



2020 Rice Seed Guide

The 2019 season was trying, with wet conditions from the 2018 harvest carrying over into spring planting.

Take time to catch your breath and reflect on what cultivars performed well — all things considered — and what ones weren't quite there. Also take time to collect soil samples so you'll know what you need to do to meet your 2020 rice crop's nutrient needs.

These easy-to-use charts, which highlight how Clearfield and Provisia varieties and conventional, Clearfield and FullPage hybrids performed in Mid-South trials during 2019, are designed to help with those planting decisions. Consider each field individually along with your goals when making selections for 2020.

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

2020 Horizon Ag Varieties

Provisia Rice System varieties

PVL01

- First Provisia herbicide tolerant variety
- Outstanding seedling vigor
- Exceptional tillering
- Superior grain quality
- Good yield potential

PVL02 (New)

- Newly released Provisia variety
- Improved yield and milling compared to PVL01
- Exceptional tillering
- Excellent cooking quality

Clearfield Production System for Rice varieties

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
- Uses nitrogen efficiently
 - 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
- Outstanding grain quality and milling
- Blast resistance
- Lodging resistance

CL163

- Excellent yield potential and seedling vigor
- Outstanding grain quality and milling
- Exceptional cooking quality

Web Resources

For more information about Horizon Ag Clearfield and Provisia varieties, go to www.horizonseed.com.

For more information about RiceTec hybrids, visit www.ricetec.com

- Extra-high amylose content compared to current long grain varieties
- Ideal for parboil, canning, food services or package rice
- Susceptible to blast; not recommended for fields with a history of blast or water issues

CLL15 (New)

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

CLM04 (New)

- First Clearfield medium grain 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

Horizon Ag Varieties

2020 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)
PVL01	35	89	50-70	120-160
PVL02	42	85	50-70	120-160
CL111	39	77	60-70	120-160
CL151	41	81	55-65	90-150
CL153	42	81	60-70	120-160
CL163	41	83	60-70	120-160
CLL15	38	81	60-70	120-160
CLM04	42	86	60-70	120-160
CLJ01	38	85	60-70	120-160

¹Height will vary with plant density and environmental conditions. ²Maturity varies with geographical region and environmental conditions in a given year. ³Optimum 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. ⁴Optimal 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.

Disease Ratings

Variety	Sheath Blight	Blast*	Straight Head	Bacterial Panicle Blight*	Narrow Brown Leaf Spot*	Kernel Smut	False Smut	Lodging
PVL01	S	VS	-	S	MR	-	S	MR
PVL02	S	MS	-	S	S	-	MS	-
CL111	VS	MS	S	VS	S	S	S	MS
CL151	S	VS	VS	VS	S	S	S	S
CL153	S	MS ¹	MS	MS	MS	S	S	MR
CL163	VS	S	MR	MS	R	MS	-	MS
CLL15	S	MS	S	S	-	S	S	MR
CLM04	S	S	S	VS	-	S	S	MS
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.

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





RiceTec							
Variety	RT7321 FP	RT7521 FP	CL XL745	Gemini 214 CL	XL723	XP753	RT7301
Herbicide tolerance trait	FullPage	FullPage	Clearfield	Clearfield	N/A	N/A	N/A
Grain type	Long grain	Long grain	Long grain	Long grain	Long grain	Long grain	Long grain
Yield advantage	25%	24%	22%	24%	19%	25%	22%
Milling average ²	57/68	57/68	59/70	55/69	61/70	57/71	57/70
Maturity group	Early	Medium	Early	Medium	Early	Early	Early
Days to 50% headed	81	87	82	86	86	83	79
Days to grain maturity	110	117	110	116	116	113	109
Agronomic characteristics							
Stress tolerance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Pubescence	Present	Present	Present	Present	Present	Present	Present
Height (inches)	46-50	46-50	42-44	44-48	42-44	42-44	42-44
Standability	Above average	Above average	Average	Above average	Average	Above average	Above average
Grain retention	Above average	Above average	Average	Above average	Below average	Above average	Above average
Ratoon potential ³	Above average	Average	Average	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	120-150
Preflood	90-120	90-120	90-120	90-120	90-120	90-120	90-120
Late boot	30	30	30	30	30	30	30
Disease characteristics ⁴							
Blast ⁵	R	R	R	R	R	MR	R
Sheath blight	MS	MS	MS	MS	MS	MS	MS
Straighthead	MS	MS	MS	MS	MS	MS	MS
Kernel smut	MS	MS	MS	MS	MS	MS	MS
False smut	MS	S	MS	S	MS	MS	MS
Bacterial panicle blight	MR	MR	MR	MR	MR	MR	MR
Narrow leaf brown spot	MR	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.