

# Soybean Grain Quality Results for MG IV (Clay Soil) RR2X Varieties from the 2019 On-Farm Variety Demonstration

Brand Variety		Damaged Kernels Total (DKT) Score by Individual County Location							Overall DKT <sup>3</sup> AVG
		Clay	Humphreys	Leflore	Leflore	Noxubee	Tunica	Washington	
		05-20-2019 <sup>1</sup> 10-03-2019 <sup>2</sup>	06-04-2019 10-10-2019	05-01-2019 09-16-2019	06-13-2019 11-05-2019	05-08-2019 09-23-2019	06-14-2019 11-14-2019	05-31-2019 10-03-2019	
AGS	AGS GS49X19	1.1	0.5	0.3	2.5	-	0.6	0.3	0.8
Armor	49-D66	1.1	0.5	0.2	2.7	0.2	0.7	0.1	0.8
Armor	X49-D67	0.7	-	0.2	3.1	0.4	0.3	0.1	0.8
Asgrow	AG45X8	0.7	1.4	1.0	4.8	0.7	0.6	0.2	1.3
Asgrow	AG46X6	0.6	1.2	0.7	-	0.3	1.4	0.2	1.1
Asgrow	AG48X9	0.3	0.9	0.3	3.5	0.4	0.5	0.2	0.9
Credenz	CZ 4979X	0.2	0.3	0.4	3.7	0.5	0.6	0.1	0.8
Delta Grow	DG 48X45 RR2X	0.3	1.3	0.2	2.9	0.3	0.7	0.2	0.8
Dyna-Gro	S45XS66	0.7	0.7	0.4	1.8	1.3	1.2	0.2	0.9
Local Seed	LSX4798X	0.9	1.1	0.6	2.5	0.4	1.1	0.2	1.0
NK	S49-F5X	0.2	-	0.1	3.0	0.7	0.6	0.1	0.8
Progeny	P 4821 RX	1.4	0.1	0.6	-	0.4	0.8	0.1	0.9
Progeny	P 4851 RX	0.8	0.6	0.1	2.5	0.5	0.9	0.3	0.8
Terral	REV 4927X	0.8	0.5	0.3	2.6	0.2	0.9	0.1	0.8
Terral	REV 4940X	0.5	0.6	0.3	2.8	1.1	0.9	0.6	1.0

<sup>1</sup>Planting Date

<sup>2</sup>Harvest Date

<sup>3</sup>DKT scores were analyzed in SAS 9.4, average scores were found to not be significantly different across the varieties that were evaluated ( $\alpha = 0.3916$ ). DKT scores were determined by Mid-South Grain Inspection Services, which is an official USDA designated grain inspector agency.

# Soybean Grain Quality Results for MG V RR2X Varieties from the 2019 On-Farm Variety Demonstration

Brand Variety		Damaged Kernels Total (DKT) Score by Individual County Location					Overall DKT <sup>3</sup> AVG
		Clay	Lowndes	Madison	Monroe	Noxubee	
		05-20-2019 <sup>1</sup> 10-03-2019 <sup>2</sup>	05-22-2019 10-01-2019	05-22-2019 10-02-2019	06-13-2019 11-11-2019	05-08-2019 9-23-2019	
AGS	AGS GS52X19S	0.6	0.1	0.1	7.2	0.3	1.7
Armor	51-D77	0.5	0.2	0.3	16.8	0.9	3.7
Armor	52-D71	-	0.3	0.4	9.6	1.2	2.5
Asgrow	AG52X9	0.4	0.4	0.5	13.8	0.2	3.1
Asgrow	AG53X9	0.9	0.5	0.2	9.7	0.4	2.3
Credenz	CZ 5299X	0.8	0.1	1.0	-	1.3	2.4
Delta Grow	DG 54X25 RR2X	0.5	0.3	0.4	7.4	0.4	1.8
Dyna-Gro	S56XT99	1.0	0.1	0.1	6.8	0.2	1.6
Local Seed	LS5087X	0.5	0.3	0.3	7.5	0.2	1.8
NK	S53-F7Z	0.9	0.3	0.3	10.6	0.6	2.5
Pioneer	P54A54X	0.5	0.1	0.3	8.1	0.4	1.9
Pioneer	P55A49X	0.8	-	0.3	3.0	0.6	0.7
Progeny	P 5252 RX	1.1	0.2	0.2	-	0.6	2.1
Progeny	P 5688 RX	0.3	0.1	1.3	6.7	0.4	1.8
Terral	REV 5659X	0.3	0.1	0.4	3.1	1.2	1.0

<sup>1</sup>Planting Date

<sup>2</sup>Harvest Date

<sup>3</sup>DKT scores were analyzed in SAS 9.4, average scores were found to not be significantly different across the varieties that were evaluated ( $\alpha = 0.4684$ ). DKT scores were determined by Mid-South Grain Inspection Services, which is an official USDA designated grain inspector agency.