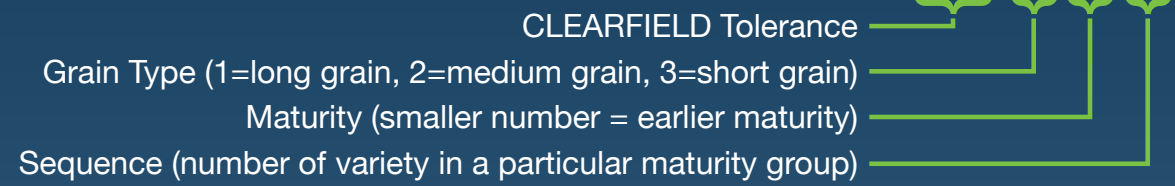


**Horizon Ag CLEARFIELD® Rice  
Variety Numbering System.**

**CL131**



**Milling Information**  
for CLEARFIELD® Rice Varieties



# CL111\*

## Grain Properties

- 20% Milling Quality (% hulls)
- 67.4% Milling Yield (% whole kernel head rice to rough rice)
- 7.78% Protein
- 22.2% Amylose
- 3 Alkali Spreading Value/1.7% KOH Solution
- Intermediate (5) Gelatinization Temperature

## Measurements

## Grain

Seed Coat Color.....Light Brown  
 Endosperm Type .....Nonglutinous (non-waxy)  
 Endosperm Translucency...Clear  
 Endosperm Chalkiness .....Small  
 Scent .....Non-scented

## Shape Class

Paddy ..... Long (3.4:1 and More)  
 Brown ..... Long (3.1:1 and More)  
 Milled ..... Long (3.0:1 and More)

Grain Form	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1000 Grains (g)
Paddy	9.34	2.61	1.96	3.58	26.9
Brown	7.31	2.27	1.74	3.22	22.3
Milled	6.45	2.15	1.68	3.00	19.3

\*Information provided by LSU Rice Research Station, Crowley, LA.

# CL261\*

## Grain Properties

- 20% Milling Quality (% hulls)
- 67.4% Milling Yield (% whole kernel head rice to rough rice)
- 7.98% Protein
- 13.4% Amylose
- 5 to 6 Alkali Spreading Value/1.7% KOH Solution
- Intermediate/Low Gelatinization Temperature

## Measurements

## Grain

Seed Coat Color.....Light Brown  
 Endosperm Type .....Nonglutinous (non-waxy)  
 Endosperm Translucency...Clear  
 Endosperm Chalkiness .....Small  
 Scent .....Non-scented

## Shape Class

Paddy ..... Medium (2.2:1)  
 Brown ..... Medium (1.9:1)  
 Milled ..... Medium (2:1)

Grain Form	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1000 Grains (g)
Paddy	7.40	3.22	1.99	2.30	24.6
Brown	5.75	2.89	1.77	1.99	20.1
Milled	5.31	2.66	1.70	2.00	16.9

\*Information provided by LSU Rice Research Station, Crowley, LA.

# CL181-AR\*\*

## Grain Properties

- 20% Milling Quality (% hulls)
- 64% Milling Yield (% whole kernel head rice to rough rice)
- 6.74% Protein
- 21-23% Amylose
- 3 to 5 Alkali Spreading Value/1.7% KOH Solution
- Intermediate Gelatinization Temperature

## Measurements

## Grain

Seed Coat Color.....Light Brown  
 Endosperm Type .....Nonglutinous (non-waxy)  
 Endosperm Translucency...Clear  
 Endosperm Chalkiness .....Small  
 Scent .....Non-scented

## Shape Class

Paddy ..... Long (3.4:1 and More)  
 Brown ..... Long (3.1:1 and More)  
 Milled ..... Long (3.0:1 and More)

Grain Form	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1000 Grains (g)
Paddy	8.96	2.47	1.97	3.63	24.2
Brown	7.08	2.29	1.73	3.09	19.6
Milled	6.68	2.14	1.67	3.12	17.9

\*\*Information provided by the University of Arkansas Rice Research and Extension Center.

# CL142-AR\*\*

## Grain Properties

- 17% Milling Quality (% hulls)
- 62.2% Milling Yield (% whole kernel head rice to rough rice)
- 7.98% Protein
- 21-23% Amylose
- 3 to 5 Alkali Spreading Value/1.7% KOH Solution
- Intermediate/Low Gelatinization Temperature

## Measurements

## Grain

Seed Coat Color.....Light Brown  
 Endosperm Type .....Nonglutinous (non-waxy)  
 Endosperm Translucency...Clear  
 Endosperm Chalkiness .....Small  
 Scent .....Non-scented

## Shape Class

Paddy ..... Long (3.4:1 and More)  
 Brown ..... Long (3.1:1 and More)  
 Milled ..... Long (3.0:1 and More)

Grain Form	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1000 Grains (g)
Paddy	9.08	2.64	2.01	3.44	26.9
Brown	7.28	2.38	1.76	3.06	23.3
Milled	6.80	2.24	1.70	3.04	20.4

\*\*Information provided by the University of Arkansas Rice Research and Extension Center.

# CL131\*

## Grain Properties

- 20% Milling Quality (% hulls)
- 67% Milling Yield (% whole kernel head rice to rough rice)
- 7.18% Protein
- 24.1% Amylose
- 3.9 Alkali Spreading Value/1.7% KOH Solution
- Intermediate (5) Gelatinization Temperature

## Measurements

Grain Form	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1000 Grains (g)
Paddy	9.06	2.53	2.03	3.58	19.8
Brown	7.14	2.22	1.72	3.22	17.1
Milled	6.62	2.18	1.67	3.04	16.8

\*Information provided by LSU Rice Research Station, Crowley, LA.

## Grain

Seed Coat Color.....Light Brown  
 Endosperm Type .....Nonglutinous (non-waxy)  
 Endosperm Translucency...Clear  
 Endosperm Chalkiness .....Small  
 Scent .....Non-scented

## Shape Class

Paddy ..... Long (3.4:1 and More)  
 Brown ..... Long (3.1:1 and More)  
 Milled ..... Long (3.0:1 and More)

# CL161\*

## Grain Properties

- 19% Milling Quality (% hulls)
- 66% Milling Yield (% whole kernel head rice to rough rice)
- 7.8% Protein
- 21.8% Amylose
- 4.1 Alkali Spreading Value/1.7% KOH Solution
- Intermediate (5) Gelatinization Temperature

## Measurements

Grain Form	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1000 Grains (g)
Paddy	9.18	2.50	1.87	3.67	20.1
Brown	7.01	2.18	1.60	3.21	17.4
Milled	6.83	2.12	1.58	3.22	16.9

\*Information provided by LSU Rice Research Station, Crowley, LA.

## Grain

Seed Coat Color.....Light Brown  
 Endosperm Type .....Nonglutinous (non-waxy)  
 Endosperm Translucency...Clear  
 Endosperm Chalkiness .....Small (less than 10% of sample)  
 Scent .....Non-scented

## Shape Class

Paddy ..... Long (3.4:1 and More)  
 Brown ..... Long (3.1:1 and More)  
 Milled ..... Long (3.0:1 and More)

# CL151\*

## Grain Properties

- 20.7% Milling Quality (% hulls)
- 63.4% Milling Yield (% whole kernel head rice to rough rice)
- 7.3% Protein
- 22.1% Amylose
- 3 to 5 Alkali Spreading Value/1.7% KOH Solution
- Intermediate (5) Gelatinization Temperature

## Measurements

Grain Form	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1000 Grains (g)
Paddy	8.74	2.61	1.95	3.35	22.4
Brown	6.68	2.22	1.74	3.01	17.9
Milled	6.36	2.14	1.72	2.97	17.6

\*Information provided by LSU Rice Research Station, Crowley, LA.

## Grain

Seed Coat Color.....Light Brown  
 Endosperm Type .....Nonglutinous (non-waxy)  
 Endosperm Translucency...Clear  
 Endosperm Chalkiness .....Small  
 Scent .....Non-scented

## Shape Class

Paddy ..... Long (3.4:1 and More)  
 Brown ..... Long (3.1:1 and More)  
 Milled ..... Long (3.0:1 and More)

# CL171-AR\*\*

## Grain Properties

- 15-20% Milling Quality (% hulls)
- 65% Milling Yield (% whole kernel head rice to rough rice)
- 7.8% Protein
- 22.3% Amylose
- 3 to 5 Alkali Spreading Value/1.7% KOH Solution
- Intermediate (5) Gelatinization Temperature

## Measurements

Grain Form	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1000 Grains (g)
Paddy	8.70	2.53	1.94	3.47	22.1
Brown	6.29	2.18	1.70	3.17	19.0
Milled	6.53	2.11	1.63	3.09	17.9

\*\*Information provided by the University of Arkansas Rice Research and Extension Center.

## Grain

Seed Coat Color.....Light Brown  
 Endosperm Type .....Nonglutinous (non-waxy)  
 Endosperm Translucency...Clear  
 Endosperm Chalkiness .....Small  
 Scent .....Non-scented

## Shape Class

Paddy ..... Long (3.4:1 and More)  
 Brown ..... Long (3.1:1 and More)  
 Milled ..... Long (3.0:1 and More)