

RESULTS FROM MSPB's 2023 SOYBEAN YIELD CONTEST

Results from MSPB's 2023 soybean yield contest for Mississippi are finalized. These results are divided into categories for Delta Irrigated [9 entrants], Delta dryland [6 entrants], non-Delta irrigated [7 entrants], and non-Delta dryland [8 entrants]. Below is a summary of the results and the practices used to achieve those results for each category.

Delta Irrigated.

- Winning yields [1-3 places] averaged 94.1 bu/acre, with a range of 92.7 to 95.3 bu/acre. Yields of all entrants were at least 80 bu/acre.
- Winning yields were achieved with varieties from MG's 4.4 [winner] to 4.8 planted in mid-April at rates of 110, 140, and 137.5 thousand seeds/acre, respectively.
- Row spacing was 30 in. [winner], and 40- and 38-in.-wide twin rows for the second and third place entrants, respectively.
- All three of the top producers used treated seed.
- Producers with the top three yields applied irrigation water by the furrow method, and all other entrants except one did the same.
- All three of the top producers applied both a foliar fungicide and insecticide. The second and third place producers, plus all but one of the remaining entrants, applied a desiccant/harvest aid prior to harvest.
- Plant populations at harvest for the entrants with the top three yields were 75 [winner], 123 [runner-up], and 130 thousand/acre.
- Conventional tillage was used by all entrants.

Delta Dryland.

- Winning yields averaged 66.9 bu/acre, with a range of 62.5 to 69.1 bu/acre among the three entrants with the highest yields.
- Winning yields were achieved with varieties from MG's 4.2 [winner] to 4.6 planted in mid-April to very early May.
- Seeding rates used by entrants with the top three yields were 145 [winner] and 140 thousand seeds/acre. Row spacings were 38 in. twin rows [winner] and 38 in. for the second and third place entrants. All three of the top entrants used a seed treatment.
- The two highest yielding producers applied a desiccant/harvest aid prior to harvest.
- Plant populations at harvest were 107, 111.5, and 131 thousand/acre for the entrants with the first through third place highest yields, respectively.
- Conventional tillage was used by all but one of the entrants, and by all three of the entrants with the highest yields.

Non-Delta Irrigated.

- The top three yields averaged 95.2 bu/acre, with a range of 93.7 to 98.0 bu/acre. These yields are comparable to the above top three Delta irrigated yields.
- The top yield was achieved with a MG 4.8 variety, whereas the second and third highest yields were achieved with MG 5.3 varieties.
- Planting dates for entrants with the top three yields were Apr. 23, 24, and 10, respectively. Seeding rate ranged from 120 [winner] to 90 thousand/acre, and row spacings used for the top three yields were 15 [winner] and 30 in. All three of the top yields were achieved with treated seed.
- Irrigation water was applied by the pivot method by all entrants.
- Entrants with the three highest yields applied a foliar fungicide and insecticide at about growth stage R3.
- Harvest plant populations were 88, 108, and 95 thousand/acre for places 1, 2, and 3, respectively.
- Conventional tillage was used by all three entrants with the highest yields.

Non-Delta Dryland.

- The top three yields were 88.9, 86.3, and 82.7 bu/acre, for an average of 86 bu/acre.
- The top three yields were achieved with varieties from MG's 4.8 [winner and third place] and 5.3 planted on Apr. 25, Mar. 30, and Apr. 23, respectively. Seeding rates used by entrants with the top three yields were 123.5 [winner] and 120 thousand/acre. Row spacing used by entrants with the top three yields was 30 in. Treated

seeds were planted by all entrants.

- Entrants with the three highest yields applied a foliar fungicide.
- Entrants with the first and second place yields used minimum tillage, while all other entrants used conventional tillage.
- Plant populations at harvest for the top three yields were 104, 88, and 111 thousand/acre, respectively.

Overall Results.

- Click the above link to view a detailed summary of the results from the contest.
- The previous crop grown by the entrants was either soybeans or corn in the Delta region, and either soybeans, corn, or cotton in the non-Delta region.
- All or most of the entrants in the above four categories used a seed treatment and a foliar application of a fungicide and insecticide.
- The vast majority of entrants in all categories used mid-MG 4 varieties planted in mid-April.
- Seeding rates used by all entrants were below 140 thousand seeds/acre, and the majority used seeding rates below 120 thousand/acre. Plant populations at harvest were generally between 120 and 80 thousand plants/acre.
- The average of the three top Delta irrigated yields [94.1 bu/acre] were similar to the average of the top three non-Delta irrigated yields [95.2 bu/acre]. However, average of the three top Delta dryland yields [66.9 bu/acre] was much lower than the average [86.0 bu/acre] of the top three non-Delta dryland yields. Thus, irrigation response was much greater in the Delta environment.
- The vast majority of entrants in each of the above four categories used conventional tillage. There is no mention if any of the entrants used a cover crop, or had used any conservation production practice either in the short- or long-term. It is assumed that the growers who entered this contest did not incorporate perceived conservation production practices such as minimum/no-till or cover crops because they did not view such practices as contributors to maximum soybean yield. This may change in the future as programs designed to encourage use of such practices are adopted by producers.

TAKEAWAY BASED ON RESULTS OF THE 2023 MISS. SOYBEAN YIELD CONTEST

These results support the following for Mississippi soybean growers.

- To achieve maximum soybean yields in Miss., growers should be planting treated seed of mid-MG 4 varieties at between 120 and 140 thousand seeds/acre in mid-April in rows no more than 30 in. apart.
- Soybean growers should strive for a harvest plant population of at least 100 thousand/acre.
- Irrigation of soybeans will provide the most benefit for Delta vs. non-Delta producers.

Up-to-date information about all of the production inputs used for soybean production in both irrigated and dryland environments is presented in White Papers that are posted on this website.

Composed by Larry G. Heatherly, Mar. 2024, larryh91746@gmail.com

	Non Delta Irrigated	Prize			Non Delta Dryland	Prize
Rodney McGill	97.9898	\$7,500		Philip Wedel	88.9246	\$7,500
Philip Good	93.7998	\$5,000		Sheldon Litwiler	86.3227	\$5,000
Brandon Litwiler	93.7199	\$2,500		Rodney McGill	82.7000	\$2,500
	95.1698				85.9824	
Dale Weaver	92.0074	\$1,100		Christian Good	82.4458	\$100
Philip Wedel	88.6923	\$100		Lane Giesbrecht	79.1340	\$100
Lane Giesbrecht	75.0087	\$100		Brandon Litwiler	70.2719	\$100
Austin Giesbrecht	65.4885	\$100		Tracy Huey	67.5446	\$1,100
				Phil Robbins	66.4089	\$100

	Delta Irrigated	Prize			Delta Dryland	Prize
Adron Belk	95.3463	\$7,500		Lawanda Morris	69.1279	\$7,500
Rob Baker	94.2196	\$5,000		Collins Fyfe	69.0464	\$5,000
Bubba DeLoach	92.724	\$2,500		Matt Williamson	62.5146	\$2,500
	94.0966				66.8963	
Collins Fyfe	91.5028	\$100		Brian Fyfe	59.3283	\$100
Rocco Morris Jr.	87.9436	\$100		Rob Baker	53.1047	\$1,100
Lawanda Morris	87.8126	\$100		William Payne	46.2602	\$100
William Payne	86.6447	\$100				
Lake Lindsey	84.4996	\$100				
Brian Fyfe	79.617	\$1,100				

2023 MSPB Yield Challenge - Grow It - Show - IT - Win - It										
	William Payne	Lawanda Irby Morris	Rocco Glynn Morris Jr.	Brian Fyfe	Adron Belk	Rob Baker	Collins Fyfe	Bubba DeLoach	Lake Lindsey	Average
Delta Region - Irrigated										
County	Washington	Bolivar	Bolivar	Coahoma	Sunflower	Washington	Tunica	Leflore	Leflore	Average
Soil Type	Dundee silt loam	Dowling Sharkey Clay	Pearson silt loam	Dundee Silty Clay Loam	Forestdale Silt Loam	Forestdale Silty Clay Loam	Tensas Silty Clay Loam	Tensas Silty Clay Loam	Dundee Silt Loam	135,833
Previous Crop	Soybeans	Soybeans	Soybeans	Soybeans	Corn	Corn	Corn	Leflore	Corn	
Tillage	Conventional	Conventional	Conventional	Conventioanl	Conventional	Conventional	Conventional	Conentional	Conventional	
Planting Date	4/15/2023	4/16/2023	4/17/2023	4/18/2023	4/20/2023	4/14/2023	4/20/2023	4/15/2025	4/19/2023	
Row Width	30"	38" twin	38" twin	9"	30"	40 Twin	38" Twin	38"	38" Twin	
Planting Pop.	135,000	145,000	145,000	135,000	110,000	140,000	140,000	137,500	136,000	
Brand/Variety	Revere 4795XS	Pioneer 44A21X	Asgrow 48X9	Revere 4826XF	Pioneer 44A21X	Revere 4795XS	Asgrow 46XF3	Asgrow 48XF2	Asgrow 46XF3	
Maturity Group	4.7	4.4	4.8	4.8	4,4	4.7	4.6	4.8	4.6	
Seed Treatment	None	Primo + Cruisermass APX, Dyna Start 3P + Extender	Primo + Cruisermass APX, Dyna Start 3P + Extender	Apron Maxx	RenPro+, Foray	CruiserMaxx APX	Dyna Start Conguest + Dyan Starts 3 P	Vitalis, PBI-Simplot	First up LR + See Shield Max + Thiamethoxam	
Tillage Operation	Fall - Bedded	Fall - Disked 2x times + Bedded with 120 lbs/acre of Wheat as a cover crop		Fall - Disk + Kelly Diamond	Fall - Lemken Disk, Kelly Diamond Harrow, Rolacone Hipper and	Fall - disk twice + Shortline In-line Subsoiler with busters and rollers	Fall - Disk + Paratill + Hipper Chopper	Fall - Vertical Till + Row Up + Roll Beds	Fall - Shred corn stalks and sweep irrigation middles; Do-all rows and pulled the	
irrigation System	Furrow	Furrow	Furrow	Pivot	Furronw	Furrow	Furrow	Furrow	Furrow	7.4
Irrigation Inches		13.6	10.5	3.0	3.0	9.0	2.0	8.0	10.0	
Rainfall Inches		10.0	11.9	8.1	18.0	17.1	10.8	8.1	18.5	
Total Water		23.6	22.4	11.1	21.0	26.1	12.8	16.1	28.5	
Fertilizer	None	Ammonia Sulfate & Potash @ 50 lbs/acre; Foliar Inseason Coron Metra 10B 1/2 gal/acre + Sulphur Complete 1 lb/acre + Delstar Bio PK 1 qt/acre	Ammonia Sulfate & Potash @ 50 lbs/acre; Foliar Inseason Coron Metra 10B 1/2 gal/acre + Sulphur Complete 1 lb/acre + Delstar Bio PK 1 qt/acre	Potash 100 lbs/acre	Spring - Ammonia Sulfate 100 lbs/acre; Banded on top of row 9-30-0 + .5 lb Boron + .5 lb zinc. Delivered K 1 gallon/acre with Fungicide @ R3	Variable Rate - Posphate - 129 lbs/acre + Potash 99 lbs/acre + Lime 158 lbs/acre	Broadcast 100 lbs/acre of 0-0-60	FGS Carbon Complete 4 gallons/acre	Lime - Variable rate 1.5 tons/acre caped, Potash 150 lbs/acre + AMS 75 lbs/acre + Tsp 50 lbs/acre	12.8
Herbicide	Enginia 12.8 oz/acre + Zidua 2.5 + Roundup 32 oz/acre + Sentris 8 oz/acre	Pre - Emergz/acreence - Powermax 32 oz/acre; Gramoxone 32 oz/acre; Boundary 24 oz/acre + Compadre Scanner 1/4%; Vegetative -Miravis Top 13.7 oz/acre; Post Emergence - Enginia 12.8 oz/acre + Sequence 48 oz/acre + Sentris 8 oz/acre + Reign 1 pt/acre + Powermax 10 oz/acre	Pre - Emergz/acreence - Powermax 32 oz/acre; Gramoxone 32 oz/acre; Boundary 24 oz/acre + Compadre Scanner 1/4%; Vegetative -Miravis Top 13.7 oz/acre; Post Emergence - Enginia 12.8 oz/acre + Sequence 48 oz/acre + Sentris 8 oz/acre + Reign 1 pt/acre + Powermax 10 oz/acre	Burndown - Gramoxone 1.5 pts/acre + Boundary 2 pts/acre; V2 Application - Roundup 2 pts/acre + Enginia 12.8 oz/acre	Fall - Gramoxone 1qt/acre & Boundary 1 pt/acre; Planting - Gramoxone 1 qt/acre + Boundary 24 oz/acre; V5 application of Roundup 32 oz/acre + Tavium 56.5 oz/acre.	Fall - Boundary 1 qt/acre; Pre-Emergence - Boundary 24 oz/acre + Gramoxone 24 oz/acre; R1 - Tavium 56 oz/acre + Roundup 1 qt/acre	Planting - Gramoxone 1 pt/acre + Intimidator 2.0 oz/acre; V1 - Roundup 32 oz/acre + Medal 16 oz/acre + Enginia 12.8 oz/acre	Fall Aplication - Dual 24 oz/acre + Valor 2 oz/acre + Paraquat 24 oz/acre; V1- V2 Roundup 1 Qt/acre + Enginia 12.8 oz/acre + Zidua 4 oz/acre	Burndown - Roundup 32 oz/acre + Valor 2 oz/acre + Select 16 oz/acre + Dual 16 oz/acre + 2,4-D 24 oz/acre; Pre-Emergence - Reflex/Dual Mix 32 oz/acre + Gramoxone 32 oz/acre + Derive 4L 3 oz/acre; Layby- Roundup 32 oz/acre + Dual 18	
Insecticide, Fungicide, Dessicants	Miravis Top 13.7 oz/acre, Gramoxone 10.5 Oz/acre	Dessicant - Gramoxone 10.5 oz/acre	Dessicant - Gramoxone 10.5 oz/acre	Intrepid Edge 5 oz/acre	Fungicide - Miravis Top 13.7 oz/acre; Insecticide Lambda-Cy 1.4 oz/acre.	R3 - Miravis Top 13.7 oz/acre + Lambda 1:45; Dessicant - Gramoxone 10.4 oz/acre	Dessicant - Gramozone 12 Oz/acre + Sharpen 1 oz/acre	R3 - Bifenthrin 4.25 oz/acre + Revytec 8 oz/acre; R7 Gramoxone 12.8 oz/acre	Fungicide - Trevo TRZ 13.7 oz/acre; Dessicant - Gramoxone 11 oz/acre;	
Harvest Date	9/17/2023	9/14/2023	9/22/2023	9/26/2023	9/16/223	8/31/2023	9/16/2023	9/8/2023	9/4/2023	
Rows Harvested	207	64		667	128	96	48		72	112,482
Harvest Pop.	127,000	122,833	120,166	83,667	74,833	122,670	105,166	130,000	126,000	
Moisture	11	12.2	9.5	10.4	10.8	11.7	10.0	13.3	12.2	
Yield	86.6477	87.8126	87.9436	79.6170	95.3463	94.2196	91.5028	92.7240	84.4996	
Placing	7	6	5	9	1	2	4	3	8	88.9237

2023 MSPB Yield Challenge - Grow It - Show - IT - Win - It							
	Lawanda Irby Morris	Brian Fyfe	Rob Baker	Matt Williamson	William Payne	Collins Fyfe	Average
Delta Region - Non-Irrigated							
County	Bolivar	Coahoma	Washington	Sunflower	Washington	Tunica	Average
Soil Type	Dowling Sharkey Clay	Dowling Sharkey Clay	Sharkey Clay	Dundee Silt Loam	Dundee silt loam	Tensas Silty Clay Loam	142,500
Previous Crop	Soybeans	Soybeans	Soybeans	Soybeans	Soybeans	Corn	
Tillage	Conventional	Conventional	No-till	Conventional	Conventional	Conventional	
Planting Date	5/3/2023	4/17/2023	4/25/2023	4/17/2023	4/13/2023	4/12/2023	
Row Width	38" Twin	9"	15"	38"	30"	38"	13.7
Planting Pop.	145,000	135,000	150,000	140,000	135,000	140,000	
Brand/Variety	Agrigold 4190RX	Revere 4826XSF	Asgrow 48X9	Great Heart 4677XS	Revere 4795XS	Asgrow 46XF3	
Maturity Group	4.2	4.8	4.8	4.6	4.7	4.6	
Seed Treatment	AgriShield F & I	Apron Maxx	Curisermaxx APC	Apron Max + Imidocloprid + Duvet	None	Dyna Start Conguest + Dyan Starts 3P	13.7
Tillage Operations	Fall - Chisel + Bedded + 120 lbs/acre of Wheat	Fall - Disk + Kelly Diamond	None	Fall Cultivate	Fall - Bedded	Fall - Disk + Paratill + Hipper Chopper	
Rainfall Inches	10.2	7.6	17.2	19.8		10.8	
Bu/inch of Water							
Fertilizer	Ammonia Sulfate & Potash @ 50 lbs/acre; Foliar Inseason Coron Metra 10B 1/2 gal/acre + Sulphur Complete 1 lb/acre + Delstar Bio PK 1 qt/acre	Potash 100 lbs/acre	None	200 lbs/acre of 0-23-30	None	100 lbs/acre of 0-0-60	61.0189
Herbicide	Pre - Emergz/acreeence - Powermax 32 oz/acre, Gramoxone 32 oz/acre, Boundary 24 oz/acre + Compadre Scanner 1/4%; Vegetative -Miravis Top 13.7 oz/acre; Post Emergence - Engenia 12.8 oz/acre + Sequence 48 oz/acre + Sentris 8 oz/acre + Reign 1 pt/acre + Powermax 10 oz/acre	Burndown - Gramoxone 1.5 pts/acre + Boundary 2 pts/acre; V2 Application - Roundup 2 pts/acre + Engenia 12.8 oz/acre Zidua 3.2 oz/acre: V5 application - Roundup 2 pts/acre + Engenia 12.8 oz/acre; Pre-harvest - Gramoxone 1 pt/acre	Fall - Boundary 1 qt/acre; Pre-Emergence - Boundary 24 oz/acre + Gramoxone 24 Oz/acre; R2 - Select 1 qt/acre + Zidua 3 oz/acre	Pre-Emergence - Gramoxone 40 oz/acre; In-season - Engenia 12.8 oz/acre + VolaCept 1/4% + Envy 6Max 32 oz/acre + Visor SMOC 1 pint/acre	Burndown - Gramoxone 12 oz/acre	Planting - Gramoxone 1 pt/acre + Intimidator 2.0 oz/acre; V1 - Roundup 32 oz/acre + Medal 16 oz/acre + Engenia 12.8 oz/acre	
Insecticide, Fungicide, Dessicants	Dessicant - Gramoxone 10.5 oz/acre	Intrepid Edge 5 oz/acre	Dessicant - Gramozone 10.4 oz/acre	Insecticide - Ravage 4.2 oz/acre	Miravis Plus 13.5 oz/acre	Dessicant - Gramozone 12 Oz/acre + Sharpen 1 oz/acre	
Harvest Date	8/29/23	9/26/23	9/20/23	9/19/23	9/17/23	9/10/23	
Rows Harvested				119			115,333
Harvest Pop.	106,833	85,667	130,000	131,000	127,000	111,500	
Moisture	12.0	10.2	9.1	10.8	9.2	12.4	
Yield	69.1279	59.3283	53.1047	62.5146	46.2602	69.0464	
Placing	1	4	5	3	6	2	

2023 MSPB Yield Challenge - Grow It - Show - IT - Win - It								
	Brandon Litwiller	Austin Giesbrecht	Lane Giesbrecht	Rodney McGill	Philip Wedel	Dale Weaver	Philip Good	Average
Non Delta Region - Irrigated								
County	Monroe	Noxubee	Noxubee	Noxubee	Noxubee	Noxubee	Noxubee	
Soil Type	Brooksville Silty Clay	Brooksville Silty Clay	Brooksville Silty Clay	Brooksville Silty Clay	Brooksville Silty Clay	Brooksville Silty Clay	Brooksville Silty Clay	
Previous Crop	Corn	Cotton	Corn	Cotton	Corn	Cotton	Corn	
Tillage	Conventional	Conventional	Conventional	Conventional	Minimum (Fall)	Minimum	Conventional	
Planting Date	4/10/2023	4/19/2023	4/18/2023	4/23/2023	4/25/2023	4/24/2023	4/24/2023	
Row Width	30"	15"	30"	15"	30"	30"	30"	
Planting Pop.	90,000	120000	120,000	120,000	123,325	120,000	119,000	119,500
Brand/Variety	Pioneer 53A67X	Asgrow 48X9	P53A67X	Asgrow 48X9	Asgrow 48X9	Asgrow 48X9	Pioneer P53A67X	
Maturity Group	5.3	4.8	5.3	4.8	4.8	4.8	5.3	
Seed Treatment	Seed Treatment - Vitalis RZ + Innvictis Revise PBI + Duvet ST	Exceed + Warden CX II	Exceed + Warden CX II	Seed Inoculant - Dyna Start 3P; Seed Fungicide Apronmaxx; Seed Insecticide Cruisermaxx	Seed Shield (azoxystrobin, fludioxnil, sedaxane, mefenoxam) + Seed Shield (thiamethoxam)	Seed Inoculant & Treatments - FirstUp; Seed Shield Plus	Vault soybean Innoculant, Seed Shield Plus	
Tillage Operations	Fall - Chisel + Disk Harrow + Bed	Fall - Disk + Chisel + Bed	Fall - Disk + Chisel + Bed	Fall - Chisel + broadcast 50# wheat & incorporated with high speed disc	Fall - Vertical Tillage Disc +Bed	Fall - Shred Stalks, chisel, field cultivate, bedded; Spring light Do-all	Fall - Chisel - Disk and Bedded	
Irrigation System	Pivot	Pivot	Pivot	Pivot	Pivot	Pivot	Pivot	
Irrigation Inches	2.7	7.0	3.5	2.4	4.2	3.4	5.1	4.0
Rainfall Inches	7.3	21.1	18.1	23.9	25.7	16.1	16.9	16.5
Total Water	10.0	28.3	21.6	26.3	29.9	19.5	22	20.8
Bu/Inch of Water	9.4							
Fertilizer	Fall - 200 lbs/acre of 0-0-60 + 30 lbs/acre of Blackoats. In season application of Boron 10 @ 16 oz/acre + Thrve 8-21-6 @ 32 oz/acre.	Fall Poultry Litter 1.5 tons/acre	Foliar - Max-in-Boron 38 oz/acre.	Fall Poultry Litter 2.0 tons/acre; R1 - R3 Source by Sounday 1 Oz/acre + Nutrisync Boron 16 oz/acre + Urea 100 lbs/acre	None	Fall Poultry Litter 1.7 tons/acre	Lime - 2 tons/acre + 200 lbs/acre of 0-0-60	
Herbicide	Preplant Burndown - Power Max 3 @ 32 oz/acre. Burndown - Venturi 3.2 oz/acre + Varsity 2 oz/acre. Vegetative 4 - PowerMax 3 @ 32 oz/acre.	Burndown - Strut 8 oz/acre = Valor 500 WG 1 oz/acre + Glyphosate 36 oz/acre. Early season V4 - Sequence 74 oz/acre + Glyphosate 20 oz/acre. Mid Season Glyphosate 32 oz/acre.	Burndown - Strut 10 oz/acre + Leadoff 1.5 oz/acre + Intensity One 10 oz/acre + Glyphosate 32.8 oz/acre. Early season V4 - Sequence 84 oz/acre + Glyphosate 17 oz/acre. Mid Season R2 Stage - Glyphosate 35 oz/acre.	Burndown - Valor Sx 2.0 oz/acre + Strut 12 oz/acre + Makaze 40 oz/acre + Intensity One 12 oz/acre	Early Season - Mikaza 40 oz/acre + Dual 16 oz/acre at V5 growth stage.	Burndown - Panther SC 2 ox/acre + Clethodim 10 oz/acre + Honcho K6 32 oz/acre + Elevore 1 oz/acre; Preemergence Antares Complete 28 oz/acre; Vegetative Roundup PowerMax 32 oz/acre + Warrant Ultra 50 oz/acre	Burndown - Dicamba 10 fl oz/acre + Glyphosate 32 fl oz/acre + Sharpen 1.25 oz/acre; Pre-emergence - Gramoxone SL 26 fl oz/acre + Tribal 40 fl oz/acre; Post-emergence - Glyphosate 32 fl oz/acre + Prefix 32 fl oz/acre	
Insecticide, Fungicides, Dessicants	Fungicide - Trevo Elite 7 oz/acre @ R2 growth stage;R3 Growth Stage - Ravage 3.5 oz/acre + Ventrillix 2.0 oz/acre	R2 Growth Stage - Dimilin 2L 2.0 oz/acre + Tundra 2 oz/acre + Protegam YLD 4 oz/acre + Boron 32 oz/acre.	Insecticide + Fungicide R2 Growth Stage - Protegram YLD 4.3 oz/acre + Dimilin 2L 1.15 oz/acre + Tundra 3.5 oz/acre. Dessicants - Gramoxone 12 oz/acre.	Insecticide - R3 application of Dimilin 2 oz/acre + Sniper 4 oz/acre; Fungicide - R3 application of Miravis Top 14 oz/acre	R3 stage: Dimilin 2oz/acre + Miravis Top 13.7 oz/acre, R7 application of Gramoxone 24 oz/acre.	Insecticides R3 Stage - Avilier 2 oz/acre + Brigade 4.26 oz/acre; Fungicide R3 Stage - Mogul 7.0 oz/acre; Dessicant R6.5 Stage - Gramoxone 14.32 oz/acre	Insectidices - Miravis Top 13.7 fl oz/acre + Cavalier 2 fl oz/acre; Dessicant - Gramoxone SL 16 fl oz/acre	
Harvest Date	10/3/23	9/12/2023	9/22/23			9/23/23	9/27/23	
Rows Harvested	158							
Harvest Pop.	95,250	89,750	94,000	88,000	100,000	88,000	108,000	98,000
Moisture	11.8	9.6	9.7	10.4	11.6	9.4	11.3	10.35
Yield	93.7199	65.4885	75.0087	97.9898	88.6923	92.0074	93.7998	92.9036
Placing	3	7	6	1	5	4*	2	

2023 MSPB Yield Challenge - Grow It - Show - IT - Win - It									
	Brandon Litwiller	Sheldon Litwiller	Phil Robbins	Tracy Huey	Lane Giesbrecht	Christian Good	Philip Wedel	Rodney McGill	Average
Non Delta Region - Dryland									
County	Monroe	Monroe	Pontotoc	Pontotoc	Noxubee	Noxubee	Noxubee	Noxubee	120,941
Soil Type	Brooksville Silty Clay	Houston Clay	Arkabutla Silt Loam	Mantachie Sandy Loam	Brooksville Silty Clay	Vaiden Clay	Okalona Silty Clay	Brooksville Silty Clay	
Previous Crop	Corn	Corn	Soybeans	Soybeans	Corn	Corn	Corn	Cotton	
Tillage	Conventional	Minimum	Conventional	Conventional	Conventional	Conventional	Minimum Tillage	Conventional	
Planting Date	4/10/2023	3/30/2023	5/23/2023	5/25/2023	4/20/2023	4/26/2023	4/25/2023	4/23/2023	
Row Width	30	30	19	15	30	30	30	30	
Planting Pop.	90,000	120,000	135,000	140,000	120,000	119,000	123,531	120,000	
Brand/Variety	Innvictis 5558X	Pioneer 53A67X	Asgrow 48XF3	Asgrow 52X9	Pioneer 53A67X	Pioneer P53A67X	Asgrow 48X9	Asgrow 48X9	
Maturity Group	5.5	5.3	4.8	5.2	5.3	5.3	4.8	4.8	
Seed Treatment	Innoculant - Vitaliz RZ; Innvictis Revise PBI + Duvet ST	Cruiser Max	Aproxon MAX RTA + Moly	Revise PB	Exceed + Warden CX II	Vault Seed Innoculant; Helena Seed Shield Plus	Seed Shield (azoxystrobin, fludioxnil, sedaxane, mefenozam); Seed Shield (thiamethozam)	Seed Innoculant - Dyna Start 3P; Seed Fungicide - ApronMaxx; Seed Insecticide - CruiserMaxx	5.1
Tillage Operations	Fall - Chisel + Disk + Bedded	Fall - Disk - Harrow - Bedded	Spring - Field Cultivate + Harrow	Fall - V-Ripper; Spring Field Cultivator/Harrow	Fall - Disk - Chisel + Bedded	Fall Chisel + Disk + Hipper Bedded	Fall - Vertical Tillage + Bedded	Fall - Chisel + Broadcast wheat 50/acr with high speed disc	
Rainfall inches	5.7	10.2	18.2	14.4	17.7	29.2	24.5	23.8	
Bu/inch of Water	12.3	1/8	3.6	4.7					
Fertilizer	Fall - Potash 100 lbs/acre + Blackoats 30 lbs/acre; Boron 16 oz/acre + Thrive 8-21-6 @ 32 oz/acre	Fall - 0-18-36 @ 250 lbs/acre	0-18-30 + 3.35 @ 300 lb/acre + 202025 @ .5 gal/acre Broadcast	Lime - 1 ton/acre + 0-15-40 @300 lbs/acre + Sulfur 90 @ 10 lbs/acre	Fall - 0-0-60 @ 100 lbs/acre + K-Mag @ 90 lbs/acre + Boron 143 @ 7 lbs/acre; In-season Max-In-Boron 38 oz/acre	Fall application of Lime 2 tons/acre + Potash 0-0-60 @ 200 lbs/acre	No Fertilizer Added	Fall - Chicken Litter 2 tons/acre; R3 application of Source by Soundag 1 oz/acre + Nutrisync Boron 16 oz/acre; R1 application of 46-0-0 @ 100 lbs/acre	
Herbicide	Burndown - PowerMax 32 oz/acre + Venturi 3.2 oz/acre + Varsity 2 Oz/acre; V4 state - PowerMax 32 oz/acre	Pre-Plant - Grammoxone 1 32 oz/acre + Valor 4 oz/acre; V1 - Roundup + Engenia and V4 Roundup + Engenia	Burndown - Powermax 6 @ 2 pts/acre; Pre-emergence - Intimidator @ 2 pts/acre; V5 Growth Stage - Powermax 6 @ 2pts/acre + Dicamba @ 10.2 oz/acre	Planting - PreV Galvan 1 qt/acre; R3 - Glyphosate 25.6 oz/acre + Engenia 12.8 oz/acre	Burndown - Strut 10 oz/acre + Leadoff 1.5 oz/acre + Intensity 10 oz/acre + Glyphosate 32 oz/acre; V4 application of Sequence 84 oz/acre + Glyphosate 17 oz/acre; R2 Glyphosate 35 oz/acre	Burndown - Dicamba 10 oz/acre + Glyphosate 32 oz/acre + Sharpen 1.25 oz/acre; Pre-Emergence - Gramoxone 26 oz/acre + Tribal 40 oz/acre; Post-Emergence - Glyphosate 32 oz/acre + Prefix 32 oz/acre.	Mikaze 40 oz/acre at V5 Growth stage	Burndown - Valor SX 2 oz/acre= Strut @12 oz/acre + Makaze @40 oz/acre + Intensity One @12 oz/acre; V3 application of Flexstar GT @ 3.5 pints/acre; R3 application of Makaze @ 32 oz/acre	
Insecticide, Fungicide, Dessicants	Fungicide R2-R3 Stage - Trevo Elite 7 oz/acre + Ravage 3.5 oz/acre + Ventriliz 2 oz/acre	Fungicide - Azoxystobin 6 oz/acre	Insecticide R5 Growth Stage - Sniper 4 oz/acre; Fungicide R5 - Miravis Top 13 oz/acre	Insecticide - R3 Bifenthrin 4.2 oz/acre + Fungicide Trevo 6 oz/acre	Insecticide R2 - Dimilin 2L 1.15 oz/acre + Tundra 3.5 oz/acre; Fungicide Protegam YLD 4.3 oz/acre	Insecticides - Miravis Top 13.7 oz/acre + Cavalier 2 oz/acre; Deiccant - Gramoxone SL 16 oz/acre	Insecticide R3 - Dimilin 2 oz/acre & R5 - Bifenthrin 1:25 + Acephate .5 lbs/acre; Fungicide - Miravis Top 13.7 oz/acre; Dessicant - Gramaxone 24 oz/acre	Insecticide R3 application - Dimilin 2 oz/acre + Sniper 4 oz/acre; Fungicide Miravis Top 14 oz/acre	
Harvest Date	10/23/2023	9/22/2023	10/4/2023	10/27/2023	9/23/2023	10/25/2023	9/14/2023	9/22/2023	
Rows Harvested	165	98	283	215					
Harvest Pop.	87,000	110,750	102,666	120,800	110,000	98,250	104,200	88,000	102,708
Moisture	10.7	9.4	11.2	10.6	9.8	9.5	12.8	10.3	10.5
Yield	70.2719	86.3227	66.4089	67.5446	79.1340	82.4458	88.9246	82.7000	77.9691
Placing	6	2	8	7	5	4	1	3	