

2021 Rice Seed Guide

The challenges growers faced in 2020, including multiple tropical storms and hurricanes as well as the COVID-19 pandemic, seemed to never end. Harvest for many was a challenge, to say the least.

With the 2020 season in your rearview mirror, take time to catch your breath, say good riddance to the year, and review which cultivars performed well and which ones didn't. There also are a handful of new offerings for 2021 to consider.

In addition, collect soil samples so you'll know what you need to do to meet your 2021 rice crop's nutrient needs. As University of Arkansas' Trent Roberts likes to say, "Don't guess, soil test."

These easy-to-use charts, which highlight how different proprietary varieties and hybrids performed in Mid-South trials during 2020, are designed to help with your planting decisions. Consider each field individually along with your goals when making selections for 2021.

The following charts and information were provided by DynaGro, Horizon Ag LLC and RiceTec.

2021 Horizon Ag Varieties

Provisia Rice System varieties

PVL02

- Newly released Provisia variety
- Improved yield and milling compared to PVL01
- Nine days earlier in maturity compared to PVL01
- Exceptional tillering
- Superior cooking quality

Clearfield Production System for Rice varieties

CLL16 (NEW)

- Exceptional yield performance
- Broadly adapted for the region
- Excellent milling characteristics
- Industry-leading blast resistance
- Excellent standability

CLL17 (NEW)

- Early season, semi-dwarf, long grain
- Strong yielder, consistently out-yielding CL153
- Requires lower nitrogen

- Excellent milling yield
- Very good grain quality
- Resistant to blast and *Cercospora*

CLL15

- Exceptional yield potential
- Broad-spectrum blast resistance
- Excellent milling quality
- Moderately resistant to lodging
- Early maturing

CL111

- Excellent vigor with high yield potential
- Outstanding grain quality and milling
- Exceptional ratoon crop performance
- Kellogg's preferred long grain

CL151

- Exceptional yield potential
- Requires lower nitrogen rate
 - Manage nitrogen input to reduce lodging and disease pressure
- Susceptible to blast; not recommended for fields with a history of blast or water issues

CL153

- Exceptional seedling vigor
- Yield potential equivalent to CL151

Web Resources

For more information about Clearfield and Provisia varieties, visit www.horizonseed.com.

For more information about conventional and FullPage hybrids, visit www.ricetec.com

For more information about DynaGro rice, contact Randy Ouzts at Randy.Ouzts@nutrien.com

- Outstanding grain quality and milling
- Blast resistance
- Lodging resistance

CL163

- Excellent yield potential and seedling vigor
- Outstanding grain quality and milling
- Exceptional cooking quality
 - Extra-high amylose content compared to current long-grain varieties
 - Ideal for parboil, canning, food service or package rice
- Susceptible to blast; not recommended for fields with a history of blast or water issues

CLM04

- First Clearfield medium-grain variety released by University of Arkansas
- Yield potential similar to Jupiter
- Very good grain quality
- Improved blast resistance compared to Jupiter

CLJ01

- First Clearfield Jasmine-type variety
- Very good aroma
- Premium grain appearance and milling
- Excellent yield potential
- Very good disease package

2021 DynaGro Long-Grain Rice Variety

DG263L (New)

- Strong yield potential
- Good lodging resistance
- Excellent grain quality, low chalk
- Good milling yields
- Bacterial panicle blight and kernel smut resistance

DynaGro Variety

2021 Variety Characteristics and Suggested Management Practices

Variety	Type	Height (inches)	Maturity (days to 50% heading)	Suggested Seeding Rate (Lbs/A)	Suggested Nitrogen (lbs N/A)
DG263L	Long grain	36	85	50-70	120-180

Disease Ratings

Sheath Blight	Blast	Straight Head	Bacterial Panicle Blight	Narrow Brown Leaf Spot	Kernal Smut	False Smut	Lodging
S	MS	MS	MR	MS	MR	MR	MR

Horizon Ag Varieties

Disease Ratings

Variety	Sheath Blight	Blast*	Straight Head	Bacterial Panicle Blight*	Narrow Brown Leaf Spot*	Kernel Smut	False Smut	Lodging
PVL02	MS	MS	-	S	MS	-	MS	MS
CLL16 ¹	S	MS	-	S	MR	-	MS	MR
CLL17 ¹	S	R	-	MR	MR	-	MR	S
CLL15 ¹	S	MS	MS	S	MS	S	S	MR
CL111 ¹	VS	MS	S	VS	S	S	S	MS
CL151	S	VS	VS	VS	S	S	S	S
CL153 ¹	S	MS	MS	MS	MS	S	S	MR
CL163	VS	S	MR	MS	R	MS	-	MS
CLM04	MS	S	MS	MS	MS	-	S	S
CLJ01	MS	MR	MS	S	MS	-	MS	-

VS = Very Susceptible, S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant *Reactions may differ due to variability of strains among pathogens.

¹ This variety has genetic markers for *Pita*, which confers resistance to the following blast races: IA45, IB1, IB49, IB54, IB45, IH1, IG1, IC17, IE1.

2021 Variety Characteristics and Suggested Management Practices

Variety	Height ¹ (inches)	Maturity ² (days to 50% heading)	Suggested Seeding Rate ³ (lb seed/A)	Suggested Nitrogen Rate ⁴ (lb N/A)
PVL02	42	85	45-55	90-150
CLL16	42	86	70-80	90-150
CLL17	39	81	45-60	90-130
CL111	39	77	60-70	120-160
CL151	41	81	50-60	90-150
CL153	42	81	60-70	120-160
CL163	41	83	50-65	120-160
CLL15	38	81	55-70	120-160
CLM04	42	86	60-70	120-160
CLJ01	38	85	60-70	120-160

¹ Height will vary with plant density and environmental conditions. ² Maturity varies with geographical region and environmental conditions in a given year. ³ Optimum drill-seeded planting rate is only for fungicide-treated seed. If using non-treated seed, the seeding rate should be increased by a minimum of 10 lbs/A. ⁴ Optimal nitrogen rate varies from field to field. The high end should be reserved for heavy clay soils and fields where rice is followed by rice. Using the high end of the nitrogen and seeding rate recommendations may increase the incidence of disease. Please scout and treat the Clearfield varieties accordingly. The NSt*R program is recommended where applicable and has been shown to decrease incidences of disease and lodging. Please contact your local Cooperative Extension office for more information.





RiceTec¹

Variety	RT7321 FP	RT7521 FP	XP753	RT7301	RT7401	RT7501
Herbicide tolerance trait	FullPage	FullPage	N/A	N/A	N/A	N/A
Grain type	Long grain	Long grain	Long grain	Long grain	Long grain	Long grain
Yield advantage	25%	24%	27%	27%	26%	22%
Milling average²	54/70	54/70	55/70	55/70	56/69	54/69
Maturity group	Early	Medium	Early	Early	Medium	Medium
Days to 50% headed	82	84	82	82	84	84
Days to grain maturity	112	114	112	112	114	114
Agronomic characteristics						
Stress tolerance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Pubescence	Present	Present	Present	Present	Present	Present
Height (inches)	46-50	44-48	42-46	42-46	44-48	42-44
Standability	Average	Average	Average	Average	Average	Above average
Grain retention	Above average	Above average	Above average	Above average	Average	Above average
Ratoon potential³	Above average	Average	Above average	Above average	Above average	Above average
Management recommendations						
Total nitrogen (lbs of N)	120-150	120-150	120-150	120-150	120-150	120-150
Preflood	90-120	90-120	90-120	90-120	90-120	90-120
Late boot	30	30	30	30	30	30
Disease characteristics ⁴						
Blast⁵	R	R	R	R	R	R
Sheath blight	MS	MS	MS	MS	MS	MS
Straighthead	S	MS	S	S	MS	S
Kernel smut	MS	MS	MS	MS	MS	MS
False smut	MS	S	MS	MS	MS	MS
Stem Rot	S	S	S	S	S	S
Bacterial panicle blight	MR	MR	MR	MR	MR	MR
Narrow leaf brown spot	MR	MR	MR	MR	MR	MR

¹ RiceTec seed characteristics are determined from data collected from specific RiceTec and/or university field trials and are not a guarantee of performance, nor do they constitute a warranty of fitness for a particular use.

² Milling averages taken from head-to-head comparisons in planting date trials; very early and medium-late seed products maybe disadvantaged due to single harvest date. Harvest at 18-20% moisture at first drydown to maximize grain quality and grain retention.

³ Ratoon potential on full-season rice may be reduced if harvest is delayed due to later planting.

⁴ R = Resistant, MR = Moderately Resistant, MS = Moderately Susceptible, S = Susceptible, VS = Very Susceptible; although RiceTec products normally do not require fungicide

⁵ RiceTec seed products have shown field resistance to common strains of rice blast fungus. Susceptibility to unusual strains of the rice blast fungus, which have been thus far rare in the field, has been documented in nursery trials.