

2017 LATMC

New Rice Varieties and Hybrid Program Update

Don Groth
Marksville, LA
February 17, 2017

2017

Rice Varieties

& Management Tips



LONG/MEDIUM GRAIN RICE VARIETIES IN LOUISIANA (2014-2016)



Long Grain Varieties

ENTRY	GRAIN YIELD			MEAN*
	2014	2015	2016	
XL753	10120	10004	10738	10280
LaKast	9021	8208	8482	8516
Catahoula	8307	7201	8358	7882
Mermentau	7987	7485	7913	7762
Roy J	8384	7362	7599	7713
Cheniere	7623	7458	7937	7662
Cocodrie	8352	7347	6940	7479
Presidio	7476	6574	7179	7016

Medium Grain Varieties

ENTRY	GRAIN YIELD			MEAN*
	2014	2015	2016	
Jupiter	9575	7433	8308	8296
Caffey	9267	7935	7889	8275

*Mean is the average of 16 yield trails conducted over the 3 year period. Mean is not the average of the three years (2014-2016) since there were different numbers of trials each year.

LONG/MEDIUM GRAIN RICE VARIETIES IN LOUISIANA (2014-2016)



Long Grain Varieties

ENTRY	MILLING % (WHOLE - TOTAL)			MEAN*
	2014	2015	2016	
XL753	66-73	62-76	66-74	64-74
LaKast	64-73	61-75	55-73	58-73
Catahoula	69-76	58-75	66-74	63-75
Mermentau	70-75	72-77	60-72	67-74
Roy J	69-76	53-72	54-72	56-72
Cheniere	71-77	64-76	63-72	65-75
Cocodrie	70-77	67-75	63-73	66-74
Presidio	68-74	68-75	65-73	66-74

Medium Grain Varieties

ENTRY	MILLING % (WHOLE - TOTAL)			MEAN*
	2014	2015	2016	
Jupiter	67-71	63-71	66-68	65-70
Caffey	67-72	49-72	66-70	59-71

*Mean is the average of 16 yield trails conducted over the 3 year period. Mean is not the average of the three years (2014-2016) since there were different numbers of trials each year.

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LAKAST
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CLEARFIELD RICE VARIETIES IN LOUISIANA (2014-2016)



Clearfield Varieties

ENTRY	GRAIN YIELD			MEAN*
	2014	2015	2016	
CLXL745	10145	9434	10738	9801
CLXL729	9901	9688	9698	9748
CL151	9436	7593	8404	8355
CL153	9128	6465	7978	8133
CL111	8491	6744	7707	7543
CL152	8257	6986	6889	7292

*Mean is the average of 16 yield trails conducted over the 3 year period. Mean is not the average of the three years (2014-2016) since there were different numbers of trials each year.



CL153

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CLEARFIELD RICE VARIETIES IN LOUISIANA (2014-2016)



Clearfield Varieties

ENTRY	MILLING % (WHOLE - TOTAL)			MEAN*
	2014	2015	2016	
CLXL745	66-73	66-77	64-73	65-75
CLXL729	64-72	64-76	62-73	63-74
CL151	70-76	57-74	67-74	62-74
CL153	66-73	64-75	67-73	65-73
CL111	70-76	69-77	69-75	67-75
CL152	72-77	52-73	63-72	60-73

*Mean is the average of 16 yield trails conducted over the 3 year period. Mean is not the average of the three years (2014-2016) since there were different numbers of trials each year.

CLEARFIELD RICE VARIETIES IN LOUISIANA (2014-2016)



Clearfield Medium Grain

ENTRY	GRAIN YIELD			MEAN*
	2014	2015	2016	
CL272	9855	7874	8402	8578
CL271	8932	7752	8145	8249

*Mean is the average of 16 yield trails conducted over the 3 year period. Mean is not the average of the three years (2014-2016) since there were different numbers of trials each year.

CLEARFIELD RICE VARIETIES IN LOUISIANA (2014-2016)



Clearfield Medium Grain

ENTRY	MILLING % (WHOLE - TOTAL)			MEAN*
	2014	2015	2016	
CL271	72-75	50-72	67-70	62-72
CL272	67-71	42-73	67-70	55-71

*Mean is the average of 16 yield trials conducted over the 3 year period. Mean is not the average of the three years (2014-2016) since there were different numbers of trials each year.



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Acadia Parish Off-Station Research Location



RESULTS OF THE 2016 LOUISIANA RICE VARIETY TRIALS –Long Grain



ENTRY	50% HEADING	HEIGHT (IN)	MILLING %* WHL TOTL	LDG	RRS**	AD**	EV**	JD**	ST.L**	MEAN
Gemini 214 CL	80	47	60-71	S	11771	10747	11754	10051	10466	10958
XL753	76	43	66-74	S	11334	10584	11212	10040	10522	10738
XL760	80	47	57-71	S	9805	9775	11759	9379	9902	10124
CLXL745	75	45	64-73	S	10516	10179	9871	10209	9059	9967
CLXL729	77	42	62-73	S	10435	7187	11056	9599	10214	9698
LaKast	77	41	55-73	MS	9807	7652	9102	7832	8016	8482
CL151	79	39	67-74	S	9465	6166	9342	8707	8338	8404
Catahoula	79	39	66-74	MR	9171	7084	9006	8648	7884	8358
CL172	77	37	64-72	MS	8875	7503	8561	8243	7137	8064
Diamond	78	41	50-72	MS	9202	6206	9314	7620	7679	8004
CL153	78	38	67-73	MR	8834	7518	8829	8014	6693	7978
Cheniere	79	37	63-72	MR	8708	6885	8368	7986	7739	7937
Mermentau	77	37	60-72	MR	8691	6292	9072	8095	7417	7913
CL111	75	38	69-75	MR	8959	5990	8482	8013	7090	7707
Roy J	83	42	54-72	MR	8330	5639	9218	8412	6397	7599
Presidio	77	39	65-73	MR	7578	6390	7586	7324	7016	7179
CL163	80	39	61-72	MR	8245	5730	8311	7679	5430	7079
Cocodrie	80	39	63-73	MR	7788	5847	7154	6716	7197	6940
Cypress	81	37	68-73	MS	7423	5596	7560	7166	6742	6898
CL152	82	40	63-72	MR	8148	4136	7990	8082	6088	6889

*Milling data - average of RRS and EV

**RRS = Rice Research Station; AD = Acadia Parish, R&Z Farm; EV= Evangeline Parish, Beiber Farm, JD = Jeff Davis Parish, Hoppe Farm, ST.L= St. Landry Parish, Sunland Properties

RESULTS OF THE 2016 LOUISIANA RICE VARIETY TRIALS –Medium Grain



ENTRY	50% HEADING	HEIGHT (IN)	MILLING %* WHL TOTL	LDG	RRS**	AD**	EV**	JD**	ST.L**	MEAN
Titan	77	38	67-69	MS	8900	7464	10031	9191	7708	8659
CL272	81	37	67-70	MS	9186	7188	9342	8625	7668	8402
JUPITER	82	37	66-68	MS	8672	7497	9637	8545	7192	8308
CL271	82	37	67-70	MS	8559	6791	9248	8531	7594	8145
Caffey	82	37	66-70	MS	9496	6698	9204	7569	6478	7889

*Milling data - average of RRS, AD and JD

**RRS = Rice Research Station; AD = Acadia Parish, R&Z Farm; EV= Evangeline Parish, Beiber Farm,

JD = Jeff Davis Parish, Hoppe Farm, LA= Vermilion Parish, Lounsberry Farm, ST.L= St. Landry Parish, Sunland Properties

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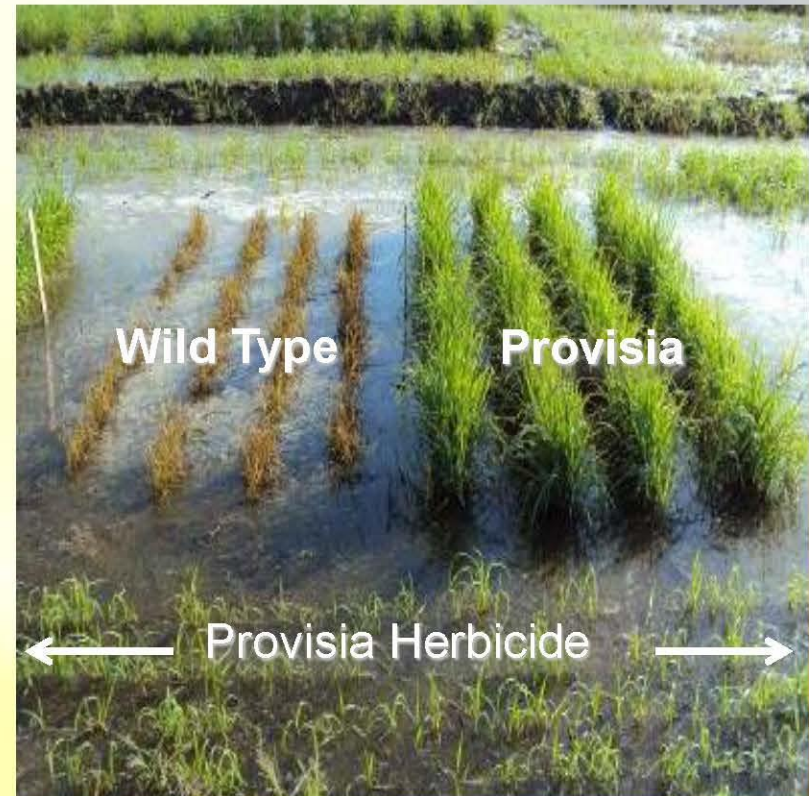
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AgCenter



Provisia™ Rice Production System Summary



- The Clearfield® production system is important for red rice control and US rice production.
- The Provisia™ production system will provide an alternative trait and herbicide MOA to complement the Clearfield system.
- A stewardship program including Clearfield and Provisia trait / herbicide rotation, other crop rotations and additional agronomic practices will help ensure system longevity



→ The Provisia™ Rice system will be available in the last half of this decade

PVL 24-A





PVL 24A

May 25, 2016



PVL 208

PVL 081

PVL 082

PVL 24A
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AgCenter

PROVISIA LINES

RICE RESEARCH STATION - 2016

LINE	PEDIGREE	VIG	50% HEADING	HEIGHT (IN)	GRAIN YIELD
CL153	CL153	5	79	38	7764
CHNR	CHENIERE	5	80	37	7745
MRMT	MERMENTAU	6	79	37	7719
CL111	CL111	4	76	37	7394
PVL 24A	CHENIERE/BASF 1-5	5	82	38	7086
PSDO	PRESIDIO	4	78	38	7079
PVL 24B	CHENIERE/BASF 1-5	5	82	40	7077

SEED CHARACTERISTICS OF SELECTED LINES

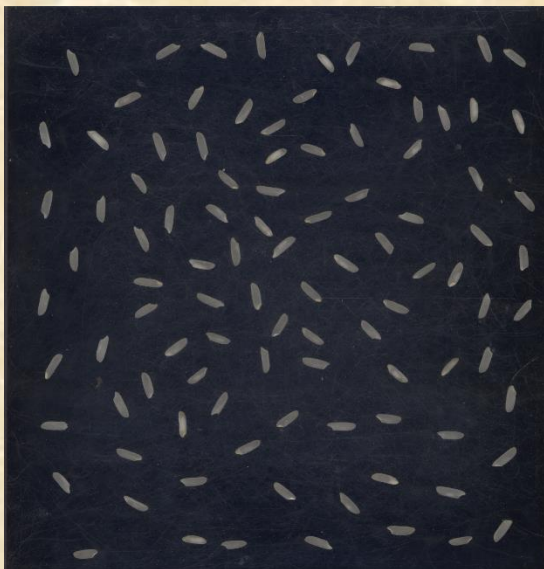
ID	SEED LENGTH (MM)	SEED WIDTH (MM)	LENGTH/WIDTH RATIO	% CHALK
CL111	6.7459	2.1497	3.138	6.21
CL151	6.3853	2.1488	2.972	9.20
CL152	6.4970	1.9686	3.300	5.80
MERMENTAU	6.5217	2.0902	3.120	7.96
PVL 24A	7.2616	1.9619	3.701	2.41



CL111



CL151



CHENIERE



PVL 24A

**Clearfield
Jazzman Line**

CLJ 027

CLJ027 Increase in Puerto Rico



CLEARFIELD JAZZMAN TEST AVERAGE 3 LOCATIONS- 2016

PEDIGREE	VIG	50% HEADING	HEIGHT (IN)	GRAIN YIELD	MILLING WHL TOTL
CL151	4	79	38	8488	62 - 72
CL153	4	81	36	8478	64 - 72
CL111	3	73	36	7788	62 - 72
CLJ 027	4	82	36	7336	68 - 73

2016 CLEARFIELD JAZZMAN 2-AP ANALYSIS

ID	CONCENTRATION (MG/KG)				
	REP 1	REP 2	REP 3	AVERAGE	SD
JAZZMAN	2.228	2.373	2.496	2.365	0.134
JAZZMAN-2	4.189	4.370	4.820	4.460	0.325
CLJ 027	2.891	3.222	3.243	3.119	0.197
KDML105-2016	3.121				

2016 CLEARFIELD JAZZMAN RICE MILL EVALUATION

SAMPLE #	*TRANSLUCENCY	**APPEARANCE	***UNIFORMITY OF GRAIN LENGTH
010	5	5	3
027	5	5	3
031	5	4	3
042	5	3	3

*Rate translucency 1-5, with 5 being predominately translucent and 1 being completely opaque.

** Rate appearance 1-5, with 5 being overall acceptable package quality and 1 being poor.

*** Rate uniformity of grain length 1-5, with 5 being the most uniform and 1 being the least.

SAMPLE #	*TEXTURE	**APPEARANCE	***AROMA	****OVERALL TASTE
010	2	5	3	3.5
027	2.5	5	3	4
031	2	5	1	2
042	2	4.5	1	2

*Rate texture 1-5, with 5 being less sticky/chewy, and 1 being mostly sticky/chewy.

** Rate appearance 1-5, with 5 being high quality and 1 being poor quality.

*** Rate aroma 1-5, with 5 being strong aroma and 1 having no aroma.

****Rate overall taste 1-5, with 5 being most flavorful and 1 having no flavor.



CLH161





**H. Rouse Caffey Rice Research Station
Faculty & Staff**

**H. Rouse Caffey
Rice Research Station
Field Day - June 28, 2017**

