

Variety/Hybrid 2019 Roster

Review these proven and new releases for the upcoming season

By watching the numbers tick off your yield monitor during harvest or counting the number of trailers coming out of your fields, you likely were beginning to consider what varieties to plant in 2019. What ones did well in particular fields and what ones weren't up to expectations? These easy-to-use charts that highlight how Clearfield and Provisia varieties and/or hybrids performed in Mid-South trials during 2018 are designed to help with those planting decisions. Consider each field individually along with your goals when making selections for 2019. The following charts and information were provided by Horizon Ag LLC and RiceTec.

2019 Horizon Ag Varieties

PVL01

- First Provisia herbicide-tolerant variety
- Outstanding seedling vigor
- Exceptional tillering
- Superior grain quality and milling
- Very good yield potential

CL111

- Earliest maturity of any Clearfield variety
- 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

Web Resources

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

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

- 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
- Very good yield potential
- 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 services or package rice
- Susceptible to blast; not recommended for fields with a history of blast or water issues

CL172

- Yield potential between CL111 and CL151
- Outstanding grain quality and milling
- Superb cooking quality
- Blast resistance
- Lodging resistance

CL272

- Medium grain variety
- Comparable to Jupiter with better blast package
- Very good milling and cooking quality
- Lodging resistance

Horizon Ag LLC

Disease Ratings

Variety	Sheath Blight	Blast*	Straight Head	Bacterial Panicle Blight*	Narrow Brown Leaf Spot*	Kernel Smut	False Smut	Lodging
PVL01	MS	S	MS	S	MR	-	S	MR
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
CL172	MS	MS ¹	MS	MS	S	MS	S	MR
CL272	S	MS	MS	VS	S	MS	MS	MR

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

¹ These varieties have genetic markers for Pita, which confers resistance to the following blast races: IA45, IB1, IB49, IB54, IB45, IH1, IG1, IC17, IE1.

Horizon Ag LLC

2019 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
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
CL172	38	79	65-80	120-160
CL272	39	82	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 NS*⁺R program is recommended where applicable.

RiceTec FullPage Hybrids¹

	RT7321 FP	RT7322 FP	RT7521 FP	RT 7221 FP
Yield advantage	28%	19%	28%	20%
Milling average ²	54/71	59/71	56/71	54/71
Maturity group	Early	Early	Early	Very early
Days to 50% headed	79	81	86	77
Days to grain maturity	109	109	116	105
Agronomic characteristics				
Pubescence	Present	Present	Present	Present
Height (inches)	42-46	42-44	44-48	37-41
Standability	Above average	Average	Above average	Above average
Grain retention	Above average	Above average	Above average	Above average
Ratoon potential ³	Average	Average	Average	Average
Management recommendations				
Total nitrogen (lbs of N)	120-150	120-150	120-150	120-150
Preflood	90-120	90-120	90-120	90-120
Late boot	30	30	30	30
Disease characteristics ⁴				
Blast ⁵	R	R	R	R
Sheath blight	MS	MS	MS	S
Straighthead	MS	MS	MS	MS
Kernel smut	MS	MS	MS	MS
False smut	MS	MS	MS	MS
Bacterial panicle blight	MR	MR	MR	MR
Narrow leaf brown spot	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.

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

⁴ R = Resistant, MR = Moderately Resistant, MS = Moderately Susceptible, S = Susceptible, VS = Very Susceptible; although RiceTec products normally do not require fungicide treatment, fields should be scouted closely for diseases and treated when necessary. Consider field history and environment conditions when making fungicide decisions. Apply preventive applications of fungicide if justified by field history of kernel smut, false smut, and/or Cercospora (narrow brown leaf spot).

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 to date, has been documented in nursery trials.

RiceTec

	RiceTec Clearfield Hybrids ¹					RiceTec Hybrids ¹			
	CL XL729	CL XL745	CL XP4534	Gemini 214 CL	RT7311 CL	XP723	XP753	XP760	RT7301
Herbicide tolerance trait	Clearfield	Clearfield	Clearfield	Clearfield	Clearfield	N/A	N/A	N/A	N/A
Grain type	Long grain	Long grain	Long grain	Long grain	Long grain	Long grain	Long grain	Long grain	Long grain
Yield advantage	17%	21%	23%	28%	28%	21%	23%	26%	24%
Milling average ²	58/70	58/71	52/71	56/71	54/71	59/70	56/71	58/71	56/71
Maturity group	Early	Early	Very early	Early	Early	Early	Early	Early	Early
Days to 50% headed	83	81	76	86	79	82	82	87	82
Days to grain maturity	112	109	105	116	109	111	109	117	109
Agronomic characteristics									
Stress tolerance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Pubescence	Present	Present	Present	Present	Present	Present	Present	Present	Present
Height (inches)	42-44	42-44	37-39	44-48	42-44	42-44	42-44	44-48	42-44
Standability	Average	Average	Excellent	Above average	Above average	Average	Above average	Above average	Above average
Grain retention	Below average	Average	Above average	Above average	Above average	Below average	Above average	Above average	Above average
Ratoon potential ³	Above average	Average	Above average	Average	Average	Above average	Average	Average	Average
Management recommendations									
Total nitrogen (lbs of N)	120-150	120-150	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	90-120	90-120
Late boot	30	30	30	30	30	30	30	30	30
Disease characteristics ⁴									
Blast ⁵	R	R	R	R	R	R	R	R	R
Sheath blight	MS	MS	MS	MS	MS	MS	MS	MS	S
Straighthead	MR	MS	MS	MS	MS	MS	MS	MS	MS
Kernel smut	MS	MS	MS	MS	MS	MS	MS	MS	MS
False smut	MS	MS	MS	MS	MS	MS	MS	MS	MS
Bacterial panicle blight	MR	MR	MS	MR	MR	MR	MR	MR	MR
Narrow leaf brown spot	MR	MR	MR	MR	MR	MR	MR	MR	MR

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