



2025



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SHOW IT
WIN IT**

MISSISSIPPI SOYBEAN YIELD CHALLENGE

RESULTS & PRODUCTION INFORMATION



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MISSISSIPPI SOYBEAN PROMOTION BOARD

The Mississippi Soybean Yield Challenge is funded and administered by the Mississippi Soybean Promotion Board (MSPB).

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KEY FINDINGS FROM THE MISSISSIPPI SOYBEAN YIELD CHALLENGE



2025 RESULTS MISSISSIPPI SOYBEAN YIELD CHALLENGE

The Mississippi Soybean Promotion Board established the Grow It. Show It. Win It. Mississippi Soybean Yield Challenge in the 2022 growing season to recognize and reward the top soybean growers in the state while sharing production insights with fellow producers. The inaugural challenge saw 12 completed entries, growing to 30 in 2023, 37 in 2024, and 39 in 2025. This statewide competition gives Mississippi soybean growers the opportunity to showcase their outstanding production practices in various yield divisions. By participating, growers share their production and management strategies, helping to advance soybean farming across the state.



A special thank you to Mississippi State University Extension Agents for serving as Yield Contest Officials. MSPB sincerely appreciates your help in promoting the yield challenge and certifying the yields.

FOR MORE INFORMATION, VISIT [MSSOY.ORG](https://msoy.org)

2025 YEAR IN REVIEW

The U.S. Department of Agriculture – National Agricultural Statistic Service estimated that Mississippi would plant 1,81 million acres of soybeans for 2025 which was down from 2.3 million acres for 2024. Harvested acres is estimated at 1.78 million acres with a state yield of 55 bushels per acre which is down 1 bushel per acre from 2024. The 2025 crop experienced so many ups and downs with planting stretching from March through late July. Soybeans yields with an April planting date were good considering the amount of rainfall the crop received early season and although May and June planting looked great in the field we did see some drop-off in yield due to the delayed planting.

Dr. Justin Calhoun, soybean specialist with Mississippi State University Extension, said the 2025 soybean season in Mississippi began with its fair share of challenges. Persistent rainfall during the planting window delayed fieldwork across much of the state. In areas where growers were able to plant early, stands generally looked good; however, because most fields were planted within a short window, these acres were more uniformly exposed to environmental stresses as the season progressed.

A large portion of the state's soybean acres ended up being planted later than normal, which reduced early yield potential, and a smaller share went in extremely late—some as late as July. As harvest began, early yield reports were somewhat disappointing, particularly from the earliest planted fields. Interestingly, as harvest moved into the later-planted soybeans—those seeded in late-April and even mid- to late-May—yields often held up better than expected, with several reports of very respectable performance. This helped moderate expectations for what initially appeared to be an “off” year.

Late-season rains in the Delta created some harvest complications, particularly green stem. Conversely, dry conditions in the Hills reduced yield potential for later-planted, non-irrigated acres that struggled to finish.

Overall, after a season of weather extremes and mixed outcomes, the 2025 soybean crop in Mississippi can best be described as an average, “normal” year—one that balanced early setbacks with some surprisingly strong finishes in many fields.

Mississippi State Extension irrigation specialist Dr. Drew Gholson, said the 2025 Mississippi soybean season was defined by extreme early-season rainfall that delayed planting and fostered shallow root systems, followed by a sharp mid-summer dry spell that called for more liberal irrigation management on the irrigated acres. This season, many soybean irrigators delayed their first water applications in many Delta fields to prolonged spring rain and saturation, then shifted to shorter, more frequent irrigations to support shallow root systems.

Using soil moisture sensors to guide decisions and monitor root growth and water availability helped to delay the first irrigation and management of a shallow root system that resulted in good yields in our irrigated acres in MS.

2025 YEAR IN REVIEW

Dr. Don Cook, Research Entomologist at the Delta Research and Extension Center said for the most part, early planted soybeans experienced low to moderate insect pressure. Corn earworm infestations did occur in the historical hot spots of Mississippi. Soybean looper and stink bug infestations were low to moderate in earlier planted soybeans. In later planted soybeans, Corn earworm infestations were more common. Soybean looper infestations were fairly-widespread in later planted soybeans. Looper densities were moderate but hung around for several weeks before cold fronts in late August triggered disease outbreaks that killed them off. Generally, stink bug infestations were fairly-common in late planted soybeans. Redbanded stink bugs were observed again in 2025, but not in outbreak numbers. However, there were a few fields that were treated specifically for redbanded stink bugs.

Will Maples, Extension agricultural economist said the story of the soybean market throughout the growing season has been low prices. For most of the year, the November 2025 soybean contract traded between \$10.00 and \$10.80. While prices have improved during the latter half of the year, most soybean producers are expected to have negative profit margins. Trade uncertainty was a significant factor in the low soybean prices, particularly trade with China. Due to the ongoing trade war between the U.S. and China, China did not buy any new U.S. soybeans until October. Luckily, it appears that the trade war might be coming to a close, with an agreement in place for China to purchase 12 million metric tons of U.S. soybeans in 2025, followed by another 25 million metric tons each of the next three years. This is equivalent to the average amount of soybeans China has purchased from the U.S. over the last few years. While there are still questions around China's willingness to meet these goals, it is a positive for the market that progress is being made on the trade front.

Even with issues in our planting dates and excessive early season rains our Mississippi Soybean Promotion Soybean Yield Challenge still produced some outstanding yields across the state. The early planting in the delta with irrigation was very successful and the non-delta region in East Mississippi was very successful with early planting and non-irrigated. Regardless of the conditions for maximum yields growers should prioritize planting in April.



WHAT WE LEARNED FROM THE 2023-2025 MISSISSIPPI SOYBEAN YIELD CHALLENGES

- To achieve maximum soybean yields in Mississippi, growers should prioritize planting in April. Results from the 2023–2025 Yield Challenge show that April planting consistently outperforms May and June planting across all regions of the state. April planting benefits both irrigated and non-irrigated acres and, in many cases, reduces insect and disease pressure.
- Results continue to indicate that yield gains from supplemental water are greater with an April planting date than with May or June planting. Supplemental water—whether from irrigation or rainfall—is essential for achieving top soybean yields.
- Soybean maturity group selection has a significant impact on yield in Mississippi. Growers should prioritize planting Maturity Group IV soybeans with April planting for optimal yields, using Group V only as a last option. Maturity Group IV varieties consistently achieve the highest yields when planted in April, regardless of supplemental irrigation.
- Variety selection is a critical component of maximizing yield and should be evaluated through the MAFES Official Soybean Variety Trials, the MSU Extension Soybean Variety Demonstration Program, and on-farm variety trials to ensure consistent performance across soils and planting environments. Maturity Group IV varieties ranging from 4.4 to 4.9 have performed very well across Mississippi.
- A complete seed treatment should be used regardless of planting date.
- Top yields are achieved with a final soybean plant population of 85,000 to 109,000 plants per acre. While growers often overplant, research shows that plant populations within this range can maximize yield potential while also optimizing seed costs.

A special thank you to Mississippi State University Extension Agents for serving as Yield Contest Officials. MSPB sincerely appreciates your help in promoting the yield challenge and certifying the yields.

SUMMARY OF PRODUCTION PRACTICES ACROSS 2023-2025:

DELTA IRRIGATED DIVISION

| | 2023 | | | 2024 | | | 2025 | | |
|----------------------|----------------------|----------------------------|------------------------|-----------------|-----------------------|-----------------------|----------------------|------------------|-----------------|
| | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd |
| Grower | Adron Belk | Rob Baker | Bubba DeLoach | Thomas Neblett | Terry Schmidt | Preston Arrington | Adron Belk | Joseph Melton | Daniel Shannon |
| County | Sunflower | Washington | Leflore | Coahoma | Coahoma | Sunflower | Sunflower | Tunica | Tunica |
| Variety | Pioneer P44A21X | Revere 4795XS | Asgrow AG48XF2 | AgriGold 4910XF | Beck's 4327XF | Pioneer P47A64X | Progeny P 4505RXS | AgriGold G4910XF | Pioneer P46A90E |
| Soil Type | Forestdale Silt Loam | Forestdale Silty Clay Loam | Tensas Silty Clay Loam | Alligator Clay | Forestdale Silty Clay | Forestdale Silty Loam | Forestdale Silt Loam | Dundee Silt Loam | Sharkey Clay |
| Planting Date | 4.20.2023 | 4.14.2023 | 4.15.2023 | 4.24.2024 | 4.16.2024 | 4.08.2024 | 4.28.2025 | 4.18.2025 | 4.18.2025 |
| Row Spacing | 30" | 40" Twin | 38" | 38" Twin | 30" | 30" | 30" | 15" | 38" Twin |
| Harvest Pop. | 74,833 | 122,670 | 105,166 | 133,142 | 69,000 | 101,000 | 83,500 | 118,667 | 99,667 |
| Yield | 95.3463 | 94.2196 | 92.724 | 104.3678 | 101.9969 | 101.9969 | 106.7481 | 106.3506 | 101.7092 |

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SUMMARY OF PRODUCTION PRACTICES ACROSS 2023-2025:

DELTA NON-IRRIGATED DIVISION

| | 2023 | | | 2024 | | | 2025 | | |
|----------------------|----------------------|------------------------|-----------------------|------------------------|-------------------------|------------------|-----------------|----------------|--------------------------|
| | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd |
| Grower | Lawanda Morris | Collins Fyfe | Matt Williamson | Thomas Neblett | Collins Fyfe | Wyatt Clark | Doty Porter | Daniel Shannon | Joseph Melton |
| County | Bolivar | Tunica | Sunflower | Bolivar | Tunica | Tunica | Leflore | Tunica | Tunica |
| Variety | AgriGold G4190RX | Asgrow AG46XF3 | Great Heart GT-4677XS | Revere 4826XSf | Northrup King NK42-T5XF | Asgrow AG48X9 | Pioneer P48A14 | Armor 44-D49 | AgriGold G4910XF |
| Soil Type | Dowling Sharkey Clay | Tensas Silty Clay Loam | Dunde Silt Loam | Dundee Silty Clay Loam | Sharkey Clay | Dundee Silt Loam | Dubbs Silt Loam | Alligator Clay | Commerce Silty Clay Loam |
| Planting Date | 5.03.2023 | 4.12.2023 | 4.17.2023 | 4.18.2024 | 4.19.2024 | 4.07.2024 | 4.14.2025 | 3.25.2025 | 6.02.2025 |
| Row Spacing | 38" | 38" | 38" | 38" | 38" Twin | 30" | 38" | 38" Twin | 7.5" |
| Harvest Pop. | 106,833 | 111,533 | 131,000 | 106,000 | 111,333 | 99,333 | 102,300 | 94,833 | 155,833 |
| Yield | 69.1279 | 69.0464 | 62.5146 | 78.6458 | 67.8891 | 65.6476 | 77.456 | 74.2063 | 65.0516 |

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SUMMARY OF PRODUCTION PRACTICES ACROSS 2023-2025:

NON-DELTA IRRIGATED DIVISION

| | 2023 | | | 2024 | | | 2025 | | |
|----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------|-------------------|
| | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd |
| Grower | Rodney McGill | Philip Good | Brandon Litwiller | Lane Giesbrecht | Phillip Wedel | Rodney McGill | Brandon Litwiller | Christian Good | Lance Bontrager |
| County | Noxubee | Noxubee | Monroe | Noxubee | Noxubee | Noxubee | Monroe | Noxubee | Noxubee |
| Variety | Asgrow AG48X9 | Pioneer P53A67X | Pioneer P53A67X | Asgrow AG48X9 | Asgrow AG48X9 | Asgrow AG48X9 | Innactivis A5248XF | Progeny P 4947XFS | Pioneer P45Z75E |
| Soil Type | Brooksville Silty Clay | Vaiden Silty Clay | Vaiden Silty Clay |
| Planting Date | 4.23.2023 | 4.24.2023 | 4.10.2023 | 5.07.2024 | 5.02.2024 | 5.23.2024 | 4.16.2025 | 4.19.2025 | 4.17.2025 |
| Row Spacing | 15" | 30" | 30" | 30" | 30" | 15" | 30" | 30" | 30" |
| Harvest Pop. | 120,000 | 119,000 | 90,000 | 88,250 | 121,000 | 115,000 | 64,000 | 108,000 | 115,000 |
| Yield | 97.9898 | 93.7998 | 93.7199 | 84.3415 | 77.4176 | 74.9671 | 97.4957 | 89.1892 | 86.1923 |

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SUMMARY OF PRODUCTION PRACTICES ACROSS 2023-2025:

NON-DELTA NON-IRRIGATED DIVISION

| | 2023 | | | 2024 | | | 2025 | | |
|----------------------|--------------------|-------------------|------------------------|------------------|-------------------|--------------------|------------------------|------------------|-------------------|
| | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd |
| Grower | Phillip Wedel | Sheldon Litwiller | Rodney McGill | Chris Taylor | Michael Massey | Phillip Wedel | Will & Trey Chancellor | Chris Taylor | Seth Koehn |
| County | Noxubee | Monroe | Noxubee | Tate | Tate | Noxubee | Noxubee | Tate | Noxubee |
| Variety | Asgrow AG48Z9 | Pioneer P53A67X | Asgrow AG48X9 | Pioneer P47A64X | Innvictis A4690XF | Asgrow AG48X9 | Pioneer P45Z75E | Pioneer P49Z02E | Asgrow AG46XF3 |
| Soil Type | Okolona Silty Clay | Houston Clay | Brooksville Silty Clay | Falaya Silt Loam | Collins Silt Loam | Okolona Silty Clay | Vaiden Silty Clay | Falaya Silt Loam | Vaiden Silty Clay |
| Planting Date | 4.25.2023 | 3.30.2023 | 4.23.2023 | 4.01.2024 | 4.24.2024 | 5.01.2024 | 4.16.2025 | 4.10.2025 | 4.11.2025 |
| Row Spacing | 30" | 30" | 30" | 15" | 38" Twin | 30" | 38" Twin | 15" | 30" |
| Harvest Pop. | 123,531 | 120,000 | 120,000 | 105,786 | 116,166 | 107,000 | 110,000 | 102,300 | 93,000 |
| Yield | 88.9246 | 86.3227 | 82.7 | 104.5429 | 88.3687 | 69.1091 | 90.8474 | 86.886 | 81.4384 |

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2025 YIELD CHALLENGE RESULTS & PRODUCTION PRACTICES



DELTA IRRIGATED DIVISION



DIVISION AVERAGES:

Harvest Population: 117,795
Irrigation Inches: 8.9
Rainfall Inches: 13.1
Total Water: 22.4
Bushel/Inch of Water: 3.7
Moisture: 11.8
Yield: 89.0059

1 ADRON BELK

yield: 106.7481

County: Sunflower
Soil Type: Forestdale Silt Loam
Previous Crop: Corn
Tillage: Conventional
Planting Date: 4/12/2025
Row Width: 30"
Planting Population: 102,000
Variety: Progeny P 4505RXS
Maturity Group: 4.5
Seed Treatments: RenPro Plus
Tillage Operations: Fall - Lemken Disk + Kelly Diamond Harrow + Orthman Bedder + Roller
Irrigation System: Furrow
Irrigation Inches: 4.0
Rainfall Inches: 22.6
Total Water: 26.6

Fertilizer: Spring - Banded on top of row 3-18-18 starter @ 4.5 gallons/A
Herbicide: Burndown - Roundup 32 oz/A + 2,4-D 16 oz/A + Valor EZ 2 oz/A; V4 - Roundup 16 oz/A + Sequence 48 oz/A.
Insecticide, Fungicides, Desiccants:
Desiccant - Gramoxone 16 oz/acre + 0.25 v/v of 80/20 surfactant
Harvest Date: 9/2/2025
Harvest Population: 83,500
Moisture: 12.0

2 JOSEPH MELTON

yield: 106.3506

County: Tunica
Soil Type: Dundee Silty Loam
Previous Crop: Corn
Tillage: Conventional
Planting Date: 4/18/2025
Row Width: 15"
Planting Population: 130,000
Variety: AgriGold 4910XF
Maturity Group: 4.9
Seed Treatments: MicroSURGE + AgriShield Plus
Tillage Operations: Fall - Disk + V-Ripped + Kelly Diamond
Irrigation System: Furrow
Irrigation Inches: 5.0
Rainfall Inches: 12.3
Total Water: 17.3

Fertilizer: Broadcast - Ammonia sulfate 75 lbs/A + Potash 75 lbs/A; Band application of Del Star 1/2 gallon/A
Herbicide: Pre-Emergence - Boundary 1.75 pints/A; R2 - Roundup 40 oz/A + Liberty 1 qt/A.
Insecticide, Fungicides, Desiccants:
R3 - Miravis Top 7 oz/A; R4 - Besiege 7 oz/A; R7 - Gramoxone 10 oz/A.
Harvest Date: 9/29/2025
Harvest Population: 118,666
Moisture: 14.1

3 DANIEL SHANNON

yield: 101.7092

County: Tunica
Soil Type: Sharkey Clay
Previous Crop: Rice
Tillage: Conventional
Planting Date: 4/18/2025
Row Width: 38" Twin
Planting Population: 125,000
Variety: Pioneer P46A90E
Maturity Group: 4.6
Seed Treatments: Exceed + CruiserMaxx APX
Tillage Operations: Fall - disk + row up & row down
Irrigation System: Furrow
Irrigation Inches: 12.0
Rainfall Inches: 6.5
Total Water: 18.5

Fertilizer: Potacs - 100 lbs/A
Herbicide: Pre-Emergence -Tendova 1.75 qts/A + Gramoxone 1 qt/A, V6 - Roundup 32 oz/A
Insecticide, Fungicides, Desiccants:
R3 - Miravis Top 13.7 oz/A + Tundra 5 oz/A + Dimilin 2 oz/A; R6.5 - Gramoxone 12.0 oz/A
Harvest Date: 9/16/2025
Harvest Population: 99,667
Moisture: 10.1

DELTA IRRIGATED DIVISION

| Grower | County | Variety | Soil Type | Plant Date | Row Spacing | Harvest Population | Yield |
|---------------------|-----------|-------------------|-----------------------------|------------|-------------|--------------------|----------|
| Adron Belk | Sunflower | Progeny P 4505RXS | Forestdale Silt Loam | 4/12/25 | 30" | 83,500 | 106.7481 |
| Joseph Melton | Tunica | AgriGold G4910XF | Dundee Silty Loam | 4/18/25 | 15" | 118,667 | 106.3506 |
| Daniel Shannon | Tunica | Pioneer P46A90E | Sharkey Clay | 4/18/25 | 38" Twin | 99,667 | 101.7092 |
| Chip Meredith | Coahoma | Revere 47-F77 | Dundee Very Fine Silty Loam | 4/12/25 | 40" | 99,166 | 101.1934 |
| Madison DeLoach | Leflore | Asgrow AG49XF4 | Alligator Clay | 4/16/25 | 38" Twin | 116,333 | 99.0983 |
| Rocco Glynn Morris | Bolivar | Asgrow AG49XF4 | Dowling Sharkey Clay | 4/15/25 | 38" Twin | 132,000 | 96.9117 |
| Lawanda Irby Morris | Bolivar | Asgrow AG48XF5 | Pearson silt Loam | 4/11/25 | 38" Twin | 128,000 | 96.7102 |
| Caleb Dodson | Leflore | Asgrow AG49XF4 | Sharkey Clay | 4/14/25 | 38" Twin | 107,667 | 87.5006 |
| Gary Bright | Leflore | Asgrow AG46FX3 | Dubbs Silt Loam | 4/17/25 | 19" | 132,000 | 81.6252 |
| Blake Perry | Coahoma | Progeny P 4505RXS | Alligator Clay | 4/17/25 | 30" | 107,333 | 81.5145 |
| Taylor Watson | Tunica | Progeny P 4505RXS | Sharkey Clay | 4/22/25 | 30" | 113,167 | 69.1168 |
| Adam Baird | Tunica | Pioneer P47Z70BLX | Teksob Fine Sandy Loam | 5/17/25 | 7.5" | 145,833 | 65.904 |
| Chris Perry | Tunica | Pioneer P4848XF | Sharkey Clay | 4/28/25 | 10" | 147,000 | 63.3442 |

DIVISION FINDINGS:

- **Yield:** 1st-3rd averaged 104.9 bushels/acre, ranging from 101.7 – 106.7 bushels/acre. This division averaged 89.0 bushels/acre across 13 entries.
- **Crop Information:** Winners planted a maturity group IV (4.5-4.9) and all achieved a planting date in April (4/12-4/18). Final harvest population for the top 3 winners were 100.6 thousand plants/acre. The division harvest population averaged 117.7 thousand plants/acre.
- **Row Spacing:** 1st place planted in 30" rows, 2nd place planted in 15" rows, and 3rd place planted in a 38" twin row spacing.
- **Water:** The winners applied irrigation water by the furrow method and average 7.0" applied plus the addition of 13.8" of rainfall equally a total of 20.8" of water. The ratio of bushels/inch of water was 5.0. The overall division average of 3.7" bushel/inch of water was obtained across 13 entries.
- **Treatments/Applications:** Seed treatments, foliar fungicides, and insecticides were utilized for the winners.
- **Tillage:** Conventional tillage was used for the 1st-3rd place winners.

DIVISION AVERAGES:

Harvest Population: 117,795

Irrigation Inches: 8.9

Rainfall Inches: 13.1

Total Water: 22.4

Bushel/Inch of Water: 3.7

Moisture: 11.8

Yield: 89.0059



DELTA NON-IRRIGATED DIVISION



DIVISION AVERAGES:

Harvest Population: 124,233

Rainfall Inches: 16.4

Bushel/Inch of Water: 3.6

Moisture: 12.2

Yield: 56.0960

1 DOTY PORTER

yield: 77.4560

County: Leflore
Soil Type: Dubbs Silt loam
Previous Crop: Soybean
Tillage: Conventional
Planting Date: 4/14/2025
Row Width: 38"
Planting Population: 110,000
Variety: Pioneer P48A14
Maturity Group: 4.8
Seed Treatments: Seed Shield
Tillage Operations: Fall - rip till + bedded
Rainfall Inches: 24.9
Bu/Inch of Water: 3.11

Fertilizer: None
Herbicide: Enlist 1 qt/A + Sequence 48 oz/A
Insecticide, Fungicides, Desiccants: R7 - Desiccants - Gramoxone 24 oz/A
Harvest Date: 8/26/2025
Harvest Population: 102,300
Moisture: 10.7

2 DANIEL SHANNON

yield: 74.2063

County: Tunica
Soil Type: Aligator Clay
Previous Crop: Soybeans
Tillage: Minimum Tillage
Planting Date: 3/25/2025
Row Width: 38" Twin
Planting Population: 125,000
Variety: Armor 44-D49
Maturity Group: 4.4
Seed Treatments: Exceed, CruiserMaxx APX
Tillage Operations: Fall tillage Subsoiled and planted flat
Rainfall Inches: 15.1
Bu/Inch of Water: 4.91

Fertilizer: Potash @ 100 lb/A + Bio-K-S @ 1/2 gallon/A
Herbicide: Pre-Emergence - Tendovo @ 1.75 quarts/A
Insecticide, Fungicides, Desiccants: R3 - Revylok @ 5.5 oz/A + Tundra @ 6.4 oz/A + Dimilin @ 2.0 oz/A; Desiccant - R 6.5 - Gramoxone @ 12.0 oz/A
Harvest Date: 8/15/2025
Harvest Population: 94,833
Moisture: 11.9

3 JOSEPH MELTON

yield: 65.0516

County: Tunica
Soil Type: Commerce Silty Clay Loam
Previous Crop: Soybeans
Tillage: Conventional
Planting Date: 6/2/2025
Row Width: 7.5"
Planting Population: 168,000
Variety: AgriGold G4910XF
Maturity Group: 4.9
Seed Treatments: Talc USA "MicroSURGE" + Agri Shield Plus
Tillage Operations: Fall - V-Ripped and Field Cultivate
Rainfall Inches: 11.0
Bu/Inch of Water: 5.9

Fertilizer: None
Herbicide: Pre-Emergence - Boundary 1.75 pts/A; R2 - Roundup 40 oz/A + Liberty 32 oz/A.
Insecticide, Fungicides, Desiccants: R3 - Miravis Top 7 oz/A + Besiege 7 oz/A
Harvest Date: 10/22/2025
Harvest Population: 155,833
Moisture: 13.5

DELTA NON-IRRIGATED DIVISION

| Grower | County | Variety | Soil Type | Plant Date | Row Spacing | Harvest Population | Yield |
|---------------------|---------|-------------------|--------------------------|------------|-------------|--------------------|---------|
| Doty Porter | Leflore | Pioneer P48A14 | Dubbs Silt Lom | 4/14/25 | 38" | 102,300 | 77.4560 |
| Daniel Shannon | Tunica | Armor 44-D49 | Alligator Clay | 3/25/25 | 38" Twin | 94,833 | 74.2063 |
| Joseph Melton | Tunica | AgriGold G4910XF | Commerce Silty Clay Loam | 6/02/25 | 7.5" | 155,833 | 65.0516 |
| Chris Perry | Tunica | Asgrow AG49XF4 | Teksob Fine Sandy Loam | 4/15/25 | 10" | 125,333 | 50.8883 |
| Collins Fyfe | Tunica | Pioneer P46A90LX | Sharkey Clay | 4/02/25 | 38" Twin | 83,500 | 50.5757 |
| Lawanda Irby Morris | Bolivar | AgriGold G3724XF | Dowling Sharkey Clay | 4/24/25 | 38" Twin | 122,000 | 38.1518 |
| Adam Baird | Tunica | Pioneer P48Z70BLX | Tensas Silty Clay | 4/29/25 | 7.5" | 185,833 | 36.3421 |

DIVISION FINDINGS:

- **Yield:** 1st-3rd averaged 72.2 bushels/acre, ranging from 65.0 – 77.4 bushels/acre. The division averaged 56.1 bushels/acre across 7 entries.
- **Crop Information:** Winners planted a maturity group IV (4.4-4.9) and planting dates ranged from April 14th for the 1st place winner to June 2nd for the 3rd place winner. Final harvest population for the winners was 117.6 thousand plants/acre. The division harvest population averaged 124.2 thousand plants/acre.
- **Water:** The winners received 17.0" of rainfall during the growing season and a conversion of 4.6 bushels/inch of water. The overall division average of 3.6 bushel/inch of water was obtained across 7 entries.
- **Treatments/Applications:** Seed treatments were used for the top 3 winners. No insecticides or fungicide were used for the 1st place winner.

DIVISION AVERAGES:

Harvest Population: 124,233

Rainfall Inches: 16.4

Bushel/Inch of Water: 3.6

Moisture: 12.2

Yield: 56.0960



NON-DELTA IRRIGATED DIVISION



DIVISION AVERAGES:

Harvest Population: 89,971

Irrigation Inches: 4.7

Rainfall Inches: 26.3

Total Water: 30.6

Bushel/Inch of Water: 2.7

Moisture: 10.7

Yield: 80.3299

1 BRANDON LITWILLER yield: 97.4957

County: Monroe
Soil Type: Brooksville Silty Clay
Previous Crop: Corn
Tillage: Conventional
Planting Date: 4/15/2025
Row Width: 30"
Planting Population: 90,000
Variety: Innvictis A5284XF
Maturity Group: 5.2
Seed Treatments: Revize PBI + Vitalis RZ
Tillage Operations: Fall - Disk + Bedded
Irrigation System: Pivot
Irrigation Inches: 5.1
Rainfall Inches: 17.6
Total Water: 22.7
Bu/Inch of Water: 4.3

Fertilizer: Lime Variable Rate up to 2 tons/A + P and K up to 300 lbs/A.
Herbicide: Emergence - Roundup 40 oz/A + Avatar 16 oz/A + Varsity 2 oz/A + Contriver 6.4 oz/A; R1 - Roundup 30 oz/A + Vixen 0.25 v/v + MavRx.
Insecticide, Fungicides, Desiccants: R1 - Ravage 3.2 oz/A + Delivered K @ 1/2 gallon/A + Ventrilix 3 oz/A + Trevo Elite 7 oz/A + Covert 0.25 v/v.
Harvest Date: 9/22/2025
Harvest Population: 64,000
Moisture: 11.9

2 CHRISTIAN GOOD yield: 89.1892

County: Noxubee
Soil Type: Vaiden Silty Clay
Previous Crop: Corn
Tillage: Conventional
Planting Date: 4/19/2025
Row Width: 30"
Planting Population: 125,000
Variety: Progeny P 4947XFS
Maturity Group: 4.9
Seed Treatments: Hi-Stick N/T + Seed Shield Plus
Tillage Operations: Fall - Vertical Till + Chisel + High Speed Disc + Bed
Irrigation System: Pivot
Irrigation Inches: 6.1
Rainfall Inches: 31.5
Total Water: 37.6
Bu/Inch of Water: 2.4

Fertilizer: Broadcast - Broiler Litter 2 tons/A; ENC Flex 11-6-5 at rate of 16 oz/A with Post Emergence
Herbicide: Burndown - Roundup Powermax 3 @ 30 oz/A + Clethodim 2EC @ 16 oz/A + Sharpen 1.5 oz/A; Pre-Emergence - Gramoxone 3.0 @ 28 oz/A + Boundary 24 oz/A; Post-Emergence - Prefix 32 oz/A + Roundup Powermax 3 @ 30 oz/A
Insecticide, Fungicides, Desiccants: R3 - Miravis Top 13.7 oz/A + Ventrillix 2L @ 2 oz/A; R4 - Intrepid Edge 5 oz/A + Ravage II 1.67 oz/A; Desiccant R6.5 - Gramoxone SL 3.0 @ 12.8 oz/A.
Harvest Date: 9/12/2025
Harvest Population: 108,000
Moisture: 10.8

3 LANCE BONTRAGER yield: 86.1923

County: Noxubee
Soil Type: Vaiden Silty Clay
Previous Crop: Cotton
Tillage: Conventional
Planting Date: 4/17/2025
Row Width: 30"
Planting Population: 115,000
Variety: Pioneer P45Z75E
Maturity Group: 4.5
Seed Treatments: Dyna-Start 3P + ApronMaxx + Dyna-Shield Imidacloprid 5
Tillage Operations: Fall Disked 2X and Bedded
Irrigation System: Pivot
Irrigation Inches: 2.3
Rainfall Inches: 23.5
Total Water: 26.8
Bu/Inch of Water: 3.2

Fertilizer: Broadcast - Broiler Litter 2 tons/A; Infurrow - 3-18-18 @7gal/A; Foliar - Liquid Calcium 1 gal/A + Nutrient Plus 1 qt/A + Boron 16 oz/A.
Herbicide: Pre-Emergence - Intensity 1 @ 10 oz/A + Leadoff 1.4 oz/A + Makaze 1 qt/A + Strut 9 oz/A; V2 - Prefix 32 oz/A + Radiate 2 oz/A.
Insecticide, Fungicides, Desiccants: R3 - Miravis Top 14.0 oz/A + Intrepid Edge 5 oz/A; Desiccant R6.5 - Gramoxone SL 3.0 @ 16 oz/A.
Harvest Date: 9/2/2025
Harvest Population: 115,000
Moisture: 11.8

NON-DELTA IRRIGATED DIVISION

| Grower | County | Variety | Soil Type | Plant Date | Row Spacing | Harvest Population | Yield |
|--------------------|---------|-------------------|------------------------|------------|-------------|--------------------|---------|
| Brandon Litwiller | Monroe | Innvictis A5284XF | Brooksville Silty Clay | 4/15/25 | 30" | 64,000 | 97.4957 |
| Christian Good | Noxubee | Progeny P 4947XFS | Vaiden Silty Clay | 4/19/25 | 30" | 108,000 | 89.1892 |
| Lance Bontrager | Noxubee | Pioneer P45Z75 | Vaiden Silty Clay | 4/17/25 | 30" | 115,000 | 86.1923 |
| Phillip Giesbrecht | Noxubee | Pioneer P48A14E | Brooksville Silty Clay | 4/15/25 | 30" | 101,000 | 84.5793 |
| Lane Giesbrecht | Noxubee | Pioneer P48A14E | Brooksville Silty Clay | 4/16/25 | 30" | 95,000 | 75.2357 |
| Phillip Wedel | Noxubee | Asgrow AG49XF4 | Brooksville Silty Clay | 5/22/25 | 30" | 85,800 | 72.4840 |
| Austin Giesbrecht | Noxubee | Pioneer P48A14E | Brooksville Silty Clay | 4/17/25 | 30" | 61,000 | 57.1334 |

DIVISION FINDINGS:

- **Yield:** 1st-3rd averaged 90.9 bushels/acre, ranging from 97.5 bushels/acre for 1st place winner to 86.2 bushels/acre for the 3rd place winner. The division averaged 80.3 bushels/acre across 7 entries.
- **Crop Information:** Winners planted a maturity group IV and V and all planted between April 17th – April 19th. Final harvest population for the winners was 96.7 thousand plants/acre. The division harvest population averaged 89.9 thousand plants/acre.
- **Row Spacing:** 1st-3rd winners planted in 30" row spacing which is traditionally planted in East Mississippi.
- **Water:** The winners applied irrigation water by the pivot method and average 4.5" applied plus the addition of 24.2" of rainfall equally a total of 29.0" of water. The ratio of bushels/inch of water was 3.3 for the top 3 growers. The overall division average of 2.7 bushel/inch of water was obtained across 7 entries.
- **Treatments/Applications:** Seed treatments, foliar fungicides, and insecticide were utilized for the top winners.
- **Tillage:** Conventional tillage was used for the 1st-3rd place winners. Fall tillage was utilized with stale seedbed planting in the spring.

DIVISION AVERAGES:

Harvest Population: 89,971
Irrigation Inches: 4.7
Rainfall Inches: 26.3
Total Water: 30.6
Bushel/Inch of Water: 2.7
Moisture: 10.7
Yield: 80.3299



NON-DELTA NON-IRRIGATED DIVISION



DIVISION AVERAGES:

Harvest Population: 96,530

Rainfall Inches: 25.0

Bushel/Inch of Water: 3.1

Moisture: 11.7

Yield: 74.4186

1

WILL CHANCELLOR

yield: 90.8474

County: Noxubee

Soil Type: Vaiden Silty Clay

Previous Crop: Cotton

Tillage: Conventional

Planting Date: 4/16/2025

Row Width: 38" Twin

Planting Population: 120,000

Variety: Pioneer P45Z75E

Maturity Group: 4.5

Seed Treatments: Dyna Start 3P+ + ApronMaxx + Dyna-Shield Imidicloprid 5

Tillage Operations: Fall - Chisel + speed disk + hipper; Spring - harrow

Rainfall Inches: 30.3

Bu/Inch of Water: 3.0

Fertilizer: Fall - Variable rate of Lime; Variable rate of 18-46-0 + Potash; R3 - Potash 100 lbs/A + AMS 100 lbs/A + Nutrisync Boraan @ 16 oz/A.

Herbicide: Burndown - Makaze @ 40 oz/A + Valor 2 oz/A + Intensity 12 oz/A + Elevore 1 oz/A; Pre-Emergence - Gramoxone @ 24 oz/A + Intimidator 32 oz/A + Infuse @ 24 oz/A.

Insecticide, Fungicides, Desiccants: R3 - application of Miravis Top 13.7 oz/A + Intrepid Edge 5 oz/A; R 5.5 - Intrepid Edge 5 oz/A; R 7 - Gramoxone 16 oz/A.

Harvest Date: 8/26/2025

Harvest Population: 110,000

Moisture: 10.2

2

CHRIS TAYLOR

yield: 86.8860

County: Tate

Soil Type: Falaya Silt Loam

Previous Crop: Corn

Tillage: Minimum Tillage

Planting Date: 4/10/2025

Row Width: 15"

Planting Population: 125,000

Variety: Pioneer P49Z02E

Maturity Group: 4.9

Seed Treatments: LumiGEN + VERDESIAN + LumiTreo + Seed Coat

Tillage Operations: Fall and Spring Vertical Till

Rainfall Inches: 26.3

Bu/Inch of Water: 3.3

Fertilizer: Broadcast - 0-46-0 125 lbs/A + 0-0-60 250 lbs/A + AMS 75 lbs/A; Foliar - Perc Plus 24 oz/A + Microvite 32 oz/A + Boron 8 oz/A + Calcium Plus 32 oz/A + Crop Karb 64 oz/A

Herbicide: Pre Emergence - Anthem Max 2.5 oz/A; Post Emergence - Anthem Max 2.5 oz/A + Liberty 40 oz/A + Roundup 32 oz/A.

Insecticide, Fungicides, Desiccants: R3 - Bifethrin 4.2 oz/A + Dimilin 3 oz/A + Revytek 8 oz/aAcre; Desiccant R6.6 Gramoxone 12 oz/A.

Harvest Date: 9/29/2025

Harvest Population: 102,300

Moisture: 12.3

3

SETH KOEHN

yield: 81.4384

County: Noxubee

Soil Type: Vaiden Silty Clay

Previous Crop: Cotton

Tillage: Minimum Tillage

Planting Date: 4/11/2025

Row Width: 30"

Planting Population: 120,000

Variety: Asgrow AG46XF3

Maturity Group: 4.6

Seed Treatments: Seedshield Max plus Firstup Innoculant

Tillage Operations: Fall - Field Cultivate + Bedded

Rainfall Inches: 26.2

Bu/Inch of Water: 3.0

Fertilizer: 0-46-0 @ 98 lb/A + 0-0-60 @ 184 lbs/A + Sulfur 21.5 lbs/A + Boron 14.3% @ 4 lbs/A + Zinc Sulfate 6 lbs/A.

Herbicide: Burndown - Clethodim 10.9 oz/A + Fire-Zone 5.46 oz/A + Flumi 1.96 oz/A + Oracle 8.24 oz/A + Roundup 30.9 oz/A; R1 - Roun 30.5 oz/A + Prefix 32.5 oz/A; R2 - Roundup PowerMAX @ 33 oz/A; Desiccation - Gramoxone SL 3.0 @ 16.59 oz/A + Induce 15.6 oz/A.

Insecticide, Fungicides, Desiccants: Dimilin 2.2 oz/A + Mogul 8.33 oz/A.

Harvest Date: 9/5/2025

Harvest Population: 93,000

Moisture: 14.5

NON-DELTA NON-IRRIGATED DIVISION

| Grower | County | Variety | Soil Type | Plant Date | Row Spacing | Harvest Population | Yield |
|------------------------|---------|------------------------|------------------------|------------|-------------|--------------------|---------|
| Will & Trey Chancellor | Noxubee | Pioneer P45Z75E | Vaiden Silty Clay | 4/16/25 | 38" Twin | 110,000 | 90.8474 |
| Chris Taylor | Tate | Pioneer P49Z02E | Falaya Silt Loam | 4/10/25 | 15" | 102,300 | 86.8860 |
| Seth Koehn | Noxubee | Asgrow AG46XF3 | Vaiden Silty Clay | 4/11/25 | 30" | 93,000 | 81.4384 |
| Marshall Litwiller | Monroe | Innvictis A5284XF | Brooksville Silty Clay | 4/16/25 | 30" | 71,833 | 80.0619 |
| Douglas K. Mitchell | Alcorn | Great Heart GT-4791XFS | Arkabutla Silt Loam | 3/28/25 | 15" | 107,500 | 79.2053 |
| Christian Good | Noxubee | Progeny P 4947XFS | Griffith Silty Clay | 4/19/25 | 30" | 89,333 | 77.5751 |
| Quinten Graber | Noxubee | Beck's 4999XF | Brooksville Silty Clay | 3/28/25 | 30" | 72,000 | 77.2295 |
| Alan Atkins | Monroe | Asgrow AG49XF4 | Vaiden Silty Clay | 4/15/25 | 15" | 71,833 | 75.1390 |
| Brandon Litwiller | Monroe | Pioneer P53Z60LX | Brooksville Silty Clay | 4/16/25 | 30" | 82,667 | 74.5257 |
| Sheldon Litwiller | Monroe | Dyna-Gro S49XF43S | Houston Clay | 4/20/25 | 20" | 96,833 | 62.6491 |
| Phillip Giesbrecht | Noxubee | Pioneer P56A71E | Brooksville Silty Clay | 4/17/25 | 30" | 97,000 | 59.9897 |
| Ivan Koehn | Noxubee | Beck's 4999XF | Leeper Silty Clay | 6/05/25 | 30" | 111,200 | 47.4759 |

DIVISION FINDINGS:

- **Yield:** 1st-3rd averaged 86.4 bushels/acre, ranging from 90.8 bushels/acre for the 1st place winner to 81.4 bushels/acre for the 3rd place winner. The division averaged 74.4 bushels/acre across 12 entries.
- **Crop Information:** Winners planted a maturity group IV (4.5-4.9) and the winners planted between April 15th – April 19th. Final harvest population for the winners was 106.1 thousand plants/acre. The division harvest population averaged 96.5 thousand plants/acre.
- **Row Spacing:** 1st place winner was 38" twin, 2nd place winner was 15", and the 3rd place winner planted in 30" row spacing.
- **Water:** The winners received 27.6" of rainfall during the growing season and a conversion of 3.1 bushels/inch of water. The overall division average of 3.1 bushel/inch of water was obtained across 12 entries.
- **Treatments/Applications:** Seed treatments, insecticides, and fungicides were used for the 1st-3rd place winners.
- **Tillage:** Conventional tillage was used for the 1st place winner with 2nd and 3rd place winners utilizing a minimum tillage system with all tillage done in the fall.

DIVISION AVERAGES:

Harvest Population: 96,530

Rainfall Inches: 25.0

Bushel/Inch of Water: 3.1

Moisture: 11.7

Yield: 74.4186



THANK YOU

We want to commend all entrants and congratulate the winners of the 2025 Grow It. Show It. Win It. Mississippi Soybean Yield Challenge! We had a very difficult beginning to the 2025 crop year but we appreciate the participation of all producers in the contest and their willingness to share production methods and management practices with the Mississippi soybean industry. Stay tuned for updates and information on the 2026 Mississippi Soybean Yield Challenge by visiting the MSPB website.

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MSPB Yield Challenge Coordinator

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