7 DAE	14 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	10*	11*	12*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						9 -	11 -	18 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	12 -	11 -	18 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	11 -	10 -	19 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	11 -	10 -	19 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	9 -	9 -	18 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	12 -	11 -	19 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	11 -	10 -	21 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	11 -	10 -	18 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	12 -	10 -	18 -
LSD P=.05							2.4	1.4	2.6
Standard Deviation							1.6	1.0	1.8
CV							15.0	9.61	9.6
Levene's F							0.478	0.317	0.849
Levene's Prob(F)							0.861	0.953	0.57
Shapiro-Wilk							0.9863	0.9715	0.9739
P(Shapiro-Wilk)							0.9258	0.4671	0.5426
Skewness							0.0878	0.3761	-0.3256
P(Skewness)							0.8311	0.3637	0.4311
Kurtosis							-0.1985	-0.0838	1.0031
P(Kurtosis)							0.8054	0.9172	0.218
Replicate F							8.238	12.690	4.062
Replicate Prob(F)							0.0006	0.0001	0.0181
Treatment F							1.633	1.358	1.092
Treatment Prob(F)							0.1676	0.2643	0.4024

Table 5. Simulated Newpath carryover inAvant

Rating Date							May-14-2024	May-14-2024	May-14-2024
Rating Type							HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							14 DAE	14 DAE	14 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	13*	14*	15*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						17 -	16 -	20 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	18 -	19 -	19 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	17 -	19 -	19 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	18 -	19 -	19 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	16 -	18 -	19 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	18 -	19 -	19 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	20 -	17 -	18 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	22 -	20 -	19 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	20 -	20 -	20 -
LSD P=.05							3.3	2.8	3.3
Standard Deviation							2.3	1.9	2.3
CV							12.44	10.26	11.88
Levene's F							0.719	0.255	0.982
Levene's Prob(F)							0.674	0.975	0.471
Shapiro-Wilk							0.9649	0.9742	0.9655
P(Shapiro-Wilk)							0.3028	0.5507	0.3148
Skewness							0.7603	-0.1346	-0.151
P(Skewness)							0.0713	0.7438	0.714
Kurtosis							1.0472	-0.2899	-0.2764
P(Kurtosis)							0.1989	0.7191	0.7317
Replicate F							4.630	6.616	0.402
Replicate Prob(F)							0.0108	0.0020	0.7527
Treatment F							2.140	1.910	0.280
Treatment Prob(F)							0.0716	0.1053	0.9663

Table 6. Simulated Newpath carryover in Avant

Rating Date							May-14-2024	May-21-2024	May-21-2024
Rating Type							AVG HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							14 DAE	21 DAE	21 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	16*	17*	18*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						18 -	27 -	28 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	19 -	25 -	20 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	18 -	25 -	26 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	19 -	28 -	27 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	18 -	25 -	26 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	19 -	27 -	28 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	19 -	27 -	25 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	20 -	28 -	28 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	19 -	27 -	28 -
LSD P=.05							1.8	2.8	6.4
Standard Deviation							1.3	1.9	4.4
CV							6.76	7.29	16.77
Levene's F							1.61	1.544	0.655
Levene's Prob(F)							0.168	0.189	0.725
Shapiro-Wilk							0.9727	0.966	0.7574*
P(Shapiro-Wilk)							0.503	0.3257	0.0*
Skewness							0.1506	0.0979	-2.5209*
P(Skewness)							0.7147	0.8121	0.0*
Kurtosis							-0.6162	-0.896	12.0733*
P(Kurtosis)							0.4461	0.2702	0.0*
Replicate F							7.860	0.299	0.574
Replicate Prob(F)							0.0008	0.8257	0.6376
Treatment F							1.073	1.628	1.298
Treatment Prob(F)							0.4140	0.1691	0.2908

Table 7. Simulated Newpath carryover in Avant

Rating Date							May-21-2024	May-21-2024	May-21-2024
Rating Type							HEIGHT	HEIGHT	AVG HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							21 DAE	21 DAE	21 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	19*	20*	21*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						28 ab	30 -	28 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	28 ab	30 -	26 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	28 ab	27 -	26 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	27 ab	28 -	27 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	27 ab	28 -	27 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	30 a	28 -	28 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	26 b	27 -	26 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	30 a	30 -	29 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	29 ab	29 -	28 -
LSD P=.05							2.2	2.5	2.5
Standard Deviation							1.5	1.7	1.7
CV							5.33	6.06	6.35
Levene's F							0.577	1.505	0.675
Levene's Prob(F)							0.788	0.202	0.709
Shapiro-Wilk							0.965	0.9708	0.9505
P(Shapiro-Wilk)							0.3053	0.4467	0.1085
Skewness							0.5	0.0497	-0.9272*
P(Skewness)							0.2294	0.904	0.0296*
Kurtosis							-0.3582	-0.8839	1.7776*
P(Kurtosis)							0.6569	0.2766	0.0328*
Replicate F							4.466	3.868	0.697
Replicate Prob(F)							0.0125	0.0218	0.5632
Treatment F							2.893	1.907	1.666
Treatment Prob(F)							0.0208	0.1058	0.1588

Table 8. Simulated Newpath carryover in Avant

Rating Date							Jul-9-2024	Jul-15-2024	Jul-29-2024
Rating Type							HEADING	HEADING	HEADING
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							70 DAE	77 DAE	91 DAE
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	22*	23*	24*
1	nontreated						55 a	88 a	99 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	48 b	68 b	99 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	24 d	58 b	97 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	24 d	60 b	97 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	26 d	63 b	97 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	34 c	68 b	98 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	23 d	63 b	98 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	23 d	63 b	96 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	21 d	61 b	96 -
LSD P=.05							6.8	10.4	2.3
Standard Deviation							4.7	7.1	1.6
CV							15.2	10.9	1.6
Levene's F							1.134	0.806	0.715
Levene's Prob(F)							0.373	0.603	0.676
Shapiro-Wilk							0.9797	0.9901	0.9692
P(Shapiro-Wilk)							0.7349	0.9831	0.4044
Skewness							-0.0055	-0.0628	-0.2313
P(Skewness)							0.9894	0.8787	0.575
Kurtosis							0.0563	-0.4397	-0.6308
P(Kurtosis)							0.9443	0.5859	0.4356
Replicate F							9.138	8.032	5.091
Replicate Prob(F)							0.0003	0.0007	0.0072
Treatment F							28.085	6.212	2.091
Treatment Prob(F)							0.0001	0.0002	0.0777

Table 9. Simulated Newpath carryover in Avant

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type							HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							112 DAE	112 DAE	112 DAE
Trt	Treatment	Rate	Rate	Other	Other	Appl	25*	26*	27*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						95 -	97 -	97 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	99 -	99 -	97 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	96 -	96 -	97 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	99 -	100 -	98 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	94 -	95 -	99 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	101 -	99 -	99 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	98 -	97 -	100 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	101 -	102 -	100 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	96 -	100 -	100 -
LSD P=.05							4.3	4.3	4.5
Standard Deviation							2.9	2.9	3.1
CV							3.01	2.98	3.1
Levene's F							0.47	2.356*	0.617
Levene's Prob(F)							0.866	0.046*	0.756
Shapiro-Wilk							0.9803	0.9818	0.9534
P(Shapiro-Wilk)							0.7571	0.8051	0.1341
Skewness							-0.1523	0.2165	-0.714
P(Skewness)							0.7117	0.5996	0.0894
Kurtosis							-0.3952	0.2546	1.2123
P(Kurtosis)							0.6243	0.7521	0.1385
Replicate F							1.656	0.286	0.464
Replicate Prob(F)							0.2030	0.8351	0.7099
Treatment F							2.695	2.209	0.589
Treatment Prob(F)							0.0286	0.0638	0.7769

Table 10. Simulated Newpath carryover in Avant

Rating Date							Aug-20-2024	Aug-20-2024	Aug-21-2024
Rating Type							HEIGHT	AVG HEIGHT	YIELD
Rating Unit							cm	cm	LBS/PLOT
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							112 DAE	112 DAE	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	28*	29*	30*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						99 ab	97 ab	6.7 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	104 a	100 ab	6.4 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	95 b	96 b	5.2 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	101 ab	99 ab	5.6 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	100 ab	97 ab	4.7 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	99 ab	99 ab	6.1 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	102 a	99 ab	6.7 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	102 a	101 a	6.1 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	103 a	100 ab	5.9 -
LSD P=.05							4.2	2.7	1.60
Standard Deviation							2.9	1.8	1.10
CV							2.84	1.86	18.47
Levene's F							0.627	2.113	1.287
Levene's Prob(F)							0.748	0.07	0.291
Shapiro-Wilk							0.9266*	0.9529	0.9692
P(Shapiro-Wilk)							0.0198*	0.1287	0.405
Skewness							0.7383	0.2865	0.0962
P(Skewness)							0.0794	0.4879	0.8152
Kurtosis							-0.1921	1.5785	-0.8905
P(Kurtosis)							0.8115	0.0563	0.273
Replicate F							1.210	0.507	3.123
Replicate Prob(F)							0.3275	0.6813	0.0446
Treatment F							3.252	3.093	1.509
Treatment Prob(F)							0.0118	0.0152	0.2063

Table 11. Simulated Newpath carryover in Avant

Rating Date							Aug-21-2024	Aug-21-2024	Aug-21-2024
Rating Type							MOICON	YIELD	YIELD
Rating Unit							%	KG/HA	LB/A
Rating Min/Max/Interval							0, 100, -		
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	31*	32*	33*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						15.35 ab	4571.1 -	4078.3 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	15.43 ab	4407.1 -	3932.0 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	16.08 a	3559.9 -	3176.1 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	15.88 ab	3809.6 -	3398.9 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	16.15 a	3168.8 -	2827.2 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	15.10 ab	4204.1 -	3750.8 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	15.15 ab	4578.5 -	4084.9 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	15.85 ab	4176.3 -	3726.1 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	14.10 b	4086.9 -	3646.2 -
LSD P=.05							1.192	1091.08	973.45
Standard Deviation							0.817	747.63	667.02
CV							5.29	18.4	18.4
Levene's F							2.197	1.298	1.298
Levene's Prob(F)							0.06	0.286	0.286
Shapiro-Wilk							0.9307*	0.9672	0.9672
P(Shapiro-Wilk)							0.0262*	0.3538	0.3538
Skewness							0.917*	0.1332	0.1332
P(Skewness)							0.0313*	0.7464	0.7464
Kurtosis							3.377*	-0.9083	-0.9083
P(Kurtosis)							0.0002*	0.2637	0.2637
Replicate F							4.075	3.499	3.499
Replicate Prob(F)							0.0179	0.0309	0.0309
Treatment F							2.449	1.604	1.604
Treatment Prob(F)							0.0428	0.1762	0.1762

Table 12. Simulated Newpath carryover in Avant

Rating Date							Aug-21-2024
Rating Type							YIELD
Rating Unit							BU
Rating Min/Max/Interval							
Pest Code							RICE
Treatment Appl. Interval							HARVEST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	34*
1	nontreated						90.6 -
2	Newpath	0.0039	lb ai/a	0.25	fl oz/a	PREPLANT	87.4 -
3	Newpath	0.0078	lb ai/a	0.50	fl oz/a	PREPLANT	70.6 -
4	Newpath	0.0117	lb ai/a	0.75	fl oz/a	PREPLANT	75.5 -
5	Newpath	0.0156	lb ai/a	1	fl oz/a	PREPLANT	62.8 -
6	Newpath	0.0195	lb ai/a	1.25	fl oz/a	PREPLANT	83.4 -
7	Newpath	0.0234	lb ai/a	1.50	fl oz/a	PREPLANT	90.8 -
8	Newpath	0.0273	lb ai/a	1.75	fl oz/a	PREPLANT	82.8 -
9	Newpath	0.0313	lb ai/a	2	fl oz/a	PREPLANT	81.0 -
LSD P=.05							21.63
Standard Deviation							14.82
CV							18.4
Levene's F							1.298
Levene's Prob(F)							0.286
Shapiro-Wilk							0.9672
P(Shapiro-Wilk)							0.3538
Skewness							0.1332
P(Skewness)							0.7464
Kurtosis							-0.9083
P(Kurtosis)							0.2637
Replicate F							3.499
Replicate Prob(F)							0.0309
Treatment F							1.604
Treatment Prob(F)							0.1762

Rating Type**Rating Unit**

HEIGHT = height	% , 0, 100 = percent
YIELD = yield	cm = centimeter
MOICON = moisture content	KG/HA = kilograms per hectare

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Clomate 3ME vs. Command 3ME for rice weed control

Experiment number : **C24-35**
 Location..... : RRS-Crowley, LA
 Experimental design : RCB
 Number of reps..... : 4
 Plot size : 5'x17'
 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
 Planting date : 4/3/2024
 Emergence date..... : 4/8/2024
 Harvest date : 8/20/2024
 Uniform Stand Treatment..... : Gambit at 1.5 oz/A 4/23/24
 : Provisia @ 15.5 + Loyant @ 10 oz/A on 5/28/2024

Application type : PRE
 Date applied [mm/dd/yy]..... : 4/4/24
 Time [hh:mm-hh:mm] : 1:24-1:32p
 Air/Soil temperature [F] : 72/61
 Relative humidity [%] : 26%
 Wind [mph, direction] : 10, E
 Weather [sunny, etc]..... : Sunny
 Soil/Leaf surface moist..... : Dry/NA
 Crop stage/Height..... : N/A
 Sprayer type/MPH : BKPK/3.0
 Nozzle type/Size* : FF/110015
 Boom ht/# Noz/Spacing..... : 15/5/15
 GPA/PSI : 15/21
 Applied by : SBS

Weed Species (population)..... :- (height/#leaves) -

Flush Dates : 4/24/2024
 Permanent Flood..... : 5/15/2024

*AMFF – Air mix flat fan nozzles

Table 1. Clomate 3ME vs. Command 3ME for Rice Weed Control

Rating Date						Apr-19-2024	Apr-30-2024	May-23-2024
Rating Type						INJURY	INJURY	INJURY
Rating Unit						%	%	%
Rating Min/Max/Interval						0, 100, -	0, 100, -	0, 100, -
Pest Type						RICE	RICE	RICE
Pest Code						14 DAT	28 DAT	49 DAT
Treatment Appl. Interval						1*	2*	3*
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit			
1	Nontreated					0 b	0 na	0 na
2	Clomate 3ME	0.188	lb ai/a	8	fl oz/a	23 a	0 na	0 na
3	Command 3ME	0.188	lb ai/a	8	fl oz/a	20 a	0 na	0 na
LSD P=.05						2.9	.	.
Standard Deviation						1.7	0.0	0.0
CV						11.76	0.0	0.0
Levene's F						NA	.	.
Levene's Prob(F)						0.00*	.	.
Shapiro-Wilk						0.8635	.	.
P(Shapiro-Wilk)						0.0541	.	.
Skewness						0.0	.	.
P(Skewness)						1.0	.	.
Kurtosis						-1.65	.	.
P(Kurtosis)						0.2575	.	.
Replicate F						1.000	NaN	NaN
Replicate Prob(F)						0.4547	NaN	NaN
Treatment F						219.000	NaN	NaN
Treatment Prob(F)						0.0001	NaN	NaN

Table 2. Clomate 3ME vs. Command 3ME for Rice Weed Control

Rating Date						Apr-19-2024	Apr-30-2024	May-23-2024
Rating Type						CONTROL	CONTROL	CONTROL
Rating Unit						%	%	%
Rating Min/Max/Interval						0, 100, -	0, 100, -	0, 100, -
Pest Type						W, Weed	W, Weed	W, Weed
Pest Code						ECHCG	ECHCG	ECHCG
Treatment Appl. Interval						14 DAT	28 DAT	49 DAT
Trt	Treatment		Rate	Other	Other	4*	5*	6*
No.	Name	Rate	Unit	Rate	Rate Unit			
1	Nontreated					0 b	0 b	0 b
2	Clomate 3ME	0.188	lb ai/a	8	fl oz/a	64 a	43 a	19 a
3	Command 3ME	0.188	lb ai/a	8	fl oz/a	64 a	41 a	18 a
LSD P=.05						10.3	3.2	3.2
Standard Deviation						6.0	1.9	1.9
CV						14.0	6.67	15.42
Levene's F						0.50	0.30	0.30
Levene's Prob(F)						0.622	0.748	0.748
Shapiro-Wilk						0.8978	0.9506	0.9506
P(Shapiro-Wilk)						0.1485	0.6451	0.6451
Skewness						-0.2275	0.0	0.0
P(Skewness)						0.7562	1.0	1.0
Kurtosis						-1.573	-1.2687	-1.2687
P(Kurtosis)						0.2791	0.3782	0.3782
Replicate F						1.647	2.200	2.200
Replicate Prob(F)						0.2757	0.1889	0.1889
Treatment F						153.000	673.800	126.600
Treatment Prob(F)						0.0001	0.0001	0.0001

Table 3. Clomate 3ME vs. Command 3ME for Rice Weed Control

Rating Date						Apr-19-2024	Apr-30-2024	May-23-2024
Rating Type						CONTROL	CONTROL	CONTROL
Rating Unit						%	%	%
Rating Min/Max/Interval						0, 100, -	0, 100, -	0, 100, -
Pest Type						W, Weed	W, Weed	W, Weed
Pest Code						BRAPP	BRAPP	BRAPP
Treatment Appl. Interval						14 DAT	28 DAT	49 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	7*	8*	9*
1	Nontreated					0 b	0 b	0 b
2	Clomate 3ME	0.188	lb ai/a	8	fl oz/a	76 a	48 a	91 a
3	Command 3ME	0.188	lb ai/a	8	fl oz/a	76 a	45 a	89 a
LSD P=.05						4.8	4.1	3.0
Standard Deviation						2.8	2.4	1.8
CV						5.44	7.64	2.92
Levene's F						1.50	1.00	0.545
Levene's Prob(F)						0.274	0.405	0.598
Shapiro-Wilk						0.8937	0.941	0.9558
P(Shapiro-Wilk)						0.1315	0.5114	0.7232
Skewness						0.4008	0.0	0.7294
P(Skewness)						0.5861	1.0	0.3293
Kurtosis						-0.153	-1.0542	0.7293
P(Kurtosis)						0.9138	0.4615	0.6081
Replicate F						4.000	2.500	0.459
Replicate Prob(F)						0.0701	0.1565	0.7207
Treatment F						1014.818	514.500	3514.081
Treatment Prob(F)						0.0001	0.0001	0.0001

Table 4. Clomate 3ME vs. Command 3ME for Rice Weed Control

Rating Date						Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type						HEIGHTS	HEIGHTS	HEIGHTS
Rating Unit						CM	CM	CM
Rating Min/Max/Interval								
Pest Type								
Pest Code						RICE	RICE	RICE
Treatment Appl. Interval						HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	10*	11*	12*
No.	Name		Unit	Rate	Rate Unit			
1	Nontreated					89 b	93 c	94 b
2	Clomate 3ME	0.188	lb ai/a	8	fl oz/a	99 a	99 b	104 a
3	Command 3ME	0.188	lb ai/a	8	fl oz/a	103 a	104 a	103 a
LSD P=.05						8.9	3.9	6.8
Standard Deviation						5.2	2.3	3.9
CV						5.32	2.31	3.89
Levene's F						1.033	0.277	1.478
Levene's Prob(F)						0.394	0.764	0.279
Shapiro-Wilk						0.9682	0.9632	0.9409
P(Shapiro-Wilk)						0.891	0.8278	0.5095
Skewness						-0.2216	0.1201	-0.3876
P(Skewness)						0.7623	0.8696	0.5984
Kurtosis						0.355	-0.4306	0.1143
P(Kurtosis)						0.802	0.7612	0.9356
Replicate F						0.750	6.053	0.984
Replicate Prob(F)						0.5609	0.0302	0.4609
Treatment F						7.800	22.283	7.642
Treatment Prob(F)						0.0214	0.0017	0.0224

Table 5. Clomate 3ME vs. Command 3ME for Rice Weed Control

Rating Date						Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type						HEIGHTS	AVG HEIGHTS	YIELD
Rating Unit						CM	CM	LBS/PLOT
Rating Min/Max/Interval								
Pest Type								
Pest Code						RICE	RICE	RICE
Treatment Appl. Interval						HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	13*	14*	15*
No.	Name		Unit	Rate	Rate Unit			
1	Nontreated					93 b	92 b	5.93 b
2	Clomate 3ME	0.188	lb ai/a	8	fl oz/a	102 a	101 a	7.98 a
3	Command 3ME	0.188	lb ai/a	8	fl oz/a	102 a	103 a	7.55 a
LSD P=.05						5.5	4.3	0.523
Standard Deviation						3.2	2.5	0.302
CV						3.2	2.51	4.23
Levene's F						0.003	4.762*	0.633
Levene's Prob(F)						0.997	0.039*	0.553
Shapiro-Wilk						0.8494*	0.9558	0.9797
P(Shapiro-Wilk)						0.0361*	0.7231	0.9824
Skewness						0.9338	-0.3077	0.1279
P(Skewness)						0.218	0.6751	0.8612
Kurtosis						-0.5959	-0.7183	0.5692
P(Kurtosis)						0.6746	0.6135	0.6883
Replicate F						0.776	0.575	17.308
Replicate Prob(F)						0.5488	0.6524	0.0023
Treatment F						11.693	21.180	51.256
Treatment Prob(F)						0.0085	0.0019	0.0002

Table 6. Clomate 3ME vs. Command 3ME for Rice Weed Control

Rating Date						Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type						MOICON	YIELD	YIELD
Rating Unit						%	LB/A	BU/A
Rating Min/Max/Interval						0, 100, -		
Pest Type								
Pest Code						RICE	RICE	RICE
Treatment Appl. Interval						HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	16*	17*	18*
No.	Name		Unit	Rate	Rate Unit			
1	Nontreated					11.6 -	3763 b	84 b
2	Clomate 3ME	0.188	lb ai/a	8	fl oz/a	11.7 -	5061 a	112 a
3	Command 3ME	0.188	lb ai/a	8	fl oz/a	11.6 -	4797 a	107 a
LSD P=.05						0.50	339.9	7.6
Standard Deviation						0.29	196.4	4.4
CV						2.47	4.33	4.33
Levene's F						0.637	0.763	0.763
Levene's Prob(F)						0.551	0.494	0.494
Shapiro-Wilk						0.9743	0.9805	0.9805
P(Shapiro-Wilk)						0.9499	0.9856	0.9856
Skewness						0.2527	0.2173	0.2173
P(Skewness)						0.7303	0.7667	0.7667
Kurtosis						-0.0671	0.5573	0.5573
P(Kurtosis)						0.9622	0.6944	0.6944
Replicate F						2.622	17.356	17.356
Replicate Prob(F)						0.1454	0.0023	0.0023
Treatment F						0.122	48.742	48.742
Treatment Prob(F)						0.8876	0.0002	0.0002

Table 7. Clomate 3ME vs. Command 3ME for Rice Weed Control

Rating Date						Aug-20-2024
Rating Type						YIELD
Rating Unit						KG/HA
Rating Min/Max/Interval						
Pest Type						
Pest Code						RICE
Treatment Appl. Interval						HARVEST
Trt	Treatment	Rate	Rate	Other	Other	19*
No.	Name	Rate	Unit	Rate	Rate Unit	
1	Nontreated					4218 b
2	Clomate 3ME	0.188	lb ai/a	8	fl oz/a	5672 a
3	Command 3ME	0.188	lb ai/a	8	fl oz/a	5376 a
LSD P=.05						380.9
Standard Deviation						220.2
CV						4.33
Levene's F						0.763
Levene's Prob(F)						0.494
Shapiro-Wilk						0.9805
P(Shapiro-Wilk)						0.9856
Skewness						0.2173
P(Skewness)						0.7667
Kurtosis						0.5573
P(Kurtosis)						0.6944
Replicate F						17.356
Replicate Prob(F)						0.0023
Treatment F						48.742
Treatment Prob(F)						0.0002

Rating Type	Rating Unit	Pest Type	Pest Code
YIELD = yield	%, 0, 100 = percent	W, Weed = Weed or volunteer crop	ECHCG, Echinochloa crus-galli, common barnyardgrass=US
MOICON = moisture content	cm = centimeter		BRAPP, Brachiaria platyphylla, broad-leaved signal grass=US
	KG/HA = kilograms per hectare		

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Pendalin H2O weed control on rice

Experiment number : **C24-37**
 Location..... : RRS-Crowley, LA
 Experimental design : RCB
 Number of reps..... : 4
 Plot size : 5'x17'
 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 : 4/3/2024
 Emergence date..... : 4/8/2024
 Harvest date..... : 8/20/2024
 Uniform Stand Treatment..... : Provisia @ 15.5 oz/A + Loyant @ 10 oz/A on 5/28/24

Application type : DPRE
 Date applied [mm/dd/yy]..... : 4/12/24
 Time [hh:mm-hh:mm] : 9:51-9:58a
 Air/Soil temperature [F] : 65/60
 Relative humidity [%] : 59%
 Wind [mph, direction] : 3-4, N
 Weather [sunny, etc]..... : Sunny
 Soil/Leaf surface moist..... : Wet/dry
 Crop stage/Height..... : 1lf/0.5-1.5"
 Sprayer type/MPH : BKPK/3.0
 Nozzle type/Size* : FF/110015
 Boom ht/# Noz/Spacing..... : 15/5/15
 GPA/PSI : 15/18
 Applied by : LNV

Weed Species (population)..... :- (height/#leaves) –

CYPES (0-2m²) : 2-5"/2-3lf
 ALRPH (0-1m²)..... : 2-4"/8-10lf

Flush Dates : 4/24/2024
 Permanent Flood..... : 5/15/2024

*AMFF – Air mix flat fan nozzles

Table 1. Pendalin H2O Weed Control on Rice

Rating Date							Apr-19-2024	Apr-30-2024	May-23-2024
Rating Type							INJURY	INJURY	INJURY
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							7 DAT	21 DAT	42 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*
1	nontreated						0 na	0 na	0 na
2	Pendalin H2O	32	fl oz/a	0.95	lb ai/a	DPRE	0 na	0 na	0 na
3	Prowl H2O	32	fl oz/a	0.95	lb ai/a	DPRE	0 na	0 na	0 na
4	Satellite Hydrocap	32	fl oz/a	0.95	lb ai/a	DPRE	0 na	0 na	0 na
LSD P=.05							.	.	.
Standard Deviation							0.0	0.0	0.0
CV							0.0	0.0	0.0
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.
Replicate F							NaN	NaN	NaN
Replicate Prob(F)							NaN	NaN	NaN
Treatment F							NaN	NaN	NaN
Treatment Prob(F)							NaN	NaN	NaN

Table 2. Pendalin H2O Weed Control on Rice

Rating Date							Apr-19-2024	Apr-30-2024	May-23-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG
Treatment Appl. Interval							7 DAT	21 DAT	42 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	4*	5*	6*
1	nontreated						0 b	0 b	0 b
2	Pendalin H2O	32	fl oz/a	0.95	lb ai/a	DPRE	79 a	61 a	20 a
3	Prowl H2O	32	fl oz/a	0.95	lb ai/a	DPRE	80 a	61 a	19 a
4	Satellite Hydrocap	32	fl oz/a	0.95	lb ai/a	DPRE	79 a	60 a	15 a
LSD P=.05							7.7	2.3	5.4
Standard Deviation							4.8	1.4	3.4
CV							8.06	3.16	25.0
Levene's F							0.538	0.00	0.905
Levene's Prob(F)							0.665	1.00	0.467
Shapiro-Wilk							0.9798	0.8938	0.9418
P(Shapiro-Wilk)							0.9617	0.064	0.3716
Skewness							-0.2101	0.0	-0.1774
P(Skewness)							0.7377	1.0	0.7773
Kurtosis							0.4713	-0.4396	-0.448
P(Kurtosis)							0.6978	0.7171	0.712
Replicate F							0.455	3.000	0.508
Replicate Prob(F)							0.7205	0.0877	0.6867
Treatment F							273.545	1777.000	30.046
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 3. Pendalin H2O Weed Control on Rice

Rating Date							Apr-19-2024	Apr-30-2024	May-23-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							BRAPP	BRAPP	BRAPP
Treatment Appl. Interval							7 DAT	21 DAT	42 DAT
Trt	Treatment		Rate	Other	Other	Appl	7*	8*	9*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	nontreated						0 b	0 b	0 na
2	Pendalin H2O	32	fl oz/a	0.95	lb ai/a	DPRE	84 a	45 a	40 na
3	Prowl H2O	32	fl oz/a	0.95	lb ai/a	DPRE	79 a	44 a	40 na
4	Satellite Hydrocap	32	fl oz/a	0.95	lb ai/a	DPRE	78 a	50 a	40 na
LSD P=.05							8.0	6.8	.
Standard Deviation							5.0	4.3	0.0
CV							8.33	12.31	0.0
Levene's F							2.128	0.258	.
Levene's Prob(F)							0.15	0.854	.
Shapiro-Wilk							0.9446	0.9138	.
P(Shapiro-Wilk)							0.4097	0.134	.
Skewness							-0.5533	0.2592	.
P(Skewness)							0.3832	0.6799	.
Kurtosis							0.2091	-1.2371	.
P(Kurtosis)							0.8629	0.3152	.
Replicate F							0.500	1.914	NaN
Replicate Prob(F)							0.6915	0.1978	NaN
Treatment F							257.167	118.943	NaN
Treatment Prob(F)							0.0001	0.0001	NaN

Table 4. Pendalin H2O Weed Control on Rice

Rating Date							Apr-30-2024	May-23-2024	Apr-30-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							AESIN	AESIN	CNPPA
Treatment Appl. Interval							21 DAT	42 DAT	21 DAT
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	10*	11*	12*
1	nontreated						0 c	0 c	0 b
2	Pendalin H2O	32	fl oz/a	0.95	lb ai/a	DPRE	78 a	64 a	55 a
3	Prowl H2O	32	fl oz/a	0.95	lb ai/a	DPRE	60 b	50 b	53 a
4	Satellite Hydrocap	32	fl oz/a	0.95	lb ai/a	DPRE	73 a	64 a	58 a
LSD P=.05							7.3	7.2	7.3
Standard Deviation							4.6	4.5	4.6
CV							8.69	10.11	11.07
Levene's F							0.141	0.381	0.125
Levene's Prob(F)							0.933	0.769	0.944
Shapiro-Wilk							0.8946	0.93	0.9346
P(Shapiro-Wilk)							0.0659	0.2438	0.2875
Skewness							1.1314	0.2551	-0.4849
P(Skewness)							0.0861	0.6846	0.4434
Kurtosis							1.0363	0.038	-0.1593
P(Kurtosis)							0.3978	0.9749	0.8953
Replicate F							6.600	4.241	1.000
Replicate Prob(F)							0.0119	0.0398	0.4363
Treatment F							245.600	182.172	146.000
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 5. Pendalin H2O Weed Control on Rice

Rating Date							May-23-2024	Aug-20-2024	Aug-20-2024
Rating Type							CONTROL	HEIGHTS	HEIGHTS
Rating Unit							%	CM	CM
Rating Min/Max/Interval							0, 100, -		
Pest Type							W, Weed		
Pest Code							CNPPA	RICE	RICE
Treatment Appl. Interval							42 DAT	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	13*	14*	15*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						0 b	90 b	88 b
2	Pendalin H2O	32	fl oz/a	0.95	lb ai/a	DPRE	43 a	104 a	103 a
3	Prowl H2O	32	fl oz/a	0.95	lb ai/a	DPRE	44 a	103 a	102 a
4	Satellite Hydrocap	32	fl oz/a	0.95	lb ai/a	DPRE	46 a	100 a	102 a
LSD P=.05							7.7	8.4	2.7
Standard Deviation							4.8	5.3	1.7
CV							14.45	5.3	1.68
Levene's F							0.659	0.457	1.667
Levene's Prob(F)							0.593	0.718	0.227
Shapiro-Wilk							0.9633	0.9638	0.9566
P(Shapiro-Wilk)							0.722	0.7303	0.6008
Skewness							-0.07	-0.1275	0.3505
P(Skewness)							0.911	0.8388	0.5778
Kurtosis							-0.7638	0.6666	-0.6317
P(Kurtosis)							0.5309	0.5838	0.6035
Replicate F							0.818	4.007	22.879
Replicate Prob(F)							0.5157	0.0458	0.0002
Treatment F							85.545	6.007	73.242
Treatment Prob(F)							0.0001	0.0157	0.0001

Table 6. Pendalin H2O Weed Control on Rice

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type							HEIGHTS	HEIGHTS	HEIGHTS
Rating Unit							CM	CM	CM
Rating Min/Max/Interval									
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	16*	17*	18*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						92 b	91 b	90 b
2	Pendalin H2O	32	fl oz/a	0.95	lb ai/a	DPRE	105 a	103 a	104 a
3	Prowl H2O	32	fl oz/a	0.95	lb ai/a	DPRE	103 a	105 a	103 a
4	Satellite Hydrocap	32	fl oz/a	0.95	lb ai/a	DPRE	102 a	101 a	101 a
LSD P=.05							4.6	5.6	3.2
Standard Deviation							2.9	3.5	2.0
CV							2.87	3.48	2.0
Levene's F							0.573	0.43	2.186
Levene's Prob(F)							0.644	0.735	0.143
Shapiro-Wilk							0.9332	0.9362	0.9712
P(Shapiro-Wilk)							0.2735	0.3051	0.8573
Skewness							0.7037	0.7786	0.5456
P(Skewness)							0.2712	0.2255	0.3897
Kurtosis							-0.2288	0.4426	0.4275
P(Kurtosis)							0.8502	0.7153	0.7246
Replicate F							6.110	0.407	9.636
Replicate Prob(F)							0.0149	0.7518	0.0036
Treatment F							16.645	12.366	40.095
Treatment Prob(F)							0.0005	0.0015	0.0001

Table 7. Pendalin H2O Weed Control on Rice

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type							YIELD	MOICON	YIELD
Rating Unit							LBS/PLOT	%	LB/A
Rating Min/Max/Interval								0, 100, -	
Pest Type							RICE	RICE	RICE
Pest Code							HARVEST	HARVEST	HARVEST
Treatment Appl. Interval									
Trt	Treatment	Rate	Rate	Other	Other	Appl	19*	20*	21*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	nontreated						4.80 b	11.5 -	3049 b
2	Pendalin H2O	32	fl oz/a	0.95	lb ai/a	DPRE	8.17 a	11.4 -	5200 a
3	Prowl H2O	32	fl oz/a	0.95	lb ai/a	DPRE	8.09 a	11.4 -	5149 a
4	Satellite Hydrocap	32	fl oz/a	0.95	lb ai/a	DPRE	8.15 a	11.4 -	5184 a
LSD P=.05							0.953	0.65	621.2
Standard Deviation							0.596	0.41	388.4
CV							8.16	3.56	8.36
Levene's F							0.061	5.227*	0.055
Levene's Prob(F)							0.979	0.015*	0.982
Shapiro-Wilk							0.9738	0.9703	0.9755
P(Shapiro-Wilk)							0.8958	0.8429	0.9175
Skewness							-0.1033	0.2032	-0.1147
P(Skewness)							0.8691	0.746	0.8548
Kurtosis							-0.34	0.2797	-0.2654
P(Kurtosis)							0.7791	0.8174	0.8266
Replicate F							0.571	0.906	0.598
Replicate Prob(F)							0.6483	0.4758	0.6319
Treatment F							31.462	0.137	30.049
Treatment Prob(F)							0.0001	0.9357	0.0001

Table 8. Pendalin H2O Weed Control on Rice

Rating Date							Aug-20-2024	Aug-20-2024
Rating Type							YIELD	YIELD
Rating Unit							BU/A	KG/HA
Rating Min/Max/Interval								
Pest Type								
Pest Code							RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	22*	23*
No.	Name		Unit	Rate	Rate Unit	Timing		
1	nontreated						68 b	3418 b
2	Pendalin H2O	32	fl oz/a	0.95	lb ai/a	DPRE	116 a	5829 a
3	Prowl H2O	32	fl oz/a	0.95	lb ai/a	DPRE	114 a	5771 a
4	Satellite Hydrocap	32	fl oz/a	0.95	lb ai/a	DPRE	115 a	5810 a
LSD P=.05							13.8	696.3
Standard Deviation							8.6	435.3
CV							8.36	8.36
Levene's F							0.055	0.055
Levene's Prob(F)							0.982	0.982
Shapiro-Wilk							0.9755	0.9755
P(Shapiro-Wilk)							0.9175	0.9175
Skewness							-0.1147	-0.1147
P(Skewness)							0.8548	0.8548
Kurtosis							-0.2654	-0.2654
P(Kurtosis)							0.8266	0.8266
Replicate F							0.598	0.598
Replicate Prob(F)							0.6319	0.6319
Treatment F							30.049	30.049
Treatment Prob(F)							0.0001	0.0001

Rating Type	Rating Unit	Pest Type	Pest Code
YIELD = yield	%, 0, 100 = percent	W, Weed = Weed or volunteer crop	ECHCG, Echinochloa crus-galli, common barnyardgrass=US
MOICON = moisture content	cm = centimeter		BRAPP, Brachiaria platyphylla, broad-leaved signal grass=US
	KG/HA = kilograms per hectare		AESIN, Aeschynomene indica, Budda pea = US
			CNPPA, Caperonia palustris, Birdeye = US

LSU AgCenter
School of Plant, Environmental and Soil Sciences

Late simulated overcast weather 7 days prior to provisia applications

Experiment number : **C24-57**
 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 @70lbs/A
 Planting date : 4/24/24
 Emergence date..... : 5/1/24
 Harvest date..... : 8/27/2024
 Uniform Standard Treatment..... : Command and Sharpen on 4/25
 5/20 provisia 6oz a-6/13 clincher 20 oz a

Application type : MPOST
 Date applied [mm/dd/yy] : 6/4/24
 Time [hh:mm-hh:mm] : 4:01-4:06p
 Air/Soil temperature [F] : 87/82
 Relative humidity [%] : 62%
 Wind [mph, direction] : 8-10, S
 Weather [sunny, etc]..... : Cloudy
 Soil/Leaf surface moist..... : Moist/dry
 Crop stage/Height..... : 3-5lf/7-10"
 Sprayer type/MPH : BKPK/3.0
 Nozzle type/Size* : FF/110015
 Boom ht/# Noz/Spacing..... : 15/5/15
 GPA/PSI : 15/18
 Applied by : LCW

Weed Species (population)..... :- (height/#leaves) –

Flush Dates : NA
 Permanent Flood..... : 6/12/2024

*AMFF – Air mix flat fan nozzles

Table 1. Late Simulated Overcast Weather 7 Days Prior to Provisia Applications

Rating Date							Jun-14-2024	Jun-19-2024	Jun-26-2024
Rating Type							INJURY	INJURY	INJURY
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							14 dat	21	28
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*
1	No Provisia						0.3 e	5.0 bc	0.3 c
	No Shade								
2	No Provisia						2.0 de	1.7 bc	0.7 c
	30% Shade								
3	No Provisia						1.7 de	2.0 bc	0.3 c
	60% Shade								
4	No Provisia						8.3 bc	6.7 b	8.3 ab
	90% Shade								
5	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	0.3 e	2.0 bc	11.7 a
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
6	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	6.7 bcd	0.0 c	10.0 ab
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
7	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	10.0 bc	6.7 b	11.7 a
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								
8	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	11.7 b	6.7 b	10.0 ab
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
9	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	5.0 cde	1.7 bc	3.3 bc
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
10	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	5.0 cde	1.7 bc	6.7 abc
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
11	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	10.0 bc	6.7 b	6.7 abc
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								

Table 1. Continued

Rating Date							Jun-14-2024	Jun-19-2024	Jun-26-2024
Rating Type							INJURY	INJURY	INJURY
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							14 dat	21	28
Trt	Treatment	Rate	Rate	Other	Other	Appl	1*	2*	3*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
12	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	16.7 a	15.0 a	10.0 ab
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
LSD P=.05							4.03	3.86	4.76
Standard Deviation							2.38	2.28	2.81
CV							36.77	49.2	42.31
Levene's F							0.565	0.351	0.547
Levene's Prob(F)							0.838	0.963	0.851
Shapiro-Wilk							0.9786	0.9137*	0.9558
P(Shapiro-Wilk)							0.6964	0.0082*	0.159
Skewness							0.343	0.5735	-0.5831
P(Skewness)							0.4071	0.1694	0.1626
Kurtosis							0.0795	-0.309	0.2186
P(Kurtosis)							0.9214	0.7015	0.7862
Analyzed as							RCB	RCB	RCB
Replicate F							2.123	2.885	1.799
Replicate Prob(F)							0.1435	0.0772	0.1890
Treatment F							13.583	9.731	7.376
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 2. Late Simulated Overcast Weather 7 Days Prior to Provisia Applications

Rating Date							Jul-23-2024	Jul-29-2024	Aug-21-2024
Rating Type							HEADING	HEADING	HEIGHTS HAR
Rating Unit							%	%	CM
Rating Min/Max/Interval							0, 100, -	0, 100, -	
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval									
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	4*	5*	6*
1	No Provisia						56.7 a	67.7 -	104.3 -
	No Shade								
2	No Provisia						53.3 a	73.3 -	109.0 -
	30% Shade								
3	No Provisia						56.7 a	78.3 -	103.3 -
	60% Shade								
4	No Provisia						50.0 ab	61.7 -	105.3 -
	90% Shade								
5	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	13.3 de	73.3 -	104.3 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
6	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	50.0 ab	80.0 -	103.7 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
7	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	25.0 d	51.7 -	107.3 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								
8	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	10.0 e	66.7 -	107.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
9	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	40.0 bc	80.0 -	104.7 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
10	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	36.7 c	83.3 -	108.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
11	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	20.0 de	78.3 -	107.7 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								

Table 2. Continued

Rating Date							Jul-23-2024	Jul-29-2024	Aug-21-2024
Rating Type							HEADING	HEADING	HEIGHTS HAR
Rating Unit							%	%	CM
Rating Min/Max/Interval							0, 100, -	0, 100, -	
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval									
Trt	Treatment	Rate	Rate	Other	Other	Appl	4*	5*	6*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
12	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	13.3 de	65.0 -	104.7 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
LSD P=.05							9.69	18.38	6.99
Standard Deviation							5.72	10.82	4.13
CV							16.16	15.06	3.9
Levene's F							0.468	0.832	0.681
Levene's Prob(F)							0.905	0.611	0.743
Shapiro-Wilk							0.9459	0.7395*	0.9889
P(Shapiro-Wilk)							0.078	0.0*	0.9702
Skewness							-0.7181	-1.8714*	-0.1961
P(Skewness)							0.0876	0.0*	0.6343
Kurtosis							0.2299	10.9759*	0.0086
P(Kurtosis)							0.7754	0.0*	0.9915
Analyzed as							RCB	RCB	RCB
Replicate F							1.971	1.594	7.147
Replicate Prob(F)							0.1631	0.2268	0.0041
Treatment F							30.295	2.189	0.642
Treatment Prob(F)							0.0001	0.0590	0.7747

Table 3. Late Simulated Overcast Weather 7 Days Prior to Provisia Applications

Rating Date							Aug-21-2024	Aug-21-2024	Aug-21-2024
Rating Type							HEIGHTS HAR	HEIGHTS HAR	HEIGHTS HAR
Rating Unit							CM	CM	CM
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval									
Trt	Treatment	Rate	Unit	Other	Other	Appl	7*	8*	9*
No.	Name			Rate	Rate Unit	Timing			
1	No Provisia						107.7 -	106.0 ab	106.3 -
	No Shade								
2	No Provisia						102.3 -	105.0 ab	106.0 -
	30% Shade								
3	No Provisia						108.7 -	108.7 ab	108.3 -
	60% Shade								
4	No Provisia						104.3 -	102.3 b	104.0 -
	90% Shade								
5	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	105.7 -	108.7 ab	106.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
6	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	107.3 -	104.3 ab	109.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
7	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	109.0 -	109.7 ab	107.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								
8	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	109.0 -	109.7 ab	109.3 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
9	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	104.0 -	108.0 ab	109.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
10	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	110.0 -	113.3 a	110.7 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
11	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	109.0 -	109.7 ab	110.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								

Table 3. Continued

Rating Date							Aug-21-2024	Aug-21-2024	Aug-21-2024
Rating Type							HEIGHTS HAR	HEIGHTS HAR	HEIGHTS HAR
Rating Unit							CM	CM	CM
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval									
Trt	Treatment	Rate	Rate	Other	Other	Appl	7*	8*	9*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
12	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	108.3 -	110.0 ab	107.7 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
LSD P=.05							5.74	5.63	6.80
Standard Deviation							3.39	3.32	4.01
CV							3.16	3.08	3.72
Levene's F							0.487	0.16	0.253
Levene's Prob(F)							0.893	0.998	0.989
Shapiro-Wilk							0.9658	0.9328*	0.9531
P(Shapiro-Wilk)							0.3211	0.0304*	0.1309
Skewness							0.0112	-0.4533	-0.419
P(Skewness)							0.9783	0.2749	0.3123
Kurtosis							-0.6856	-0.9141	-0.5677
P(Kurtosis)							0.3971	0.2608	0.4825
Analyzed as							RCB	RCB	RCB
Replicate F							4.792	0.199	4.310
Replicate Prob(F)							0.0187	0.8212	0.0263
Treatment F							1.559	2.474	0.716
Treatment Prob(F)							0.1806	0.0339	0.7117

Table 4. Late Simulated Overcast Weather 7 Days Prior to Provisia Applications

Rating Date							Aug-27-2024	Aug-27-2014	Aug-27-2024
Rating Type							Yield	Moisture	yield
Rating Unit							lb/plot	%	kg/ha
Rating Min/Max/Interval								0, 100, -	
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval									
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	10*	11*	12*
1	No Provisia						2.210 d	15.43 ab	1728.1 d
	No Shade								
2	No Provisia						4.693 bc	13.37 c	3756.7 bc
	30% Shade								
3	No Provisia						4.450 bc	15.50 ab	3477.6 bc
	60% Shade								
4	No Provisia						3.550 cd	14.47 bc	2808.0 cd
	90% Shade								
5	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	5.370 abc	16.43 ab	4153.4 abc
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
6	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	5.850 abc	14.90 bc	4602.1 abc
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
7	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	6.017 ab	16.10 ab	4666.5 abc
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								
8	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	4.470 bc	15.63 ab	3487.6 bc
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
9	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	7.017 a	16.33 ab	5427.2 ab
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
10	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	6.193 ab	16.07 ab	4808.6 ab
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
11	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	7.510 a	17.47 a	5737.1 a
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								

Table 4. Continued

Rating Date							Aug-27-2024	Aug-27-2014	Aug-27-2024
Rating Type							Yield	Moisture	yield
Rating Unit							lb/plot	%	kg/ha
Rating Min/Max/Interval								0, 100, -	
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval									
Trt	Treatment	Rate	Rate	Other	Other	Appl	10*	11*	12*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
12	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	4.290 bc	12.93 c	3459.6 bc
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
LSD P=.05							1.4846	1.471	1191.69
Standard Deviation							0.8768	0.868	703.77
CV							17.07	5.64	17.55
Levene's F							0.287	0.414	0.315
Levene's Prob(F)							0.982	0.935	0.975
Shapiro-Wilk							0.959	0.9835	0.9653
P(Shapiro-Wilk)							0.2009	0.8564	0.3119
Skewness							-0.2299	-0.3332	-0.2207
P(Skewness)							0.5773	0.4205	0.5926
Kurtosis							-0.9657	0.169	-0.8777
P(Kurtosis)							0.2353	0.8338	0.2799
Analyzed as							RCB	RCB	RCB
Replicate F							0.193	4.102	0.116
Replicate Prob(F)							0.8257	0.0306	0.8908
Treatment F							8.704	6.707	7.713
Treatment Prob(F)							0.0001	0.0001	0.0001

Rating Type	Rating Unit
YIELD = yield	% , 0, 100 = percent
	cm = centimeter
	lb/plot = pounds per plot
	KG/HA = kilograms per hectare

LSU AgCenter
School of Plant, Environmental and Soil Sciences

Late simulated overcast weather 7 days after Provisia applications

Experiment number : **C24-59**
 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 lbs/A
 Planting date : 4/24/2024
 Emergence date..... : 5/1/2024
 Harvest date..... : 8/27/2024
 Uniform Standard Treatment..... : Command and Sharpen on 4/25
 5/20 provisia 6oz a-6/13 clincher 20 oz a

Application type : MPOST
 Date applied [mm/dd/yy]..... : 6/4/24
 Time [hh:mm-hh:mm] : 3:23-3:30p
 Air/Soil temperature [F] : 89/84
 Relative humidity [%] : 72%
 Wind [mph, direction] : 8-10, SE
 Weather [sunny, etc]..... : Ptly cloudy
 Soil/Leaf surface moist..... : Moist/dry
 Crop stage/Height..... : 3-5lf/7-10"
 Sprayer type/MPH : BKPK/3.0
 Nozzle type/Size* : FF/110015
 Boom ht/# Noz/Spacing..... : 15/5/15
 GPA/PSI : 15/18
 Applied by : LCW

Weed Species (population)..... :- (height/#leaves) -

Flush Dates : NA
 Permanent Flood..... : 6/12/2024

*AMFF – Air mix flat fan nozzles

Table 1. Late Simulated Overcast Weather 7 Days After Provisia Applications

Rating Date							Jun-14-2024	Jun-19-2024	Jun-26-2024
Rating Type							INJURY	INJURY	INJURY
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval									
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	1*	2*	3*
1	No Provisia						0.3 e	0.3 d	0.0 d
	No Shade								
2	No Provisia						0.3 e	0.7 d	0.0 d
	30% Shade								
3	No Provisia						0.3 e	0.3 d	0.0 d
	60% Shade								
4	No Provisia						13.3 ab	8.3 abc	6.7 bc
	90% Shade								
5	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	5.0 de	3.3 cd	0.0 d
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
6	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	8.3 cd	5.0 bcd	0.0 d
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
7	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	15.0 ab	5.0 bcd	3.3 cd
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								
8	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	18.3 a	11.7 a	6.7 bc
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
9	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	10.0 bc	3.3 cd	0.0 d
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
10	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	15.0 ab	10.0 ab	5.0 cd
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
11	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	15.0 ab	11.7 a	10.0 ab
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								

Table 1. Continued

Rating Date							Jun-14-2024	Jun-19-2024	Jun-26-2024
Rating Type							INJURY	INJURY	INJURY
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval									
Trt	Treatment	Rate	Rate	Other	Other	Appl	1*	2*	3*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
12	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	18.3 a	13.3 a	11.7 a
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
LSD P=.05							3.81	4.33	3.58
Standard Deviation							2.25	2.56	2.12
CV							22.62	42.03	58.63
Levene's F							1.275	0.565	0.855
Levene's Prob(F)							0.296	0.838	0.592
Shapiro-Wilk							0.8987*	0.982	0.9291*
P(Shapiro-Wilk)							0.0031*	0.8095	0.0236*
Skewness							-0.1328	-0.2923	-0.0469
P(Skewness)							0.7472	0.4792	0.9093
Kurtosis							2.4676*	0.126	1.5207
P(Kurtosis)							0.004*	0.8757	0.0655
Analyzed as							RCB	RCB	RCB
Replicate F							0.730	0.625	2.014
Replicate Prob(F)							0.4930	0.5447	0.1573
Treatment F							28.743	10.356	12.451
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 2. Late Simulated Overcast Weather 7 Days After Provisia Applications

Rating Date							Jul-23-2024	Jul-29-2024	Aug-21-2024
Rating Type							HEADING %	HEADING %	HEIGHTS HAR
Rating Unit							%	%	CM
Rating							0, 100, -	0, 100, -	
Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval									
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	4*	5*	6*
1	No Provisia						60.0 a	75.0 a	105.0 -
	No Shade								
2	No Provisia						63.3 a	75.0 a	104.0 -
	30% Shade								
3	No Provisia						63.3 a	75.0 a	104.0 -
	60% Shade								
4	No Provisia						40.0 cd	61.7 b	105.3 -
	90% Shade								
5	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	50.0 bc	75.0 a	103.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
6	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	40.0 cd	70.0 a	105.7 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
7	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	55.0 ab	71.7 a	106.7 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								
8	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	33.3 d	60.0 b	101.7 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
9	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	36.7 d	75.0 a	106.3 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
10	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	41.7 cd	73.3 a	105.3 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
11	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	40.0 cd	65.0 b	105.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								

Table 2. Continued

Rating Date							Jul-23-2024	Jul-29-2024	Aug-21-2024
Rating Type							HEADING %	HEADING %	HEIGHTS HAR
Rating Unit							%	%	CM
Rating Min/Max/Interval							0, 100, -	0, 100, -	
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval									
Trt	Treatment	Rate	Rate	Other	Other	Appl	4*	5*	6*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
12	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	16.7 e	53.3 c	99.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
LSD P=.05							7.94	4.60	6.32
Standard Deviation							4.69	2.72	3.73
CV							10.42	3.93	3.58
Levene's F							0.64	1.219	0.438
Levene's Prob(F)							0.777	0.327	0.923
Shapiro-Wilk							0.9256*	0.9318*	0.949
P(Shapiro-Wilk)							0.0184*	0.0283*	0.0974
Skewness							0.9088*	0.126	0.5859
P(Skewness)							0.0327*	0.7597	0.1605
Kurtosis							2.709*	1.2651	-0.1402
P(Kurtosis)							0.0018*	0.1227	0.8619
Analyzed as							RCB	RCB	RCB
Replicate F							0.379	0.282	2.982
Replicate Prob(F)							0.6887	0.7569	0.0715
Treatment F							26.276	22.256	1.009
Treatment Prob(F)							0.0001	0.0001	0.4702

Table 3. Late Simulated Overcast Weather 7 Days After Provisia Applications

Rating Date							Aug-21-2024	Aug-21-2024	Aug-21-2024
Rating Type							HEIGHTS HAR	HEIGHTS HAR	HEIGHTS HAR
Rating Unit							CM	CM	CM
Rating									
Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval									
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	7*	8*	9*
1	No Provisia						107.0 -	106.7 -	106.3 -
	No Shade								
2	No Provisia						103.7 -	105.0 -	108.7 -
	30% Shade								
3	No Provisia						107.0 -	107.0 -	107.3 -
	60% Shade								
4	No Provisia						103.7 -	107.3 -	110.3 -
	90% Shade								
5	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	108.0 -	103.3 -	105.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
6	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	106.0 -	107.7 -	105.7 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
7	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	106.3 -	109.0 -	107.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								
8	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	100.3 -	99.7 -	104.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
9	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	107.7 -	109.0 -	107.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
10	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	107.0 -	108.0 -	108.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
11	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	105.3 -	107.0 -	107.0 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								

Table 3. Continued

Rating Date							Aug-21-2024	Aug-21-2024	Aug-21-2024
Rating Type							HEIGHTS HAR	HEIGHTS HAR	HEIGHTS HAR
Rating Unit							CM	CM	CM
Rating Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval									
Trt	Treatment	Rate	Rate	Other	Other	Appl	7*	8*	9*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
12	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	100.7 -	103.7 -	101.3 -
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
LSD P=.05							6.64	7.69	5.99
Standard Deviation							3.92	4.54	3.54
CV							3.73	4.28	3.32
Levene's F							0.561	0.232	0.453
Levene's Prob(F)							0.841	0.993	0.914
Shapiro-Wilk							0.9694	0.9313*	0.9821
P(Shapiro-Wilk)							0.4092	0.0274*	0.8151
Skewness							0.4393	-0.3225	0.2103
P(Skewness)							0.2897	0.4354	0.6102
Kurtosis							0.3827	-1.1827	-0.142
P(Kurtosis)							0.6352	0.1481	0.8601
Analyzed as							RCB	RCB	RCB
Replicate F							0.722	1.707	2.570
Replicate Prob(F)							0.4968	0.2046	0.0993
Treatment F							1.321	1.091	1.284
Treatment Prob(F)							0.2774	0.4113	0.2960

Table 4. Late Simulated Overcast Weather 7 Days After Provisia Applications

Rating Date							Aug-27-2024	Aug-27-2024	Aug-27-2024
Rating Type							YIELD	MOISTURE	Yield
Rating Unit							lb/plot	%	kg/ha
Rating								0, 100, -	
Min/Max/Interval									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval									
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	10*	11*	12*
1	No Provisia						4.657 ab	12.53 b	3471.9 ab
	No Shade								
2	No Provisia						3.360 b	14.17 ab	2461.4 b
	30% Shade								
3	No Provisia						4.747 ab	13.80 ab	3488.4 ab
	60% Shade								
4	No Provisia						3.560 b	16.53 a	2543.7 b
	90% Shade								
5	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	5.237 ab	14.73 ab	3806.2 ab
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
6	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	6.407 ab	16.03 a	4595.3 ab
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
7	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	4.963 ab	14.03 ab	3639.3 ab
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								
8	Provisia	0.107	lb ai/a	15.5	fl oz/a	MPOST	5.977 ab	16.20 a	4266.3 ab
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
9	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	5.757 ab	15.63 a	4147.8 ab
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	No Shade								
10	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	7.797 a	16.40 a	5563.7 a
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	30% Shade								
11	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	6.027 ab	15.60 a	4347.9 ab
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	60% Shade								

Table 4. Continued

Rating Date							Aug-27-2024	Aug-27-2024	Aug-27-2024
Rating Type							YIELD	MOISTURE	Yield
Rating Unit							lb/plot	%	kg/ha
Rating Min/Max/Interval								0, 100, -	
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval									
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	10*	11*	12*
12	Provisia	0.213	lb ai/a	31	fl oz/a	MPOST	5.147 ab	14.93 ab	3735.0 ab
	Agri-Dex	1	% v/v	19.2	fl oz/a	MPOST			
	90% Shade								
LSD P=.05							1.8605	1.779	1339.25
Standard Deviation							1.0988	1.051	790.91
CV							20.72	6.98	20.6
Levene's F							0.333	0.182	0.358
Levene's Prob(F)							0.969	0.997	0.961
Shapiro-Wilk							0.9602	0.9604	0.9588
P(Shapiro-Wilk)							0.2175	0.2208	0.1975
Skewness							-0.3116	-0.1265	-0.3275
P(Skewness)							0.4509	0.7588	0.4283
Kurtosis							-0.8717	-1.0647	-0.8115
P(Kurtosis)							0.2831	0.1917	0.3172
Analyzed as							RCB	RCB	RCB
Replicate F							0.528	2.038	0.591
Replicate Prob(F)							0.5968	0.1541	0.5625
Treatment F							3.683	4.144	3.474
Treatment Prob(F)							0.0045	0.0022	0.0062

Rating Type	Rating Unit
YIELD = yield	% , 0, 100 = percent
	cm = centimeter
	lb/plot = pounds per plot
	KG/HA = kilograms per hectare

LSU AgCenter
School of Plant, Environmental and Soil Sciences

ALB Roxy LSU-12-24

Experiment number : **C24-65**
Location..... : RRS-Crowley, LA
Experimental design : RCB
Number of reps : 1
Plot size : 10'x100'
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 : ROXY
Planting date : 4/2/24
Emergence date..... : 4/8/24
Harvest date : 8/9/2024

Application type	DPRE	2lf	4lf	Preflood
Date applied [mm/dd/yy]	4/12/24	4/23/24	5/1/24	5/15/24
Time [hh:mm-hh:mm]	10:32-10:53a	11:05-11:20	1:15-1:18p	9:20-9:35a
Air/Soil temperature [F]	67/62	71/61	83/73	78/69
Relative humidity [%]	54%	53%	67%	66%
Wind [mph, direction]	4-5, N	6-8, SE	6-8, SSE	1-3, ENE
Weather [sunny, etc]	Sunny	Sunny	Sunny	Sunny
Soil/Leaf surface moist.....	Dry/Dry	Dry/Dry	Dry/Dry	Moist/wet
Crop stage/Height.....	0-1lf/.5-1"	2-3lf/2-4"	3-4lf/6-8"	4-5lf/8-10"
Sprayer type/MPH	BKPK/3.0	BKPK/3.0	BKPK/3.0	BKPK/3.0
Nozzle type/Size*	FF/11001	FF11001	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	LCW/SBS	SBS/LNV	SBS/DJZ	WBC/DJZ

Weed Species (population)..... :----- (height/#leaves) -----

ALRPH (1-3m ²).....	1-3"/6-10lf	4-5"/1-4lf	5-8"/4-6lf	6-8"/4-5lf
CYPES (1-2m ²)	2-4"/2-3lf	4-5"/1-3lf	4-6"/1-3lf	6-8"/3-9lf
ECHCG (40-50m ²)	NA	2-4"/1-3lf	4-5"/4-5lf	5-6"/4lf-1til
BRAPP (20-30m ²).....	NA	2-4"/1-3lf	3-5"/2-4lf	5-6"/3-4lf

Flush Dates : 4/24/24
Permanent Flood..... : 5/18/24

*AMFF – Air mix flat fan nozzles

Table 1. ALB Roxy LSU-12-24

Rating Date							Apr-19-2024	Apr-30-2024	May-7-2024
Rating Type							INJURY	INJURY	INJURY
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type								W, Weed	
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							7DADPRE	7DA2LF	7DA4LF
Trt	Treatment		Rate	Rate	Other	Appl	1*	2*	3*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	Nontreatd						0	0	0
2	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	10	10	60
	ALB2024	3	pt/a	840	g ai/ha	4 lf			
	MSO	1	% v/v	12.8	oz/a	4 lf			
3	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	20	30	50
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
4	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	10	30	50
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
5	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	20	40	50
	ProwlH2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
6	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	15	40	55
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			

Table 1. Continued

Rating Date							Apr-19-2024	Apr-30-2024	May-7-2024
Rating Type							INJURY	INJURY	INJURY
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type								W, Weed	
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							7DADPRE	7DA2LF	7DA4LF
Trt	Treatment	Rate	Rate	Other	Other	Appl	1*	2*	3*
No.	Name		Unit	Rate	Rate Unit	Timing			
7	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	15	45	45
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
8	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	20	45	40
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
9	MSO	1	% v/v	12.8	oz/a	POSTFL			
	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	20	45	45
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			

Table 1. Continued

							Apr-19-2024	Apr-30-2024	May-7-2024
Rating Date							INJURY	INJURY	INJURY
Rating Type							%	%	%
Rating Unit									
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type								W, Weed	
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							7DADPRE	7DA2LF	7DA4LF
Trt	Treatment	Rate	Rate	Other	Other	Appl	1*	2*	3*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	25	45	45
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
11	Facet	32	fl oz/a	0.375	lb ai/a	DPRE	10	20	20
	Prowl	32	fl oz/a	0.825	lb ai/a	DPRE			
	Stam	3	qt/a	3	lb ai/a	2 lf			
	Permit	1	oz/a	0.047	lb ai/a	2 lf			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 2. ALB Roxy LSU-12-24

Rating Date							May-14-2024	Jun-17-2024	Apr-19-2024
Rating Type							INJURY	INJURY	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type									W, Weed
Pest Code							RICE	RICE	ECHCG
Treatment Appl. Interval							14DA4LF	35DAPREL	7DADPRE
Trt	Treatment		Rate	Rate	Other	Appl	4*	5*	6*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	Nontreatd						0	0	90
2	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	15	0	
	ALB2024	3	pt/a	840	g ai/ha	4 lf			
	MSO	1	% v/v	12.8	oz/a	4 lf			95
3	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	25	0	
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			95
4	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	25	0	
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			95
5	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	25	0	
	ProwlH2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			80
6	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	30	0	
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			

Table 2. Continued

Rating Date							May-14-2024	Jun-17-2024	Apr-19-2024
Rating Type							INJURY	INJURY	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type									W, Weed
Pest Code							RICE	RICE	ECHCG
Treatment Appl. Interval							14DA4LF	35DAPREL	7DADPRE
Trt	Treatment	Rate	Rate	Other	Other	Appl	4*	5*	6*
No.	Name		Unit	Rate	Rate Unit	Timing			
7	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	25	0	70
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
8	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	35	0	75
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
9	MSO	1	% v/v	12.8	oz/a	POSTFL			
	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	35	0	90
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			

Table 2. Continued

							May-14-2024	Jun-17-2024	Apr-19-2024
Rating Date							INJURY	INJURY	CONTROL
Rating Type							%	%	%
Rating Unit									
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type									W, Weed
Pest Code							RICE	RICE	ECHCG
Treatment Appl. Interval							14DA4LF	35DAPREL	7DADPRE
Trt	Treatment	Rate	Rate	Other	Other	Appl	4*	5*	6*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	40	0	85
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
11	Facet	32	fl oz/a	0.375	lb ai/a	DPRE	10	0	70
	Prowl	32	fl oz/a	0.825	lb ai/a	DPRE			
	Stam	3	qt/a	3	lb ai/a	2 lf			
	Permit	1	oz/a	0.047	lb ai/a	2 lf			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 3. ALB Roxy LSU-12-24

Rating Date							Apr-30-2024	May-7-2024	May-14-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG
Treatment Appl. Interval							7DA2LF	7DA4LF	14DA4LF
Trt	Treatment		Rate	Rate	Other	Appl	7*	8*	9*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	Nontreatd						95	98	95
2	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	4 lf			
	MSO	1	% v/v	12.8	oz/a	4 lf	98	98	98
3	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf	98	98	98
4	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf	98	98	98
5	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	ProwlH2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf	98	98	95
6	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			

Table 3. Continued

Rating Date							Apr-30-2024	May-7-2024	May-14-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG
Treatment Appl. Interval							7DA2LF	7DA4LF	14DA4LF
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	7*	8*	9*
7	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	98	98	95
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
8	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	98	98	98
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
9	MSO	1	% v/v	12.8	oz/a	POSTFL	98	98	98
	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			

Table 3. Continued

Rating Date							Apr-30-2024	May-7-2024	May-14-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG
Treatment Appl. Interval							7DA2LF	7DA4LF	14DA4LF
Trt	Treatment	Rate	Rate	Other	Other	Appl	7*	8*	9*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	98	98	98
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
11	Facet	32	fl oz/a	0.375	lb ai/a	DPRE	98	98	98
	Prowl	32	fl oz/a	0.825	lb ai/a	DPRE			
	Stam	3	qt/a	3	lb ai/a	2 lf			
	Permit	1	oz/a	0.047	lb ai/a	2 lf			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 4. ALB Roxy LSU-12-24

Rating Date							Jun-17-2024	Apr-19-2024	Apr-30-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	BRAPP	BRAPP
Treatment Appl. Interval							35DAPREL	7DADPRE	7DA2LF
Trt	Treatment		Rate	Rate	Other	Appl	10*	11*	12*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	Nontreatd						0	0	0
2	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	90	90	85
	ALB2024	3	pt/a	840	g ai/ha	4 lf			
	MSO	1	% v/v	12.8	oz/a	4 lf			
3	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	95	95	98
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
4	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	95	95	98
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
5	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	95	95	98
	ProwlH2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
6	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	95	80	98
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			

Table 4. Continued

Rating Date							Jun-17-2024	Apr-19-2024	Apr-30-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	BRAPP	BRAPP
Treatment Appl. Interval							35DAPREL	7DADPRE	7DA2LF
Trt	Treatment	Rate	Rate	Other	Other	Appl	10*	11*	12*
No.	Name		Unit	Rate	Rate Unit	Timing			
7	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	80	70	98
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
8	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	95	75	98
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
9	MSO	1	% v/v	12.8	oz/a	POSTFL	95	90	98
	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			

Table 4. Continued

							Jun-17-2024	Apr-19-2024	Apr-30-2024
							CONTROL	CONTROL	CONTROL
							%	%	%
							0, 100, -	0, 100, -	0, 100, -
							W, Weed	W, Weed	W, Weed
							ECHCG	BRAPP	BRAPP
							35DAPREL	7DADPRE	7DA2LF
Trt	Treatment	Rate	Rate	Other	Other	Appl	10*	11*	12*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	95	85	95
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
11	Facet	32	fl oz/a	0.375	lb ai/a	DPRE	.	70	98
	Prowl	32	fl oz/a	0.825	lb ai/a	DPRE			
	Stam	3	qt/a	3	lb ai/a	2 lf			
	Permit	1	oz/a	0.047	lb ai/a	2 lf			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 5. ALB Roxy LSU-12-24

Rating Date							Jun-17-2024	Apr-19-2024	Apr-30-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	BRAPP	BRAPP
Treatment Appl. Interval							35DAPREL	7DADPRE	7DA2LF
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	13*	14*	15*
1	Nontreatd						0	0	0
2	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	98	95	90
	ALB2024	3	pt/a	840	g ai/ha	4 lf			
	MSO	1	% v/v	12.8	oz/a	4 lf			
3	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	98	98	95
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
4	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	98	98	95
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
5	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	98	98	95
	ProwlH2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
6	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	98	95	90
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			

Table 5. Continued

Rating Date							Jun-17-2024	Apr-19-2024	Apr-30-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	BRAPP	BRAPP
Treatment Appl. Interval							35DAPREL	7DADPRE	7DA2LF
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	13*	14*	15*
7	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	98	90	90
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
8	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	98	98	95
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
9	MSO	1	% v/v	12.8	oz/a	POSTFL	98	98	95
	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			

Table 5. Continued

							Jun-17-2024	Apr-19-2024	Apr-30-2024
							CONTROL	CONTROL	CONTROL
							%	%	%
							0, 100, -	0, 100, -	0, 100, -
							W, Weed	W, Weed	W, Weed
							ECHCG	BRAPP	BRAPP
							35DAPREL	7DADPRE	7DA2LF
Trt	Treatment	Rate	Rate	Other	Other	Appl	13*	14*	15*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	98	98	95
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
11	Facet	32	fl oz/a	0.375	lb ai/a	DPRE	98	98	.
	Prowl	32	fl oz/a	0.825	lb ai/a	DPRE			
	Stam	3	qt/a	3	lb ai/a	2 lf			
	Permit	1	oz/a	0.047	lb ai/a	2 lf			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 6. ALB Roxy LSU-12-24

Rating Date							Apr-19-2024	Apr-30-2024	May-7-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ALRPH	ALRPH	ALRPH
Treatment Appl. Interval							7DADPRE	7DA2LF	7DA4LF
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	16*	17*	18*
1	Nontreatd						0	0	0
2	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	80	90	95
	ALB2024	3	pt/a	840	g ai/ha	4 lf			
	MSO	1	% v/v	12.8	oz/a	4 lf			
3	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	80	95	80
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
4	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	85	95	95
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
5	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	85	95	95
	ProwlH2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
6	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	90	95	95
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			

Table 6. Continued

Rating Date							Apr-19-2024	Apr-30-2024	May-7-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ALRPH	ALRPH	ALRPH
Treatment Appl. Interval							7DADPRE	7DA2LF	7DA4LF
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	16*	17*	18*
7	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	80	90	95
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
8	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	85	90	98
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
9	MSO	1	% v/v	12.8	oz/a	POSTFL	80	90	95
	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			

Table 6. Continued

							Apr-19-2024	Apr-30-2024	May-7-2024
Rating Date							CONTROL	CONTROL	CONTROL
Rating Type							%	%	%
Rating Unit									
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ALRPH	ALRPH	ALRPH
Treatment Appl. Interval							7DADPRE	7DA2LF	7DA4LF
Trt	Treatment	Rate	Rate	Other	Other	Appl	16*	17*	18*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	85	90	95
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
11	Facet	32	fl oz/a	0.375	lb ai/a	DPRE	85	90	95
	Prowl	32	fl oz/a	0.825	lb ai/a	DPRE			
	Stam	3	qt/a	3	lb ai/a	2 lf			
	Permit	1	oz/a	0.047	lb ai/a	2 lf			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 7. ALB Roxy LSU-12-24

Rating Date							May-14-2024	Jun-17-2024	Apr-19-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ALRPH	ALRPH	CYPES
Treatment Appl. Interval							14DA4LF	35DAPREFL	7DADPRE
Trt	Treatment		Rate	Other	Other	Appl	19*	20*	21*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	Nontreatd						0	0	0
2	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	80	40	0
	ALB2024	3	pt/a	840	g ai/ha	4 lf			
	MSO	1	% v/v	12.8	oz/a	4 lf			
3	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	80	40	0
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
4	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	80	50	0
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
5	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	85	40	0
	ProwlH2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
6	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	80	40	0
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			

Table 7. Continued

Rating Date							May-14-2024	Jun-17-2024	Apr-19-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ALRPH	ALRPH	CYPES
Treatment Appl. Interval							14DA4LF	35DAPREFL	7DADPRE
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	19*	20*	21*
7	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	80	40	0
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
8	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	80	30	0
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
9	MSO	1	% v/v	12.8	oz/a	POSTFL	90	30	0
	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			

Table 7. Continued

Rating Date							May-14-2024	Jun-17-2024	Apr-19-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ALRPH	ALRPH	CYPES
Treatment Appl. Interval							14DA4LF	35DAPREFL	7DADPRE
Trt	Treatment	Rate	Rate	Other	Other	Appl	19*	20*	21*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	85	70	0
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
11	Facet	32	fl oz/a	0.375	lb ai/a	DPRE	90	50	0
	Prowl	32	fl oz/a	0.825	lb ai/a	DPRE			
	Stam	3	qt/a	3	lb ai/a	2 lf			
	Permit	1	oz/a	0.047	lb ai/a	2 lf			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 8. ALB Roxy LSU-12-24

Rating Date							Apr-30-2024	May-7-2024	May-14-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CYPES	CYPES	CYPES
Treatment Appl. Interval							7DA2LF	7DA4LF	14DA4LF
Trt	Treatment		Rate	Rate	Other	Appl	22*	23*	24*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	Nontreatd						0	0	0
2	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	0	95	90
	ALB2024	3	pt/a	840	g ai/ha	4 lf			
	MSO	1	% v/v	12.8	oz/a	4 lf			
3	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	90	95	90
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
4	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	90	80	85
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
5	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	95	80	80
	ProwlH2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
6	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	90	70	80
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			

Table 8. Continued

Rating Date							Apr-30-2024	May-7-2024	May-14-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating							0, 100, -	0, 100, -	0, 100, -
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							CYPES	CYPES	CYPES
Treatment Appl. Interval							7DA2LF	7DA4LF	14DA4LF
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	22*	23*	24*
7	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	90	90	75
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
8	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	90	90	80
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
9	MSO	1	% v/v	12.8	oz/a	POSTFL	90	90	90
	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			

Table 8. Continued

							Apr-30-2024	May-7-2024	May-14-2024
							CONTROL	CONTROL	CONTROL
							%	%	%
							0, 100, -	0, 100, -	0, 100, -
							W, Weed	W, Weed	W, Weed
							CYPES	CYPES	CYPES
							7DA2LF	7DA4LF	14DA4LF
Trt	Treatment	Rate	Rate	Other	Other	Appl	22*	23*	24*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	90	85	80
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
11	Facet	32	fl oz/a	0.375	lb ai/a	DPRE	90	95	90
	Prowl	32	fl oz/a	0.825	lb ai/a	DPRE			
	Stam	3	qt/a	3	lb ai/a	2 lf			
	Permit	1	oz/a	0.047	lb ai/a	2 lf			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 9. ALB Roxy LSU-12-24

Rating Date							Jun-17-2024	Jun-17-2024	Aug-9-2024
Rating Type							CONTROL	CONTROL	HEIGHT
Rating Unit							%	%	cm
Rating							0, 100, -	0, 100, -	
Min/Max/Interval							W, Weed	W, Weed	
Pest Type							CYPES	LEFPA	RICE
Pest Code							35DAPREL	35DAPREL	HARVEST
Treatment Appl. Interval							25*	26*	27*
Trt	Treatment	Rate	Rate	Other	Other	Appl			
No.	Name		Unit	Rate	Rate Unit	Timing			
1	Nontreatd						0	0	93
2	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	40	95	109
	ALB2024	3	pt/a	840	g ai/ha	4 lf			
	MSO	1	% v/v	12.8	oz/a	4 lf			
3	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	40	95	106
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
4	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	40	95	100
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
5	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	40	95	100
	ProwlH2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
6	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	40	95	101
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			

Table 9. Continued

Rating Date							Jun-17-2024	Jun-17-2024	Aug-9-2024
Rating Type							CONTROL	CONTROL	HEIGHT
Rating Unit							%	%	cm
Rating							0, 100, -	0, 100, -	
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	
Pest Code							CYPES	LEFPA	RICE
Treatment Appl. Interval							35DAPREL	35DAPREL	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	25*	26*	27*
No.	Name		Unit	Rate	Rate Unit	Timing			
7	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	40	95	104
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
8	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	30	95	109
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
9	MSO	1	% v/v	12.8	oz/a	POSTFL	30	95	97
	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			

Table 9. Continued

Rating Date							Jun-17-2024	Jun-17-2024	Aug-9-2024
Rating Type							CONTROL	CONTROL	HEIGHT
Rating Unit							%	%	cm
Rating							0, 100, -	0, 100, -	
Min/Max/Interval									
Pest Type							W, Weed	W, Weed	
Pest Code							CYPES	LEFPA	RICE
Treatment Appl. Interval							35DAPREL	35DAPREL	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	25*	26*	27*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	40	95	106
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
11	Facet	32	fl oz/a	0.375	lb ai/a	DPRE	98	95	114
	Prowl	32	fl oz/a	0.825	lb ai/a	DPRE			
	Stam	3	qt/a	3	lb ai/a	2 lf			
	Permit	1	oz/a	0.047	lb ai/a	2 lf			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 10. ALB Roxy LSU-12-24

Rating Date							Aug-9-2024	Aug-9-2024	Aug-9-2024
Rating Type							HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating									
Min/Max/Interval									
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	28*	29*	30*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	Nontreatd						87	91	92
2	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	109	111	111
	ALB2024	3	pt/a	840	g ai/ha	4 lf			
	MSO	1	% v/v	12.8	oz/a	4 lf			
3	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	109	111	112
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
4	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	114	114	113
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
5	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	103	108	115
	ProwlH2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
6	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	101	106	110
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			

Table 10. Continued

Rating Date							Aug-9-2024	Aug-9-2024	Aug-9-2024
Rating Type							HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating									
Min/Max/Interval									
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	28*	29*	30*
No.	Name		Unit	Rate	Rate Unit	Timing			
7	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	111	112	112
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
8	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	110	106	104
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
9	MSO	1	% v/v	12.8	oz/a	POSTFL	107	101	105
	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			

Table 10. Continued

Rating Date							Aug-9-2024	Aug-9-2024	Aug-9-2024
Rating Type							HEIGHT	HEIGHT	HEIGHT
Rating Unit							cm	cm	cm
Rating									
Min/Max/Interval									
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	28*	29*	30*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	112	113	107
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
11	Facet	32	fl oz/a	0.375	lb ai/a	DPRE	112	118	113
	Prowl	32	fl oz/a	0.825	lb ai/a	DPRE			
	Stam	3	qt/a	3	lb ai/a	2 lf			
	Permit	1	oz/a	0.047	lb ai/a	2 lf			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 11. ALB Roxy LSU-12-24

Rating Date							Aug-9-2024	Aug-9-2024	Aug-9-2024
Rating Type							AVG HEIGHT	YIELD	MOICON
Rating Unit							cm	LBS/PLOT	%
Rating									
Min/Max/Interval									0, 100, -
Pest Type									
Pest Code									
Treatment Appl. Interval							RICE HARVEST	RICE HARVEST	RICE HARVEST
Trt	Treatment		Rate	Other	Other	Appl	31*	32*	33*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	Nontreatd						91	14.22	7.5
2	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	110	39.43	13.9
	ALB2024	3	pt/a	840	g ai/ha	4 lf			
	MSO	1	% v/v	12.8	oz/a	4 lf			
3	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	110	40.14	13.6
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
4	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	110	38.69	13.8
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
5	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	107	38.50	13.5
	ProwlH2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
6	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	105	39.28	13.8
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			

Table 11. Continued

Rating Date							Aug-9-2024	Aug-9-2024	Aug-9-2024
Rating Type							AVG HEIGHT	YIELD	MOICON
Rating Unit							cm	LBS/PLOT	%
Rating									0, 100, -
Min/Max/Interval									
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	31*	32*	33*
No.	Name		Unit	Rate	Rate Unit	Timing			
7	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	110	39.23	13.4
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
8	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	107	39.26	13.8
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
9	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL	103	37.93	11.6
	MSO	1	% v/v	12.8	oz/a	POSTFL			
	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			

Table 11. Continued

							Aug-9-2024	Aug-9-2024	Aug-9-2024
							AVG HEIGHT	YIELD	MOICON
							cm	LBS/PLOT	%
									0, 100, -
							RICE	RICE	RICE
							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	31*	32*	33*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	110	35.26	13.6
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
11	Facet	32	fl oz/a	0.375	lb ai/a	DPRE	114	46.80	9.9
	Prowl	32	fl oz/a	0.825	lb ai/a	DPRE			
	Stam	3	qt/a	3	lb ai/a	2 lf			
	Permit	1	oz/a	0.047	lb ai/a	2 lf			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Table 12. ALB Roxy LSU-12-24

Rating Date							Aug-9-2024	Aug-9-2024	Aug-9-2024
Rating Type							YIELD	YIELD	YIELD
Rating Unit							LB/A	BU/A	KG/HA
Rating									
Min/Max/Interval									
Pest Type									
Pest Code									
Treatment Appl. Interval							RICE HARVEST	RICE HARVEST	RICE HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	34*	35*	36*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	Nontreatd						1255	28	1407
2	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	3238	72	3629
	ALB2024	3	pt/a	840	g ai/ha	4 lf			
	MSO	1	% v/v	12.8	oz/a	4 lf			
3	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	3308	74	3707
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
4	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	3181	71	3565
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
5	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	3176	71	3560
	ProwlH2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
6	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	3229	72	3620
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			

Table 12. Continued

Rating Date							Aug-9-2024	Aug-9-2024	Aug-9-2024
Rating Type							YIELD	YIELD	YIELD
Rating Unit							LB/A	BU/A	KG/HA
Rating									
Min/Max/Interval									
Pest Type									
Pest Code									
Treatment Appl. Interval							RICE HARVEST	RICE HARVEST	RICE HARVEST
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing	34*	35*	36*
7	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	3240	72	3632
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
8	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	3228	72	3618
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
9	MSO	1	% v/v	12.8	oz/a	POSTFL	3198	71	3584
	ALB2023	1.5	pt/a	840	g ai/ha	DPRE			
	Prowl H2O	2	pt/a	1060	g ai/ha	DPRE			
	Bolero	3	pt/a	1260	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			

Table 12. Continued

Rating Date							Aug-9-2024	Aug-9-2024	Aug-9-2024
Rating Type							YIELD	YIELD	YIELD
Rating Unit							LB/A	BU/A	KG/HA
Rating									
Min/Max/Interval									
Pest Type									
Pest Code									
Treatment Appl. Interval							RICE HARVEST	RICE HARVEST	RICE HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	34*	35*	36*
No.	Name		Unit	Rate	Rate Unit	Timing			
10	ALB2023	1.5	pt/a	840	g ai/ha	DPRE	2906	65	3257
	Clomate	12.8	fl oz/a	336	g ai/ha	DPRE			
	ALB2024	3	pt/a	840	g ai/ha	2 lf			
	Prowl H2O	2	pt/a	1060	g ai/ha	2 lf			
	Bolero	3	pt/a	1260	g ai/ha	2 lf			
	MSO	1	% v/v	12.8	oz/a	2 lf			
	Quinstar	12	fl oz/a	420	g ai/ha	PREFL			
	MSO	1	% v/v	12.8	oz/a	PREFL			
	Rogue	12.6	fl oz/a	370	g ai/ha	POSTFL			
	MSO	1	% v/v	12.8	oz/a	POSTFL			
11	Facet	32	fl oz/a	0.375	lb ai/a	DPRE	4023	89	4509
	Prowl	32	fl oz/a	0.825	lb ai/a	DPRE			
	Stam	3	qt/a	3	lb ai/a	2 lf			
	Permit	1	oz/a	0.047	lb ai/a	2 lf			
LSD P=.05							.	.	.
Standard Deviation							.	.	.
CV							.	.	.
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.

Rating Type	Rating Unit	Pest Type	Pest Code
HEIGHT = height YIELD = yield MOICON = moisture content	%, 0, 100 = percent cm = centimeter KG/HA = kilogram per hectare	W, Weed = Weed or volunteer crop	ECHCG, Echinochloa crus-galli, common barnyardgrass=US BRAPP, Brachiaria platyphylla, broad-leaved signal grass=US ALRPH, Alternanthera philoxeroides, Alligatorweed = US CYPES, Cyperus esculentus, Yellow nutsedge = US LEFPA, Leptochloa panicoides, Tighthead sprangletop = US

LSU AgCenter
School of Plant, Environmental and Soil Sciences

Comparison of Proshot vs Stam

Experiment number : **C24-66**
 Location : RRS-Crowley, LA
 Experimental design : RCB
 Number of reps : 4
 Plot size : 5'x17'
 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 LBS/A
 Planting date : 4/3/2024
 Emergence date : 4/8/2024
 Harvest date : 8/20/2024
 Uniform Standard Treatment : Gambit at 1.5 oz/A on 4/23/24

Application type	PRE	EPOST
Date applied [mm/dd/yy]	4/4/24	5/7/24
Time [hh:mm-hh:mm]	2:58-3:03p	11:25-11:33
Air/Soil temperature [F]	74/63	82/77
Relative humidity [%]	28%	74%
Wind [mph, direction]	8-10, WSW	8-10, S
Weather [sunny, etc]	Sunny	Cloudy
Soil/Leaf surface moist	Dry/NA	Moist/dry
Crop stage/Height	N/A	1-2til/8-12"
Sprayer type/MPH	BKPK/3.0	BKPK/3.0
Nozzle type/Size*	FF/110015	FF/110015
Boom ht/# Noz/Spacing	15/5/15	15/5/15
GPA/PSI	15/21	15/21
Applied by	LCW	WBC

Weed Species (population) :----- (height/#leaves) -----

ECHCG (30-50m ²)	NA	2-5"/2-4lf
BRAPP (20-30m ²)	NA	2-5"/2-5lf

Flush Dates : 4/24/2024
 Permanent Flood : 5/15/2024

*AMFF – Air mix flat fan nozzles

Table 1. Comparison of Proshot vs Stam

Rating Date							May-16-2024	May-23-2024	May-30-2024
Rating Type							INJURY	INJURY	INJURY
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							RICE	RICE	RICE
Pest Code							9 DA EPOST	16 DA EPOST	23 DA EPOST
Treatment Appl. Interval							1*	2*	3*
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Timing			
1	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 na	0 na	0 na
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
2	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 na	0 na	0 na
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	ProShot	3	lb ai/a	3	qt/a	EPOST			
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 na	0 na	0 na
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	Stam	3	lb ai/a	3	qt/a	EPOST			
4	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 na	0 na	0 na
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	ProShot	4	lb ai/a	4	qt/a	EPOST			
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 na	0 na	0 na
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	Stam	4	lb ai/a	4	qt/a	EPOST			
LSD P=.05							.	.	.
Standard Deviation							0.0	0.0	0.0
CV							0.0	0.0	0.0
Levene's F							.	.	.
Levene's Prob(F)							.	.	.
Shapiro-Wilk							.	.	.
P(Shapiro-Wilk)							.	.	.
Skewness							.	.	.
P(Skewness)							.	.	.
Kurtosis							.	.	.
P(Kurtosis)							.	.	.
Replicate F							NaN	NaN	NaN
Replicate Prob(F)							NaN	NaN	NaN
Treatment F							NaN	NaN	NaN
Treatment Prob(F)							NaN	NaN	NaN

Table 2. Comparison of Proshot vs Stam

Rating Date							Jun-19-2024	May-16-2024	May-23-2024
Rating Type							INJURY	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							RICE	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	ECHCG
Treatment Appl. Interval							43 DA EPOST	9 DA EPOST	16 DA EPOST
Trt	Treatment	Rate	Rate	Other	Other	Appl	4*	5*	6*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 na	0 d	0 b
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
2	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 na	80 b	93 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	ProShot	3	lb ai/a	3	qt/a	EPOST			
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 na	75 c	92 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	Stam	3	lb ai/a	3	qt/a	EPOST			
4	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 na	89 a	98 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	ProShot	4	lb ai/a	4	qt/a	EPOST			
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 na	90 a	96 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	Stam	4	lb ai/a	4	qt/a	EPOST			
LSD P=.05							.	4.8	8.4
Standard Deviation							0.0	3.1	5.4
CV							0.0	4.64	7.16
Levene's F							.	1.125	1.181
Levene's Prob(F)							.	0.382	0.359
Shapiro-Wilk							.	0.9181	0.9492
P(Shapiro-Wilk)							.	0.0911	0.3547
Skewness							.	0.2945	-0.8773
P(Skewness)							.	0.5983	0.127
Kurtosis							.	0.102	1.0297
P(Kurtosis)							.	0.9247	0.3459
Replicate F							NaN	5.348	0.792
Replicate Prob(F)							NaN	0.0143	0.5212
Treatment F							NaN	597.261	244.527
Treatment Prob(F)							NaN	0.0001	0.0001

Table 3. Comparison of Proshot vs Stam

Rating Date							May-30-2024	Jun-19-2024	May-16-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							ECHCG	ECHCG	BRAPP
Treatment Appl. Interval							23 DA EPOST	43 DA EPOST	9 DA EPOST
Trt	Treatment	Rate	Rate	Other	Other	Appl	7*	8*	9*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 c	0 c	0 d
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
2	Command	0.188	lb ai/a	8	fl oz/a	PRE	85 b	71 b	89 bc
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	ProShot	3	lb ai/a	3	qt/a	EPOST			
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	81 b	73 b	87 c
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	Stam	3	lb ai/a	3	qt/a	EPOST			
4	Command	0.188	lb ai/a	8	fl oz/a	PRE	95 a	85 a	95 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	ProShot	4	lb ai/a	4	qt/a	EPOST			
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	93 a	85 a	93 ab
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	Stam	4	lb ai/a	4	qt/a	EPOST			
LSD P=.05							7.0	7.7	4.6
Standard Deviation							4.6	5.0	3.0
CV							6.45	7.98	4.09
Levene's F							0.557	0.161	1.819
Levene's Prob(F)							0.697	0.955	0.178
Shapiro-Wilk							0.9478	0.9655	0.9732
P(Shapiro-Wilk)							0.3349	0.6591	0.8198
Skewness							0.8416	0.3417	-0.2519
P(Skewness)							0.1423	0.5416	0.652
Kurtosis							1.7458	-0.627	-0.4105
P(Kurtosis)							0.1177	0.5631	0.7042
Replicate F							0.774	1.787	2.717
Replicate Prob(F)							0.5305	0.2031	0.0913
Treatment F							306.558	203.096	751.149
Treatment Prob(F)							0.0001	0.0001	0.0001

Table 4. Comparison of Proshot vs Stam

Rating Date							May-23-2024	May-30-2024	Jun-19-2024
Rating Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Rating Min/Max/Interval							0, 100, -	0, 100, -	0, 100, -
Pest Type							W, Weed	W, Weed	W, Weed
Pest Code							BRAPP	BRAPP	BRAPP
Treatment Appl. Interval							16 DA EPOST	23 DA EPOST	43 DA EPOST
Trt	Treatment	Rate	Rate	Other	Other	Appl	10*	11*	12*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 na	0 na	0 b
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
2	Command	0.188	lb ai/a	8	fl oz/a	PRE	99 na	98 na	97 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	ProShot	3	lb ai/a	3	qt/a	EPOST			
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	99 na	98 na	97 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	Stam	3	lb ai/a	3	qt/a	EPOST			
4	Command	0.188	lb ai/a	8	fl oz/a	PRE	99 na	98 na	98 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	ProShot	4	lb ai/a	4	qt/a	EPOST			
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	99 na	98 na	98 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	Stam	4	lb ai/a	4	qt/a	EPOST			
LSD P=.05							.	.	1.3
Standard Deviation							0.0	0.0	0.8
CV							0.0	0.0	1.05
Levene's F							.	.	0.05
Levene's Prob(F)							.	.	0.995
Shapiro-Wilk							.	.	0.8604*
P(Shapiro-Wilk)							.	.	0.008*
Skewness							.	.	-0.5105
P(Skewness)							.	.	0.3647
Kurtosis							.	.	0.0103
P(Kurtosis)							.	.	0.9924
Replicate F							NaN	NaN	2.667
Replicate Prob(F)							NaN	NaN	0.0951
Treatment F							NaN	NaN	11296.409
Treatment Prob(F)							NaN	NaN	0.0001

Table 5. Comparison of Proshot vs Stam

Rating Date							Jun-19-2024	Aug-20-2024	Aug-20-2024
Rating Type							CONTROL	HEIGHTS	HEIGHTS
Rating Unit							%	CM	CM
Rating Min/Max/Interval							0, 100, -		
Pest Type							W, Weed		
Pest Code							LEFPA	RICE	RICE
Treatment Appl. Interval							43 DA EPOST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	13*	14*	15*
No.	Name		Unit	Rate	Rate Unit	Timing			
1	Command	0.188	lb ai/a	8	fl oz/a	PRE	0 b	93 b	97 -
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
2	Command	0.188	lb ai/a	8	fl oz/a	PRE	95 a	102 ab	103 -
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	ProShot	3	lb ai/a	3	qt/a	EPOST			
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	97 a	104 a	105 -
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	Stam	3	lb ai/a	3	qt/a	EPOST			
4	Command	0.188	lb ai/a	8	fl oz/a	PRE	95 a	102 ab	104 -
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	ProShot	4	lb ai/a	4	qt/a	EPOST			
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	98 a	105 a	104 -
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	Stam	4	lb ai/a	4	qt/a	EPOST			
LSD P=.05							6.6	7.6	6.6
Standard Deviation							4.3	4.9	4.3
CV							5.53	4.89	4.2
Levene's F							0.58	0.498	2.528
Levene's Prob(F)							0.682	0.738	0.084
Shapiro-Wilk							0.8346*	0.9645	0.9552
P(Shapiro-Wilk)							0.003*	0.6374	0.4532
Skewness							-1.3713*	-0.3217	-0.294
P(Skewness)							0.022*	0.5653	0.599
Kurtosis							2.3489*	0.11	-0.4686
P(Kurtosis)							0.04*	0.9188	0.665
Replicate F							0.791	0.220	0.420
Replicate Prob(F)							0.5221	0.8804	0.7417
Treatment F							409.214	3.698	2.547
Treatment Prob(F)							0.0001	0.0348	0.0940

Table 6. Comparison of Proshot vs Stam

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type							HEIGHTS	HEIGHTS	AVG HEIGHTS
Rating Unit							CM	CM	CM
Rating Min/Max/Interval									
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	16*	17*	18*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	Command	0.188	lb ai/a	8	fl oz/a	PRE	94 -	92 -	94 b
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
2	Command	0.188	lb ai/a	8	fl oz/a	PRE	103 -	105 -	103 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	ProShot	3	lb ai/a	3	qt/a	EPOST			
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	105 -	105 -	105 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	Stam	3	lb ai/a	3	qt/a	EPOST			
4	Command	0.188	lb ai/a	8	fl oz/a	PRE	102 -	106 -	104 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	ProShot	4	lb ai/a	4	qt/a	EPOST			
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	102 -	104 -	104 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	Stam	4	lb ai/a	4	qt/a	EPOST			
LSD P=.05							8.5	10.9	7.0
Standard Deviation							5.5	7.1	4.6
CV							5.44	6.92	4.48
Levene's F							1.625	0.981	1.224
Levene's Prob(F)							0.22	0.447	0.342
Shapiro-Wilk							0.978	0.9709	0.9593
P(Shapiro-Wilk)							0.9051	0.7728	0.5295
Skewness							0.1954	-0.4697	0.1221
P(Skewness)							0.7262	0.4035	0.8266
Kurtosis							-0.5654	1.425	0.848
P(Kurtosis)							0.6018	0.1968	0.4359
Replicate F							1.284	0.247	0.508
Replicate Prob(F)							0.3245	0.8617	0.6841
Treatment F							2.554	2.890	3.989
Treatment Prob(F)							0.0934	0.0688	0.0277

Table 7. Comparison of Proshot vs Stam

Rating Date							Aug-20-2024	Aug-20-2024	Aug-20-2024
Rating Type							YIELD	MOICON	YIELD
Rating Unit							LBS/PLOT	%	LB/A
Rating Min/Max/Interval								0, 100, -	
Pest Type									
Pest Code							RICE	RICE	RICE
Treatment Appl. Interval							HARVEST	HARVEST	HARVEST
Trt	Treatment	Rate	Rate	Other	Other	Appl	19*	20*	21*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing			
1	Command	0.188	lb ai/a	8	fl oz/a	PRE	2.66 b	11.5 -	1686 b
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
2	Command	0.188	lb ai/a	8	fl oz/a	PRE	8.27 a	12.2 -	5213 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	ProShot	3	lb ai/a	3	qt/a	EPOST			
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	8.78 a	12.3 -	5524 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	Stam	3	lb ai/a	3	qt/a	EPOST			
4	Command	0.188	lb ai/a	8	fl oz/a	PRE	9.46 a	12.9 -	5916 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	ProShot	4	lb ai/a	4	qt/a	EPOST			
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	9.22 a	12.2 -	5812 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE			
	Stam	4	lb ai/a	4	qt/a	EPOST			
LSD P=.05							1.140	1.29	716.8
Standard Deviation							0.740	0.83	465.2
CV							9.63	6.83	9.63
Levene's F							1.087	0.398	1.196
Levene's Prob(F)							0.398	0.807	0.353
Shapiro-Wilk							0.9811	0.9187	0.9879
P(Shapiro-Wilk)							0.9472	0.0935	0.9942
Skewness							0.1743	-0.8749	0.1581
P(Skewness)							0.7547	0.128	0.7768
Kurtosis							-0.5572	2.3431*	-0.4387
P(Kurtosis)							0.607	0.0404*	0.6851
Replicate F							1.448	0.465	1.490
Replicate Prob(F)							0.2778	0.7118	0.2672
Treatment F							58.975	1.380	58.473
Treatment Prob(F)							0.0001	0.2983	0.0001

Table 8. Comparison of Proshot vs Stam

							Aug-20-2024	Aug-20-2024
Rating Date							YIELD	YIELD
Rating Type							BU/A	KG/HA
Rating Unit								
Rating Min/Max/Interval								
Pest Type							RICE	RICE
Pest Code							HARVEST	HARVEST
Treatment Appl. Interval								
Trt	Treatment	Rate	Rate	Other	Other	Appl	22*	23*
No.	Name	Rate	Unit	Rate	Rate Unit	Timing		
1	Command	0.188	lb ai/a	8	fl oz/a	PRE	37 b	1890 b
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE		
2	Command	0.188	lb ai/a	8	fl oz/a	PRE	116 a	5842 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE		
	ProShot	3	lb ai/a	3	qt/a	EPOST		
3	Command	0.188	lb ai/a	8	fl oz/a	PRE	123 a	6192 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE		
	Stam	3	lb ai/a	3	qt/a	EPOST		
4	Command	0.188	lb ai/a	8	fl oz/a	PRE	131 a	6631 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE		
	ProShot	4	lb ai/a	4	qt/a	EPOST		
5	Command	0.188	lb ai/a	8	fl oz/a	PRE	129 a	6515 a
	Sharpen	0.0223	lb ai/a	1	fl oz/a	PRE		
	Stam	4	lb ai/a	4	qt/a	EPOST		
LSD P=.05							15.9	803.4
Standard Deviation							10.3	521.4
CV							9.63	9.63
Levene's F							1.196	1.196
Levene's Prob(F)							0.353	0.353
Shapiro-Wilk							0.9879	0.9879
P(Shapiro-Wilk)							0.9942	0.9942
Skewness							0.1581	0.1581
P(Skewness)							0.7768	0.7768
Kurtosis							-0.4387	-0.4387
P(Kurtosis)							0.6851	0.6851
Replicate F							1.490	1.490
Replicate Prob(F)							0.2672	0.2672
Treatment F							58.473	58.473
Treatment Prob(F)							0.0001	0.0001

Rating Type	Rating Unit	Pest Type	Pest Code
YIELD = yield	%, 0, 100 = percent	W, Weed = Weed or volunteer crop	ECHCG, Echinochloa crus-galli, common barnyardgrass=US
MOICON = moisture content	cm = centimeter		BRAPP, Brachiaria platyphylla, broad-leaved signal grass=US
	KG/HA = kilogram per hectare		LEFPA, Leptochloa panicoides, Tighthead sprangletop = US

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 ₂ BKPK	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	Seeding flood drain/drawdown
Emergence	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
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

Abbreviations Used in Rice Weed Control Research (Continued)

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	<i>Aeschynomene indica</i>
ALRPH	alligatorweed	<i>Alternanthera philoxeroides</i>
BRAPP	broadleaf signalgrass	<i>Urochloa platyphylla</i>
CNPPA	Texasweed	<i>Caperonia palustris</i>
COMDI	spreading dayflower	<i>Commelina diffusa</i>
CYPIR	rice flatsedge	<i>Cyperus iria</i>
CYPES	yellow nutsedge	<i>Cyperus esculentus</i>
ECHCG	barnyardgrass	<i>Echinochloa crus-galli</i>
ECLAL	eclipta	<i>Eclipta prostrata</i>
ECOCO	creeping burhead	<i>Echinodorus cordifolius</i>
HETLI	ducksalad	<i>Heteranthera limosa</i>
IUSRG	creeping water primrose	<i>Ludwigia peploides</i>
LEFPA	Amazon sprangletop	<i>Leptochloa panicoides</i>
MEOCO	redweed	<i>Melochia corchorifolia</i>
ORYSA	red rice	<i>Oryza sativa</i>
POFCO	pickerelweed	<i>Pontederia cordata</i>
POLPE	ladysthumb	<i>Polygonum aviculare</i>
ROTRA	toothcup	<i>Rotala ramosior</i>
SAGGR	Grassy arrowhead	<i>Sagittaria graminea</i>
SEBEX	hemp sesbania	<i>Sesbania herbacea</i>

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-1H-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-fluorophenoxy)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-trifluoropropyl)-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]
Loyan	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-toxo-1H-imidazol-2-yl)-5-ethyl-3-pyridinecarboxylic acid

List of Herbicides (Continued)

Trade Name	Formulation	Company	Common Name	Chemical Name
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 ₂ O	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	Chemical Name
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, alkanooates, 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

LOUISIANA RICE PATHOLOGY

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INTRODUCTION

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 (*Magnaporthe 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.

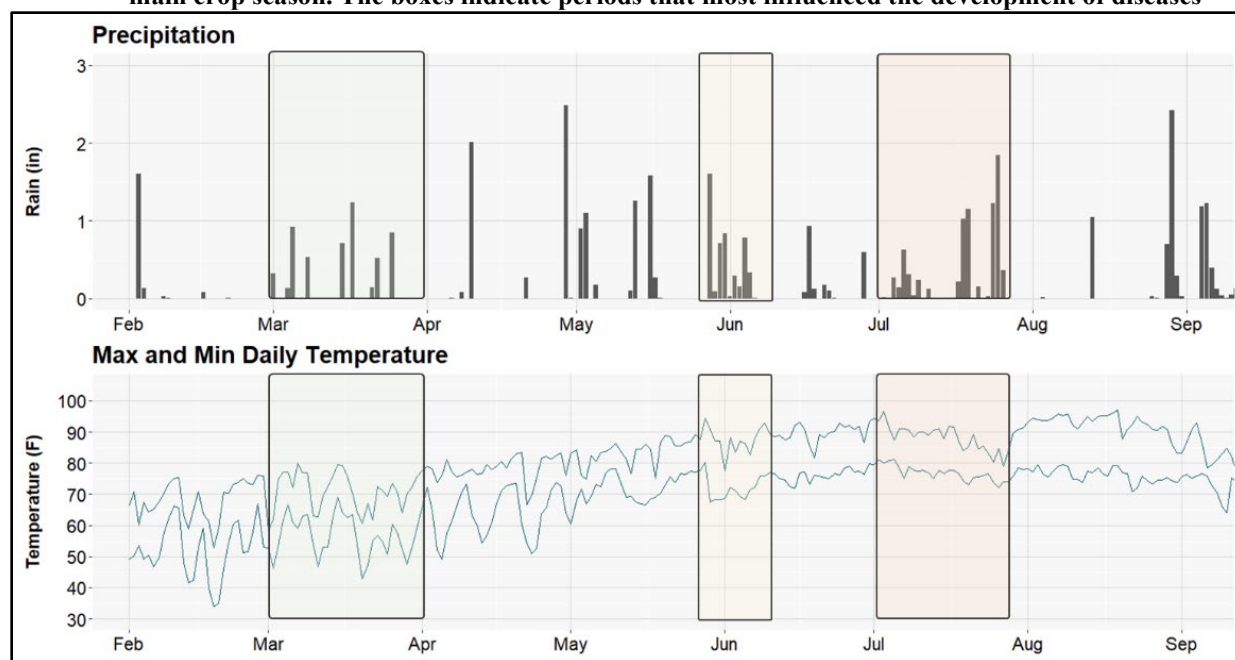
Effective management of rice diseases can include strategies like host resistance, cultural practices, and the use of chemical or biological products. Host resistance is the most effective and affordable method available for controlling diseases. Resistant genes, such as *Pita-2* for blast, are present 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 is 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.

DISEASE OCCURRENCE AND RESEARCH SUMMARY OF 2024 SEASON

Disease prevalence was heterogeneous during the 2024 season. Rain and cold conditions prevented planting for most of March (Fig. 1). This created two groups of fields: those planted in late February or early March, and those planted in April. Growers in the first group had very limited problems with disease. However, the group of fields planted relatively late was exposed to heavy rainfall at crucial moments, particularly around Boot stage (around June 1st) and during grain filling and harvesting (July). These two events favored the development of kernel smut and *Cercospora* panicle-blight, respectively. These diseases caused a severe impact on yield and grain quality. Sheath blight incidence in commercial fields was moderate, and blast was limited to a few fields with susceptible varieties. Incidence of false smut and ear blight complex was moderate, and all other diseases were low.

The yield loss associated with these diseases was high, estimated at close to 10% for the 2024 season in Louisiana. The majority of yield loss was observed in fields planted after March. The breakdown of estimated yield losses for each disease is as follows: *Cercospora* – 4%, ear blight complex – 2%, sheath blight – 1.5%, kernel smut – 1%, bacterial panicle blight – 1%, and blast and other diseases – less than 0.1%.

Figure 1 – Precipitation (top) and temperature range at the Rice Research Station, Rayne, during the 2024 rice main crop season. The boxes indicate periods that most influenced the development of diseases



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 subsections.

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 dimension were 4.6 by 16 feet, with four replications in a RCBD and inoculate 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 1 – Summary of material and methods applied to yield-plots.

Planting Date:	March 13 (First field) and April 23 (Third field)
Water Management	<i>First Field</i> - Flooded: April 29; Drained: July 19 <i>Second Field</i> - Flooded, May 28; Drained: Aug 19
Fertilization	Pre-planting - 250 lb/A of 0-24-24; Preflood 300 lb/A 46-0-0 urea (Both fields)
Herbicides	<i>First Field:</i> <ul style="list-style-type: none"> • Command 6 fl oz/A, March 14 • Propanil 4 qt/A, Prowl 1 qt/A, Gambit 2 oz/A, April 16 • Propanil 3 qt/A, Permit 1/3 oz/A, Londax 1.5 oz/A, Hook (NIS) 2.5 fl oz/A, April 26 <i>Second Field:</i> <ul style="list-style-type: none"> • Command 6 fl oz/A, April 25 • Propanil 4 qt/A, Prowl 1 qt/A, Gambit 2 oz/A, May 9 • Propanil 3 qt/A, Permit 1/3 oz/A, Londax 1.5 oz/A, Hook (NIS) 2.5 fl oz/A, May 24
Insecticides	Dermacor X-100 seed treatment
Inoculation	<i>First Field:</i> <ul style="list-style-type: none"> • <i>Rhizoctonia solani</i> culture grown on rice grain/hull mixture, May 22th; <i>Second Field:</i> <ul style="list-style-type: none"> • <i>Rhizoctonia solani</i> culture grown on rice grain/hull mixture, June 12
Ratings	<i>First Field:</i> Sheath: July 28 <i>Second Field:</i> Sheath blight: August 9
Harvest	<i>First Field:</i> August 7 - 2 nd Crop: November 15 <i>Second Field:</i> August 28

Variety Trials – Yield Plots

Table 2 – Estimated mean (Mean) and 95% confidence interval range (Lower and Upper) for sheath blight severity (SB; 0-9 scale), grain yield from the first crop (YLD; lb/A), total milling yield (Total; %), whole grain milling yield (Head; %), and grain yield from the second crop (Ratoon; lb/A) in the *Variety* study planted on March 13 (*First Field*). Crowley, LA, 2024.

Disease	SB	SB	SB	Yield	Yield	Yield	Total	Total	Total	Head	Head	Head	Ratoon	Ratoon	Ratoon
Units	0-9	0-9	0-9	Lb/A	Lb/A	Lb/A	%	%	%	%	%	%	Lb/A	Lb/A	Lb/A
Description	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper
Genotype															
201L1251	6.3	4.8	7.8	7654	7139	8169	72.5	72.0	73.0	34.7	31.3	38.1	3098	2621	3574
211L1008	7.3	5.8	8.8	6977	6462	7492	73.0	72.5	73.6	45.3	41.9	48.7	3354	2877	3831
213L1130	4.7	3.2	6.2	8385	7870	8901	72.1	71.6	72.6	43.3	39.9	46.7	2966	2489	3443
213L1140	6.7	5.2	8.2	8513	7998	9028	72.7	72.2	73.2	46.7	43.3	50.1	2181	1704	2658
23DGL-003PV	5.0	3.5	6.5	8643	8128	9158	72.3	71.8	72.8	53.4	50.0	56.9	2551	2074	3028
23DGL070	4.0	2.5	5.5	9869	9354	10384	73.7	73.2	74.3	61.4	58.0	64.9	3793	3316	4270
23DGL078	3.7	2.2	5.2	8395	7879	8910	73.5	73.0	74.0	57.0	53.5	60.4	3642	3165	4119
AddiJo	4.3	2.8	5.8	7778	7263	8293	72.6	72.1	73.1	43.3	39.8	46.7	3628	3151	4105
ARoma22	2.3	0.8	3.8	7421	6906	7936	72.8	72.3	73.3	51.3	47.9	54.7	4218	3741	4695
Avant	5.3	3.8	6.8	7910	7395	8425	74.2	73.7	74.7	52.3	48.9	55.7	3233	2756	3710
Cheniere	5.0	3.5	6.5	7990	7475	8505	75.6	75.0	76.1	57.2	53.8	60.6	3455	2978	3932
CL153	6.0	4.5	7.5	7206	6691	7721	73.0	72.5	73.5	43.2	39.8	46.7	3118	2641	3595
CLHA03	5.0	3.5	6.5	6830	6315	7346	73.1	72.5	73.6	52.4	49.0	55.8	3302	2825	3779
CLJ01	3.7	2.2	5.2	6838	6323	7353	73.6	73.1	74.1	56.6	53.2	60.0	4124	3647	4601
CLL16	3.7	2.2	5.2	8113	7598	8628	72.6	72.1	73.2	42.4	39.0	45.8	3769	3293	4246
CLL18	5.3	3.8	6.8	9349	8834	9864	72.4	71.9	72.9	42.9	39.5	46.3	2989	2512	3466
CLL19	5.7	4.2	7.2	7454	6939	7969	71.9	71.3	72.4	36.4	33.0	39.8	2703	2226	3180
CLM04	2.7	1.2	4.2	8996	8481	9511	72.4	71.9	72.9	54.3	50.9	57.7	3654	3177	4131
CLM05	6.3	4.8	7.8	7966	7451	8482	69.7	69.1	70.2	32.1	28.7	35.5	3786	3309	4263
DG245L	5.3	3.8	6.8	8303	7788	8818	74.3	73.8	74.9	49.0	45.6	52.4	3257	2780	3734
DG263L	6.0	4.5	7.5	8379	7864	8894	71.6	71.1	72.1	50.2	46.8	53.7	3040	2563	3517
DG353M	3.7	2.2	5.2	8699	8184	9214	71.4	70.9	71.9	30.2	26.7	33.6	3007	2530	3484
DG3H2004	3.0	1.5	4.5	11086	10571	11601	72.5	72.0	73.0	49.0	45.6	52.4	3050	2573	3527
DG3H2007	4.3	2.8	5.8	10455	9940	10970	71.9	71.4	72.5	40.5	37.1	43.9	2614	2137	3091

Table 2 Continued

Disease	SB	SB	SB	Yield	Yield	Yield	Total	Total	Total	Head	Head	Head	Ratoon	Ratoon	Ratoon
Units	0-9	0-9	0-9	Lb/A	Lb/A	Lb/A	%	%	%	%	%	%	Lb/A	Lb/A	Lb/A
Description	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper
Genotype															
Fitzgerald	4.3	2.8	5.8	6785	6270	7300	73.1	72.6	73.6	48.2	44.8	51.7	2603	2126	3080
Jazzman	4.0	2.5	5.5	7415	6900	7930	73.7	73.1	74.2	59.5	56.1	62.9	4467	3991	4944
Jupiter	3.7	2.2	5.2	8373	7858	8888	71.6	71.1	72.2	63.4	60.0	66.8	3679	3202	4156
Mermentau	4.3	2.8	5.8	7475	6960	7990	73.9	73.4	74.4	56.1	52.7	59.5	3328	2851	3805
Ozark	3.3	1.8	4.8	8766	8251	9281	71.9	71.3	72.4	35.0	31.6	38.5	4891	4414	5368
PVL03	5.7	4.2	7.2	8284	7769	8799	73.1	72.6	73.6	37.4	34.0	40.8	2752	2275	3229
PVL04	6.0	4.5	7.5	6655	6140	7170	75.0	74.5	75.5	59.1	55.7	62.6	2850	2373	3327
RT3202	1.3	0.0	2.8	10965	10450	11480	72.0	71.5	72.5	38.6	35.2	42.1	4955	4478	5432
RT7302	1.7	0.2	3.2	11647	11132	12162	74.0	73.5	74.5	39.0	35.5	42.4	5009	4532	5486
RT7331MA	3.3	1.8	4.8	10373	9858	10888	74.0	73.5	74.5	38.8	35.4	42.2	5329	4852	5806
RT7401	2.7	1.2	4.2	10900	10385	11415	72.7	72.2	73.3	35.6	32.1	39.0	3614	3137	4091
RT7421FP	2.0	0.5	3.5	11274	10759	11789	73.0	72.5	73.5	41.2	37.8	44.7	3720	3243	4197
RU1902034	6.7	5.2	8.2	6792	6277	7307	72.1	71.5	72.6	34.4	31.0	37.8	2871	2394	3348
RU2102066	4.3	2.8	5.8	8164	7649	8679	71.4	70.9	71.9	53.3	49.9	56.7	3070	2593	3547
RU2102070	4.7	3.2	6.2	8572	8057	9087	70.7	70.2	71.2	38.7	35.3	42.1	3930	3453	4407
RU2102217	7.0	5.5	8.5	7151	6636	7666	71.7	71.2	72.2	18.9	15.5	22.3	3464	2987	3941
RU2102222	4.7	3.2	6.2	8360	7845	8875	74.5	74.0	75.0	54.1	50.7	57.5	4222	3745	4699
Taurus	5.0	3.5	6.5	8759	8244	9274	72.4	71.9	72.9	35.3	31.9	38.8	3136	2660	3613
Titan	5.0	3.5	6.5	7632	7117	8147	70.1	69.6	70.6	26.6	23.2	30.1	3931	3454	4408
XP753	3.7	2.2	5.2	11237	10722	11752	73.6	73.1	74.1	33.2	29.8	36.7	5650	5173	6127

Table 3 – Estimated mean (Mean) and 95% confidence interval range (Lower and Upper) for sheath blight severity (SB; 0-9 scale), grain yield from the first crop (YLD; lb/A), total milling yield (Total; %), and whole grain milling yield (Head; %) in the *Variety* study planted on April 19 (Second Field). Crowley, LA, 2024.

Disease Units Description Genotypes	SB 0-9 Mean	SB 0-9 Lower	SB 0-9 Upper	Yield Lb/A Mean	Yield Lb/A Lower	Yield Lb/A Upper	Total % Mean	Total % Lower	Total % Upper	Head % Mean	Head % Lower	Head % Upper
201L1251	2.3	1.2	3.5	7153	6676	7631	70.6	67.4	73.8	48.8	42.2	55.3
211L1008	3.0	1.9	4.1	6847	6369	7324	72.4	70.1	74.6	58.6	54.1	63.2
213L1130	1.7	0.5	2.8	6446	5969	6924	68.4	65.2	71.6	50.1	43.6	56.7
213L1140	4.0	2.9	5.1	6021	5544	6499	64.6	62.8	66.3	37.3	33.6	40.9
23DGL-003PV	4.7	3.5	5.8	6204	5726	6681	68.8	66.6	71	52.6	48.1	57.2
23DGL070	3.0	1.9	4.1	6775	6297	7252	67.9	66.1	69.7	48.1	44.5	51.8
23DGL078	4.7	3.5	5.8	5331	4853	5808	66.8	64.5	69	43.1	38.5	47.6
AddiJo	2.0	0.9	3.1	6539	6061	7016	69	67.2	70.7	53.5	49.9	57.2
ARoma22	3.0	1.9	4.1	5356	4878	5833	68.2	66.4	70	52.3	48.6	56
Avant	2.3	1.2	3.5	6877	6399	7354						
Cheniere	3.0	1.9	4.1	5962	5484	6439	73.7	70.5	76.9	62.7	56.2	69.3
CL153	3.0	1.9	4.1	6482	6005	6960						
CLHA03	3.7	2.5	4.8	6765	6288	7243	67.8	65.6	70.1	51.4	46.8	55.9
CLJ01	2.3	1.2	3.5	6243	5766	6721	69.9	67.6	72.1	59.4	54.8	63.9
CLL16	2.7	1.5	3.8	7608	7130	8085	63.5	60.3	66.7			
CLL18	1.3	0.2	2.5	7318	6841	7796	65.8	62.6	69	45.6	39.1	52.2
CLL19	4.0	2.9	5.1	7116	6638	7593						
CLM04	2.0	0.9	3.1	7401	6924	7879	70.4	68.6	72.2	62.2	58.6	65.9
CLM05	3.7	2.5	4.8	6841	6363	7318	68.7	66.9	70.5	58.4	54.8	62.1
DG245L	3.0	1.9	4.1	7166	6689	7644	69.4	66.1	72.6	54.4	47.9	61
DG263L	4.3	3.2	5.5	5831	5354	6309	67.8	65.6	70.1	45.1	40.5	49.6
DG353M	3.7	2.5	4.8	5787	5310	6265	69.4	67.6	71.1	56.9	53.2	60.5
DG3H2004	3.3	2.2	4.5	8836	8358	9313	67.2	65	69.5	46.4	41.9	51
DG3H2007	4.7	3.5	5.8	8850	8373	9328	67	63.8	70.2	44.3	37.7	50.8
Fitzgerald	3.7	2.5	4.8	5483	5005	5961	67.3	65.1	69.5	49.7	45.2	54.3
Jazzman	2.3	1.2	3.5	6204	5726	6681	70.7	68.5	72.9	58.8	54.3	63.4
Jupiter	3.0	1.9	4.1	5535	5057	6012	69	67.2	70.8	61.5	57.8	65.1
Mermentau	1.7	0.5	2.8	6791	6314	7269	67.8	65.6	70.1	53	48.5	57.6
Ozark	2.7	1.5	3.8	7398	6921	7876	70.8	67.6	74	53.9	47.4	60.5
PVL03	4.0	2.9	5.1	6388	5911	6866	65.3	62.1	68.5	44.2	37.7	50.8
PVL04	4.0	2.9	5.1	5837	5359	6314	67.1	64.9	69.4	48.4	43.8	52.9

Table 3 Continued

Disease Units Description Genotypes	SB 0-9 Mean	SB 0-9 Lower	SB 0-9 Upper	Yield Lb/A Mean	Yield Lb/A Lower	Yield Lb/A Upper	Total % Mean	Total % Lower	Total % Upper	Head % Mean	Head % Lower	Head % Upper
RT3202	2.3	1.2	3.5	9565	9087	10042	71.7	69.9	73.5	59.7	56.1	63.4
RT7302	1.0	0.0	2.1	10466	9989	10944						
RT7331MA	1.0	0.0	2.1	10173	9695	10650	68.6	65.4	71.8	47.3	40.7	53.9
RT7401	1.0	0.0	2.1	9281	8804	9759	66.6	63.4	69.8	46.2	39.6	52.7
RT7421FP	1.0	0.0	2.1	10154	9676	10631						
RU1902034	3.0	1.9	4.1	7074	6596	7551	70.9	67.7	74.1	55.5	49	62.1
RU2102066	3.3	2.2	4.5	5974	5496	6451	70.7	68.9	72.5	63.3	59.7	67
RU2102070	3.7	2.5	4.8	6647	6170	7125	69.4	67.6	71.2	59	55.4	62.7
RU2102217	4.3	3.2	5.5	6973	6496	7451	66.7	63.5	69.9	37.8	31.3	44.3
RU2102222	2.0	0.9	3.1	7334	6856	7811	72.2	70	74.4	59.8	55.2	64.3
Taurus	4.7	3.5	5.8	7018	6540	7495	71.3	69.5	73.1	54.3	50.7	58
Titan	3.3	2.2	4.5	6101	5624	6579	70	68.2	71.8	58.1	54.5	61.8
XP753	1.0	0.0	2.1	10041	9563	10518	68.7	66.4	70.9	45.1	40.5	49.6

Pre-Commercial

Table 4 – Estimated mean (Mean) and 95% confidence interval range (Lower and Upper) for sheath blight severity (SB; 0-9 scale), grain yield from the first crop (YLD; lb/A), total milling yield (Total; %), whole grain milling yield (Head; %), and grain yield from the second crop (Ratoon; lb/A) in the *Pre-Commercial* study planted on March 13 (*First Field*). Crowley, LA, 2024.

Disease Units Description Genotype	SB 0-9 Mean	SB 0-9 Lower	SB 0-9 Upper	Yield Lb/A Mean	Yield Lb/A Lower	Yield Lb/A Upper	Total % Mean	Total % Lower	Total % Upper	Head % Mean	Head % Lower	Head % Upper	Ratoon Lb/A Mean	Ratoon Lb/A Lower	Ratoon Lb/A Upper
211L1008	5.7	4.4	6.9	7214	6571	7858	72.6	72.1	73.1	46.4	43.4	49.5	2848	2438	3258
212M1144	4.3	3.1	5.6	8640	7996	9284	70.8	70.3	71.3	36.1	33.1	39.1	3379	2969	3789
213L1041	4.7	3.4	5.9	7712	7069	8356	73.0	72.6	73.5	43.6	40.6	46.7	1632	1223	2042
213L1130	5.0	3.8	6.2	7842	7198	8485	71.4	70.9	71.9	38.2	35.2	41.2	2027	1618	2437
213L1140	5.7	4.4	6.9	7536	6892	8180	71.6	71.1	72.1	42.4	39.4	45.4	1893	1483	2303
21AR1217	4.0	2.8	5.2	9011	8367	9655	70.2	69.7	70.7	27.2	24.2	30.2	2836	2426	3245
23AR2114	5.0	3.8	6.2	7901	7257	8545	71.1	70.6	71.6	24.9	21.9	27.9	2888	2478	3298
23AR2133	4.0	2.8	5.2	8015	7371	8658	71.3	70.8	71.7	42.8	39.8	45.8	3561	3152	3971
23AR2134	3.3	2.1	4.6	7971	7327	8614	70.4	70.0	70.9	36.6	33.6	39.6	3966	3556	4376
23AR2205	3.3	2.1	4.6	9324	8680	9968	71.3	70.8	71.7	62.6	59.6	65.6	2606	2197	3016
23DGL-003PV	4.0	2.8	5.2	8247	7604	8891	72.5	72.0	73.0	56.2	53.2	59.2	1893	1484	2303
23DGL-008PV	4.0	2.8	5.2	7589	6945	8233	72.7	72.2	73.2	53.2	50.2	56.2	2292	1882	2701
23DGL070	4.3	3.1	5.6	9457	8813	10101	72.5	72.0	72.9	55.8	52.8	58.8	3159	2750	3569
23DGL078	4.3	3.1	5.6	7995	7352	8639	72.0	71.5	72.5	52.0	49.0	55.0	2866	2456	3275
24DGL-4530PV	6.7	5.4	7.9	5951	5307	6595	73.4	72.9	73.9	50.5	47.5	53.5	1387	977	1797
CLL18	3.3	2.1	4.6	9535	8891	10179	70.9	70.4	71.4	38.4	35.4	41.4	2483	2073	2892
DG263L	6.0	4.8	7.2	7772	7128	8416	71.0	70.5	71.5	47.5	44.5	50.5	2631	2221	3040
PVL03	6.3	5.1	7.6	7550	6906	8194	72.0	71.5	72.5	32.3	29.3	35.3	1958	1548	2368
RU1902034	6.3	5.1	7.6	5816	5172	6459	70.7	70.2	71.2	31.0	28.0	34.0	2331	1921	2741
RU2102070	4.7	3.4	5.9	7908	7264	8552	69.3	68.8	69.8	32.3	29.3	35.3	3213	2803	3622
RU2102222	3.7	2.4	4.9	8154	7510	8798	73.3	72.8	73.7	50.8	47.8	53.8	3567	3157	3976
RU2301024	3.3	2.1	4.6	9170	8527	9814	71.5	71.1	72.0	34.8	31.8	37.8	3334	2924	3744
RU2301045	3.7	2.4	4.9	8752	8108	9395	72.3	71.9	72.8	49.8	46.8	52.9	3576	3166	3986
Taurus	5.0	3.8	6.2	8921	8277	9565	71.3	70.9	71.8	37.5	34.5	40.5	2681	2271	3091
XP753	1.7	0.4	2.9	10256	9612	10899	72.6	72.1	73.0	32.5	29.5	35.5	4160	3750	4570

Table 5 – Estimated mean (Mean) and 95% confidence interval range (Lower and Upper) for sheath blight severity (SB; 0-9 scale), grain yield from the first crop (YLD; lb/A), total milling yield (Total; %), and whole grain milling yield (Head; %) in the *Pre-Commercial* study planted on April 19 (*Second Field*). Crowley, LA, 2024.

Disease Units Description Genotype	SB 0-9 Mean	SB 0-9 Lower	SB 0-9 Upper	Yield Lb/A Mean	Yield Lb/A Lower	Yield Lb/A Upper	Total % Mean	Total % Lower	Total % Upper	Head % Mean	Head % Lower	Head % Upper
211L1008	2.3	1.4	3.3	6831	6471	7191	71.1	70	72.2	57.5	53.9	61.1
212M1144	2.0	1.0	3.0	6732	6372	7092	69.3	68.2	70.5	60.1	56.5	63.7
213L1041	3.7	2.7	4.6	6594	6234	6954	70.4	69.2	71.5	50	46.4	53.6
213L1130	3.0	2.0	4.0	6913	6553	7273	70.3	69.2	71.4	53.3	49.7	56.9
213L1140	5.3	4.4	6.3	6643	6283	7003	69.1	67.9	70.2	46.1	42.5	49.7
21AR1217	1.7	0.7	2.6	7149	6788	7509	68.2	67.1	69.3	58.4	54.8	62
23AR2114	5.3	4.4	6.3	5876	5516	6236	68.8	67.7	69.9	42.4	38.8	46
23AR2133	2.3	1.4	3.3	7490	7130	7850	68.7	67.6	69.8	50.6	47	54.2
23AR2134	2.7	1.7	3.6	7989	7628	8349	69.1	67.9	70.2	50.6	47	54.2
23AR2205	5.0	4.0	6.0	6568	6208	6928	68.9	67.8	70.1	61.7	58.1	65.3
23DGL-003PV	4.7	3.7	5.6	6067	5707	6427	70.8	69.7	71.9	54.2	50.6	57.8
23DGL-008PV	5.3	4.4	6.3	5044	4684	5405	71.1	70	72.2	53.7	50.1	57.3
23DGL070	3.3	2.4	4.3	6810	6449	7170	69.7	68.6	70.8	51.9	48.3	55.5
23DGL078	6.0	5.0	7.0	5414	5054	5774	70.4	69.3	71.5	49.3	45.7	52.9
24DGL-4530PV	4.0	3.0	5.0	5708	5348	6069	70.9	69.7	72	53.4	49.8	57
CLL18	2.3	1.4	3.3	7413	7053	7773	68.8	67.7	69.9	49.5	45.9	53.1
DG263L	6.0	5.0	7.0	5586	5226	5946	69.4	68.3	70.6	47.1	43.5	50.7
PVL03	4.3	3.4	5.3	6406	6046	6767	69.4	68.3	70.5	48.6	45	52.2
RU1902034	3.0	2.0	4.0	6841	6480	7201	70.6	69.5	71.8	52.7	49.1	56.3
RU2102070	4.0	3.0	5.0	6215	5854	6575	67.1	65.9	68.2	55.6	52	59.2
RU2102222	2.7	1.7	3.6	7020	6660	7380	71.2	70	72.3	57.2	53.6	60.8
RU2301024	3.0	2.0	4.0	7207	6847	7567	68	66.9	69.1	47.3	43.7	50.9
RU2301045	1.3	0.4	2.3	7509	7149	7870	69.7	68.6	70.8	51.9	48.3	55.5
Taurus	5.3	4.4	6.3	6935	6575	7295	70.1	69	71.2	51.7	48.1	55.3
XP753	0.3	0.0	1.3	9921	9561	10282	71.6	70.4	72.7	51.7	48.1	55.3

Row-plots

For 2024 season row-plots planted on March 13, targeted sheath blight and bacterial panicle blight, and from May 22, targeting rotten neck blast, Cercospora, and smuts. Disease inoculation is 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 6 – Summary of material and methods applied to row-plots

Planting Date:	March 13 (First field) and May 22 (Third field)
Water Management	<i>First Field</i> - Flooded: April 29; Drained: July 19 <i>Third Field</i> - Flooded, June 17 Drained: September 6
Fertilization	Pre-planting - 250 lb/A of 0-24-24; Preflood 300 lb/A 46-0-0 urea (First and third field)
Herbicides	<i>First Field:</i> <ul style="list-style-type: none"> • Command 6 fl oz/A, March 14 • Propanil 4 qt/A, Prowl 1 qt/A, Gambit 2 oz/A, April 16 Propanil 3 qt/A, Permit 1/3 oz/A, Londax 1.5 oz/A, Hook (NIS) 2.5 fl oz/A, April 26 <i>Third Field:</i> <ul style="list-style-type: none"> • Command 6 fl oz/A, May 23 • Propanil 4 qt/A, Gambit 2 oz/A, June 6
Insecticides	Dermacor X-100 seed treatment
Inoculation	<i>First Field:</i> <ul style="list-style-type: none"> • Sheath blight inoculation May 22th; • Bacterial panicle blight inoculation: June 13th, 16th, 20th, and 23rd • <i>Third Field:</i> No artificial inoculation
Ratings	<i>First Field:</i> Sheath blight and bacteria panicle blight: July 26-29 th <i>Third Field:</i> Neck Blast and others – Sep 12 th ; Cercospora: October 6-8 th
Comments	Disease in the third field fails to develop. Results not presented

AYT-Clearfield

Table 7 – Advanced Yield Trials - Clearfield (AYT-CL) row-plot trials for sheath blight (SB) and bacterial panicle blight (BPB), standard error (SE), and lower and upper range of 95% confidence interval (Lower and Upper, respectively), Crowley, LA, 2024. Disease rate on 0 to 9 scale, with 0 representing no disease and 9 maximum disease severity. Other diseases failed to develop on significant levels.

Disease Description	SB Mean	SB SE	SB Lower	SB Upper	BPB Mean	BPB SE	BPB Lower	BPB Upper
Genotype								
19T-029-4	5.7	0.7	4.3	7.1	1.3	0.7	0.0	2.7
19T-030-24	5.0	0.7	3.6	6.4	2.3	0.7	1.0	3.7
19T-033-31	6.3	0.7	4.9	7.7	1.0	0.7	0.0	2.3
19T-033-35	7.0	0.7	5.6	8.4	1.7	0.7	0.3	3.0
19T-033-38	5.7	0.7	4.3	7.1	1.7	0.7	0.3	3.0
19T-033-63	6.0	0.7	4.6	7.4	1.0	0.7	0.0	2.3
19T-179-23	1.0	0.7	-0.4	2.4	3.0	0.7	1.7	4.3
19T-183-CL-1	1.0	0.7	-0.4	2.4	2.0	0.7	0.7	3.3
19T-183-CL-6	3.3	0.7	1.9	4.7	3.0	0.7	1.7	4.3
202L2096	3.7	0.7	2.3	5.1	1.3	0.7	0.0	2.7
202L2141	3.7	0.7	2.3	5.1	1.3	0.7	0.0	2.7
212L2252	5.3	0.7	3.9	6.7	2.0	0.7	0.7	3.3
212M1076	4.0	0.7	2.6	5.4	1.3	0.7	0.0	2.7
212M1144	2.7	0.7	1.3	4.1	1.7	0.7	0.3	3.0
222L1075	6.3	0.7	4.9	7.7	0.7	0.7	0.0	2.0
222L1082	4.3	0.7	2.9	5.7	1.7	0.7	0.3	3.0
222L1147	4.3	0.7	2.9	5.7	1.7	0.7	0.3	3.0
222L1161	2.7	0.7	1.3	4.1	3.3	0.7	2.0	4.7
222M1096	1.7	0.7	0.3	3.1	2.0	0.7	0.7	3.3
CL153	4.0	0.7	2.6	5.4	2.3	0.7	1.0	3.7
CLHA03	4.3	0.7	2.9	5.7	2.3	0.7	1.0	3.7
CLJ01	4.0	0.7	2.6	5.4	1.3	0.7	0.0	2.7
CLL18	2.0	0.7	0.6	3.4	2.3	0.7	1.0	3.7
CLL19	7.3	0.7	5.9	8.7	0.3	0.7	0.0	1.7
CLM04	2.3	0.7	0.9	3.7	1.7	0.7	0.3	3.0
CLM05	4.3	0.7	2.9	5.7	2.3	0.7	1.0	3.7
MP6_397	6.3	0.7	4.9	7.7	2.0	0.7	0.7	3.3
RU1902034	6.7	0.7	5.3	8.1	1.7	0.7	0.3	3.0
RU2102217	6.0	0.7	4.6	7.4	1.3	0.7	0.0	2.7
RU2102222	5.0	0.7	3.6	6.4	1.3	0.7	0.0	2.7

AYT-Provisia

Table 8 – Advanced Yield Trials - Provisia (AYT-PV) row-plot trials for sheath blight (SB) and bacterial panicle blight (BPB), standard error (SE), and lower and upper range of 95% confidence interval (Lower and Upper, respectively), Crowley, LA, 2024. Disease rate on 0 to 9 scale, with 0 representing no disease and 9 maximum disease severity. Other diseases failed to develop on significant levels.

Disease	SB	SB	SB	SB	BPB	BPB	BPB	BPB
Metric	Mean	SE	Lower	Upper	Mean	SE	Lower	Upper
Genotype								
19T-262-128	2.3	0.9	0.6	4.1	1.7	0.7	0.3	3.0
19T-262-244	4.0	0.9	2.3	5.7	2.3	0.7	1.0	3.7
19T-262-62	2.0	0.9	0.3	3.7	3.0	0.7	1.7	4.3
203L1104	3.7	0.9	1.9	5.4	1.3	0.7	0.0	2.7
213L1041	2.0	0.9	0.3	3.7	1.3	0.7	0.0	2.7
213L1130	3.7	0.9	1.9	5.4	1.3	0.7	0.0	2.7
213L1140	2.3	0.9	0.6	4.1	2.3	0.7	1.0	3.7
223L1027	3.3	0.9	1.6	5.1	4.0	0.7	2.7	5.3
223L1037	1.0	0.9	0.0	2.7	1.3	0.7	0.0	2.7
223L1065	2.0	0.9	0.3	3.7	3.7	0.7	2.3	5.0
223L1139	1.7	0.9	0.0	3.4	3.0	0.7	1.7	4.3
223L1213	0.7	0.9	0.0	2.4	3.0	0.7	1.7	4.3
223L1216	1.3	0.9	0.0	3.1	2.3	0.7	1.0	3.7
223L1236	2.7	0.9	0.9	4.4	2.0	0.7	0.7	3.3
23AR2133	2.3	0.9	0.6	4.1	2.3	0.7	1.0	3.7
23AR2134	1.7	0.9	0.0	3.4	1.7	0.7	0.3	3.0
23AR2205	0.3	0.9	0.0	2.1	3.0	0.7	1.7	4.3
23DGL-002PV-10	0.7	0.9	0.0	2.4	2.0	0.7	0.7	3.3
23DGL-007PV-2	2.3	0.9	0.6	4.1	2.0	0.7	0.7	3.3
23DGL-015PV-3	3.0	0.9	1.3	4.7	1.3	0.7	0.0	2.7
23DGL-017PV-1	1.3	0.9	0.0	3.1	3.0	0.7	1.7	4.3
23DGL-024PV-3	1.7	0.9	0.0	3.4	1.3	0.7	0.0	2.7
PVL03	3.0	0.9	1.3	4.7	1.0	0.7	0.0	2.3
PVL04	1.3	0.9	0.0	3.1	2.7	0.7	1.3	4.0
RU2102186	2.3	0.9	0.6	4.1	2.3	0.7	1.0	3.7

RYT-Conventional

Table 9 – Regional Yield Trials - Conventional (RYT-CN) row-plot trials for sheath blight (SB) and bacterial panicle blight (BPB), standard error (SE), and lower and upper range of 95% confidence interval (LOWER and UPPER, respectively), Crowley, LA, 2024. Disease rate on 0 to 9 scale, with 0 representing no disease and 9 maximum disease severity. Other diseases failed to develop on significant levels.

Disease Metric Genotype	SB Mean	SB SE	SB Lower	SB Upper	BPB Mean	BPB SE	BPB Lower	BPB Upper
19T-176-CONV-2	2.3	2.2	0.0	6.7	4.8	1.6	1.6	7.9
211L1008	4.5	2.2	0.0	9.0	2.5	1.6	0.0	5.7
231L1018	0.0	2.2	0.0	4.5	3.8	1.6	0.6	6.9
231L1027	7.3	2.2	2.8	9.0	0.5	1.6	0.0	3.7
231L1029	4.5	2.2	0.0	9.0	1.0	1.6	0.0	4.2
231L1039	0.0	2.2	0.0	4.5	2.8	1.6	0.0	5.9
231L1049	8.0	2.2	3.5	9.0	6.5	1.6	3.3	9.0
231L1055	9.0	3.1	3.1	9.0	3.5	1.6	0.3	6.7
231L1061	1.3	2.2	0.0	5.7	0.0	1.6	0.0	3.2
231L1082	8.0	2.2	3.5	9.0	0.5	1.6	0.0	3.7
231L1084	7.5	2.2	3.0	9.0	0.0	1.6	0.0	3.2
231L1085	4.3	2.2	0.0	8.7	1.0	1.6	0.0	4.2
231L1086	8.0	2.2	3.5	9.0	3.5	1.6	0.3	6.7
231L1093	9.0	2.2	4.5	9.0	0.8	1.6	0.0	3.9
231L1094	8.0	2.2	3.5	9.0	1.3	1.6	0.0	4.4
231L1100	3.8	2.2	0.0	8.2	0.5	1.6	0.0	3.7
231L1103	4.5	2.2	0.0	9.0	0.0	1.6	0.0	3.2
231L1107	7.8	2.2	3.3	9.0	1.0	1.6	0.0	4.2
231L1115	6.5	2.2	2.0	9.0	1.0	1.6	0.0	4.2
231L1121	4.5	2.2	0.0	9.0	0.5	1.6	0.0	3.7
231L1146	7.3	2.2	2.8	9.0	0.0	1.6	0.0	3.2
231L1191	8.3	2.2	3.8	9.0	0.5	1.6	0.0	3.7
231L1196	6.0	2.2	1.5	9.0	0.0	1.6	0.0	3.2
231L1207	5.1	3.1	0.0	9.0	1.0	1.6	0.0	4.2
231L1208	7.5	2.2	3.0	9.0	2.8	1.6	0.0	5.9
231L1209	2.5	2.2	0.0	7.0	3.3	1.6	0.1	6.4
231L1228	8.0	2.2	3.5	9.0	1.3	1.6	0.0	4.4
231L1241	7.0	2.2	2.5	9.0	0.0	1.6	0.0	3.2
231L1243	9.0	2.2	4.5	9.0	0.0	1.6	0.0	3.2
231L1253	6.3	2.2	1.8	9.0	1.5	1.6	0.0	4.7
231L1256	6.0	2.2	1.5	9.0	4.3	1.6	1.1	7.4
231L1261	2.8	2.2	0.0	7.2	0.0	1.6	0.0	3.2
231L2064	0.0	2.2	0.0	4.5	1.5	1.6	0.0	4.7
231M1053	7.3	2.2	2.8	9.0	1.0	1.6	0.0	4.2
231M1054	6.8	2.2	2.3	9.0	5.3	1.6	2.1	8.4
231M1056	0.0	2.2	0.0	4.5	2.8	1.6	0.0	5.9
231M1058	0.0	2.2	0.0	4.5	1.8	1.6	0.0	4.9

Table 9. Continued

Disease Metric Genotype	SB Mean	SB SE	SB Lower	SB Upper	BPB Mean	BPB SE	BPB Lower	BPB Upper
231M1075	0.0	2.2	0.0	4.5	7.0	1.6	3.8	9.0
231M1076	7.8	2.2	3.3	9.0	1.3	1.6	0.0	4.4
231M1102	4.5	2.2	0.0	9.0	1.8	1.6	0.0	4.9
231M1103	2.3	2.2	0.0	6.7	1.8	1.6	0.0	4.9
231M1107	2.3	2.2	0.0	6.7	1.5	1.6	0.0	4.7
231M1108	1.5	2.2	0.0	6.0	2.0	1.6	0.0	5.2
AddiJo	6.8	2.2	2.3	9.0	2.0	1.6	0.0	5.2
Avant	4.5	2.2	0.0	9.0	0.0	1.6	0.0	3.2
Cheniere	8.5	2.2	4.0	9.0	0.0	1.6	0.0	3.2
Della2	8.0	2.2	3.5	9.0	0.5	1.6	0.0	3.7
DG263L	7.8	2.2	3.3	9.0	0.0	1.6	0.0	3.2
Jupiter	2.5	2.2	0.0	7.0	5.5	1.6	2.3	8.7
MP8 104	7.8	2.2	3.3	9.0	7.8	1.6	4.6	9.0
RU2102070	7.3	2.2	2.8	9.0	5.8	1.6	2.6	8.9
Taurus	0.0	2.2	0.0	4.5	2.5	1.6	0.0	5.7

RYT-Clearfield

Table 10 – Regional Yield Trials - Clearfield (RYT-CL) row-plot trials for sheath blight (SB) and bacterial panicle blight (BPB), standard error (SE), and lower and upper range of 95% confidence interval (Lower and Upper, respectively), Crowley, LA, 2024. Disease rate on 0 to 9 scale, with 0 representing no disease and 9 maximum disease severity. Other diseases failed to develop on significant levels.

Disease Metric Genotype	SB Mean	SB SE	SB Lower	SB Upper	BPB Mean	BPB SE	BPB Lower	BPB Upper
19T-176-CL-64	3.5	2.2	0.0	7.8	2.5	1.2	0.0	5.0
19T-176-CONV-10	3.5	2.2	0.0	7.8	3.5	1.2	1.0	6.0
222A2014	7.3	2.2	2.9	9.0	1.8	1.2	0.0	4.2
231L2007	8.0	2.2	3.7	9.0	2.0	1.2	0.0	4.5
231L2145	4.0	2.2	0.0	8.3	1.5	1.2	0.0	4.0
232L1032	9.0	2.2	4.7	9.0	0.5	1.2	0.0	3.0
232L1034	7.8	2.2	3.4	9.0	0.0	1.2	0.0	2.5
232L1040	3.8	2.2	0.0	8.1	1.0	1.2	0.0	3.5
232L1043	9.0	2.2	4.7	9.0	0.0	1.2	0.0	2.5
232L1044	9.0	2.2	4.7	9.0	4.0	1.2	1.5	6.5
232L1071	9.0	2.2	4.7	9.0	1.0	1.2	0.0	3.5
232L1074	7.3	2.2	2.9	9.0	0.0	1.2	0.0	2.5
232L1075	3.8	2.2	0.0	8.1	0.0	1.2	0.0	2.5
232L1101	9.0	2.2	4.7	9.0	1.0	1.2	0.0	3.5
232L1111	9.0	2.2	4.7	9.0	0.0	1.2	0.0	2.5
232L1112	8.3	2.2	3.9	9.0	0.0	1.2	0.0	2.5
232L1131	9.0	2.2	4.7	9.0	0.0	1.2	0.0	2.5
232L1135	9.0	2.2	4.7	9.0	1.0	1.2	0.0	3.5
232L1170	7.5	2.2	3.2	9.0	0.0	1.2	0.0	2.5
232L1171	3.8	2.2	0.0	8.1	0.0	1.2	0.0	2.5
232L1187	7.5	2.2	3.2	9.0	4.3	1.2	1.8	6.7
232L1194	9.0	2.2	4.7	9.0	0.0	1.2	0.0	2.5
232L1210	9.0	2.2	4.7	9.0	0.5	1.2	0.0	3.0
232L1211	8.5	2.2	4.2	9.0	2.0	1.2	0.0	4.5
232L1213	8.5	2.2	4.2	9.0	1.0	1.2	0.0	3.5
232L1215	8.5	2.2	4.2	9.0	0.0	1.2	0.0	2.5
232L1217	9.0	2.2	4.7	9.0	0.5	1.2	0.0	3.0
232L1225	9.0	2.2	4.7	9.0	0.5	1.2	0.0	3.0
232L1226	8.0	2.2	3.7	9.0	2.3	1.2	0.0	4.7
232L1227	8.8	2.2	4.4	9.0	0.0	1.2	0.0	2.5
232L1233	9.0	2.2	4.7	9.0	0.0	1.2	0.0	2.5
232L1235	4.5	2.2	0.2	8.8	0.0	1.2	0.0	2.5
232L1240	7.8	2.2	3.4	9.0	0.0	1.2	0.0	2.5
232L1242	4.5	2.2	0.2	8.8	0.0	1.2	0.0	2.5
232L1245	3.5	2.2	0.0	7.8	1.0	1.2	0.0	3.5
232L1251	9.0	2.2	4.7	9.0	0.0	1.2	0.0	2.5
232L1263	9.0	2.2	4.7	9.0	2.0	1.2	0.0	4.5
232L1268	5.8	2.2	1.4	9.0	0.0	1.2	0.0	2.5
232L1278	9.0	2.2	4.7	9.0	3.5	1.2	1.0	6.0
232L1279	5.5	2.2	1.2	9.0	1.0	1.2	0.0	3.5
232L1295	8.8	2.2	4.4	9.0	0.0	1.2	0.0	2.5
232M1044	4.5	2.2	0.2	8.8	0.0	1.2	0.0	2.5

Table 10. Continued

Disease Metric Genotype	SB Mean	SB SE	SB Lower	SB Upper	BPB Mean	BPB SE	BPB Lower	BPB Upper
232M1046	6.0	2.2	1.7	9.0	2.3	1.2	0.0	4.7
232M1047	8.3	2.2	3.9	9.0	0.0	1.2	0.0	2.5
232M1051	6.8	2.2	2.4	9.0	4.3	1.2	1.8	6.7
232M1063	2.0	2.2	0.0	6.3	4.5	1.2	2.0	7.0
232M1064	5.0	2.2	0.7	9.0	0.0	1.2	0.0	2.5
232M1070	5.0	2.2	0.7	9.0	0.0	1.2	0.0	2.5
232M1097	4.0	2.2	0.0	8.3	0.8	1.2	0.0	3.2
232M1114	0.0	2.2	0.0	4.3	6.3	1.2	3.8	8.7
CL153	5.8	2.2	1.4	9.0	2.3	1.2	0.0	4.7
CLJ01	9.0	2.2	4.7	9.0	3.8	1.2	1.3	6.2
CLL18	9.0	2.2	4.7	9.0	0.0	1.2	0.0	2.5
CLL19	9.0	2.2	4.7	9.0	0.0	1.2	0.0	2.5
CLM04	4.5	2.2	0.2	8.8	2.0	1.2	0.0	4.5
CLM05	9.0	2.2	4.7	9.0	1.8	1.2	0.0	4.2
MP6_220	3.8	2.2	0.0	8.1	1.5	1.2	0.0	4.0
MP6_313	8.3	2.2	3.9	9.0	0.0	1.2	0.0	2.5
MP8_187	8.5	2.2	4.2	9.0	0.0	1.2	0.0	2.5
MP8_379	4.5	2.2	0.2	8.8	1.0	1.2	0.0	3.5

RYT-Provisia

Table 11 – Regional Yield Trials - Provisia (RYT-PV) row-plot trials for sheath blight (SB) and bacterial panicle blight (BPB), standard error (SE), and lower and upper range of 95% confidence interval (Lower and Upper, respectively), Crowley, LA, 2024. Disease rate on 0 to 9 scale, with 0 representing no disease and 9 maximum disease severity. Other diseases failed to develop on significant levels.

Disease Metric Genotype	SB Mean	SB SE	SB Lower	SB Upper	BPB Mean	BPB SE	BPB Lower	BPB Upper
19T-262-167	6.0	2.4	1.2	9.0	3.3	1.6	0.0	6.5
19T-262-206	7.8	2.4	2.9	9.0	3.3	1.6	0.0	6.5
19T-262-227	5.8	2.4	0.9	9.0	2.0	1.6	0.0	5.2
19T-262-255	9.0	2.4	4.2	9.0	0.0	1.6	0.0	3.2
19T-262-55	6.0	2.4	1.2	9.0	2.0	1.6	0.0	5.2
19T-262-73	1.0	2.4	0.0	5.9	2.0	1.6	0.0	5.2
213L1041	0.0	2.4	0.0	4.9	3.3	1.6	0.0	6.5
213L1130	2.5	2.4	0.0	7.4	1.5	1.6	0.0	4.7
213L1140	2.8	2.4	0.0	7.6	3.5	1.6	0.3	6.7
233L1018	7.5	2.4	2.7	9.0	0.0	1.6	0.0	3.2
233L1020	3.8	2.4	0.0	8.6	1.0	1.6	0.0	4.2
233L1061	6.5	2.4	1.7	9.0	5.0	1.6	1.8	8.2
233L1062	0.0	2.4	0.0	4.9	6.8	1.6	3.5	9.0
233L1063	2.8	2.4	0.0	7.6	1.0	1.6	0.0	4.2
233L1068	4.5	2.4	0.0	9.0	4.3	1.6	1.0	7.5
233L1074	4.3	2.4	0.0	9.0	1.3	1.6	0.0	4.5
233L1075	8.0	2.4	3.2	9.0	0.8	1.6	0.0	4.0
233L1079	6.5	2.4	1.7	9.0	0.0	1.6	0.0	3.2
233L1081	2.8	2.4	0.0	7.6	0.0	1.6	0.0	3.2
233L1085	8.0	2.4	3.2	9.0	1.0	1.6	0.0	4.2
233L1086	4.5	2.4	0.0	9.0	0.0	1.6	0.0	3.2
233L1088	5.8	2.4	0.9	9.0	1.3	1.6	0.0	4.5
233L1089	5.3	2.4	0.4	9.0	4.8	1.6	1.5	8.0
233L1091	4.5	2.4	0.0	9.0	2.5	1.6	0.0	5.7
233L1093	3.8	2.4	0.0	8.6	1.8	1.6	0.0	5.0
233L1095	8.0	2.4	3.2	9.0	4.5	1.6	1.3	7.7
233L1108	6.8	2.4	1.9	9.0	3.5	1.6	0.3	6.7
233L1121	9.0	2.4	4.2	9.0	2.0	1.6	0.0	5.2
233L1123	8.3	2.4	3.4	9.0	0.5	1.6	0.0	3.7
233L1124	7.8	2.4	2.9	9.0	1.8	1.6	0.0	5.0
233L1125	8.3	2.4	3.4	9.0	3.5	1.6	0.3	6.7
233L1168	7.3	2.4	2.4	9.0	2.0	1.6	0.0	5.2
233L1197	6.5	2.4	1.7	9.0	3.3	1.6	0.0	6.5
233L1203	9.0	2.4	4.2	9.0	0.8	1.6	0.0	4.0
233L1206	9.0	2.4	4.2	9.0	4.0	1.6	0.8	7.2
233L1218	5.8	2.4	0.9	9.0	0.5	1.6	0.0	3.7
233L1225	8.5	2.4	3.7	9.0	3.8	1.6	0.5	7.0
233L1227	4.8	2.4	0.0	9.0	1.5	1.6	0.0	4.7

Table 11. Continued

Disease Metric Genotype	SB Mean	SB SE	SB Lower	SB Upper	BPB Mean	BPB SE	BPB Lower	BPB Upper
233L1228	8.3	2.4	3.4	9.0	1.0	1.6	0.0	4.2
233L1232	4.0	2.4	0.0	8.9	5.5	1.6	2.3	8.7
233L1237	4.5	2.4	0.0	9.0	0.0	1.6	0.0	3.2
233L1262	5.3	2.4	0.4	9.0	2.5	1.6	0.0	5.7
233L1264	8.3	2.4	3.4	9.0	0.0	1.6	0.0	3.2
233L1268	4.5	2.4	0.0	9.0	0.0	1.6	0.0	3.2
233L1269	6.3	2.4	1.4	9.0	0.0	1.6	0.0	3.2
233L1271	6.0	2.4	1.2	9.0	0.0	1.6	0.0	3.2
233L1283	4.5	2.4	0.0	9.0	0.5	1.6	0.0	3.7
233L1284	4.0	3.5	0.0	9.0	0.0	1.6	0.0	3.2
233L1286	6.5	2.4	1.7	9.0	0.5	1.6	0.0	3.7
233L1294	4.5	2.4	0.0	9.0	7.5	1.6	4.3	9.0
PVL03	7.5	2.4	2.7	9.0	5.3	1.6	2.0	8.5
PVL04	6.5	2.4	1.7	9.0	0.5	1.6	0.0	3.7

Upland Nursery

Disease did not develop to a significant level in the upland nursery due to environmental conditions.

DISEASE MANAGEMENT

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. Refer to the tables below 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).

Table 12 – Summary of material and methods applied to yield-plots

Planting Date:	March 13 (First field) and April 23 (Second field)
Water Management	<i>First Field</i> - Flooded: April 29; Drained: July 21 <i>Second Field</i> - Flooded, May 23; Drained: Aug 19
Fertilization	Pre-planting - 250 lb/A of 0-24-24; Preflood 300 lb/A 46-0-0 urea (Both fields)
Herbicides	<i>First Field:</i> <ul style="list-style-type: none"> • Command 6 fl oz/A, March 14 • Propanil 4 qt/A, Prowl 1 qt/A, Gambit 2 oz/A, April 16 • Propanil 3 qt/A, Permit 1/3 oz/A, Londax 1.5 oz/A, Hook (NIS) 2.5 fl oz/A, May 1 <i>Second Field:</i> <ul style="list-style-type: none"> • Command 6 fl oz/A, April 25 • Propanil 3 qt/A and Prowl 1 pt/A, Permit ½ oz/A, May 9 • Propanil 4 qt/A, Gambit 2 oz/A, Facet ½ lb/A, Command 4 fl oz/A, May 24
Insecticides	Dermacor X-100 seed treatment
Inoculation	<i>First Field:</i> <ul style="list-style-type: none"> • <i>Rhizoctonia solani</i> culture grown on rice grain/hull mixture, May 22 <i>Second Field:</i> <ul style="list-style-type: none"> • <i>Rhizoctonia solani</i> culture grown on rice grain/hull mixture, June 12
Ratings	<i>First Field:</i> Sheath: July 21 <i>Second Field:</i> Sheath blight: August 6
Harvest	<i>First Field:</i> August 3 <i>Second Field:</i> August 27

Table 13 – Weather conditions at treatments application timing

	Stage	Date	Time	Temp	Wind	RH	Clouds
<i>First Field</i>	PD	June 3	2:00 PM	96 F	8-10 mph	50%	Partly Cloudy
	Boot	June 12	8:45 AM	84 F	5-7 mph	62%	Cloudy
<i>Second Field</i>	PD7	July 1	9:00 AM	92 F	5-7 mph	70%	Cloudy
	Boot	July 5	9:00 AM	90 F	2-3 mph	74%	Partly

Table 14 – Active ingredient, commercial name, application timing, rate for treatments applied on the Sheath Blight Fungicide Panel study, Crowley, LA, 2024

TRT	Active Ingredient	Commercial name	Application	Growth Stage	Rate (FL oz/A)
1	Untreated	UTC	--	--	--
2	Quadris	Azoxystrobin	B		12.5
3	FlintExt	Trifloxystrobin	B		4.7
4	Evito	Fluoxastrobin	B		4
5	Elegia	Flutolanil	B		32
6	Tilt	Propiconazole	B		10
7	REVEG	Difenoconazole + Tea Tree Oil	B		8.5
8	QuiltXcel	Azoxystrobin + Propiconazole	B		27
9	AmistarTop	Azoxystrobin + Difenoconazole	B		15
10	Phobos	Prothioconazole	B		6
11	Azterknot	Azoxystrobin +REY	B		22.1
12	FlintExt	Trifloxystrobin	B		4.7
	Tilt	Propiconazole	B		10
13	Quadris	Azoxystrobin	B		12.5
	Phobos	Prothioconazole	B		6
14	Elegia	Flutolanil	B		32
	Phobos	Prothioconazole	B		6
15	FlintExt	Trifloxystrobin	B		4.7
	Phobos	Prothioconazole	B		6
16	Quadris	Azoxystrobin	PD7+B		12.5

Table 15 – Estimated mean (Est) and 95% confidence interval range (Lower and Upper) for sheath blight severity (SB; 0-9), grain yield (Lb/A), total grain milling yield (Total; %), whole grain milling yield (Head; %), and second crop grain yield (Ratoon; Lb/A) from the *First field* (March planting) of Sheath Blight Fungicide Panel Study, Crowley, LA, 2024

Disease	SB	SB	SB	Yield	Yield	Yield	Total	Total	Total	Head	Head	Head	Ratoon	Ratoon	Ratoon
Units	0-9	0-9	0-9	Lb/A	Lb/A	Lb/A	%	%	%	%	%	%	Lb/A	Lb/A	Lb/A
Description	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper
Treatment															
1 ^a	9.0	7.3	9.0	8313	7683	8943	72.2	71.7	72.7	36.8	32.9	40.6	2548	2119	2977
2	7.2	5.5	8.9	9398	8769	10028	72.6	72.1	73.1	40.1	36.3	44.0	2448	2019	2877
3	7.8	6.1	9.0	9204	8574	9833	72.7	72.2	73.2	42.6	38.8	46.5	2795	2366	3224
4	7.2	5.5	8.9	9522	8892	10152	72.9	72.4	73.4	42.6	38.7	46.4	2615	2186	3044
5	8.2	6.5	9.0	9375	8745	10005	73.1	72.6	73.6	43.7	39.8	47.6	2839	2410	3268
6	8.8	7.1	9.0	8988	8358	9617	72.4	71.9	72.9	40.3	36.4	44.1	2405	1976	2834
7	6.5	4.8	8.2	8413	7783	9042	72.5	72.0	73.0	42.8	38.9	46.7	2317	1888	2746
8	7.3	5.6	9.0	10160	9530	10790	72.9	72.4	73.4	44.3	40.4	48.2	2784	2355	3213
9	6.8	5.1	8.5	9488	8858	10117	72.9	72.4	73.4	44.9	41.1	48.8	2488	2059	2917
10	8.7	7.0	9.0	9017	8388	9647	72.4	71.9	72.9	37.3	33.5	41.2	2326	1897	2755
11	7.3	5.6	9.0	9535	8906	10165	73.3	72.8	73.8	45.4	41.5	49.2	2619	2190	3048
12	5.3	3.6	7.0	9571	8941	10200	72.8	72.3	73.3	43.1	39.3	47.0	2643	2214	3072
13	5.0	3.3	6.7	9423	8794	10053	73.0	72.5	73.5	44.4	40.6	48.3	2605	2176	3034
14	6.3	4.6	8.0	9141	8511	9770	72.4	71.9	72.9	40.0	36.1	43.9	2431	2002	2860
15	7.7	6.0	9.0	9176	8547	9806	72.7	72.2	73.2	41.3	37.5	45.2	2665	2236	3094
16	4.5	2.8	6.2	8900	8270	9529	72.2	71.7	72.7	40.3	36.5	44.2	2248	1819	2677

^aSee Table 14 for treatment information

Table 16 – Estimated mean (Est) and 95% confidence interval range (Lower and Upper) for sheath blight severity (SB; 0-9), grain yield (Lb/A), total grain milling yield (Total; %) and whole grain milling yield (Head; %), from the *Second field* (April planting) of Sheath Blight Fungicide Panel Study, Crowley, LA, 2024

Disease	SB	SB	SB	Yield	Yield	Yield	Total	Total	Total	Head	Head	Head
Units	0-9	0-9	0-9	Lb/A	Lb/A	Lb/A	%	%	%	%	%	%
Description	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper
Treatment												
1 ^a	6.8	5.2	8.3	5860	5491	6229	66.0	65.0	67.0	43.2	40.7	45.8
2	5.3	3.8	6.8	6035	5665	6404	66.5	65.5	67.5	44.6	42.1	47.1
3	5.8	4.2	7.3	5860	5491	6230	66.2	65.2	67.2	43.3	40.7	45.8
4	8.6	7.1	9.0	5919	5550	6288	67.0	66.0	68.0	45.2	42.7	47.7
5	6.5	5.0	8.0	5817	5448	6186	67.1	66.0	68.1	44.4	41.9	46.9
6	8.8	7.2	9.0	5829	5460	6199	67.0	66.0	68.0	45.1	42.6	47.7
7	8.5	7.0	9.0	5899	5530	6268	67.3	66.2	68.3	45.5	43.0	48.0
8	3.1	1.6	4.6	6106	5737	6475	66.5	65.5	67.5	45.0	42.4	47.5
9	4.0	2.5	5.5	6313	5944	6683	66.6	65.6	67.7	45.5	43.0	48.0
10	9.0	7.5	9.0	5845	5476	6215	66.8	65.8	67.8	44.3	41.7	46.8
11	4.3	2.8	5.8	5934	5565	6303	66.5	65.5	67.5	45.1	42.6	47.7
12	4.1	2.6	5.6	6134	5765	6503	66.9	65.8	68.1	45.6	42.9	48.3
13	2.8	1.2	4.3	5871	5501	6240	66.3	65.1	67.4	43.4	40.7	46.1
14	4.2	2.7	5.7	5989	5620	6358	66.3	65.3	67.3	44.0	41.4	46.5
15	6.7	5.2	8.2	5387	5017	5756	64.8	63.8	65.8	41.5	39.0	44.0
16	2.3	0.7	3.8	6091	5722	6460	66.1	65.1	67.2	45.0	42.4	47.5

^aSee Table 14 for treatment information

Sheath Blight – Integrate 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. The treatment description is presented in the result table.

Table 17 – Summary of material and methods applied to Sheath Blight – Integrate Pest Management studies

Planting Date:	March 13 (First field) and April 23 (Second field)
Water Management	<i>First Field</i> - Flooded: April 29; Drained: July 21 <i>Second Field</i> - Flooded, May 23; Drained: Aug 19
Fertilization	Pre-planting - 250 lb/A of 0-24-24; Preflood 300 lb/A 46-0-0 urea (Both fields)
Herbicides	<i>First Field:</i> <ul style="list-style-type: none"> • Command 6 fl oz/A, March 14 • Propanil 4 qt/A, Prowl 1 qt/A, Gambit 2 oz/A, April 16 • Propanil 3 qt/A, Permit 1/3 oz/A, Londax 1.5 oz/A, Hook (NIS) 2.5 fl oz/A, May 1 <i>Second Field:</i> <ul style="list-style-type: none"> • Command 6 fl oz/A, April 25 • Propanil 3 qt/A and Prowl 1 pt/A, Permit ½ oz/A, May 9 • Propanil 4 qt/A, Gambit 2 oz/A, Facet ½ lb/A, Command 4 fl oz/A, May 24
Insecticides	Dermacor X-100 seed treatment
Inoculation	<i>First Field:</i> <ul style="list-style-type: none"> • <i>Rhizoctonia solani</i> culture grown on rice grain/hull mixture, May 22 <i>Second Field:</i> <ul style="list-style-type: none"> • <i>Rhizoctonia solani</i> culture grown on rice grain/hull mixture, June 12
Ratings	<i>First Field:</i> Sheath: July 21 <i>Second Field:</i> Sheath blight: August 6
Harvest	<i>First Field:</i> August 3 <i>Second Field:</i> August 27

Table 18 – Weather conditions at treatments application timing

	Stage	Date	Time	Temp	Wind	RH	Clouds
<i>First Field</i>	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
<i>Second Field</i>	PD	June 30	8:25 AM	89 F	3-4 mph	76%	Partly
	Boot	July 7	8:45 AM	82 F	None	80%	Cloudy

Table 19 – Variety, active ingredient, commercial name, application timing, rate for treatments applied on the Sheath Blight -Integrate Pest Management study, Crowley, LA, 2024

TRT	Variety	Treatment	Product	Rate (FL oz/A)
1	CL111	UTC	--	--
2	CL111	PD+7	Quilt Xcel	21
3	CL111	Boot	Quilt Xcel	21
4	CL111	Head	Quilt Xcel	21
5	CL111	PD7 + Boot	Quilt Xcel	21
6	CL111	PD7 + Head	Quilt Xcel	21
7	CL111	Boot + Head	Quilt Xcel	21
8	CL111	PD7 + B + H	Quilt Xcel	21
9	CLJ01	UTC	--	--
10	CLJ01	PD+7	Quilt Xcel	21
11	CLJ01	Boot	Quilt Xcel	21
12	CLJ01	Head	Quilt Xcel	21
13	CLJ01	PD7 + Boot	Quilt Xcel	21
14	CLJ01	PD7 + Head	Quilt Xcel	21
15	CLJ01	Boot + Head	Quilt Xcel	21
16	CLJ01	PD7 + B + H	Quilt Xcel	21
17	RT7321FP	UTC	--	--
18	RT7321FP	PD+7	Quilt Xcel	21
19	RT7321FP	Boot	Quilt Xcel	21
20	RT7321FP	Head	Quilt Xcel	21
21	RT7321FP	PD7 + Boot	Quilt Xcel	21
22	RT7321FP	PD7 + Head	Quilt Xcel	21
23	RT7321FP	Boot + Head	Quilt Xcel	21
24	RT7321FP	PD7 + B + H	Quilt Xcel	21
25	CL111	UTC	--	--

Table 20– Estimated mean (Est) and 95% confidence interval range (Lower and Upper) for sheath blight severity (SB; 0-9), grain yield (Lb/A), total grain milling yield (Total; %), whole grain milling yield (Head; %), and second crop grain yield (Ratoon; Lb/A) from the *Second field* (April planting) of Sheath Blight -Integrate Pest Management, Crowley, LA, 2024

Disease Units	SB 0-9	SB 0-9	SB 0-9	Yield Lb/A	Yield Lb/A	Yield Lb/A	Total %	Total %	Total %	Head %	Head %	Head %	Ratoon Lb/A	Ratoon Lb/A	Ratoon Lb/A
Description Treatment	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper
1 ^a	8.0	7.2	8.9	7776	7072	8481	73.9	73.4	74.4	43.6	41.1	46.2	3458	2931	3985
2	5.6	4.8	6.4	8771	8067	9476	73.9	73.4	74.4	48.7	46.2	51.3	3860	3333	4388
3	6.2	5.4	7.1	8469	7764	9174	74.2	73.7	74.7	48.9	46.3	51.4	3688	3160	4215
4	6.8	6.0	7.6	8482	7777	9187	74.3	73.7	74.8	50.2	47.7	52.8	3311	2784	3838
5	6.0	5.2	6.8	9127	8422	9831	74.0	73.5	74.5	48.9	46.4	51.5	3804	3276	4331
6	5.4	4.6	6.2	8951	8246	9656	74.1	73.5	74.6	48.5	46.0	51.1	3657	3130	4184
7	6.1	5.3	6.9	8957	8253	9662	73.8	73.2	74.3	50.1	47.5	52.6	3836	3309	4363
8	4.3	3.5	5.2	8781	8076	9486	74.3	73.8	74.8	52.0	49.5	54.6	3812	3285	4340
9	6.8	6.0	7.6	7127	6423	7832	73.7	73.2	74.3	58.8	56.3	61.4	3921	3393	4448
10	2.7	1.9	3.5	7279	6574	7983	74.0	73.5	74.6	62.3	59.8	64.9	3667	3139	4194
11	3.7	2.9	4.5	7784	7080	8489	73.9	73.3	74.4	60.2	57.6	62.7	3922	3395	4449
12	5.0	4.2	5.8	6858	6154	7563	73.6	73.1	74.2	61.6	59.0	64.1	3915	3388	4442
13	2.9	2.1	3.7	7717	7012	8422	74.1	73.6	74.7	61.5	59.0	64.1	3905	3377	4432
14	2.6	1.8	3.4	7688	6984	8393	73.8	73.3	74.3	59.3	56.8	61.9	3949	3422	4477
15	3.9	3.1	4.7	7385	6680	8089	74.2	73.7	74.7	64.5	61.9	67.0	3988	3461	4515
16	2.2	1.4	3.0	7507	6803	8212	74.0	73.5	74.5	64.1	61.5	66.6	3842	3314	4369
17	3.9	3.1	4.7	11648	10943	12353	74.0	73.4	74.5	39.4	36.9	42.0	4155	3628	4683
18	2.8	2.0	3.6	11850	11145	12555	73.7	73.2	74.2	42.2	39.6	44.7	4903	4376	5430
19	2.1	1.3	3.0	11832	11127	12536	74.0	73.4	74.5	42.4	39.9	45.0	4528	4000	5055
20	2.9	2.1	3.8	11827	11123	12532	74.3	73.8	74.8	44.0	41.5	46.6	4519	3991	5046
21	2.1	1.3	3.0	12158	11454	12863	74.4	73.9	75.0	43.1	40.5	45.6	4717	4190	5244
22	1.7	0.9	2.5	11843	11138	12548	74.0	73.5	74.6	44.3	41.7	46.8	4915	4387	5442
23	1.9	1.1	2.8	12332	11627	13037	74.0	73.5	74.5	42.1	39.5	44.6	5390	4863	5917
24	0.9	0.1	1.7	12098	11394	12803	74.4	73.9	75.0	44.6	42.1	47.2	4892	4365	5419
25	8.3	7.5	9.0	6956	6251	7660	73.4	72.9	74.0	43.4	40.9	46.0	3684	3156	4211

^aSee Table 19 for treatment information

Table 21 – Estimated mean (Est) and 95% confidence interval range (Lower and Upper) for sheath blight severity (SB; 0-9), grain yield (Lb/A), total grain milling yield (Total; %) and whole grain milling yield (Head; %), from the *Second field* (April planting) of Sheath Blight -Integrate Pest Management, Crowley, LA, 2024

Disease Units Description Treatment	SB 0-9 Mean	SB 0-9 Lower	SB 0-9 Upper	Yield Lb/A Mean	Yield Lb/A Lower	Yield Lb/A Upper	Total % Mean	Total % Lower	Total % Upper	Head % Mean	Head % Lower	Head % Upper
1 ^a	8.0	7.2	8.9	7776	7072	8481	73.9	73.4	74.4	43.6	41.1	46.2
2	5.6	4.8	6.4	8771	8067	9476	73.9	73.4	74.4	48.7	46.2	51.3
3	6.2	5.4	7.1	8469	7764	9174	74.2	73.7	74.7	48.9	46.3	51.4
4	6.8	6.0	7.6	8482	7777	9187	74.3	73.7	74.8	50.2	47.7	52.8
5	6.0	5.2	6.8	9127	8422	9831	74.0	73.5	74.5	48.9	46.4	51.5
6	5.4	4.6	6.2	8951	8246	9656	74.1	73.5	74.6	48.5	46.0	51.1
7	6.1	5.3	6.9	8957	8253	9662	73.8	73.2	74.3	50.1	47.5	52.6
8	4.3	3.5	5.2	8781	8076	9486	74.3	73.8	74.8	52.0	49.5	54.6
9	6.8	6.0	7.6	7127	6423	7832	73.7	73.2	74.3	58.8	56.3	61.4
10	2.7	1.9	3.5	7279	6574	7983	74.0	73.5	74.6	62.3	59.8	64.9
11	3.7	2.9	4.5	7784	7080	8489	73.9	73.3	74.4	60.2	57.6	62.7
12	5.0	4.2	5.8	6858	6154	7563	73.6	73.1	74.2	61.6	59.0	64.1
13	2.9	2.1	3.7	7717	7012	8422	74.1	73.6	74.7	61.5	59.0	64.1
14	2.6	1.8	3.4	7688	6984	8393	73.8	73.3	74.3	59.3	56.8	61.9
15	3.9	3.1	4.7	7385	6680	8089	74.2	73.7	74.7	64.5	61.9	67.0
16	2.2	1.4	3.0	7507	6803	8212	74.0	73.5	74.5	64.1	61.5	66.6
17	3.9	3.1	4.7	11648	10943	12353	74.0	73.4	74.5	39.4	36.9	42.0
18	2.8	2.0	3.6	11850	11145	12555	73.7	73.2	74.2	42.2	39.6	44.7
19	2.1	1.3	3.0	11832	11127	12536	74.0	73.4	74.5	42.4	39.9	45.0
20	2.9	2.1	3.8	11827	11123	12532	74.3	73.8	74.8	44.0	41.5	46.6
21	2.1	1.3	3.0	12158	11454	12863	74.4	73.9	75.0	43.1	40.5	45.6
22	1.7	0.9	2.5	11843	11138	12548	74.0	73.5	74.6	44.3	41.7	46.8
23	1.9	1.1	2.8	12332	11627	13037	74.0	73.5	74.5	42.1	39.5	44.6
24	0.9	0.1	1.7	12098	11394	12803	74.4	73.9	75.0	44.6	42.1	47.2
25	8.3	7.5	9.0	6956	6251	7660	73.4	72.9	74.0	43.4	40.9	46.0

^aSee Table 19 for treatment information

Cercospora - Integrate Pest Management

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 22 – Summary of material and methods applied to Sheath Blight – Integrate Pest Management studies

Planting Date:	April 19 th (<i>Second Field</i>), May 22 (<i>Third Field</i>), April 1 (<i>Lake Arthur Field</i>)
Water Management	<i>Second Field</i> - Flooded, May 23; Drained: Aug 19 <i>Third Field</i> - Flooded, June 17; Drained: Sep 6 <i>Lake Arthur Field</i> - Flooded, May 14; Drained: July 16
Fertilization	Pre-planting - 250 lb/A of 0-24-24; Preflood 300 lb/A 46-0-0 urea (<i>Second and Third fields</i>) <i>Lake Arthur Field</i> - 250 lbs/A 8-24-24, April 1; 100 lbs/A 21-0-0, April 19; and 300 lbs/A 46-0-0, May 13
Herbicides	<i>Second Field:</i> <ul style="list-style-type: none"> • Command 6 fl oz/A, April 25 • Propanil 3 qt/A and Prowl 1 pt/A, Permit ½ oz/A, May 9 • Propanil 4 qt/A, Gambit 2 oz/A, Facet ½ lb/A, Command 4 fl oz/A, May 24 <i>Third Field:</i> <ul style="list-style-type: none"> • Command 6 fl oz/A, May 23 • Propanil 4 qt/A, Gambit 2 oz/A, June06 <i>Lake Arthur Field</i> <ul style="list-style-type: none"> • Command 6 fl oz/A, Roundup 1qt/A, Sharpen 2 fl oz/A, April 1 • Propanil 3 qt/A, Gambit 1 oz/A, and Prowl 1 qt/A, April 19 • Propanil 4 qt/A, Gambit 1 oz/A, May 13 • Clincher 20 fl oz/A, Loyant 11 fl oz/A, Crop oil (80/20) 1 qt/A
Insecticides	Dermacor X-100 seed treatment
Inoculation	<i>Natural inoculum</i>
Harvest	<i>Second Field</i> - August 27 <i>Third Field</i> – Sep 26 <i>Lake Arthur Field</i> - Flooded, May 14; Drained: July 16

Table 23 – Weather conditions at treatments application timing

	Stage	Date	Time	Temp	Wind	RH	Clouds
<i>Second Field</i>	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
<i>Third Field</i>	EB	July 22	1:30 PM	92 F	3-5 mph	66%	Cloudy
	LB	July 29	8:30 AM	90 F	None	79%	Partly
<i>Lake Arthur Field</i>	EB	June 19	1:45 AM	85 F	7-10 mph	79%	Partly
	LB	June 27	10:30 AM	94 F	3-9 mph	62%	Partly

Table 24 – Estimated mean (Est) and 95% confidence interval range (Lower and Upper) for *Cercospora* panicle-blight incidence (CPB; %), *Cercospora* net-blotch lesion size (CNB; cm), grain yield (Lb/A), total grain milling yield (Total; %) and whole grain milling yield (Head; %), from the *Second field (April planting) of Cercospora -Integrate Pest Management, Crowley, LA, 2024*

Metric			CPB	CPB	CPB	CNB	CNB	CNB	Yield	Yield	Yield	Total	Total	Total	Head	Head	Head
Units			%	%	%	cm	cm	cm	Lb/A	Lb/A	Lb/A	%	%	%	%	%	%
Description			Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper
Variety	Time	TRT															
PVL03	UTC	1	66.0	43.2	88.8	14.8	11.0	18.5	6288	5844	6733	67.4	66.3	68.6	46.9	44.9	49.0
PVL03	EB	2	66.7	43.9	89.5	14.4	10.7	18.2	6551	6107	6995	68.5	67.4	69.6	46.7	44.7	48.7
PVL03	LB	3	37.3	14.5	60.1	15.7	11.9	19.5	6235	5790	6679	68.7	67.3	70.0	48.2	45.7	50.7
CLL17	UTC	4	70.0	47.2	92.8	12.9	9.1	16.6	5506	5061	5950	67.6	66.5	68.7	61.0	59.0	63.1
CLL17	EB	5	95.3	72.5	100.0	17.4	13.6	21.1	5621	5177	6065	67.9	66.8	69.0	61.0	58.9	63.0
CLL17	LB	6	80.7	57.9	100.0	12.2	8.4	15.9	5928	5484	6372	67.8	66.7	68.9	60.8	58.8	62.8
CLL19	UTC	7	65.3	42.5	88.1	12.8	9.0	16.5	6871	6426	7315	70.0	68.9	71.2	52.9	50.9	54.9
CLL19	EB	8	54.0	31.2	76.8	10.6	6.8	14.3	7078	6634	7522	71.1	69.9	72.2	56.2	54.1	58.2
CLL19	LB	9	66.0	43.2	88.8	12.0	8.3	15.8	6921	6477	7366	70.8	69.7	71.9	55.9	53.9	57.9
Cheniere	UTC	10	56.0	33.2	78.8	11.4	7.7	15.2	5954	5510	6398	72.6	71.5	73.7	59.7	57.6	61.7
Cheniere	EB	11	75.3	52.5	98.1	12.7	9.0	16.5	6178	5734	6623	71.9	70.8	73.1	59.7	57.6	61.7
Cheniere	LB	12	56.0	33.2	78.8	10.1	6.4	13.9	6210	5765	6654	72.1	71.0	73.2	58.5	56.5	60.5
Presidio	UTC	13	66.0	43.2	88.8	13.2	9.5	17.0	6021	5576	6465	68.5	67.4	69.6	46.4	44.4	48.4
Presidio	EB	14	46.0	23.2	68.8	8.7	5.0	12.5	6232	5788	6677	70.0	68.9	71.1	49.4	47.4	51.4
Presidio	LB	15	62.7	39.9	85.5	12.6	8.8	16.4	5875	5431	6319	69.4	68.3	70.6	47.2	45.2	49.2
CLJ01	UTC	16	91.3	68.5	100.0	16.7	12.9	20.5	6156	5712	6601	70.8	69.7	71.9	59.2	57.2	61.2
CLJ01	EB	17	53.3	30.5	76.1	16.1	12.3	19.8	6710	6265	7154	70.5	69.4	71.6	59.6	57.6	61.6
CLJ01	LB	18	69.3	46.5	92.1	16.3	12.6	20.1	6288	5844	6732	70.5	69.3	71.6	59.3	57.3	61.4
Titan	UTC	19	90.0	67.2	100.0	15.8	12.1	19.6	6202	5757	6646	68.7	67.6	69.9	55.9	53.9	57.9
Mermentau	UTC	20	51.3	28.5	74.1	13.9	10.1	17.6	6806	6362	7251	71.1	70.0	72.2	59.3	57.3	61.3

Table 25 – Estimated mean (Est) and 95% confidence interval range (Lower and Upper) for *Cercospora* panicle-blight incidence (CPB; %), *Cercospora* net-blotch lesion size (CNB; cm), grain yield (Lb/A), total grain milling yield (Total; %) and whole grain milling yield (Head; %), from the *Third field (May planting) of Cercospora -Integrate Pest Management, Crowley, LA, 2024*

Metric			CPB	CPB	CPB	CNB	CNB	CNB	Yield	Yield	Yield	Total	Total	Total	Head	Head	Head
Units			%	%	%	cm	cm	cm	Lb/A	Lb/A	Lb/A	%	%	%	%	%	%
Description			Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper
Variety	Time	TRT															
PVL03	UTC	1	30.7	13.2	48.1	13.6	10.5	16.6	4080	3259	4901	62.0	59.5	64.4	32.2	28.9	35.5
PVL03	EB	2	22.0	4.6	39.4	12.2	9.2	15.3	4121	3300	4942	63.3	60.9	65.7	32.5	29.2	35.8
PVL03	LB	3	34.0	16.6	51.4	12.1	9.1	15.2	4154	3333	4975	63.4	61.0	65.8	36.4	33.1	39.7
CLL17	UTC	4	72.0	54.6	89.4	11.4	8.3	14.4	4923	4102	5744	66.4	64.0	68.9	53.7	50.4	57.0
CLL17	EB	5	60.7	43.2	78.1	9.7	6.6	12.7	4578	3757	5399	66.5	64.0	68.9	54.7	51.4	58.0
CLL17	LB	6	50.7	33.2	68.1	10.4	7.4	13.5	4740	3919	5561	66.2	63.8	68.7	55.3	52.0	58.6
CLL19	UTC	7	38.7	21.2	56.1	12.7	9.6	15.7	4481	3660	5302	64.9	62.5	67.4	43.1	39.8	46.4
CLL19	EB	8	46.7	29.2	64.1	10.7	7.6	13.7	4674	3853	5495	64.6	62.2	67.1	43.1	39.8	46.4
CLL19	LB	9	34.7	17.2	52.1	13.0	9.9	16.0	3996	3175	4817	65.0	62.6	67.5	46.4	43.1	49.7
Cheniere	UTC	10	36.7	19.2	54.1	8.5	5.5	11.6	3886	3065	4707	69.8	67.3	72.2	46.4	43.1	49.7
Cheniere	EB	11	41.3	23.9	58.8	7.9	4.8	10.9	4188	3367	5009	68.8	66.4	71.2	49.0	45.7	52.3
Cheniere	LB	12	40.0	22.6	57.4	11.3	8.2	14.3	4242	3421	5063	70.2	67.8	72.6	52.9	49.6	56.2
Presidio	UTC	13	30.0	12.6	47.4	3.1	0.1	6.2	2454	1633	3275	58.5	56.1	61.0	34.1	30.8	37.4
Presidio	EB	14	13.3	0.0	30.8	3.7	0.6	6.7	2841	2020	3662	61.5	59.1	63.9	40.0	36.7	43.3
Presidio	LB	15	20.0	2.6	37.4	2.2	-0.8	5.3	3058	2237	3879	63.1	60.7	65.5	45.0	41.7	48.3
CLJ01	UTC	16	44.0	26.6	61.4	12.1	9.0	15.1	4811	3990	5632	68.1	65.7	70.5	56.0	52.7	59.3
CLJ01	EB	17	51.3	33.9	68.8	14.9	11.8	17.9	5024	4203	5845	68.3	65.9	70.7	58.9	55.6	62.2
CLJ01	LB	18	37.3	19.9	54.8	11.1	8.0	14.1	4750	3929	5571	69.0	66.5	71.4	59.7	56.4	63.0
Titan	UTC	19	70.0	52.6	87.4	9.7	6.7	12.8	4483	3662	5304	62.5	60.0	64.9	34.3	31.0	37.6
Mermentau	UTC	20	61.3	43.9	78.8	13.2	10.1	16.2	4969	4148	5790	69.2	66.8	71.7	55.6	52.3	58.9

Table 26 – Estimated mean (Est) and 95% confidence interval range (Lower and Upper) for *Cercospora* panicle-blight incidence (CPB; %), *Cercospora* net-blotch lesion size (CNB; cm), grain yield (Lb/A), total grain milling yield (Total; %) and whole grain milling yield (Head; %), from the *Lake Arthur field* (May planting) of *Cercospora* -Integrate Pest Management, Lake Arthur, LA, 2024

Metric			CPB	CPB	CPB	CNB	CNB	CNB	Yield	Yield	Yield	Total	Total	Total	Head	Head	Head
Units			%	%	%	cm	cm	cm	Lb/A	Lb/A	Lb/A	%	%	%	%	%	%
Description			Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper
Variety	Time	TRT															
PVL03	UTC	1	89.0	77.4	100.0	12.7	8.1	17.3	7505	6945	8065	72.4	71.8	72.9	55.9	53.6	58.2
PVL03	EB	2	77.5	65.9	89.1	8.6	4.0	13.2	7421	6861	7981	72.0	71.4	72.5	54.1	51.9	56.4
PVL03	LB	3	89.0	77.4	100.0	11.1	6.6	15.7	7298	6738	7857	71.9	71.3	72.4	53.3	51.1	55.6
CLL17	UTC	4	87.5	75.9	99.1	5.8	1.3	10.4	7972	7412	8532	71.1	70.6	71.7	65.1	62.8	67.4
CLL17	EB	5	76.0	64.4	87.6	5.2	0.6	9.7	7435	6875	7995	70.7	70.2	71.3	63.8	61.5	66.1
CLL17	LB	6	95.5	83.9	100.0	6.7	2.1	11.3	7261	6701	7821	71.2	70.6	71.7	65.0	62.7	67.2
CLL19	UTC	7	88.5	76.9	100.0	10.9	6.3	15.5	7261	6701	7821	71.8	71.3	72.4	51.5	49.2	53.7
CLL19	EB	8	73.0	61.4	84.6	9.5	4.9	14.1	8124	7564	8684	72.1	71.5	72.6	52.1	49.8	54.4
CLL19	LB	9	79.0	67.4	90.6	9.1	4.5	13.7	7813	7254	8373	72.1	71.5	72.6	54.4	52.2	56.7
Cheniere	UTC	10	86.0	74.4	97.6	6.6	2.0	11.2	6626	6067	7186	75.2	74.6	75.7	65.2	62.9	67.4
Cheniere	EB	11	79.5	67.9	91.1	7.2	2.6	11.8	6499	5939	7059	74.4	73.8	75.0	63.6	61.3	65.8
Cheniere	LB	12	89.5	77.9	100.0	6.5	2.0	11.1	6558	5998	7118	74.8	74.2	75.4	64.9	62.6	67.1
Presidio	UTC	13	78.0	66.4	89.6	6.8	2.2	11.3	8062	7503	8622	70.6	70.1	71.2	56.3	54.0	58.6
Presidio	EB	14	72.0	60.4	83.6	9.1	4.5	13.7	8211	7651	8771	71.2	70.7	71.8	57.5	55.2	59.8
Presidio	LB	15	72.5	60.9	84.1	7.9	3.3	12.5	8240	7680	8799	70.8	70.2	71.3	56.3	54.0	58.6
CLJ01	UTC	16	86.0	74.4	97.6	6.0	1.4	10.6	6333	5773	6893	73.0	72.4	73.5	62.1	59.9	64.4
CLJ01	EB	17	92.5	80.9	100.0	6.2	1.6	10.8	5910	5350	6470	73.1	72.5	73.6	64.3	62.0	66.5
CLJ01	LB	18	91.0	79.4	100.0	6.5	2.0	11.1	6051	5491	6611	73.1	72.6	73.7	63.1	60.8	65.4
Titan	UTC	19	94.5	82.9	100.0	6.0	1.4	10.6	7675	7115	8235	71.1	70.6	71.7	60.3	58.1	62.6
Mermentau	UTC	20	88.5	76.9	100.0	12.5	7.9	17.1	7371	6811	7931	72.4	71.8	72.9	60.4	58.2	62.7

Cercospora – TIME

This study aims to evaluate the best application timing to control Cercospora panicle-blight, Cercospora net blotch and narrow brown leaf spot. Narrow brown leaf spot did not develop on a significant level and the results are not included in this report.

Table 27 – Summary of material and methods applied to Cercospora - Integrate Pest Management studies, in Crowley (First to Third field) and Lake Arthur (Fourth Field), Louisiana, 2023

Planting Date	<i>Second Field:</i> April 23 <i>Third Field:</i> May 22
Water Management	<i>Second Field</i> Flooded, May 28; Drained: Aug 19 <i>Third Field</i> Flooded, Jun 17; Drained: Sep 6
Fertilization	Pre-planting - 250 lb/A of 0-24-24; Preflood 300 lb/A 46-0-0 urea (both fields)
Herbicides	<i>Second Field</i> <ul style="list-style-type: none"> • Command 6 fl oz/A, April 25 • Propanil 3 qt/A and Prowl 1 pt/A, Permit ½ oz/A, May 9 • Propanil 4 qt/A, Gambit 2 oz/A, Facet ½ lb/A, Command 4 fl oz/A, May 24 <i>Third Field</i> <ul style="list-style-type: none"> • Command 6 fl oz/A, May 23 • Propanil 4 qt/A, Gambit 2 oz/A, June 6
Insecticides	Dermacor X-100 seed treatment
Inoculation	No Artificial inoculation
Ratings	Samples were brought to the lab before harvest
Harvest	<i>Second Field:</i> Aug 22 <i>Third Field:</i> Sep 21

Table 28 – Weather conditions at treatments application timing for Cercospora TIME study

Field	Stage	Date	Time	Temp	Wind	RH	Clouds
<i>Second Field</i>	PD7	June 27	9:00 AM	90 F	6-8 mph	70%	Partly
	PD14	July 8	8:45 AM	89 F	5-7 mph	75%	Cloudy
	PD21	July 12	2:45 PM	94 F	4-6 mph	58%	Partly
	PD28	July 17	2:00 PM	88 F	2-3 mph	68%	Partly
	PD35	July 25	10:00 AM	86 F	0-2 mph	75%	Cloudy
	PD42	July 31	8:45 AM	91 F	2-4 mph	71%	Sunny
<i>Third Field</i>	PD7	July 10	9:00 AM	91 F	2-3 mph	66%	Sunny
	PD14	July 17	2:30 PM	N/A	N/A	N/A	N/A
	PD21	July 22	1:30 PM	92 F	3-5 mph	66%	Cloudy
	(2-4" Pan.)						
	PD28	July 31	9:00 AM	91 F	2-4 mph	71%	Sunny
	PD35	August 7	10:30 AM	99 F	2-4 mph	50%	Sunny
	PD42	August 14	7:30 AM	86 F	None	77%	Sunny

Table 29 – Estimated mean (Est) and 95% confidence interval range (Lower and Upper) for *Cercospora* panicle-blight incidence (CPB; %), *Cercospora* net-blotch lesion size (CNB; cm), grain yield (Lb/A), total grain milling yield (Total; %) and whole grain milling yield (Head; %), from the *Second field (April planting) of Cercospora -Integrate Pest Management, Crowley, LA, 2024*

Metric			CPB	CPB	CPB	CNB	CNB	CNB	Yield	Yield	Yield	Total	Total	Total	Head	Head	Head
Units			%	%	%	cm	cm	cm	Lb/A	Lb/A	Lb/A	%	%	%	%	%	%
Description			Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper
Variety	Time	TRT															
PVL03	UTC	1	56.7	37.2	76.1	17.7	13.9	21.5	6026	5589	6463	71.4	70.4	72.5	49.9	47.1	52.8
PVL03	EB	2	72.0	52.5	91.5	16.1	12.3	19.9	5896	5459	6332	72.5	71.5	73.6	53.4	50.6	56.3
PVL03	LB	3	47.3	27.9	66.8	16.1	12.3	20.0	5892	5455	6329	71.9	70.9	73.0	52.0	49.1	54.9
CLL17	UTC	4	89.3	69.9	108.8	13.4	9.6	17.2	5960	5524	6397	71.9	70.9	72.9	51.8	48.9	54.7
CLL17	EB	5	65.3	45.9	84.8	12.9	9.1	16.7	5882	5445	6319	72.1	71.0	73.1	51.6	48.7	54.5
CLL17	LB	6	64.7	45.2	84.1	15.9	12.1	19.7	5885	5448	6322	71.6	70.5	72.6	51.1	48.2	54.0
CLL19	UTC	7	64.0	44.5	83.5	13.9	10.1	17.7	5874	5437	6311	71.3	70.3	72.4	51.5	48.6	54.4
CLL19	EB	8	76.0	56.5	95.5	19.3	15.5	23.1	6057	5621	6494	71.0	69.9	72.0	50.2	47.3	53.0

Table 30 – Estimated mean (Est) and 95% confidence interval range (Lower and Upper) for *Cercospora* panicle-blight incidence (CPB; %), *Cercospora* net-blotch lesion size (CNB; cm), grain yield (Lb/A), total grain milling yield (Total; %) and whole grain milling yield (Head; %), from the *Third field (May planting) of Cercospora -Integrate Pest Management, Crowley, LA, 2024*

Metric			CPB	CPB	CPB	CNB	CNB	CNB	Yield	Yield	Yield	Total	Total	Total	Head	Head	Head
Units			%	%	%	cm	cm	cm	Lb/A	Lb/A	Lb/A	%	%	%	%	%	%
Description			Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper	Mean	Lower	Upper
Variety	Time	TRT															
PVL03	UTC	1	75.3	61.3	89.4	14.7	12.2	17.2	5091	4063	6118	70.5	66.2	74.8	43.8	33.6	54.0
PVL03	EB	2	79.3	65.3	93.4	13.5	11.0	16.0	4865	3838	5892	70.4	66.1	74.7	46.5	36.3	56.7
PVL03	LB	3	80.7	66.6	94.7	14.6	12.1	17.0	4926	3899	5954	69.7	65.4	74.0	46.0	35.8	56.3
CLL17	UTC	4	76.0	62.0	90.0	11.7	9.3	14.2	4735	3708	5762	69.8	65.5	74.1	47.2	37.0	57.4
CLL17	EB	5	77.3	63.3	91.4	11.1	8.6	13.6	4549	3522	5576	69.1	64.8	73.4	46.5	36.3	56.7
CLL17	LB	6	69.3	55.3	83.4	13.6	11.2	16.1	5057	4030	6084	69.1	64.7	73.4	46.8	36.6	57.0
CLL19	UTC	7	60.7	46.6	74.7	12.3	9.8	14.8	5024	3997	6051	70.8	66.5	75.1	48.7	38.5	58.9
CLL19	EB	8	70.7	56.6	84.7	10.8	8.4	13.3	5173	4146	6200	68.8	64.5	73.1	44.7	34.5	54.9

RICE ENTOMOLOGY RESEARCH

EVALUATING RICE VARIETIES FOR RESISTANCE AGAINST STEM BORERS

M.D. Khan, B.E. Wilson, M.J. Stout

Resistant related traits help plants to develop resistance against herbivores by influencing interactions between herbivores and plants. Host plant resistance includes the use of resistant varieties to reduce the impact of injury and ultimately reduce damage by maintaining yields. Rice varieties show difference in susceptibility against key insect pests including Mexican rice borer, *Eoreuma loftini*. A field trial was conducted to evaluate the resistance among eight rice varieties PVL03, CLL17, Cheniere, Mermentau, Jupiter, Titan, Addi Jo and Jazzman against rice stem borers at the H. Rouse Caffey Rice Research Station. Treatments were assigned to plots following a randomized complete block design with 4 blocks and one replicate per block. Seeds were drilled planted in plots (4.88m*1.44m) on 26 April 2024.

The number of whiteheads has been used for damage estimation for stem borers in rice. The numbers of whiteheads were recorded at 100% heading on 1 August, 6 August and 12 August 2025 and because heading in some varieties was delayed relative to other varieties. The three counts of whiteheads were summed to get total whiteheads per plot and the converted into whiteheads/m². All data were analyzed with generalized linear mixed models (SAS Proc Glimmix) with variety as the fixed effect and replication as a random effect. Means were separated with Tukey's HSD.

Whitehead density was highest in PVL03, which was 5.9-fold greater than the least-injured variety, Addi Jo (Table 1). Medium grain varieties, Titan and Jupiter, were among the most heavily injured. Mermentau and Jazzman did not differ from Addi Jo, showing some resistance potential. Overall results showed that some varieties are significantly more resistant than other varieties. Varietal resistance can be incorporated along with other management tactics to minimize the impact of stem borers on rice yield.

Table 1. Influence of rice variety on stem borer infestation and rice yield in a small plot field trial, Crowley, LA, 2024

Variety	Whiteheads/m ²	Yield (lbs/a)
Addi Jo	2.6d	6003a
Cheniere	6.2bcd	4699bc
CLL17	4.5bcd	5233ab
Jazzman	3.9cd	5088abc
Jupiter	9.4abc	4172c
Mermentau	4.2cd	5860a
PVL03	15.4a	6010a
Titan	11.4ab	4681bc
F _{7, 21} =	9.70	9.66
P=	<.0001	<.0001
SE =	1.7	256

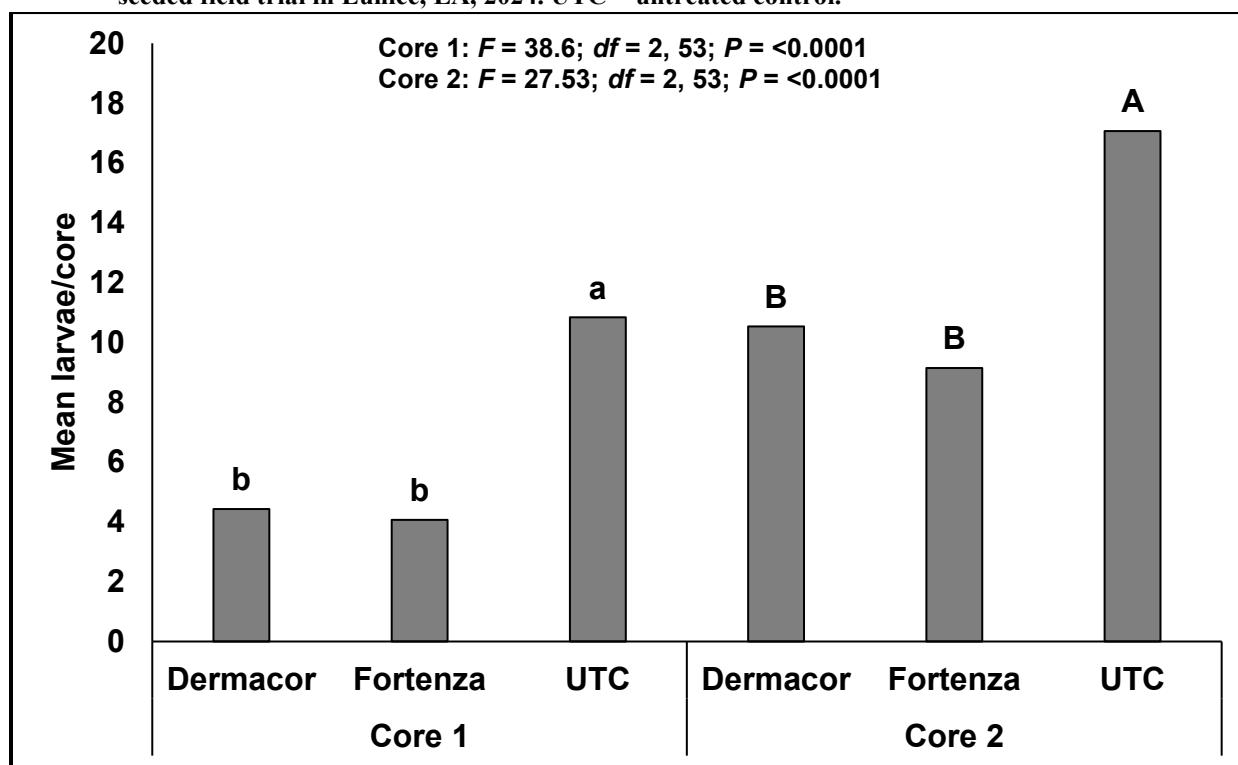
LARGE PLOT EVALUATION OF INSECTICIDAL SEED TREATMENTS IN WATER-SEED RICE APPLIED BY AIRPLANE

Wilson, B.E., Musgrove, T.E., and Landry, K.J.

Efficacy of insecticidal seed treatments against the rice water weevil has not been well studied in water-seeded rice. A large-plot, on farm trial was conducted in Eunice, LA in cooperation from crop consultants and rice producers. The trial compared two insecticidal seed treatments (Dermacor and Fortenza) applied by a commercial grain dealer and planted by airplane into a pin-point water-seeded system. Seed of each treatment was planted to blocks of >50 acres. Prior to seeding, large plastic pools approximately 2 m² were placed at 5 locations within each plot that were hand-seeded with untreated rice seed. These 5 areas, along with nearby treated areas were cored at 3 and 4 weeks after establishment of permanent flood for determination of rice water weevil infestations. At 100% heading, stem borer infestations were assessed by counting the number of whiteheads per m². Data were analyzed with generalized linear mixed models.

Insecticidal seed treatments reduced rice water weevil infestations relative to non-treated controls at both sampling dates (Figure 1). Differences in stem borer infestations were not detected ($P > 0.05$). Results indicate diamide seed treatments perform comparatively well in water-seeded vs drill seeded rice.

Figure 1. Influence of insecticidal seed treatments on rice water weevil infestations in a large-plot, water-seeded field trial in Eunice, LA, 2024. UTC = untreated control.



EFFICACY OF INSECTICIDAL SEED TREATMENTS AT INCREASED RATES

Wilson, B.E., Landry, K.J., and Musgrove, T.E.

Insecticidal seed treatment is a 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 (Cyantraniliprole) 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, 2024, and a late planting date of May 18, 2024, 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 2024. Seeds were drill-planted in small (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. Stem borer infestations were quantified by counting the number of blanked panicles (“whiteheads”) per plot on 23 July 2024 21 Aug 2024 for the early- and late-planted trials, respectively. Data were analyzed for early- and late-planted trials separately using generalized linear mixed model (SAS. PROC GLMMIX) with insecticide treatment as the fixed effect. Means were separated using Tukey’s HSD ($\alpha=0.05$). Results demonstrate that none of the evaluated seed treatments provided greater than 50% control of rice water weevil at the registered (1×) rate. Increased rates only minimally improved control. No seed treatments provided appreciable stem borer control and neonicotinoids enhanced infestations. Further research is needed with insecticide seed treatment efficacy to establish effective control. Results suggest seed treatment efficacy has declined in recent years and additional controls for both rice water weevil and stem borers are needed.

Table 1. The influence of insecticidal seed treatments on insect pests and yields, early-planted trial, Crowley, La, 2024

Treatment	Rate*	RWW 6/5	RRW 6/13	Whiteheads/in ²	Yield (lbs/acre)
Non-treated	NA	23.8 a	16.1 a	0.3 ab	5,823
Dermacor X100	1X	10.7 bc	7.4 b	0.1 ab	7,126
	2X	14.7 ab	8.9 b	0.0 b	6,382
	3X	13.8 bc	6.8 b	0.0 b	6,249
Fortenza	1X	9.2 bc	8.3 b	0.5 ab	6,735
	2X	10.0 bc	5.3 b	0.5 ab	6,820
	3X	8.9 bc	3.7 b	0.3 ab	6,769
Cruiser	1X	13.6 bc	9.8 ab	0.4 ab	6,387
	2X	6.2 bc	9.3 b	1.2 a	6,965
	3X	6.3 bc	4.9 b	0.4 ab	6,887
NipsIt	1X	8.0 bc	7.6 b	0.2 ab	6,820
	2X	6.1 bc	5.6 b	0.4 ab	6,579
	3X	4.6 c	4.6 b	1.1 a	7,011
SE =		1.9	1.4	0.2	395
$F_{12, 39} =$		7.35	6.03	2.33	1.04
$P =$		<0.001	<0.001	<0.023	0.439

Table 2. The influence of insecticidal seed treatments on insect pests and yields, late-planted trial, Crowley, La, 2024

Treatment	Rate*	RWW 7/22	RRW 7/29	Whiteheads/in²	Yield (lbs/acre)
Non-treated	NA	14.1 ab	24.3 a	1.1 c	4,208 b
Dermacor X100	1X	9.2 ab	6.4 b	1.0 c	5,362 ab
	2X	9.9 abc	7.9 b	1.3 bc	5,634 a
	3X	4.7 bc	7.9 b	1.6 bc	5,237 ab
Fortenza	1X	15.5 a	8.9 ab	2.7 abc	4,681 ab
	2X	11.0 abc	17.2 ab	2.6 abc	4,893 ab
	3X	4.7 bc	4.9 b	2.5 abc	5,221 ab
Crusier	1X	7.5 abc	9.7 ab	3.0 abc	4,742 ab
	2X	5.9 abc	8.5 b	4.2 ab	4,731 ab
	3X	2.9 c	7.7 b	4.7 a	4,580 ab
NipsIt	1X	6.8 abc	11.2 ab	4.0 ab	4,681 ab
	2X	5.9 abc	6.4 b	2.3 abc	5,462 a
	3X	2.7 c	4.6 b	2.8 abc	5,421 a
SE =		2.2	3.2	0.6	235
$F_{12, 39} =$		4.17	2.86	3.93	3.23
$P =$		<0.001	0.007	<0.001	0.003

EFFICACY OF COMMERCIAL- APPLIED AND EXPERIMENTALLY- APPLIED INSECTICIDAL SEED TREATMENTS

Wilson, B.E., Landry, K.J., and Musgrove, T.E

Insecticidal seed treatments are widely used to control key pests of rice including the rice water weevil (*Lissorhoptrus oryzophilus*), stem borers, and other insect pests. Reduced efficacy and control failures have been reported in recent years, raising concern over the viability of continued reliance on seed treatments as the sole rice pest management strategy. Results from on station trials in 2023 revealed seed treatments had poor efficacy when applied in small experimental batches at the rice station. It is not clear how efficacy of small-batch applied treatments compares to large-scale, commercial seed treatment applicators. A field study was conducted in 2024 to compare experimentally-applied (rice station) to commercially-applied (Crowley Grain) seed treatments.

The field trial was planted (var. Avant) on 8 April 2024 with treatments arranged in a randomized block design with 4 replications. Three soil cores per plot were taken at approximately 4 and 5 weeks after permanent flood for quantification of rice water weevil infestations. Stem borer infestations were assessed by recording the number of blanked panicles (whiteheads) in each plot at 100% heading (7 Aug 2024). Plots were harvested 20 Aug 2024 and rough rice weights were recorded. Rice yield was adjusted to 12% moisture prior to analysis.

Insecticidal seed treat affected weevil counts both at June 6 ($F = 5.50$; $df = 4, 12$; $P = 0.010$) and June 12 ($F = 6.48$; $df = 4, 12$; $P = 0.005$) (Figure 1). All seed treatments reduced infestations by approximately 50% regardless of application method. Stem borer infestation did not differ among treatments ($P > 0.05$). Seed treatments impacted rice yields ($F = 54.25$; $df = 4, 12$; $P < 0.001$) (Figure 2), with all treated seed having greater yield than non-treated controls. Crowley grain-treated seed had greater yield than rice station-treated seed, likely reflecting the use of fungicidal seed treatments during commercial treatment.

Figure 1. Rice water weevil infestations as affected by insecticidal seed treatments, Crowley, LA, 2024.

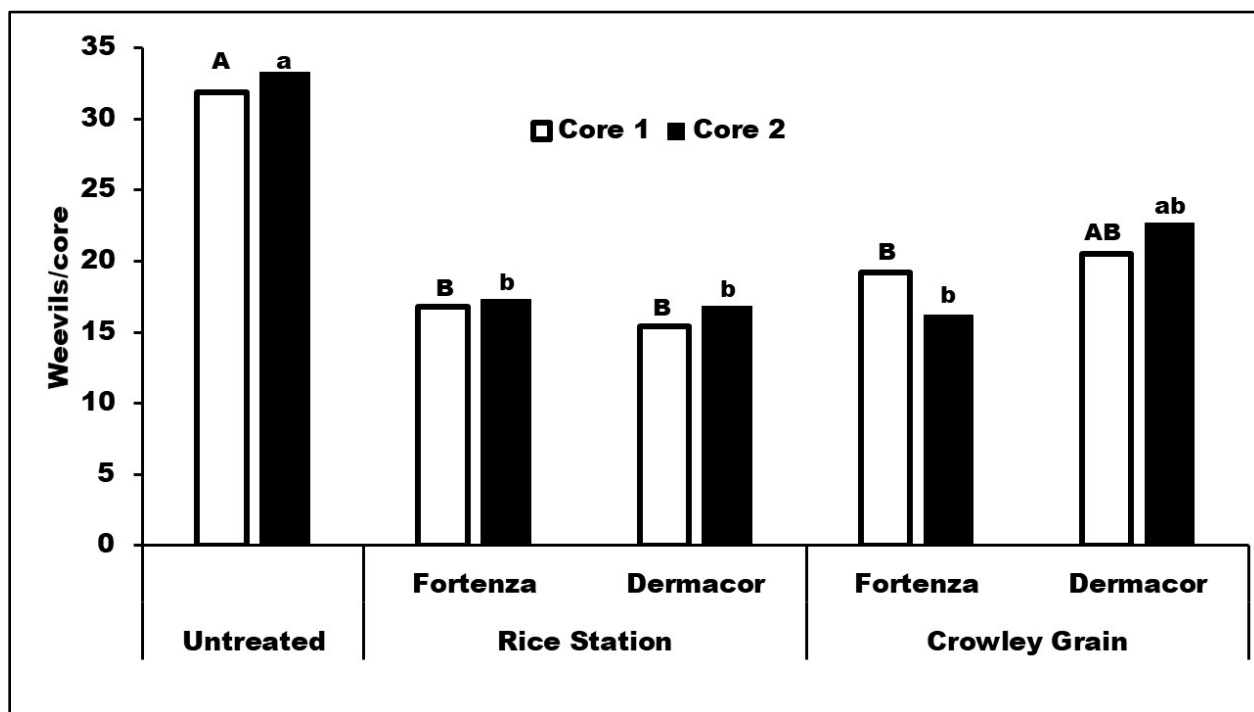
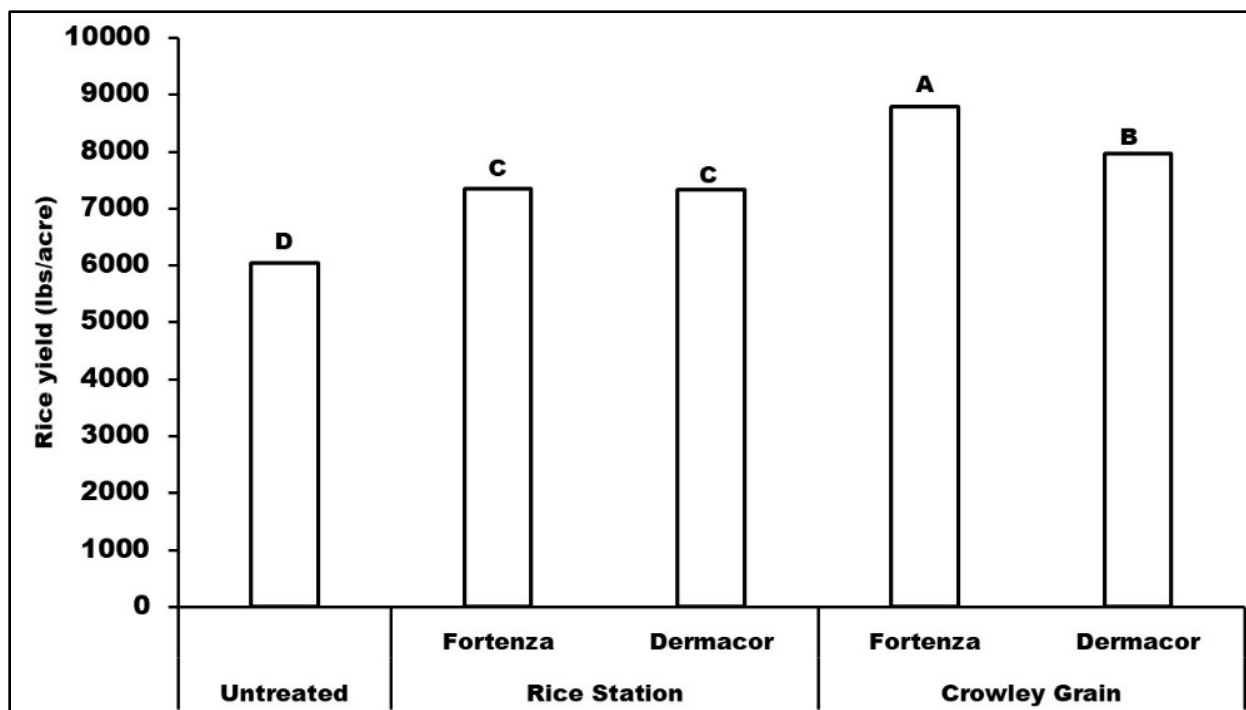


Figure 2. Rice yields as affected by insecticidal seed treatments, Crowley, LA, 2024.



EVALUATION OF MAJOR INSECT PEST COMPLEXES IN RICE FOLLOWING WINTER PLANTED COVER CROPS

C.E. Gambino, B.E. Wilson, K.J. Landry, and M.J. Stout

Winter cover crops are commonly used in dry land crops as a means of soil improvement, attractant of natural predators, and weed suppression. The use of winter covers has been understudied in Louisiana's paddy rice systems. Insecticidal seed treatments are the primary control strategy of rice's insect complex, rice water weevil (RWW), *Lissorhoptus oryzoophilus*, and the Mexican rice borer, *Eoreuma loftini*, and rice stink bug (RSB), *Oebalus pugnax*, represent a major threat to all stages of rice production. Evaluations of different cultural practices are needed because of concerns about the development of resistance.

Cover crop strips (1.5 m × 55 m) were planted at the H. Rouse Caffey Rice Research Station in Crowley, LA, on 17 October 2023, using Austrian winter pea, *Pisum sativum*, black cosaque oat, *Avena sativa* L., and sodbuster radish, *Raphanus sativus* L., (Petcher Seeds LLC, Fruitdale, AL) at 22.0, 6.8, and 1.3 kg ha⁻¹, respectively. A randomized block design with three replications compared the cover crop mix to a fallow control, both subjected to the same nitrogen rates and seed treatments.

Cover crops were terminated on February 2024, with glyphosate (Cornerstone Plus, Agrisolutions) at 1182 mL ha⁻¹, 2,4-D (Hi-Yield) at 473 mL ha⁻¹, and ammonium sulfate (Class Act, Winfield Solutions) at 473 mL ha⁻¹. Rice variety PVL03 (Horizon Ag) was no-till drill-seeded on 15 March 2024, at 36 kg ha⁻¹ in 0.007 ha plots, with seeds either treated with chlorantraniliprole (IST) (Dermacor® X-100, Corteva Agriscience) at 51.7 mL ha⁻¹ or untreated (UTC). Urea was applied on 8 May 2024, at 0, 45, 113, and 181 kg ha⁻¹. Stand counts used 0.09 m² quadrats from three random plot locations. A permanent flood (5–10 cm) was established on 13 May 2024.

Weevil cores were collected on 31 May, 7 June, and 17 June 2024, 3, 4, and 5 weeks after flooding respectively. The numbers of stem borer-associated whiteheads were recorded at 100% heading on 16 July 2024. Plots were harvested for collection of yield data on 6 August 2024. All data was analyzed with generalized linear mixed models (SAS Proc Glimmix) with cover crops, seed treatment, nitrogen rates and the interaction as fixed effects and replication as a random effect. Means were separated with Tukey's HSD.

RWW larval number averaged over all collection days and the number of whiteheads was only significantly affected by the Dermacor seed treatment ($F_{1,30} = 35$; $p = <0.0001$) and ($F_{1,28} = 5.85$; $p = 0.022$) respectively. Yield was affected by insecticidal seed treatment, cover crops, and nitrogen rates. IST increased yield by 24% when compared to the untreated ($F_{1,28} = 21.87$; $p = <0.0001$). The addition of cover crops decreased yield by 23% when compared to the fallow plots ($F_{1,4} = 32.66$; $p = 0.0046$). Nitrogen rates significantly influenced yield, with the highest rate of (181kg) of urea increasing yield by approximately 68% compared to no urea (0kgs) and the (113kg) rate increasing yield by about 60% relative to the untreated (0kg), though yields at 181 and 113 were not significantly different from each other; yields at 45 and 0 were also similar but significantly lower than higher rates ($F_{3,28} = 26.20$; $p = <0.0001$).

Table 1. Influence of winter cover crops on insect pest complex in rice, Crowley, LA, 2024

Treatment	RWW AVG	Whiteheads/in ²	Adjusted Yield (kg/ha)
Dermacor	7.8 a	0.26 a	3,468 a
Untreated	13.5 b	0.92 b	2,803 b
SE =	0.57	0.213	100.62
$F_{12, 39} =$	35	2.85	21.87
$P =$	<0.0001	0.022	<0.0001

EFFICACY OF INSECTICIDAL SEED TREATMENTS IN WATER-SEEDED RICE

Wilson, B.E., Landry, K.J., and Musgrove, T.R.

Insecticidal seed treatment is an accepted practice for control of rice water weevil (RWW), *Lissorhoptrus oryzophilus*, stem boring lepidoptera and other insect pests. Cruiser (Thiamethoxam), Dermacor (Chlorantraniliprole), Fortenza (Cyantraniliprole) and Nipsit Inside (Clothianidin) are insecticide seed treatments for rice. Efficacy of seed treatments in water-seeded rice has not been thoroughly investigated.

Avant rice seed was treated registered products alone and in combination at labeled and 3× rates in addition to a non-treated control. Treatments also included commercially treated seed (Crowley Grain) which had fungicides in addition to insecticides. Seeds were water-planted on 2 May 2024 in small (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. Weevil larvae populations were quantified by collecting three root/soil core samples per plot and counting the number of larvae. Stem borer infestations were quantified by counting the number of blanked panicles (“whiteheads”) per plot on 7 Aug 2024. Rice was harvested on 20 Aug 2024 and rough rice yields for each plot were recorded and adjusted to 12% moisture. Data were analyzed using generalized linear mixed models (SAS PROC GLMMIX) with insecticide treatment as the fixed effect. Means were separated using Tukey’s HSD ($\alpha=0.05$).

Results demonstrated that diamide seed treatments (Dermacor and Fortenza) provided the greatest control of RWW. Plots treated with Cruiser alone did not differ from non-treated controls in RWW infestation or rice yields. No seed treatments provided appreciable stem borer control and some enhanced infestations over non-treated controls. Yields were greatest in plots of commercially treated grain which had both fungicide and insecticides. Efficacy of neonicotinoids, but not diamides, is compromised in water-seeded relative to drill seeded rice.

Table 1. The influence of insecticidal seed treatments on insect pests and yields, early-planted trial, Crowley, La, 2024

Treatment	RWW 6/24	RRW 7/2	Whiteheads/in ²	Yield (lbs/acre)
Non-treated check	28.9 a	14.3 a	0.70 c	5,582 b
Dermacor X-100	16.3 abcd	8.7 ab	2.14 abc	7,002 ab
Dermacor X-100 (3× label)	8.8 cd	4.5 b	2.07 abc	7,836 a
Cruiser 5FS	24.8 ab	14.1 ab	1.07 abc	5,486 b
Cruiser 5FS (3× label)	21.4 abc	13.3 ab	1.24 abc	7,020 ab
Fortenza	6.6 d	10.3 ab	2.30 abc	7,399 ab
Fortenza (3× label)	8.4 bc	9.1 ab	3.40 ab	8,373 a
Fortenza + Cruiser	9.7 cd	7.8 ab	3.50 a	7,677 a
Dermacor + Cruiser	13.1 bcd	7.7 b	1.54 abc	7,338 ab
Dermacor (Crowley grain)	12.0 abcd	7.5 b	1.30 bc	8,031 a
Fortenza (Crowley grain)	10.2 cd	5.2 b	0.90 bc	8,848 a
SE =	2.6	2.2	0.5	235
$F_{12, 39} =$	7.98	2.36	3.39	3.23
$P =$	<0.001	0.031	0.004	0.003

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 177,040 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.

2024 ACTIVITIES

Of the 770.5 cwt. of foundation seed rice sold in 2024, the varieties and quantities were as follows: Mermentau, 90 cwt.; Fitzgerald, 20 cwt.; Titan, 81 cwt.; Jazzman, 121 cwt.; Avant, 164 cwt.; Cheniere, 44.5 cwt.; Jupiter, 130 cwt.; and Della-2, 120 cwt.

The HRCRRS's foundation seed crop in 2024 consisted of 8.5 acres of Della-2, 8 acres of Jupiter, 10.1 acres of Avant, 3 acres of Fitzgerald, 3.2 acres of LA2070, and 6 acres of Titan.

Headrows of Avant, Jupiter, Titan, Fitzgerald, LA2070, and Della-2 were grown for replenishment of breeder seed stock.

RICE PRODUCTION ECONOMICS RESEARCH IN 2024

M.A. Deliberto

The 2024 projected cost and return rice enterprise budgets were developed in December 2023 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 \$675.22 per acre of variable costs and \$812.05 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 \$759.16 per acre of variable costs and \$894.23 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 \$806.67 per acre of variable costs and \$933.07 per acre for total specified costs. Net return estimates for the ratoon crop production system (Table 4) are based on production cost estimates of \$167.70 per acre of variable costs and \$197.82 per acre for total specified costs. Also released in 2024 was a spreadsheet-based Provisia rice enterprise budget. Net return estimates for the Provisia production system are based on production cost estimates of \$779.47 per acre of variable costs and \$929.47 per acre for total specified costs.

To further assist rice producers in planning for the 2024 crop year, the Projected 2024 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 2024, and the model will automatically generate estimates for net returns above variable and total production costs. Farm program payments relating to the Price Loss Coverage (PLC) Program are also embedded in the model and are included in net return calculations, if triggered.

Table 1. Estimated Net Returns above Total Specified Costs for a Tenant Operator Rice, Conventional Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2024

		80%	85%	90%	95%	100%	105%	110%	115%	120%
		Of Base	Of Base	Of Base	Of Base	Of Base	Of Base	Of Base	Of Base	Of Base
		Price	Price	Price	Price	Price	Price	Price	Price	Price
		\$11.80	\$12.54	\$13.28	\$14.01	\$14.75	\$15.49	\$16.23	\$16.96	\$17.70
Percent	Yield (cwt.)	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre
80%	56.0	-\$139	-\$114	-\$88	-\$62	-\$37	-\$11	\$15	\$41	\$66
85%	59.5	-\$110	-\$83	-\$55	-\$28	\$0	\$27	\$55	\$82	\$110
90%	63.0	-\$82	-\$52	-\$23	\$6	\$36	\$65	\$94	\$124	\$153
95%	66.5	-\$53	-\$21	\$10	\$41	\$72	\$103	\$134	\$165	\$196
100%	70.0	-\$24	\$9	\$42	\$75	\$108	\$141	\$174	\$207	\$240
105%	73.5	\$5	\$40	\$75	\$109	\$144	\$179	\$214	\$248	\$283
110%	77.0	\$34	\$71	\$107	\$144	\$180	\$217	\$253	\$290	\$327
115%	80.5	\$63	\$101	\$140	\$178	\$216	\$255	\$293	\$332	\$370
120%	84.0	\$92	\$132	\$172	\$212	\$253	\$293	\$333	\$373	\$413

Net returns above total specified costs for a tenant operator are calculated here as the grower's share of market revenue less total specified costs paid by the grower. Specified costs include charges for direct costs and fixed machinery costs but exclude charges for general farm overhead and management expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 2. Estimated Net Returns above Total Specified Costs for a Tenant Operator Rice, Clearfield Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2024

		80%	85%	90%	95%	100%	105%	110%	115%	120%
		Of Base	Of Base	Of Base	Of Base	Of Base	Of Base	Of Base	Of Base	Of Base
		Price	Price	Price	Price	Price	Price	Price	Price	Price
		\$11.80	\$12.54	\$13.28	\$14.01	\$14.75	\$15.49	\$16.23	\$16.96	\$17.70
Percent	Yield (cwt.)	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre
80%	56.0	-\$222	-\$196	-\$170	-\$144	-\$119	-\$93	-\$67	-\$42	-\$16
85%	59.5	-\$193	-\$165	-\$138	-\$110	-\$83	-\$55	-\$28	\$0	\$28
90%	63.0	-\$164	-\$134	-\$105	-\$76	-\$46	-\$17	\$12	\$42	\$71
95%	66.5	-\$135	-\$104	-\$73	-\$41	-\$10	\$21	\$52	\$83	\$114
100%	70.0	-\$106	-\$73	-\$40	-\$7	\$26	\$59	\$92	\$125	\$158
105%	73.5	-\$77	-\$42	-\$7	\$27	\$62	\$97	\$131	\$166	\$201
110%	77.0	-\$48	-\$11	\$25	\$62	\$98	\$135	\$171	\$208	\$244
115%	80.5	-\$19	\$19	\$58	\$96	\$134	\$173	\$211	\$249	\$288
120%	84.0	\$10	\$50	\$90	\$130	\$170	\$211	\$251	\$291	\$331

Net returns above total specified costs for a tenant operator are calculated here as the grower's share of market revenue less total specified costs paid by the grower. Specified costs include charges for direct costs and fixed machinery costs but exclude charges for general farm overhead and management expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 3. Estimated Net Returns above Total Specified Costs for a Tenant Operator Rice, Clearfield Hybrid Variety, Drill Planted, Conventional Tillage, Southwest Louisiana, 2024

		80%	85%	90%	95%	100%	105%	110%	115%	120%
		Of Base	Of Base	Of Base	Of Base	Of Base	Of Base	Of Base	Of Base	Of Base
		Price	Price	Price	Price	Price	Price	Price	Price	Price
		\$11.80	\$12.54	\$13.28	\$14.01	\$14.75	\$15.49	\$16.23	\$16.96	\$17.70
Percent	Yield (cwt.)	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre
80%	64.0	-\$158	-\$116	-\$74	-\$32	\$10	\$52	\$94	\$136	\$178
85%	68.0	-\$110	-\$66	-\$21	\$24	\$69	\$114	\$159	\$204	\$249
90%	72.0	-\$63	-\$15	\$32	\$80	\$128	\$176	\$224	\$272	\$320
95%	76.0	-\$16	\$35	\$86	\$136	\$187	\$238	\$289	\$340	\$390
100%	80.0	\$31	\$85	\$139	\$192	\$246	\$300	\$354	\$408	\$461
105%	84.0	\$78	\$135	\$192	\$248	\$305	\$362	\$419	\$475	\$532
110%	88.0	\$126	\$185	\$245	\$305	\$364	\$424	\$484	\$543	\$603
115%	92.0	\$173	\$235	\$298	\$361	\$423	\$486	\$548	\$611	\$674
120%	96.0	\$220	\$286	\$351	\$417	\$482	\$548	\$613	\$679	\$744

Net returns above total specified costs for a tenant operator are calculated here as the grower's share of market revenue less total specified costs paid by the grower. Specified costs include charges for direct costs and fixed machinery costs, but exclude charges for general farm overhead and management expenses. The land rental arrangement charge represented here is a 30% crop share with the landlord paying variable and fixed irrigation pumping costs.

Table 4. Estimated Net Returns above Total Specified Costs for a Tenant Operator Rice, Ratoon Crop, Southwest Louisiana, 2024

		80%	85%	90%	95%	100%	105%	110%	115%	120%
		Of Base	Of Base	Of Base	Of Base	Of Base	Of Base	Of Base	Of Base	Of Base
		Price	Price	Price	Price	Price	Price	Price	Price	Price
		\$11.80	\$12.54	\$13.28	\$14.01	\$14.75	\$15.49	\$16.23	\$16.96	\$17.70
Percent	Yield (cwt.)	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre	Returns Per Acre
80%	18.4	\$13	\$22	\$30	\$38	\$47	\$55	\$64	\$72	\$81
85%	19.6	\$23	\$32	\$41	\$50	\$59	\$68	\$77	\$86	\$95
90%	20.7	\$32	\$42	\$51	\$61	\$71	\$80	\$90	\$100	\$109
95%	21.9	\$42	\$52	\$62	\$72	\$83	\$93	\$103	\$113	\$123
100%	23.0	\$51	\$62	\$73	\$84	\$94	\$105	\$116	\$127	\$138
105%	24.2	\$61	\$72	\$83	\$95	\$106	\$118	\$129	\$141	\$152
110%	25.3	\$70	\$82	\$94	\$106	\$118	\$130	\$142	\$154	\$166
115%	26.5	\$80	\$92	\$105	\$117	\$130	\$143	\$155	\$168	\$180
120%	27.6	\$89	\$102	\$116	\$129	\$142	\$155	\$168	\$181	\$195

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 RESEACH VERIFICATION PROGRAM IN 2024

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 2023, 163 fields had been included in the verification program. In 2024, the program included four fields (Figure 1), in the parishes of Acadia, Allen, Jeff Davis, and Vermilion. A field in Avoyelles was scheduled to participate, however unforeseen circumstances prevented participation this year.

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 in green weight and adjusted to 12% moisture. (Table 1). Yields for the first crop averaged 7,236 pounds per acre (44.7 barrels per acre or 160.8 bushels per acre). Ratoon crop yields on all fields averaged 2,310 pounds per acre (14.3 barrels per acre or 51.3 bushels per acre). The total overall yield average on all four fields was 9,546 pounds per acre (58.9 barrels per acre or 212.1 bushels per acre). This overall average was the fifth highest yield during the 27-year tenure of the Verification program.

Economic data continues 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.

Figure 1. Verification Parishes in 2024

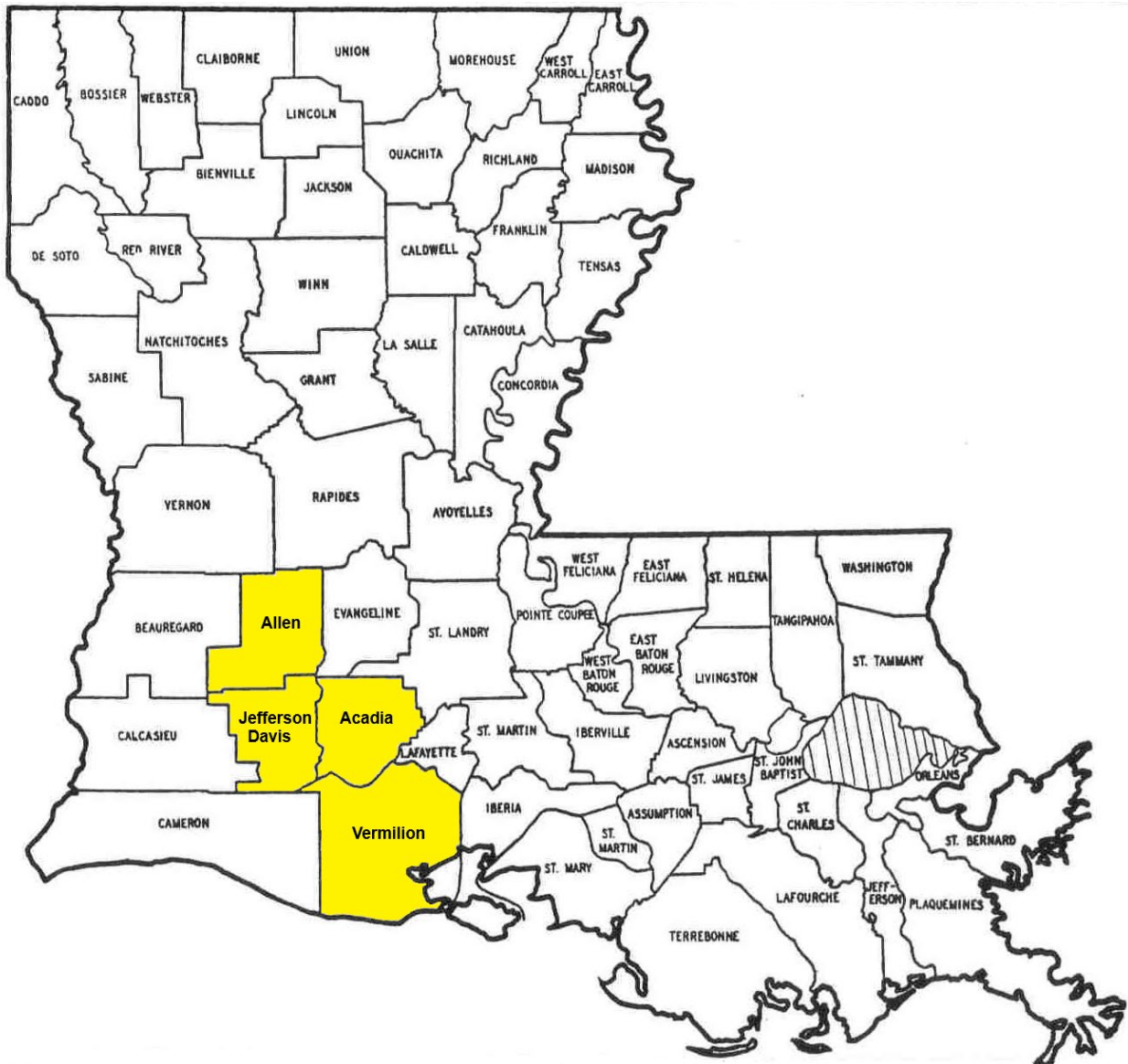


Table 1. Green and Dry Yields for Verification Fields in 2024¹

Parish	Acres	Variety	Green Yield (Cwt./Ac)	Green Yield (Bbl./Ac)	Green Yield (Bu./Ac)	Dry Yield (Cwt./Ac)	Dry Yield (Bbl./Ac)	Dry Yield (Bu./Ac)
Acadia	40	RT7253FP	118.28	73.0	262.8	105.05	64.8	233.4
Allen	20	Avant	90.72	56.0	201.6	86.17	53.2	191.5
Jeff Davis	80	PVL03	111.45	68.8	247.7	104.10	64.3	231.3
Vermilion	95	Avant	90.23	55.7	200.5	86.09	53.1	191.3
Total/Average	235		102.27	63.1	227.3	95.46	58.9	212.1

¹ Yield estimates include first and ratoon crop.

Table 2. 2024 Louisiana Rice Research Verification Program Yield, Milling, and Economic Summary¹

Parish	Variety	Yield at 12% Moisture (Cwt./Ac)	Milling (% Whole / % Total)	Variable Production Costs (\$/Ac) ²	Variable Production Costs (\$/Cwt.) ²	Returns Above Variable Production Costs (\$/Ac) ³
Acadia	RT7253FP	105.05	58.5 / 70.3	\$900.80	\$8.57	\$622.42
Allen	Avant	86.17	68.1 / 73.0	\$914.04	\$10.61	\$335.43
Jeff Davis	PVL03	104.10	N/A	\$1,125.84	\$10.81	\$383.61
Vermilion	Avant	86.09	60.7 / 68.9	\$882.53	\$10.25	\$365.78

¹ Yield estimates include first and ratoon crop.

² Variable production costs include variable costs from land preparation to getting the crop on the truck. They do not include land rent, transporting, drying, storing, or fixed costs (interest and depreciation).

³ Returns above variable production costs were calculated using a selling price of \$14.50 per cwt.

ACADIA PARISH

The Acadia Parish field was in cooperation with producer Colin Lawson, along with his father Mr. Allen Lawson. This was Colin's first year in the program and proved to be a very busy one as he was managing this field on his own. He started the program as a graduating high school senior in the spring and completed the growing season in the fall as a freshman at LSUE. The cooperating extension agent was Jeremy Hebert, county agent in Acadia parish with rice responsibilities in several parishes. This 40-acre field was planted early under ideal conditions. RT 7523FP seed treated with cruiser max, and squad delta was drilled in a prepared seedbed on April 7 at a rate of 21 lb/A. Fertilization and management were recommended and completed according to AgCenter soil test recommendations and plant growth stages. Seed germination and seedling vigor provided a uniform stand with excellent growth. Tillering was excellent and plant growth was vigorous through all stages, with no setbacks. Green ring was reached on May 28, with 50% heading around June 28. A slow drain started on July 23 with harvest of first crop on August 9. The yields were excellent with green weight figures showing 8,683 pounds per acre, 53.6 barrels per acre, or 193.0 bushels per acre. When adjusted to 12% moisture yields are 7,884 pounds per acre, 48.7 barrels per acre, or 175.2 bushels per acre. The first crop stubble was rolled with a 45 ft crumbler and fertilized with 200 pounds per acre of urea and flooded. Stubble growth was very good when all factors are considered, and harvest was on November 27. Yields on the ratoon crop were 3,145 pounds per acre, 19.4 barrels per acre, or 69.9 bushels per acre. When adjusted to 12% moisture yields were 2,621 pounds per acre, 16.2 barrels per acre, or 58.2 bushels per acre.

The Total green yield on this verification field for first and second crop was 11,828 pounds per acre, 73.0 barrels per acre, or 262.8 bushels per acre. When adjusted to 12% moisture yields were 10,505 pounds per acre, 64.8 barrels per acre, or 233.4 bushels per acre. An outstanding yield for any producer, especially for a first-year farm manager. We look forward to working with Colin next year and would compliment his outstanding participation and attentiveness to all producer responsibilities of the Rice Verification Program.

ACADIA PARISH

Cooperator : Colin Lawson
Agent : Jerney Hebert
Consultant :
Field Size (in acres) : 40

Cultural Practices

Item	Value
Variety	RT7523FP
Method of Planting	Drill
Water Management	Delayed Flood
Seeding Rate (in lbs./acre)	21
Date of Planting	April 7, 2024
Date of Emergence	April 13, 2024

Growth and Development

Stage of Production	Observation Date
Green Ring	5/28
PD	5/30
50% Heading	6/28
Drain for Harvest	7/23
Harvest	8/9 and 11/27

Yield, Milling, and Economic Data

	Yield at 12% Moisture (Cwt./Ac)	Milling (% Whole / % Total)	Variable Production Costs (\$/Ac) ¹	Variable Production Costs (\$/Cwt.) ¹	Returns Above Variable Production Costs (\$/Ac) ²
First Crop	78.84	58.5/70.3	\$700.32	\$8.88	\$442.86
2 nd Crop	26.21		\$200.48	\$7.64	\$179.57
Total	105.05		\$900.80	\$8.57	\$622.43

¹ Variable production costs include variable costs from land preparation to getting the crop on the truck. They do not include land rent, transporting, drying, storing, or fixed costs (interest and depreciation).

² Returns above variable production costs were calculated using a selling price of \$14.50 per cwt.

Fertilization							
Date	Source	Rate (lbs./ac)	N (lbs./ac)	P (lbs./ac)	K (lbs./ac)	S (lbs./ac)	Zn (lbs./ac)
First Crop							
4/28	9-23-30	250	23	58	75	0	1
5/14	Urea	200	92	0	0	0	0
5/28	Urea	100	46	0	0	0	0
First Crop Total							
			161	58	75	0	0
Second Crop							
8/13	46-0-0	200	92	0	0	0	0
Totals							
			253	58	75	0	1

Weed Management		
Weeds Present	Date of Treatment Decision	Recommendation
Grasses, Sedges, AW	First Burndown	40 oz glyphosate + 0.75 oz First Shot + 6 oz Penetrator
Grasses & Sedges	Second Burndown	40 oz glyphosate + 6 oz Command + 4 oz Newpath
Grasses & Sedges	5/12	2 pt Prowl + 5 oz Preface

Disease Management		
Diseases Present	Date of Treatment Decision	Recommendation
	6/20	10 oz Propicon + 6 oz Penetrator

Insect Management		
Insects Present	Date of Treatment Decision	Recommendation
	Seed Treatment	Cruiser Max

Table 3. Acadia Verification Field – Estimated Variable Production Costs

Activity	Description	Estimated Costs Per Acre (\$)	Estimated Costs Entire Field ¹ (\$)
First Crop			
Herbicide Burndown #1	40 oz glyphosate + .75 oz 1st shot + 6 oz penetrator	\$10.44	\$417.60
Herbicide Burndown #1	Aerial Application Costs	\$11.86	\$474.40
Herbicide Burndown #2	40 oz glyphosate + 6 oz command +4 oz newpath	\$10.67	\$426.80
Application cost- herbicide	JD 4730 , 90 ft booms	\$2.62	\$104.80
Field Work, Discing etc.	420 HP Tractor & 32 ft. blade disc (2X)	\$24.06	\$962.40
Water leveling, Bed leveling etc	325 HP tractor +24' blade + 420 HP tractor + 34' blade	\$16.50	\$660.00
Ditching	150 HP Tractor , spin ditcher	\$1.84	\$73.60
Seed	21.5 #/A of RT 7523FP + Dermacor	\$148.00	\$5,920.00
Seed treatment (if separate)	N/A		\$0.00
Planting	335 HP Tractor, 30 ' air seeder	\$11.24	\$449.60
Fertilizer	250 #/A 9-23-30 + 1#/A Zn	\$98.83	\$3,953.20
Application cost - fertilizer	Ground Rig Custom application	\$13.50	\$540.00
Herbicide	2 pt/A Prowl + 5oz/A preface	\$25.75	\$1,030.00
Application cost herb	JD 4730 , 90 ft boom	\$2.62	\$104.80
Herbicide			\$0.00
Application cost herb			\$0.00
Herbicide			\$0.00
Application cost - Herbicide			\$0.00
Fertilizer	200#/A urea + agrotain	\$54.60	\$2,184.00
Application cost - fertilizer	Aerial Application Costs	\$11.80	\$472.00
Fertilizer	100 #/A Urea	\$27.30	\$1,092.00
Application cost-fertilizer	Aerial Application Costs	\$7.85	\$314.00
Fertilizer			\$0.00
Application cost-fertilizer			\$0.00
Fungicide	10oz/A Propicon +6oz/A Penetrator	\$6.40	\$256.00
Application cost-fungicide	Aerial Application Costs	\$9.74	\$389.60
Fungicide			\$0.00
Application cost -fungicide			\$0.00
Insecticide			\$0.00
Application cost -insecticide			\$0.00
Harvest -cart 1 w tractor	420 HP Tractor, 885 bu cart Agcenter budgets	\$9.46	\$378.40
Harvest - combine 1	JD S790, 32' Stripper hdr Agcenter budgets	\$54.75	\$2,190.00
Water costs	From AgCenter Budget	\$140.49	\$5,619.60
Sub-Total - First Crop		\$700.32	\$28,012.80
Second Crop			
Ratoon Crop Manipulation	85 HP{ Tractor , 45' Crumbler	\$12.00	\$480.00
Ratoon Crop Fertilizer	200 #/A Urea + Agrotain	\$54.60	\$2,184.00
Ratoon Fertilizer Application Cost	Aerial Application	\$14.62	\$584.80
Ratoon Crop Water Cost	From Agcenter Budgets	\$55.05	\$2,202.00
Ratoon Crop Harvest Cart 1	420 Hp Tractor, 885 bu cart	\$9.46	\$378.40
Ratoon crop Harvest Combine 1	JD S790, 32' Stripper hdr	\$54.75	\$2,190.00
Sub-Total - Second Crop		\$200.48	\$8,019.20
TOTAL		\$900.80	\$36,032.00

¹ The Acadia Verification Field was 40 acres.

ALLEN PARISH

The Allen Parish verification field was located just east of Kinder, La. The cooperator, Aaron Unkel, is a second-year participant in the verification program. Assisting in field visits was Evangeline County agent Vince Deshotel. The 20-acre field was planted with 120 pounds per acre of Avant seed on March 12. Seed treatments included dermacor x-100 and fungicide. Plant emergence was excellent. The stand was uniform however it lacked vigor in some areas. Basic fertilizer consisting of 200 pounds per acre of 12-24-24, impregnated with 8 oz of command herbicide was applied after planting. On April 16, 135 pounds per acre of 41-0-15 fertilizer was applied into a light flood on field. This very uniform field grew well under good management and conditions; however, the tillering was not vigorous. On April 30, just prior to green ring growth stage, 135 pounds per acre of 46-0-25 was applied. Most plants reached green ring on May 7, exhibiting excellent color and root growth. On May 10 an herbicide application of 2.7 oz of grasp + 5.2 oz of herbivore + 24 oz of crop oil was applied to control persistent weeds. In the late boot stage, 11.2 oz tactiban + 11.4 oz topaz was applied for a very scattered sheath blight infestation. The plants reached the "50% heading" stage around June 4. The field was slow drained for harvest beginning around June 28, with harvest on July 15. The field had a green yield of 7,047 pounds per acre or 43.5 bushels per acre at 17.4% moisture. When adjusted to 12% moisture, yields were 6,610 pounds per acre, 40.8 bushels per acre, or 146.9 bushels per acre.

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 pounds per acre and the field flooded up to accelerate plant growth. The growth of the second crop was uniform. The second crop was harvested in early November. Green yields of the second crop were 2,025 pounds per acre, 12.5 barrels per acre, or 45.0 bushels per acre. When adjusted to 12% moisture, yields were 2,007 pounds per acre, 12.4 barrels per acre, or 44.6 bushels per acre. Combined yields of first and second crops at 12% moisture were 8,617 pounds per acre, 53.2 barrels per acre, or 191.5 bushels per acre.

ALLEN PARISH

Cooperator : Aaron Unkel
Agent : Vince Deshotel
Consultant : Chet Marcantel
Field Size (in acres) : 20

Cultural Practices

Item	Value
Variety	Avant
Method of Planting	Water
Water Management	Delayed Flood
Seeding Rate (lbs./acre)	120
Date of Planting	March 12, 2024
Date of Emergence	March 22, 2024

Growth and Development

Stage of Production	Observation Date
Green Ring	5/7
PD	5/10
50% Heading	6/4
Drain for Harvest	7/2
Harvest	7/15 & 11/09

Yield, Milling, and Economic Data

	Yield at 12% Moisture (Cwt./Ac)	Milling (% Whole / % Total)	Variable Production Costs (\$/Ac) ¹	Variable Production Costs (\$/Cwt.) ¹	Returns Above Variable Production Costs (\$/Ac) ²
First Crop	66.10	68.2 / 72.9	\$725.65	\$10.98	\$232.80
2 nd Crop	20.07		\$188.39	\$9.39	\$102.63
Total	105.05		\$914.04	\$10.61	\$335.43

¹ Variable production costs include variable costs from land preparation to getting the crop on the truck. They do not include land rent, transporting, drying, storing, or fixed costs (interest and depreciation).

² Returns above variable production costs were calculated using a selling price of \$14.50 per cwt.

Fertilization							
Date	Source	Rate (lbs./ac)	N (lbs./ac)	P (lbs./ac)	K (lbs./ac)	S (lbs./ac)	Zn (lbs./ac)
First Crop							
3/12	12-24-24	200	24	48	48	0	0
4/16	41-0-15	135	56	0	21	0	0
4/31	46-0-25	135	62	0	34	0	0
First Crop Total							
			142	48	103	0	0
Second Crop							
8/13	46-0-0	200	92	0	0	0	0
Totals							
			234	48	103	0	0

Weed Management		
Weeds Present	Date of Treatment Decision	Recommendation
Grasses, Sedges, AW	3/12	8 oz Command impregnated on fertilizer
	5/10	2.7 oz Grasp + 5.2 oz Herbivore + 24 oz oil

Disease Management		
Diseases Present	Date of Treatment Decision	Recommendation
Sheath Blight	6/4	11.2 oz Tactiban + 11.4 oz Topaz

Insect Management		
Insects Present	Date of Treatment Decision	Recommendation
RRW Prevention	At Planting	Dermacor X-100

Table 4. Allen Verification Field – Estimated Variable Production Costs

Activity	Description	Estimated Costs Per Acre (\$)	Estimated Costs Entire Field ¹ (\$)
First Crop			
Herbicide Burndown			
Application cost- herbicide			
Field Work, Discing etc.	350 HP Tractor + 34 ft disc (2X)	\$24.06	\$481.20
Water leveling, Bed leveling etc	350 HP Tractor + 32 ft water level	\$37.31	\$746.20
Ditching	100 HP Tractor + Ditcher	\$1.84	\$36.80
Seed	120 #/A Avant + dermacor X-100	\$84.40	\$1,688.00
Seed treatment (if separate)			
Planting	Aerial Application Costs	\$15.73	\$314.60
Fertilizer	200 #/A 12-24-20 + 8 oz Command	\$81.00	\$1,620.00
Application cost - fertilizer	Aerial Application Costs	\$17.30	\$346.00
Herbicide	8 oz Command impregnated on fertilizer	\$8.45	\$169.00
Application cost herb	N/A		
Herbicide	2.7oz grasp + 5.2oz Herbivore + 24 oz oil	\$46.00	\$920.00
Application cost herb	Aerial Application Costs	\$11.35	\$227.00
Fertilizer	135 #/A 41-0-15	\$39.40	\$788.00
Application cost - fertilizer	Aerial Application Costs	\$17.30	\$346.00
Fertilizer	135 #/A 46-0-25	\$43.00	\$860.00
Application cost - fertilizer	Aerial Application Costs	\$17.30	\$346.00
Fertilizer			
Application cost-fertilizer			
Fertilizer			
Application cost-fertilizer			
Fungicide	11.2 oz/A Tactaban + 11.42 oz Topaz	\$22.94	\$458.80
Application cost-fungicide	Aerial Application Costs	\$11.35	\$227.00
Fungicide			
Application cost -fungicide			
Insecticide			
Application cost -insecticide			
Harvest -cart 1 w tractor	From Agcenter Budget	\$7.70	\$154.00
Harvest - combine 1	From Agcenter Budget	\$54.75	\$1,095.00
Water costs	From Agcenter Budget	\$184.47	\$3,689.40
Sub-Total - First Crop		\$725.65	\$14,513.00
Second Crop			
Ratoon Crop Manipulation	150 Hp Tractor + 40 ft Roller	\$5.79	\$115.80
Ratoon Crop Fertilizer	200 #/A Urea	\$53.10	\$1,062.00
Ratoon Fertilizer Application Cost	Ground Rig	\$12.00	\$240.00
Ratoon Crop Water Cost	From Agcenter Budget	\$55.05	\$1,101.00
Ratoon Crop Harvest Cart 1	From Agcenter Budget	\$7.70	\$154.00
Ratoon crop Harvest Combine 1	From Agcenter Budget	\$54.75	\$1,095.00
Sub-Total - Second Crop		\$188.39	\$3,767.80
TOTAL		\$914.04	\$18,280.80

¹ The Allen Verification Field was 20 acres.

JEFF DAVIS PARISH

A new participant in the verification program was Mr. Connor Popeck from Gueydan. Assisting with checking the field and making management recommendations was Jimmy Meaux, county agent from Calcasieu parish. Connor's 80 acre field, located near Roanoke, was drilled at 55 pounds per acre with dermacor and AV1011 treated PVL03 seed on March 1. Cool and windy early season weather delayed some field activities but didn't really slow any seedling vigor or plant growth. Burndown and early season weed control was accomplished with glyphosate, sharpen and command. Primary weeds included sprangletop, off type rice, sedge, barnyard grass and broad leaf signal grass. Provisia and gambit also were used in subsequent applications. Plant growth and vigor were enhanced with multiple fertilizer applications based on soil test results as well as plant growth stages during the season. A fungicide was applied just prior to heading after a very few positive findings of sheath blight lesions very low in the canopy. The crop reached 50% heading around June 18. After panicle fill and maturing, the field was drained on July 2. Harvest of the first crop started on July 29 and was completed the following day on July 30. After harvest, the stubble was rolled with a 40 foot crumbler and 200 pounds of Urea per acre was applied followed by flood-up. The ratoon crop was very uniform and vigorous in growth and harvested in early November.

Yields were outstanding with the first crop green yield averaging 8,472 pounds per acre, 52.3 barrels per acre, or 188.3 bushels per acre. When adjusted to 12% moisture, yields were 7,857 pounds per acre, 48.5 barrels per acre, or 174.6 bushels per acre. Second or ratoon crop green yields were 2,673 pounds per acre, 16.5 barrels per acre, or 59.4 bushels per acre. When adjusted to 12% moisture, yields were 2,553 pounds per acre, 15.8 barrels per acre, or 56.7 bushels per acre.

Combined green yields (first crop plus ratoon crop) were 11,145 pounds per acre, 68.8 barrels per acre, or 247.7 bushels per acre. When adjusted to 12% moisture, combined yields were 10,410 pounds per acre, 64.3 barrels per acre, or 231.3 bushels per acre.

JEFF DAVIS PARISH

Cooperator : Connor Popeck
Agent : Jimmy Meaux
Consultant : Chet Marcantel
Field Size (in acres) : 80

Cultural Practices

Item	Value
Variety	PVL03
Method of Planting	Drilled
Water Management	Delayed Flood
Seeding Rate (lbs./acre)	55
Date of Planting	March 1, 2024
Date of Emergence	March 12, 2024

Growth and Development

Stage of Production	Observation Date
Green Ring	5/14
PD	5/16
50% Heading	6/18
Drain for Harvest	7/2
Harvest	7/29-30

Yield, Milling, and Economic Data

	Yield at 12% Moisture (Cwt./Ac)	Milling (% Whole / % Total)	Variable Production Costs (\$/Ac) ¹	Variable Production Costs (\$/Cwt.) ¹	Returns Above Variable Production Costs (\$/Ac) ²
First Crop	78.57	N/A	\$929.58	\$11.83	\$209.69
2 nd Crop	25.53		\$196.26	\$7.69	\$173.93
Total	104.10		\$1,125.84	\$10.81	\$383.61

¹ Variable production costs include variable costs from land preparation to getting the crop on the truck. They do not include land rent, transporting, drying, storing, or fixed costs (interest and depreciation).

² Returns above variable production costs were calculated using a selling price of \$14.50 per cwt.

Fertilization							
Date	Source	Rate (lbs./ac)	N (lbs./ac)	P (lbs./ac)	K (lbs./ac)	S (lbs./ac)	Zn (lbs./ac)
First Crop							
4/10	7-18-36	25	18	45	90	0	10
4/20	46%	200	92	0	0	0	0
4/30	41-0-0	100	41	0	0	0	0
5/12	46%	100	46	0	0	0	0
6/18	7-18-36	250	18	45	90	0	10
First Crop Total							
			215	90	180	0	20
Second Crop							
	46%	200	92	0	0	0	0
Totals							
			307	90	180	0	20

Weed Management		
Weeds Present	Date of Treatment Decision	Recommendation
Grasses, sedge sprangletop, off type rice, aster	3/1	32 oz Glyphosate + 2 oz Sharpen + 8 oz Command
	4/7	11 oz Provisia + 1oz Gambit + no drift
	5/8	10 oz Provisia + oil + no drift

Disease Management		
Diseases Present	Date of Treatment Decision	Recommendation
Sheath Blight	6/6	10 oz Tactiban + 9.4 oz Topaz

Insect Management		
Insects Present	Date of Treatment Decision	Recommendation
RRW Prevention	3/1	Dermacor X-100

Table 5. Jeff Davis Verification Field – Estimated Variable Production Costs

		Estimated Costs	Estimated Costs
Activity	Description	Per Acre (\$)	Entire Field ¹ (\$)
First Crop			
Herbicide Burndown	32 oz/A Rdup + 2 oz Sharpen + 8 oz Command	\$26.00	\$2,080.00
Application cost- herbicide	Aerial application	\$12.00	\$960.00
Field Work, Discing etc.	Disc 420 HPTractor, 42 ft disc	\$12.03	\$962.40
Water leveling, Bed leveling etc?	420 HP Tractor & 32 ft. blade	\$12.00	\$960.00
Ditching	105 HP Tractor + Ditcher	\$1.85	\$148.00
Seed	55 #/A of PVL03 + Dermacor X-100 + AV1011 + fung	\$107.00	\$8,560.00
Seed treatment (if separate)			
Planting Costs	420 Hp Tractor & 42 ft drill	\$30.00	\$2,400.00
Fertilizer	250 #/A 7-18-36 + Zn	\$85.00	\$6,800.00
Application cost-fertilizer	Aerial Application Costs	\$25.00	\$2,000.00
Herbicide	11 oz/A Provisia + 1 oz/A Gambit + oil + no drift	\$35.00	\$2,800.00
Application cost herb	Aerial Application Costs	\$12.00	\$960.00
Herbicide	10 oz/A Provisia +oil + no drift	\$23.00	\$1,840.00
Application cost herb	Aerial Application Costs	\$12.00	\$960.00
Fertilizer	100 #/A 41-0-0 + Anvol	\$65.00	\$5,200.00
Application cost - Fertilizer	Aerial Application Costs	\$12.00	\$960.00
Fertilizer	200 #/A Urea	\$66.00	\$5,280.00
Application cost - fertilizer	Ground Rig Air Flow	\$12.00	\$960.00
Fertilizer	100 #/A Urea	\$33.00	\$2,640.00
Application cost-fertilizer	Aerial Application Costs	\$10.00	\$800.00
Fertilizer	250 #/A 7-18-36 + Zn	\$85.00	\$6,800.00
Application cost-fertilizer	Aerial Application Costs	\$12.00	\$960.00
Fungicide	10 oz/A TetraBand + 9.4 oz Topaz	\$27.00	\$2,160.00
Application cost-fungicide	Aerial Application Costs	\$10.00	\$800.00
Fungicide			
Application cost -fungicide			
Insecticide			
Application cost -insecticide			
Harvest -cart 1 w tractor	From AgCenter Budget	\$9.46	\$756.80
Harvest - combine 1	From AgCenter Budget	\$54.75	\$4,380.00
Water costs	From AgCenter Budget	\$140.49	\$11,239.20
Sub-Total - First Crop		\$929.58	\$74,366.40
Second Crop			
Ratoon Crop Manipulation	105 HP Tractor , 40 ft crumbler	\$12.00	\$960.00
Ratoon Crop Fertilizer	200 #/A Urea + Anvol	\$55.00	\$4,400.00
Ratoon Fertilizer Application Cost	Aerial Application Costs	\$10.00	\$800.00
Ratoon Crop Water Cost	Agcenter Budgets	\$55.05	\$4,404.00
Ratoon Crop Harvest Cart 1	Agcenter Budgets	\$9.46	\$756.80
Ratoon crop Harvest Combine 1	Agcenter Budgets	\$54.75	\$4,380.00
Sub-Total - Second Crop		\$196.26	\$15,700.80
TOTAL		\$1,125.84	\$90,067.20

¹ The Jeff Davis Verification Field was 80 acres.

VERMILION PARISH

The Vermilion Parish verification cooperator was Sandrus Stelly, a second-time participant in the program who farms in a close partnership with his brother Adler Stelly, a previous participant in the verification program. This field was located south of Kaplan on Hwy 35 east of Adlers house and north of Five Oaks grocery. The consulting county agent on this field was Jeremy Hebert, county agent with rice responsibilities for multiple parishes in Southwest Louisiana.

The 95 acre field was water planted to the variety Avant at 100 pounds per acre on April 2. The seed was treated with Dermacor XL and AV1011 bird repellent. On April 22, 200 pounds of urea was applied and made an impressive impact on the young rice. Then on May 9, 200 pounds of 19-19-19 fertilizer, impregnated with 10 oz of Loyant, was applied for control of the very few grasses and weeds present in the field. Weed control proved excellent. From this point on this rice stand exploded. Tillering was excellent, as well as overall root and stem growth. Green ring was reached on May 21 with 50% heading reached on June 10. Very little evidence of disease was observed but a fungicide application was made on June 11 with 20 oz of Quilt Excel. This was justified due to the slight disease presence and a very prolonged wet weather pattern at the time. There was no evidence of rice stink bug infestation at any significant level during the heading and panicle fill stages. Expenses were kept to a minimum with basic fertilizer impregnated with herbicide, 176 pounds of nitrogen applied in split applications, and a fungicide application being the only inputs after planting, other than flood cost. The field was drained on July 2, with harvest occurring on July 31. First harvest yield was 6,917 pounds per acre or 42.7 barrels per acre at 16.5% moisture. When adjusted to 12% moisture, first crop yields were calculated as 6,572 pounds per acre, 40.6 barrels per acre, or 146.0 bushels per acre.

After the first crop was harvested, the stubble was fertilized with urea at 163 pounds per acre and then the field was flooded up. The ratoon crop was harvested in late October with green yields of 2,106 pounds per acre, 13.0 barrels per acre, or 46.8 bushels per acre. When adjusted to 12% moisture, the ratoon crop yield was 2,037 pounds per acre, 12.6 barrels per acre, or 45.3 bushels per acre.

Combined green yield totals for the first and second (ratoon) crops were 9,023 pounds per acre, 55.7 barrels per acre, or 200.5 bushels per acre. When adjusted to 12% moisture the combined yield was 8,609 pounds per acre, 53.1 barrels per acre, or 191.3 bushels per acre.

VERMILION PARISH

Cooperator : Sandrus & Adler Stelly
Agent : Jeremy Hebert
Consultant :
Field Size (in acres) : 95

Cultural Practices

Item	Value
Variety	Avant
Method of Planting	Water Planted
Water Management	Delayed Flood
Seeding Rate (lbs./acre)	100
Date of Planting	April 2, 2024
Date of Emergence	April 13, 2024

Growth and Development

Stage of Production	Observation Date
Green Ring	5/21
PD	5/24
50% Heading	6/10
Drain for Harvest	7/2
Harvest	7/31

Yield, Milling, and Economic Data

	Yield at 12% Moisture (Cwt./Ac)	Milling (% Whole / % Total)	Variable Production Costs (\$/Ac) ¹	Variable Production Costs (\$/Cwt.) ¹	Returns Above Variable Production Costs (\$/Ac) ²
First Crop	65.72	60.7 / 68.9	\$709.28	\$10.79	\$243.66
2 nd Crop	20.37		\$173.25	\$8.50	\$122.12
Total	86.09		\$882.53	\$10.25	\$365.78

¹ Variable production costs include variable costs from land preparation to getting the crop on the truck. They do not include land rent, transporting, drying, storing, or fixed costs (interest and depreciation).

² Returns above variable production costs were calculated using a selling price of \$14.50 per cwt.

Fertilization							
Date	Source	Rate (lbs./ac)	N (lbs./ac)	P (lbs./ac)	K (lbs./ac)	S (lbs./ac)	Zn (lbs./ac)
First Crop							
4/22	Urea	200	92	0	0	0	0
5/9	19-19-19	200	38	38	38	0	0
5/24	33-0-0	100	33	0	0	0	0
First Crop Total							
			163	38	38	0	0
Second Crop							
	Urea	175	80	0	0	0	0
Totals							
			243	38	38	0	0

Weed Management		
Weeds Present	Date of Treatment Decision	Recommendation
Sedge, grasses, AW	5/9	10 oz Loyant impregnated on fertilizer

Disease Management		
Diseases Present	Date of Treatment Decision	Recommendation
Sheath Blight	6/11	20 oz Quilt Excel

Note: Recommendation made due to severe kernel smut pressure in adjoining field last season.

Insect Management		
Insects Present	Date of Treatment Decision	Recommendation
RRW Prevention	4/2	Dermacor X-100

Table 6. Vermilion Verification Field – Estimated Variable Production Costs

Activity	Description	Estimated Costs Per Acre (\$)	Estimated Costs Entire Field ¹ (\$)
First Crop			
Herbicide Burndown			
Application cost- herbicide			
Field Work, Discing etc.	420 HP Tractor + 30 ft disc (2X)	\$43.72	\$4,153.40
Water leveling, Hipping rows	420 Hp Tractor + 20 ft water level	\$52.69	\$5,005.55
Ditching	150 HP Tractor + Ditcher	\$1.84	\$174.80
Seed	100 #/A Avant seed + AV1011	\$77.00	\$7,315.00
Seed treatment (if separate)			
Planting	Aerial Application Costs	\$11.50	\$1,092.50
Fertilizer	200 #/A Urea	\$55.00	\$5,225.00
Application cost - fertilizer	Aerial Application Costs	\$11.75	\$1,116.25
Herbicide	12 oz/A Loyant impregnated on fertilizer	\$31.66	\$3,007.70
Application cost herb	N/A		
Herbicide			
Application cost herb			
Herbicide			
Application cost - Herbicide			
Fertilizer	200 #/A 19-19-19 impregnated with 10 oz Loyant	\$94.00	\$8,930.00
Application cost - fertilizer	Aerial Application Costs	\$11.75	\$1,116.25
Fertilizer	100 #/A 33-0-0	\$27.00	\$2,565.00
Application cost-fertilizer	Aerial Application Costs	\$11.50	\$1,092.50
Fertilizer			
Application cost-fertilizer			
Fungicide	20 oz/A Quilt XL	\$21.45	\$2,037.75
Application cost-fungicide	Aerial Application Costs	\$11.50	\$1,092.50
Fungicide			
Application cost -fungicide			
Insecticide			
Application cost -insecticide			
Harvest -cart 1 w tractor	From AgCenter Budgets	\$7.70	\$731.50
Harvest - combine 1	From AgCenter Budgets	\$54.75	\$5,201.25
Water costs	From AgCenter Budgets	\$184.47	\$17,524.65
Sub-Total - First Crop		\$709.28	\$67,381.60
Second Crop			
Ratoon Crop Manipulation	N/A		
Ratoon Crop Fertilizer	175 #/A Urea	\$44.00	\$4,180.00
Ratoon Fertilizer Application Cost	Aerial Application Cost	\$11.75	\$1,116.25
Ratoon Crop Water Cost	From AgCenter Budgets	\$55.05	\$5,229.75
Ratoon Crop Harvest Cart 1	From AgCenter Budgets	\$7.70	\$731.50
Ratoon crop Harvest Combine 1	From AgCenter Budgets	\$54.75	\$5,201.25
Sub-Total - Second Crop		\$173.25	\$16,458.75
TOTAL		\$882.53	\$83,840.35

¹ The Vermilion Verification Field was 95 acres.

Table 7. Summary of Management Practices and Economic Data for 2024 Verification Fields

Parish	Planting Method	Rice Variety	Planting Date	Water Management	Seed	Planting	Herbicide	Herbicide
					Costs (\$/Ac)	Costs (\$/Ac)	Costs (\$/Ac)	Application Costs (\$/Ac)
Acadia	Drill	RT7253FP	4/7/24	Delayed	\$148.00	\$11.24	\$46.06	\$17.10
Allen	Water	Avant	3/12/24	Pinpoint	\$84.40	\$15.75	\$54.45	\$19.80
Jeff Davis	Drill	PVL03	3/01/24	Delayed	\$107.00	\$30.00	\$84.00	\$36.00
Vermilion	Water	Avant	4/2/24	Delayed	\$77.00	\$11.50	\$31.66	N/A

Table 7. Summary of Management Practices and Economic Data for 2024 Verification Fields (cont.)

Parish	Fertilizer	Fertilizer	Fungicide	Fungicide	Insecticide	Insecticide	Water
	Application Costs (\$/Ac)	Application Costs (\$/Ac)	Application Costs (\$/Ac)	Application Costs (\$/Ac)	Application Costs (\$/Ac)	Application Costs (\$/Ac)	Application Costs (\$/Ac)
Acadia	\$235.53	\$47.77	\$6.40	\$9.74	N/A	N/A	\$195.54
Allen	\$216.50	\$63.90	\$22.94	\$11.35	N/A	N/A	\$239.52
Jeff Davis	\$389.00	\$81.00	\$27.00	\$10.00	N/A	N/A	\$195.54
Vermilion	\$220.00	\$46.75	\$21.45	\$11.50	N/A	N/A	\$239.52

Table 7. Summary of Management Practices and Economic Data for 2024 Verification Fields (cont.)

Parish	Harvest Dates	Yield at 12%	Yield at 12%	Yield at 12%	Milling (% Whole/% Total)	Variable Production Costs (\$/Ac)	Variable Production Costs (\$/Cwt)	Returns Above Variable Production Costs (\$/Ac)
		Moisture (Cwt./Ac)	Moisture (Bbl./Ac)	Moisture (Bu./Ac)		Costs (\$/Ac)	Costs (\$/Cwt)	Costs (\$/Ac)
Acadia	8/9 & 11/27	105.50	64.8	233.4	58.5 / 70.3	\$900.80	\$8.57	\$622.43
Allen	7/15 & 11/03	86.17	53.1	191.5	68.1 / 73.0	\$914.04	\$10.61	\$335.43
Jeff Davis	7/29 & 11/15	104.10	64.3	231.3	N/A	\$1,125.84	\$10.81	\$383.61
Vermilion	7/31 & 10/30	86.09	53.1	191.3	60.7 / 68.9	\$882.53	\$10.25	\$365.78

Table 8. 1998 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia*	53.0	32.8	118.1	5,314
Avoyelles	32.5	42.9	154.4	6,950
Calcasieu*	60.0	34.1	122.8	5,524
East Carroll	33.9	41.1	148.0	6,658
Evangeline	33.0	42.9	154.4	6,950
Jefferson Davis*	61.8	37.3	134.3	6,043
Madison	36.6	39.0	140.4	6,318
Morehouse	63.0	33.8	121.7	5,476
St. Landry	37.1	38.2	137.5	6,188
Vermilion	16.7	29.4	105.8	4,763
TOTALS	427.6	37.2	133.7	6,018

*Yield includes second crop.

Table 9. 1999 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia*	31.1	37.4	134.6	6,059
Avoyelles	32.5	46.6	167.8	7,549
Calcasieu	49.3	34.6	124.6	5,605
Catahoula	30.4	33.4	120.2	5,411
East Carroll	36.1	47.0	169.2	7,614
Evangeline	22.3	43.1	155.2	6,982
Jefferson Davis*	26.6	30.8	110.9	4,990
Madison	38.1	39.0	140.4	6,318
St. Landry	30.1	38.8	139.7	6,286
Vermilion	23.8	36.5	131.4	5,913
TOTALS	320.3	38.7	139.4	6,273

*Yield includes second crop.

Table 10. 2000 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia	53.3	39.4	141.8	6,383
Avoyelles	63.2	36.7	132.1	5,945
Calcasieu	22.1	25.1	90.4	4,066
Catahoula	39.6	36.4	131.0	5,897
East Carroll	45.1	49.1	176.8	7,956
Evangeline	19.9	38.2	137.5	6,188
Jefferson Davis	30.6	26.7	96.1	4,325
Morehouse	27.7	28.3	101.9	4,585
St. Landry	70.7	39.2	141.1	6,350
Vermilion*	21.6	37.7	135.7	6,107
TOTALS	393.8	35.7	128.4	5,780

*Yield includes second crop.

Table 11. 2001 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia*	60.6	50.8	182.9	8,230
Allen	41.6	35.1	126.4	5,686
Avoyelles	63.2	38.1	137.2	6,172
Calcasieu*	61.9	39.4	142.0	6,388
Concordia	79.6	36.1	130.1	5,853
Evangeline*	20.8	52.7	189.7	8,538
Jefferson Davis*	21.6	57.3	206.4	9,289
Richland	65.9	46.0	165.5	7,447
St. Landry*	40.6	51.1	184.0	8,282
Vermilion*	33.3	52.4	188.7	8,493
TOTALS	489.1	45.9	165.3	7,438

*Yield includes second crop.

Table 12. 2002 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia*	38.4	49.8	179.3	8,068
Allen*	25.1	46.0	165.6	7,452
Avoyelles	37.4	49.9	179.6	8,084
Beauregard*	49.5	53.1	191.2	8,602
Calcasieu*	41.4	42.4	152.6	6,869
Concordia	67.6	48.2	173.5	7,808
Evangeline	42.0	37.6	135.4	6,091
Jefferson Davis*	31.7	45.0	162.0	7,290
Richland	35.8	42.1	151.5	6,819
St. Landry	32.7	48.8	175.7	7,906
Vermilion*	32.0	49.8	179.4	8,072
TOTALS	433.6	46.6	167.8	7,551

*Yield includes second crop.

Table 13. 2003 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia	57.2	44.0	158.4	7,128
Allen*	35.7	46.1	166.0	7,469
Avoyelles	37.4	50.1	180.4	8,116
Beauregard*	45.7	48.7	175.2	7,884
Concordia	79.5	49.2	177.1	7,970
Evangeline*	48.4	44.5	160.2	7,209
Jefferson Davis*	52.9	28.7	103.3	4,649
Richland	40.2	44.7	160.8	7,234
St. Landry*	32.7	61.1	220.0	9,898
Vermilion*	33.0	40.0	144.0	6,480
TOTALS	462.7	45.7	164.5	7,404

*Yield includes second crop.

Table 14. 2004 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Allen*	53.2	40.9	147.1	6,620
Avoyelles	33.3	32.8	118.0	5,307
Beauregard*	21.8	42.5	153.3	6,899
Concordia	82.3	36.0	130.0	5,843
East Carroll	54.8	45.8	165.0	7,427
Evangeline	30.7	34.8	125.2	5,638
Jefferson Davis*	42.3	38.5	138.6	6,237
Natchitoches	47.2	44.1	158.8	7,144
St. Landry*	60.1	65.1	234.3	10,543
Vermilion*	30.0	42.1	151.6	6,824
TOTALS	455.7	42.3	152.2	6,848

*Yield includes second crop.

Table 16. 2005 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
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 17. 2006 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
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 18. 2007 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Avoyelles	40.9	56.7	204	9,187
Concordia	53.8	53.6	193	8,680
East Carroll	23.0	49.0	176	7,917
Evangeline – St. Landry	33.9	50.1	180	8,122
Jefferson Davis*	38.9	55.8	201	9,046
Vermilion*	36.6	46.0	166	7,451
West Carroll	40.2	45.4	164	7,356
TOTALS	267.3	51.2	184	8,293

*Yield includes second crop.

Table 19. 2008 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Avoyelles	40.9	47	170	7,657
Calcasieu*	55.1	51	183	8,247
Concordia	54.7	44	160	7,178
Evangeline	46.4	42	152	6,840
Madison	41.5	51	182	8,208
Jefferson Davis*	37.7	52	189	8,481
St. Landry	60.2	48	173	7,801
Vermilion*	51.1	70	252	11,359
TOTALS	387.6	51	183	8,228

*Yield includes second crop.

Table 20. 2009 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia*	56.6	70.9	255.3	11,489
Avoyelles	28.6	50.7	182.5	8,214
Calcasieu*	41.7	58.1	209.3	9,418
Concordia	57.0	49.6	178.6	8,035
East Carroll	33.6	41.3	148.7	6,692
Evangeline*	22.5	61.7	222.2	9,999
Madison	29.0	50.4	181.5	8,168
St. Landry	49.4	49.3	177.5	7,987
Vermilion*	41.5	66.9	241.0	10,843
TOTALS	359.9	56.0	201.7	9,078

*Yield includes second crop.

Table 21. 2010 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Avoyelles	41.8	49.7	179.0	8,057
Jefferson Davis*	35.8	67.5	243.1	10,941
St. Landry	31.3	44.3	159.4	7,171
TOTALS	108.9	54.0	194.4	8,750

*Yield includes second crop.

Table 22. 2011 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Allen	23.2	48.1	173.3	7,799
Cameron*	17.6	57.6	207.4	9,332 ¹
Madison ¹	10.5	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

*Yield includes second crop.

¹ Yield calculated on 10.5 acres; total field acres was 73.4.

Table 23. 2012 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Allen	30.7	45.6	164.2	7,391
Cameron*	35.7	42.3	152.4	6,858
Concordia	37.4	45.2	162.7	7,321
St. Landry*	44.1	64.9	233.6	10,510
Vermilion	16.5	44.1	158.6	7,137
TOTALS	121.0	49.4	177.9	8,005

*Yield includes second crop.

Table 24. 2013 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Evangeline	38.0	51.7	186.0	8,368
Jeff Davis*	39.3	65.1	234.2	10,541
St. Landry*	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

*Yield includes second crop.

Table 25. 2014 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
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

*Yield includes second crop.

Table 26. 2015 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia*	40.5	85.5	308	13,867
Cameron*	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

*Yield includes second crop.

Table 27. 2016 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia*	45	74.34	267.6	12,040
Cameron*	25	61.5	221.4	9,960
Concordia	18	48.9	176	7,930
Vermilion ¹	18			
Richland	24	42	151	6,902
TOTALS²	112	60.4	217	9,814

*Yield includes second crop.

¹ Not harvested due to flood.

² Includes harvested acres only.

Table 28. 2017 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Avoyelles	31.6	35.12	137.23	6,475
Calcasieu*	19.5	54.79	197.3	8,887
East Carroll ¹	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

*Yield includes second crop.

¹ Yield was calculated on 5 acres; total field area was 90 acres.

Table 29. 2018 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Avoyelles	31	46.47	167.2	7,528
Calcasieu*	16.9	47.7	171.3	7,730
East Carroll ¹	6	56.2	202.6	9,117
Vermilion	30	49.2	177.2	7,978
TOTALS	83.9	48.3	174.1	7,843

*Yield includes second crop.

¹ Yield was calculated on 6 acres; total field area was 90 acres.

Table 30. 2019 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia	8	37.4	134.6	6,060
Evangeline	31	37.4	134.6	6,060
Jeff Davis*	18	54.1	194.6	8,766
Morehouse	13	38.9	140.2	6,309
TOTALS	70	41.96	151	6,801

*Yield includes second crop.

Table 31. 2020 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia	42	54.6	197	8,849
Evangeline	46	40.16	144.5	6,506
Jeff Davis	9.5	41.5	149	6,722
Vermilion	30	47.7	171	7,727
TOTALS	127.5	46.78	168.3	7,581

* No ratoon crop was harvested in the verification program in 2020.

Table 32. 2021 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia	82	48.3	174	7,837
Allen*	30	58.6	211	9,499
Calcasieu	18.5	48.4	174	7,840
Vermilion*	63	52.9	190.2	8,588
TOTALS	193.5	51.4	185	8,339

* Yield includes second crop.

Table 33. 2022 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia	50	48.3	174	7,827
Allen	150	40	143	6,423
Evangeline	61.6	46	165	7,460
St. Landry	45	48	173	7,776
TOTALS	306.6	43.5	156.6	7,050

* No ratoon crop was harvested in the verification program in 2022.

Table 34. 2023 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia	50	33	118	5660
Allen*	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	306.6	43.5	156.6	7,050

* Yield includes second crop.

Table 35. 2024 Verification Acres and Yields

Parish	Acres	Yield at 12% Moisture (Bbl./Ac)	Yield at 12% Moisture (Bu./Ac)	Yield at 12% Moisture (Lbs./Ac)
Acadia*	40	64.8	233.4	10,505
Allen*	20	53.2	191.5	8,617
Jeff Davis*	80	64.3	231.3	10,410
Vermilion*	95	53.1	191.3	8,609
TOTALS	235	58.9	212.1	9,546

* Yield includes second crop.

Table 36. Rice Research Verification Acreage and Yield Summary, 1998 - 2024

Year	Verification Totals Acres	Verification Totals Yield (Lbs./Ac)	Verification Parish Totals ¹ Acres	Verification Parish Totals ¹ Yield (Lbs./Ac)	Difference In Yields (Lbs./Ac)
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	241,093	6,075	726
2020	127.5	7,581	269,997	6,798	783
2021	193.5	8,339	162,350	6,742	1,597
2022	306.6	7,050	172,426	6,787	263
2023	153.9	6,049	229,676	7,215	1,166
2024	235.0	9,546	*	*	*
TOTALS	7,143.8		6,301,686		

* Not available at press time.

¹ The estimate of yield for Verification Parish Totals is derived by first multiplying the acreage of each participating parish by the average yield reported for the parish in the LSU Ag Summary publication to get an estimate of total production for the parish. Then, total production for each participating parish is summed to get a total production estimate across all participating parishes. Finally, the total production estimate is divided by the total acreage of the participating parishes to get an average yield across the participating parishes.

CRAWFISH PRODUCTION AND DEMONSTRATION IN 2024

T. Fontenot, M. Shirley, C. Benoit, and K. Guidry

INTRODUCTION

Given the increased role crawfish production has played in most rice farming operations, the H. Rouse Caffey Rice Research Station remains committed to attempting to address the issues and challenges faced by crawfish producers. Efforts in this area are led by Mr. Mark Shirley and Mr. Todd Fontenot (Crawfish Production Specialists). Mr. Shirley and Mr. Fontenot develop plans for implementing demonstration trials to examine the various production management issues relayed to them by producers. In addition, they work collaboratively with other researchers to utilize crawfish infrastructure available at the Rice Research Station's South Farm to implement applied research and demonstration trials. The Rice Research Station's South Farm has two, 14-acre crawfish ponds along with other research infrastructure and labs to address issues and challenges. The crawfish ponds are rotated between rice and crawfish production to mimic the rice/crawfish rotation production system that comprises the vast majority of the crawfish production in the state.

Under the direction of Mr. Shirley and Mr. Fontenot, several demonstration and applied research projects were planned for the 2023/2024 production. These included 1) demonstrating the impact of fertilization on rice stubble on both crawfish harvest levels and crawfish size, 2) testing and demonstrating the accuracy of a pondside test for determining the presence of White Spot Syndrome Virus (WSSV), and 3) looking at different potential control practices for apple snails. These plans involved utilizing crawfish infrastructure at the Rice Research Station as well as on-farm trials with collaborating crawfish producers. Unfortunately, the excessive drought and heat experienced in the summer and fall of 2023 significantly impacted crawfish production at the Rice Research Station and as well as throughout much of the crawfish industry. This limited the ability to effectively implement the planned demonstration and research trials and, in many cases, eliminated the ability to effectively implement and complete planned trials.

One planned project that was able to be completed was research directed by Dr. Blake Wilson (Entomologist). Dr. Wilson utilized the crawfish wet lab at the Rice Research Station to determine lethal levels of Copper Sulfate on young crawfish. This trial is a component of the comprehensive research Dr. Wilson has initiated to try to identify potential management strategies for apple snail control. Identifying the lethality on young crawfish is needed to define optimal application timing of Copper Sulfate to control apple snails while having minimal impact on crawfish production.

2023/24 PRODUCTION YEAR

Crawfish production at the Rice Research Station during the 2023/2024 production year faced many of the same issues experienced throughout the crawfish industry. Specifically, the negative impact of excessive drought and heat in 2023 on the survivability of brood stock and, ultimately, the levels of harvestable crawfish. Following rice harvest, production ponds were flooded and traps placed with the goal of beginning harvest in the traditional early January timeframe. As traditionally done, test traps were conducted in early January to identify the presence of sufficient levels of crawfish to justify the initiation of a normal harvest schedule. However, due to low inventory numbers suggested by the test traps, a full harvest was not completed until February 19, 2024. Low and inconsistent harvest numbers from those initial harvests in February delayed a return to a more normal harvest schedule and interval until mid-March. And it wasn't until the first week of April that harvest levels hit levels that justified harvesting at the station's normal harvest interval of 5 days per week.

Table 1 provides crawfish harvest statistics at the Rice Research Station for the 2023/24 production season. Low inventory levels of brood stock to start the crawfish season delayed the ability to initiate a normal harvest schedule. And while harvest frequency increased as the season progressed, the final result was total crawfish production during the 2023/24 production season being nearly 68 percent lower than the previous 3 year average.

Table 1. Crawfish Harvest Statistics, 2023/24 Production Season, H. Rouse Caffey Rice Research Station.

	2023/24						3-Yr Average	Percent Change	
	Season								
	Jan	Feb	Mar	April	May	June			Total
Total Catch (Lbs.)	0	39	688	1,448	2,207	1,124	5,506	16,955	-67.53%
Days Fished	0	4	17	20	23	13	77	91	-15.07%
Acres Fished	14	14	14	14	14	14	14	14	0.00%
Total Traps	200	200	200	200	200	200	200	200	0.00%
Avg Catch Per Acre (Lbs.)	0.0	2.8	49.1	103.4	157.6	80.3	393.3	1,211.1	-67.53%
Avg Catch Per Day (Lbs.)	0.0	9.8	40.5	72.4	96.0	86.5	71.5	187.0	-61.76%
Avg Catch Per Acre Per Day (Lbs.)	0.0	0.7	2.9	5.2	6.9	6.2	5.1	13.4	-61.76%
Avg Catch Per Trap Per Day (Lbs.)	0.0	0.0	0.2	0.4	0.5	0.4	0.4	0.9	-61.76%

Table 2 provides crawfish revenue statistics for the 2023/24 production season. While elevated prices early in the production season helped to modestly offset the lower harvest levels, it certainly did not fully offset the impact of a later harvest and at much lower levels. For the entire production season, total revenue generated was nearly 54 percent lower than the previous three-year average.

Table 2. Crawfish Revenue Statistics, 2023/24 Production Season, H. Rouse Caffey Rice Research Station

	2023/24						3-Year Average	Percent Change	
	Season								
	Jan	Feb	Mar	April	May	June			Total
Total Revenue (\$)	\$0	\$195	\$1,964	\$3,169	\$3,311	\$1,686	\$10,324	\$22,365	-53.84%
Days Fished	0	4	17	20	23	13	77	91	-15.07%
Acres Fished	14	14	14	14	14	14	14	14	0.00%
Total Traps	200	200	200	200	200	200	200	200	0.00%
Avg Revenue Per Acre (\$)	\$0.00	\$13.93	\$140.25	\$226.32	\$236.46	\$120.43	\$737.39	\$1,597.49	-53.84%
Avg Revenue Per Day (\$)	\$0.00	\$48.75	\$115.50	\$158.43	\$143.93	\$129.69	\$134.07	\$246.67	-45.65%
Avg Revenue Per Acre Per Day (\$)	\$0.00	\$3.48	\$8.25	\$11.32	\$10.28	\$9.26	\$9.58	\$17.62	-45.65%
Avg Revenue Per Trap Per Day (\$)	\$0.00	\$0.24	\$0.58	\$0.79	\$0.72	\$0.65	\$0.67	\$1.23	-45.65%
Avg Price Received (\$/Lb.)	\$0.00	\$5.00	\$2.85	\$2.19	\$1.50	\$1.50	\$1.87	\$1.47	27.47%

Figure 1 provides a comparison of the average pounds of crawfish per acre per month during the 2023/24 production season and the average of the previous 3 years. Both the 2023/24 production season and the 3 year average showed the same trend in crawfish harvest with pounds harvested increasing each month from January through May. Obviously, the major difference is the levels of crawfish harvested with the 2023/24 production season being significantly lower than the previous 3 years. Also, pounds of crawfish harvested during June of the 2023/24 production season was actually higher than the previous 3 year average. This was a function of the lateness of the 2023/24 crawfish crop extending the crawfish season. The extension of the crawfish season was also supported by prices that remained at elevated levels longer during the 2023/24 production season than typical.

Figure 1. Comparison of Average Crawfish Harvest per Acre, 2023/24 Production Season versus 3 Year Average, H. Rouse Caffey Rice Research Station.

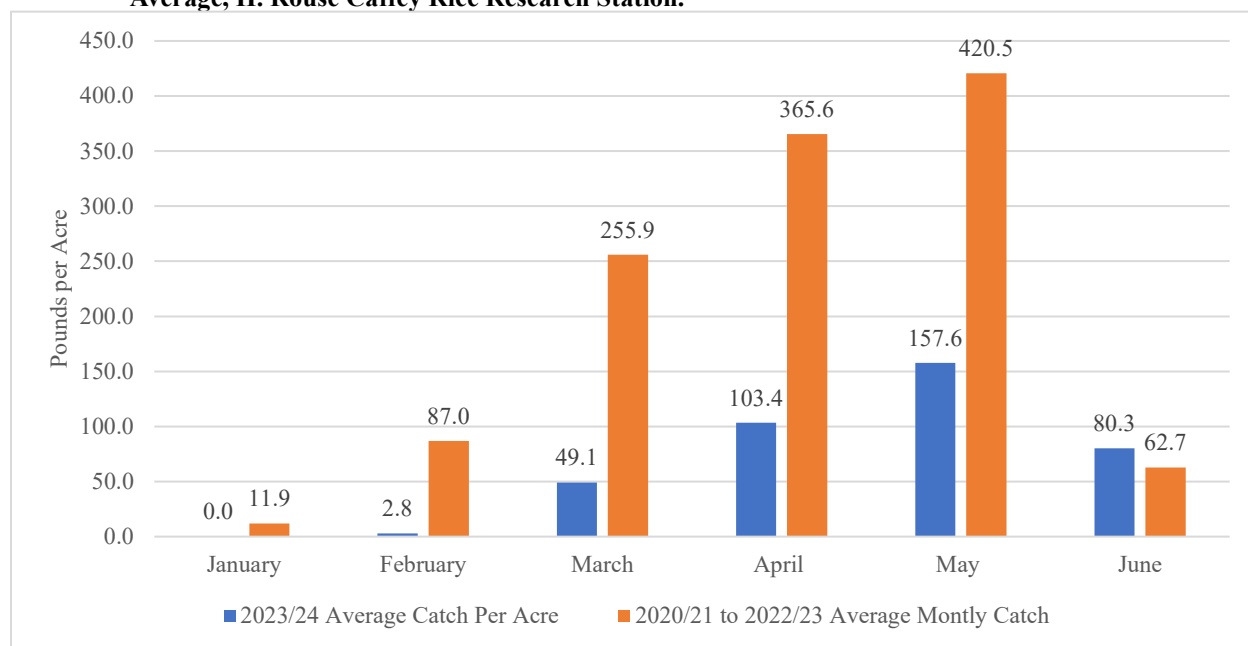
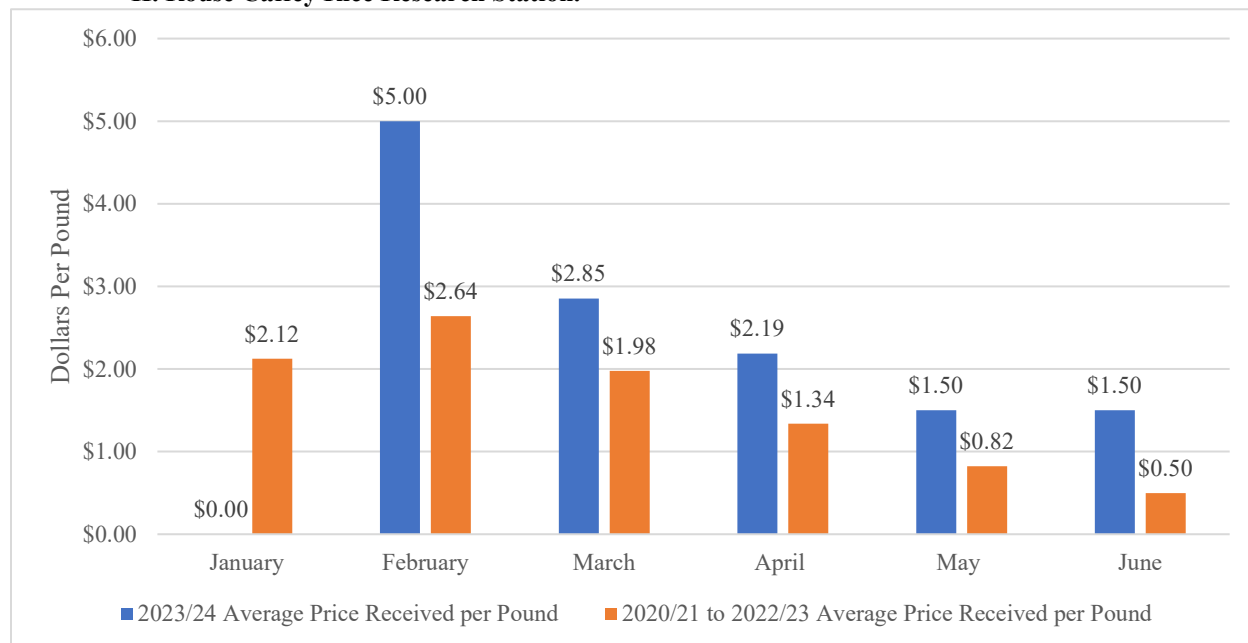


Figure 2 shows a comparison of the average price received per pound for crawfish during the 2023/24 production season versus the average of the 3 previous production years. In general, the trend of prices during the 2023/24 production season followed the same pattern as the previous years with prices falling each month from January to May in response to increased production levels. The major difference between the two was that prices remained supported once moving into June during the 2023/24 production season. The ability of prices to remain supported was likely a function of stronger demand later into the production season than normal. With historically high crawfish prices for much of the production season, many consumers may have delayed consumption of crawfish until later in the year when prices became more affordable and therefore kept overall demand at higher levels later into the season.

Figure 2. Comparison of Price Received Per Pound, 2023/24 Production Season versus 3 Year Average, H. Rouse Caffey Rice Research Station.



PLANS FOR 2024/2025 PRODUCTION YEAR

With the hope of a return to more normal production conditions during the 2024/25 production season, there are plans to implement several projects at the Rice Research Station. These include:

- Examining the accuracy of a pondside test for WSSV detection
- Examining potential control methods for apple snails
- Examining crawfish trap spacing and configuration regarding harvesting yields and harvest efficiency
- Examining the relationship between pond water dissolved oxygen (DO) levels with temperature and weather conditions
- Examining crawfish production with and without a ratoon rice crop, including different rice harvesting methods (conventional header versus stripper header).

STATION PERSONNEL

Name	Title
Adam Famoso, Associate Professor	Resident Coordinator and Rice Breeder
Kurt Guidry, Professor	Assistant Resident Coordinator
Kimberly G. Guidry	Administrative Program Specialist-A
Carol D. LeDoux	Administrative Program Specialist-A
Hannah Derouen	Accounting Specialist 2
Andy Mullins	Administrative Coordinator 3
Donna Sonnier	Custodian 1
Kim J. Landry	Safety Coordinator
Adam Famoso, Associate Professor	Rice Breeding
Brijesh Angira	Assistant Professor - Research
Karina Borges	Postdoctoral Researcher
Jomar Punzalan	Postdoctoral Researcher
Jose Crossa	Postdoctoral Researcher
Valerie Dartez	Research Associate Coordinator
Blaise Frey	Research Associate Specialist
Madeline LeJeune	Research Associate Specialist
Jessica Thornton	Research Associate Specialist
Brady Williams	Research Associate Specialist
Jennifer Dartez	Research Farm Specialist 2
Tara Vanicor	Research Farm Specialist 2
Andrew Thibodeaux	Research Farm Specialist 1
Jennifer Manangkil	Graduate Assistant
Flavia Furlan	Graduate Assistant
Maria Montiel	Graduate Assistant
Felipe Dalla Lana da Silva, Assistant Professor	Rice Pathology
Laura Monte	Research Farm Specialist 2
Dylan Trahan	Research Farm Specialist 2
Anderson Cerutti	Graduate Assistant
Dulakshi Mohottiage	Graduate Assistant
Bruno Borges	Graduate Assistant
Manoch Kongchum, Assistant Professor	Rice Agronomy/Rotational Crops
Jacob Fluitt	Research Associate Coordinator
James Leonards	Research Associate Specialist
Bradley Beard	Research Associate Specialist
Matthew Breaux	Research Farm Specialist 1

STATION PERSONNEL (Continued)

Name	Title
Brent Theunissen, Research Associate/Coordinator/Manager	Farm Management
Brandon Frey	Research Farm Manager 1
Jason Hartman	Research Farm Specialist 2
Paul Miller	Research Farm Specialist 2
Jimmy Pellerin	Research Farm Specialist 2
Thomas Reed	Research Farm Specialist 2
Todd Fontenot, Agent	Crawfish Production and Demonstration
Caden Benoit	Research Farm Specialist 2
Dean LeJeune, Research Farm Maintenance Manager	Maintenance Department
Nathan Breaux	Maintenance Repairer 2
Justin Sarver	Maintenance Repairer 2
Blake Wilson, Assistant Professor	Rice Entomology
Kim Landry	Research Associate Specialist
Herry Utomo, Professor	Marker-Assisted Breeding/Biotechnology
Roberto Fritsche-Neto, Assistant Professor	Quantitative Genetics
Kashish Grover	Graduate Assistant
Kajal Gupta	Graduate Assistant
Melina Prado	Graduate Assistant
Allison Vieira	Graduate Assistant
Richard Zaunbrecher, Research Associate Coordinator	Foundation Seed Rice

LSU AGCENTER CAMPUS PERSONNEL

LSU AgCenter personnel conducting research at H. Rouse Caffey Rice Research Station include the following:

Name	Area
Michael Salassi, Associate Professor	Economics
Michael Deliberto, Assistant Professor Department of Agricultural Economics and Agribusiness	
Jonathan Richards, Associate Professor	Plant Pathology
Jong Hyun Ham, Associate Professor Department of Plant Pathology and Crop Physiology	
Inderjit Barphagha	Research Associate
Jobelle Bruno	Graduate Assistant
John Ontoy	Graduate Assistant
Blake E. Wilson, Assistant Professor	Entomology
Michael J. Stout, Associate Professor Department of Entomology	
Christine Gambino	Extension/Research Associate
Tyler Musgrove	Research Associate
Carlos Wiggins	Research Associate
Tanner Hartley	Graduate Assistant
Jyoti Sharma	Graduate Assistant
Connor Webster, Assistant Professor School of Plant, Environmental, and Soil Sciences	Weed Management
Gavin Sparks	Graduate Assistant
Ben Stoker	Graduate Assistant
Maranda Arcement	Graduate Assistant
Wesley Carr	Graduate Assistant
Eve Williams	Graduate Assistant

COOPERATING PERSONNEL

Cooperating personnel on research projects at H. Rouse Caffey Rice Research Station include the following:

Name	Area
Steve A. Harrison School of Plant, Environmental, and Soil Sciences Louisiana State University Agricultural Center	Wheat and Oats
David Moseley Dean Lee Research and Extension Center Louisiana State University Agricultural Center	Soybeans
Anthony Rivera University of Puerto Rico Research & Extension Center Lajas, Puerto Rico	Rice Breeding
Prasanta K. Subudhi School of Plant, Environmental, and Soil Sciences Louisiana State University Agricultural Center	CRISP Rice
William F. Futch USDA, APHIS Wildlife Services Crowley, Louisiana	Bird Control

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