

MISSISSIPPI WHEAT & OAT

VARIETY TRIALS, 2023

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MISSISSIPPI'S OFFICIAL VARIETY TRIALS



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MS AGRICULTURAL AND
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MISSISSIPPI'S OFFICIAL VARIETY TRIALS

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MSU Extension Service
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Mississippi State University

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Plant Pathologist
Delta Research and Extension Center
Stoneville, MS

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Interim Associate Director, MAFES
Department Head
Plant and Soil Sciences
Mississippi State University

JOSHUA WHITE

Manager, Forage Variety Testing
Plant and Soil Sciences
Mississippi State University

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Mississippi Wheat and Oat Variety Trials, 2023

BRAD BURGESS

Director, Variety Evaluations
Mississippi State University

TOM ALLEN

Associate Extension/Research Professor
Delta Research and Extension Center

JAKE BULLARD

Assistant Director, Variety Evaluations
Mississippi State University

ERICK LARSON

Extension/Research Professor
Grain Crops Specialist
Plant and Soil Sciences
Mississippi State University

TYLER SOIGNIER

Research/Extension Program Manager
MAFES Brown Loam Branch Experiment Station

JOSHUA WHITE

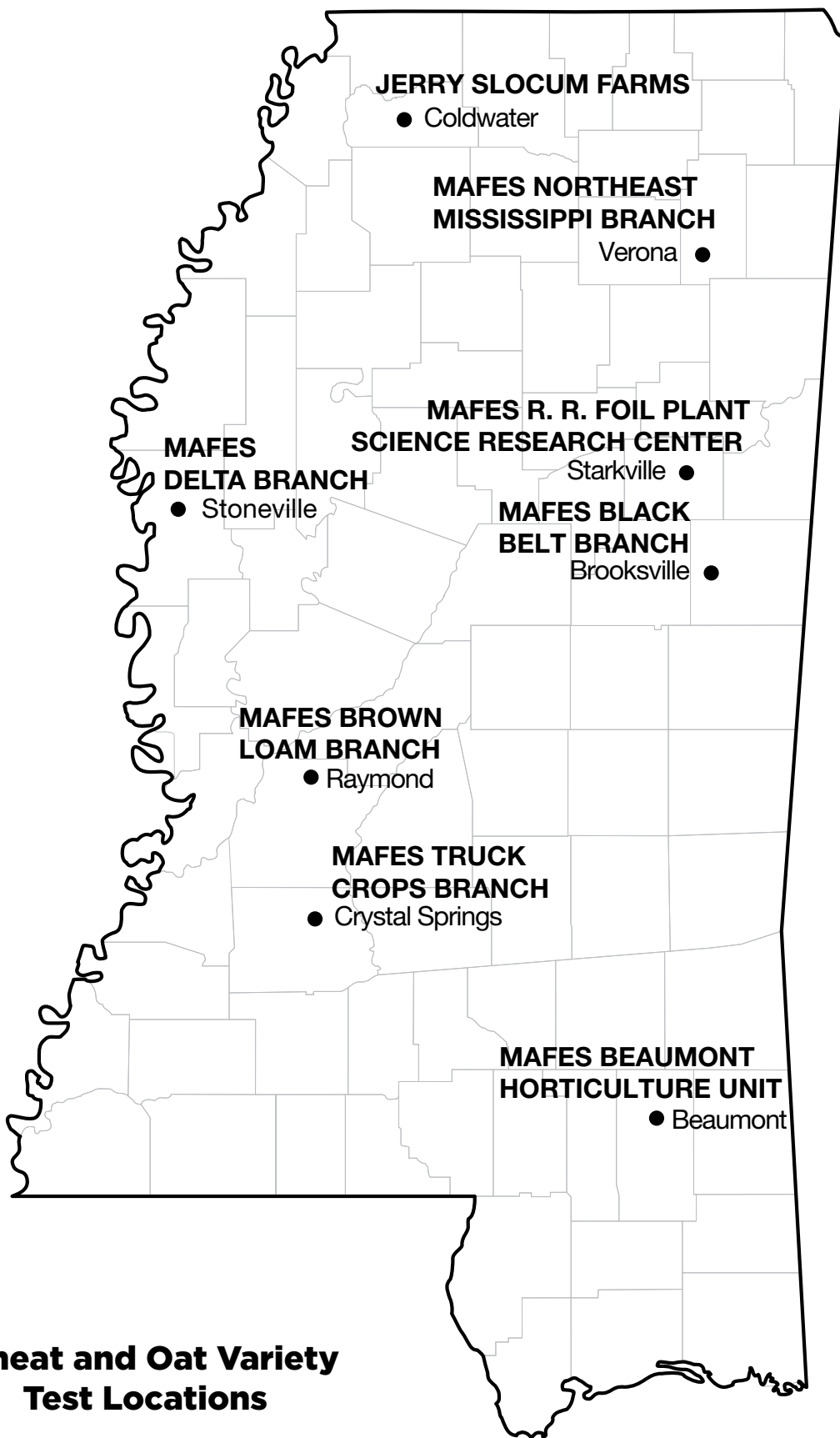
Manager, Forage Variety Testing
Plant and Soil Sciences
Mississippi State University

For more information, contact Burgess at (662) 325-2390; email, Brad.Burgess@msstate.edu. Recognition is given to Drew Nickels, research technician for the Variety Trial Program, for his assistance in packaging, planting, harvesting, and recording plot data. This publication was prepared by Dixie Albright, office associate for MAFES Research Support Units. Josh White, manager of forage variety testing, performed statistical analyses.

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Find variety trial information online at mafes.msstate.edu/variety-trials.



**Wheat and Oat Variety
Test Locations**

Mississippi Wheat and Oat Variety Trials, 2023

INTRODUCTION

Small grains are grown throughout Mississippi. Wheat is the primary crop, followed by oats. Wheat variety trials were conducted at eight locations, while oat trials were conducted at four locations in Mississippi in 2021–2022. Wheat yields typically range

from 40–60 bushels per acre and often produce 60–80 bushels per acre under good management and favorable weather conditions. Oat yields from 50–80 bushels per acre are common.

PROCEDURES

EXPERIMENTAL DESIGN. Experimental design for each crop species at each location was a randomized complete block with four replications. Plots consisted of seven 15-foot rows spaced 7.5 inches apart.

CULTURAL PRACTICES. Plots were limed and fertilized according to soil test recommendations. Foliar fungicides were not applied to most trial locations to insure that genetic performance of the varieties was evaluated under natural environmental conditions. Herbicides were applied as needed at each location for weed control.

SEED SOURCE. Seeds of all private entries were supplied by participating companies. Seeds of all public varieties were breeder or foundation seed from the state that developed the variety.

PLANTING RATE. All seeds were packaged for planting at the rate of 20 seeds per foot of row for both crops. Plots were planted with a cone, spinner-divider planter.

YIELD. A plot combine was used to harvest the total plot area after the plots were trimmed to a standard length. Harvested seed were converted to bushels per acre (60 pounds per bushel for wheat and 32 pounds per bushel for oats).

HEADING DATE. At most locations, the heading date for each variety was recorded. This is the date when 50% of the heads were extended above the flag leaf.

PLANT HEIGHT. The height of plants was measured from the soil to the top of the spike or head.

LODGING. Lodging was rated on a 1–5 scale: 1 = almost all plants erect; 2 = all plants leaning slightly or only a few plants down; 3 = all plants leaning moderately or 25–50% of plants down; 4 = all plants leaning considerably or 50–80% of plants down; and 5 = all plants down.

SEED TEST WEIGHT. The test weight for each variety was determined from a composite sample from all replications.

DISEASE RATINGS. All varieties were rated for development of leaf rust and Septoria leaf and Stagonospora glume blotch according to *James' Manual of Assessment Keys for Plant Diseases*. At growth stages 10.5 (spikes emerged) and 11.1 (milky ripe), 10 plants were selected at random from each plot. The percentage of leaf area affected by each disease on the flag leaf was recorded. From these data, an assessment was made of the overall disease response of each variety.

IMPORTANT FACTORS FOR PRODUCERS

LAND SELECTION. Waterlogged soils often limit wheat productivity. Poorly drained, heavy soils of the Delta and bottomland areas of east Mississippi should be avoided.

SEEDING METHODS. Timely and proper seeding techniques insure rapid, successful establishment of small-grain seedlings. Planting into a moist weed-free seedbed with a grain drill is the preferred seeding method for small grains. Modern drills are capable of seeding in many unprepared (no tillage) as well as traditionally prepared seedbeds. The optimum seeding depth ranges from 1-1.5 inches, depending upon soil moisture status and soil type. Deep seeding is recommended when soil moisture is marginally dry, particularly on light, sandy soils. Producers who do not have grain drills may “rough in” small grains by broadcast sowing on recently tilled soil and covering the seed with a light tillage operation, such as a harrow, field cultivator, or shallow disking. Seeding rates should be increased approximately 25% when utilizing the “rough in” system to compensate for poorer establishment since seeding depth is random and no firming over the seed occurs with this method. When field conditions are too wet to permit tractor operations, or when over-seeding an existing crop, small grains may be aurally broadcast seeded. Seeding rates should be increased about 75% compared with drilled rates since surface establishment is extremely dependent upon ambient environmental conditions. Thus, aerial seeding is usually only recommended for late-planted small grains since evaporation rates are much lower late in the fall and little time remains to seed using normal planting methods.

SEEDING RATES. Normal seeding rates for planting with a drill vary from 80-100 pounds of seed per acre, depending upon the variety and planting date. The low rate should be used when planting at the normal date and the higher rates when planting late or when planting conditions are poor. If seed is broadcast and covered with a disk or field cultivator, 100-120 pounds of seed per acre should be planted. When seeding aurally, about 150 pounds per acre should be applied. Seeding rates are similar for oats. This rate should result in final plant stands of approximately 25-30 plants per square foot.

COLD REQUIREMENTS. Winter varieties of small grains require a certain amount of cold weather (less than 40°F) before the plants will form seed heads. This process is called vernalization. Most of the wheat varieties planted in Mississippi require low temperatures to reproduce; oats do not. In some years, there is not enough cold weather in south Mississippi for some northern-adapted wheat varieties, resulting in little or no seed-head production. Normally, these varieties have late heading dates at south Mississippi locations. Check adaptation of unfamiliar varieties with an MSU Extension Service agent or seed company representative.

PLANTING DATES. Planting before recommended planting dates often results in establishment difficulty, increased stress and pest problems (freeze injury, aphids, Hessian fly, and disease). Late planting may not expose wheat plants to cool temperatures long enough for proper development. Recommended planting dates vary according to the region:

North Mississippi	Oct. 1 to Nov. 5
Central Mississippi	Oct. 15 to Nov. 25
South Mississippi	Nov. 1 to Dec 10

DISEASE MANAGEMENT. Several diseases may attack wheat and oat plants in Mississippi. Leaf rust, Stripe rust, and several head diseases are very common. Planting disease-resistant varieties is the most practical and economical method to manage diseases; however, chemical control may be required to control severe outbreaks.

FERTILIZATION. Keep soil pH 6 or higher. Growers should test and apply lime, phosphate, and potash according to soil analysis recommendations. If soybeans follow a wheat crop on heavy soils (clays, clay loams, and silt loams), apply phosphate and potash for the soybean crop before planting the wheat. This practice is not recommended on sandy soils because potash may be leached away. Nitrogen rate recommendations vary from 90-160 pounds per acre depending primarily upon soil texture, with higher rates needed on clay soils. Split application of nitrogen fertilizer is strongly encouraged for wheat production to improve crop-fertilizer use efficiency. One-third or less of the total nitrogen should be applied when dormancy breaks in the spring on tillering wheat. Apply the balance of

the nitrogen when wheat becomes strongly erect and stem elongation begins, which generally occurs from late February through mid-March.

WEED CONTROL. Mississippi State University Extension Service Publication 1532, *Weed Control Guidelines for Mississippi*, provides detailed information for controlling weeds in wheat and oats. For more specific information, refer to MSU Extension Information Sheet 961, *Small Grains Production*.

SAVING SEED. Many private and public wheat varieties are protected from unauthorized replanting by the Plant Variety Protection Act (PVPA) and/or United States patent. Seed produced from a patented variety cannot be planted for any purpose, including nontraditional uses. PVPA-protected seed cannot be sold, advertised, offered, delivered, consigned, exchanged, or exposed for sale without permission from the proprietary seed owner. In addition, no one can try to buy, transfer, or possess the variety in any way. It also is illegal to clean or condition such seed to sell for planting purposes. Retail dealers, seed cleaners, and consumers all are

legally responsible for these violations. An exemption to the 1994 amended PVPA allows growers to collect and save seed produced from any legally purchased PVPA-protected variety. They can use this seed for their own future planting, but they cannot sell, trade, or transfer it to others for planting purposes. No one can replant a wheat variety that is **patented** for any reason. For further information please refer to these websites:

MSU Extension Service Information Sheet 1763:
<https://extension.msstate.edu/sites/default/files/publications/information-sheets/is1763.pdf>

Plant Variety Protection Act
<https://datcp.wi.gov/Documents/BrownBagSeed.pdf>

Plant Variety Protection Office PVP Database
<https://www.ams.usda.gov/datasets/plant-variety>

United States Patent Database
<https://ppubs.uspto.gov/pubwebapp/static/pages/landing.html>

USE OF DATA TABLES AND SUMMARY STATISTICS

The yield potential of a given variety cannot be predicted with complete accuracy. Consequently, replicate plots of all varieties are evaluated for yield, and the yield of a given variety is estimated as the mean of all replicate plots of that variety. Yields vary somewhat from one replicate plot to another, which introduces a certain degree of error to the estimation of yield potential. This natural variation is often responsible for yield differences among different varieties. Thus, even if the mean yields of two varieties are numerically different, they are not necessarily significantly different in terms of yield potential. In other words, the ability to measure yield is not precise enough to determine whether such small differences are observed purely by chance or because of superior performance.

The least significant difference (LSD) is an estimate of the smallest difference between two varieties that can be declared to be the result of something other than random variation in a particular trial. Consider the following example for a given trial:

Hybrid	Yield
Abe	60 bu/A
Bill	55 bu/A
Charlie	51 bu/A
LSD	7 bu/A

The difference between variety Abe and variety Bill is 5 bushels per acre (60 - 55 = 5). This difference is smaller than the LSD (7 bushels per acre). Consequently, it is concluded that variety Abe and variety Bill have the same yield potential since the observed difference occurred purely due to chance.

The difference between variety Abe and variety Charlie is 9 bushels per acre (60 - 51 = 9), which is larger than the LSD (7 bushels per acre). Therefore, it is concluded that the yield potential of variety Abe is superior to that of variety Charlie since the difference is larger than would be expected purely by chance.

The coefficient of variation (CV) is a measure of the relative precision of a given trial and is used to compare the relative precision of different trials. The CV is generally considered to be an estimate of the amount of unexplained variation in a given trial. This unexplained variation could be the result of variation between plots with respect to soil type, fertility, insects, diseases, weather stress, etc. In general, the higher the CV is, the lower the precision in a given trial. The coefficient of determination (R^2) is another measure of the level of precision in a trial and is also

used to compare the relative precision of different trials. The R^2 is a measure of the amount of variation that is explained, or accounted for, in a given trial. For example, an R^2 value of 90% indicates that 90% of the observed variation in the trial has been accounted for in the trial with the remaining 10% being unaccounted. The higher the R^2 value is, the more precise the trial. The R^2 is generally considered to be a better measure of precision than is the CV for comparison of different trials.

Table 1. 2022-23 MSU OVT Wheat Locations and Dates

Location	Soil Type	Planting Date	Harvest Date	Soil pH	Soil Fertility	Fertilizer and Dates
Beaumont	McLaurin sandy loam	11/11/22	6/1/23	6.3	P-M, K-M	Preplant-13-13-13 @ 250 lbs/A Topdress-N @ 25 lbs/A (33-0-0-12S) on Feb. 22; N @ 58 lbs/A (33-0-0-12S) on March 16
Brooksville	Brooksville silty clay	11/4/22	6/12/23	6.4	P-M, K-M	Preplant- 0-20-20 @ 250 lbs/A Topdress-N @ 35 lbs/A (32% UAN) on Feb. 28; N @ 99 lbs/A (33-0-0-12S) on March 21.
Coldwater	Calloway silt loam	11/10/22	6/21/23	6.1	P-M, K-M	Topdress-N @ 25 lbs/A (32% UAN) on Feb. 28; N @ 80 lbs/A (33-0-0-12S) on March 23
Crystal Springs	Providence silt loam	11/2/22	6/5/23	6.7	P-H, K-H	Topdress- N 120 lbs/A (33-0-0-12S) on Feb. 28
Raymond	Memphis silt loam	11/2/22	6/5/23	5.7	P-M, K-L	Preplant-P @ 30 lbs/A and K @ 60 lbs/A Topdress-N @ 100 lbs/A (Urea) on March 6; N @ 100 lbs/A (Urea) on March 18
Starkville	Marietta fine sandy loam	11/4/22	6/8/23	6.4	P-H, K-M	Topdress-N @ 35 lbs/A (32% UAN) on Feb. 28; N @ 99 lbs/A (33-0-0-12S) on March 16.
Stoneville (clay)	Commerce silty clay loam and Tunica clay	11/18/22	6/22/23	6.8	P-M, K-M	Preplant- 15-13-13-11S @ 240 lbs/A Topdress- N @ 31 lbs/A (21-0-0-24S) on Feb. 27; N @ 115 lbs/A (Urea) on March 16.
Stoneville (loam)	Bosket very fine sandy loam	11/18/22	6/22/23	6.5	P-M, K-M	Preplant- 15-13-13-11S @ 240 lbs/A Topdress- N @ 31 lbs/A (21-0-0-24S) on Feb. 27; N @ 115 lbs/A (Urea) on March 16.
Verona	Leeper silty clay	11/4/22	6/16/23	6.5	P-M, K-M	Topdress-N @ 35 lbs/A (32% UAN) on Feb. 28; N @ 99 lbs/A (33-0-0-12S) on March 21.

Table 2. Companies supplying wheat brands/varieties entered.

Company	Brand	Variety
AgriMAXX Wheat Company 7167 Highbanks Road Mascoutah, IL 62258	AgriMAXX	514
	AgriMAXX	503
	AgriMAXX	EXP 2301
	AgriMAXX	516
	AgriMAXX	473
	AgriMAXX	513
	AgriMAXX	535
	AgriMAXX	492
AgSouth Genetics	AgSouth Genetics	AGS 2055
Delta Grow Seed P.O. Box 219 England, AR 72406	Delta Grow	1200
	Delta Grow	3500
	Delta Grow	1000
	Delta Grow	1800
	Delta Grow	7500
	Delta Grow	1900
	Delta Grow	1700
Dyna-Gro Seed 6221 Riverside Drive, Suite One Dublin, OH 43017	Dyna-Gro	9481
	Dyna-Gro	9701
	Dyna-Gro	9151
	Dyna-Gro	9393
	Dyna-Gro	9811
	Dyna-Gro	9290
	Dyna-Gro	9120
	Dyna-Gro	9172
Pioneer	Pioneer	26R41
	Pioneer	26R59
	Pioneer	26R33
Progeny Ag Products 1529 Hwy 193 South Wynne, AR 72396	Progeny Ag	#CHAD
	Progeny Ag	PGX 22-3
	Progeny Ag	#BINGO
	Progeny Ag	#TURBO
	Progeny Ag	PGX 22-4
	Progeny Ag	#BUSTER
UniSouth Genetics, Inc. 3205 C Hwy 46 S Dickson, TN 37055	USG	3463
	USG	3472
	USG	3783
Revere Seed	Revere Seed	2169
Stratton Seed Company 1530 Hwy 79 South Stuttgart, AR 72160	Go Wheat	6056
	Go Wheat	6000
	Go Wheat	LA754
	Go Wheat	2032
SunGrains	SunGrains	LA14159SB-BR1-1
	SunGrains	LA14234CBW-31
	SunGrains	GA151313-20E48
	SunGrains	GA161240-20LE6
	SunGrains	GA131218-20E15
	SunGrains	GA12230-20E36

SUMMARIES OF WHEAT YIELDS

Table 3a. 2022-23 yield summary of wheat variety trials in north Mississippi.

Brand	Variety ¹	Brooksville (clay)	Coldwater (loam)	Starkville (loam)	Verona (clay)	North average	Overall average (north, south, Delta)
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
AgriMAXX	473	74.7	54.3	63.1	68.6	65.2	65.0
AgriMAXX	492	79.4	48.7	63.3	72.9	66.1	66.7
AgriMAXX	503	79.6	62.8	73.6	64.3	70.1	66.4
AgriMAXX	514	78.0	58.7	65.4	69.0	67.7	65.4
AgriMAXX	516	78.7	65.9	67.4	76.8	72.2	70.6
AgriMAXX	535	86.0	58.6	74.8	63.9	70.8	69.8
AgriMAXX	EXP 2301 *	76.2	56.4	66.5	67.7	66.7	67.1
AGS	2055	81.6	55.8	66.0	68.8	68.0	66.4
Delta Grow	1200	79.3	60.2	69.9	51.8	65.3	64.5
Delta Grow	1700	81.7	56.4	69.2	67.0	68.6	67.5
Delta Grow	1800	70.5	61.0	64.2	74.6	67.6	64.3
Delta Grow	1900	82.5	62.9	75.3	75.1	73.9	72.0
Delta Grow	7500	66.6	40.6	54.8	75.4	59.4	62.6
Delta Grow	1000	81.6	60.5	75.2	62.3	69.9	69.9
Delta Grow	3500	82.3	65.3	64.1	71.8	70.9	65.7
Dyna-Gro	9120	81.2	61.2	72.1	66.5	70.3	67.5
Dyna-Gro	9151	74.8	67.4	69.5	64.4	69.0	67.8
Dyna-Gro	9172	84.9	68.6	72.5	71.6	74.4	68.4
Dyna-Gro	9290	85.5	47.9	76.0	68.8	69.6	65.6
Dyna-Gro	9393	75.4	61.8	66.7	59.6	65.9	66.7
Dyna-Gro	9481	75.7	53.8	66.8	74.5	67.7	69.0
Dyna-Gro	9701	74.7	63.8	68.2	67.8	68.6	70.2
Dyna-Gro	9811	72.3	63.2	63.3	65.2	66.0	63.2
GoWheat	6000	68.7	57.7	58.9	70.1	63.8	64.4
GoWheat	LA754	77.7	49.8	58.8	70.2	64.1	59.5
GoWheat	2032	64.4	59.3	60.9	66.9	62.9	58.9
GoWheat	6056	78.0	58.9	74.7	71.3	70.7	66.1
Pioneer	26R33	85.2	58.5	70.8	73.5	72.0	70.8
Pioneer	26R41	81.8	61.2	71.9	68.1	70.7	72.4
Pioneer	26R59	83.6	64.5	58.7	69.9	69.2	65.9
Progeny Ag	#BINGO	94.5	54.8	65.1	71.8	71.5	71.8
Progeny Ag	#BUSTER	75.1	67.1	70.4	71.5	71.0	72.0
Progeny Ag	#CHAD	74.6	72.5	77.8	58.9	70.9	70.3
Progeny Ag	#Turbo	76.9	56.6	72.6	68.5	68.6	68.3
Progeny Ag	PGX 22-3 *	85.4	69.3	65.3	71.2	72.8	72.0
Progeny Ag	PGX 22-4 *	69.2	64.2	75.4	65.2	68.5	66.2
Revere Seed	2169	78.8	64.0	74.6	72.4	72.4	67.1
SunGrains	GA12230- 20E36	83.8	54.3	70.1	69.6	69.4	69.0

SUMMARIES OF WHEAT YIELDS

Table 3a. 2022-23 yield summary of wheat variety trials in north Mississippi.

Brand	Variety ¹	Brooksville (clay)	Coldwater (loam)	Starkville (loam)	Verona (clay)	North average	Overall average (north, south, Delta)
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
SunGrains	GA131218-20E15	72.9	48.4	61.9	71.3	63.6	64.0
SunGrains	GA151313-20E48	74.9	65.6	62.6	66.5	67.4	64.2
SunGrains	GA161240-20LE6	64.4	66.4	60.7	53.0	61.1	60.4
SunGrains	LA14159SB-BR1-1	63.7	45.6	54.3	65.3	57.2	54.8
SunGrains	LA14234C-BW-31	79.2	68.6	64.7	60.8	68.3	65.2
USG	3463	72.0	63.3	69.4	71.1	69.0	68.4
USG	3472	79.1	64.8	72.9	64.1	70.3	65.8
USG	3783	82.1	58.7	68.8	70.2	70.0	66.8
Mean		77.6	59.8	67.6	68.0	68.3	66.7
CV		15.0	15.0	16.0	16.0		
LSD(0.05)		31.0	23.0	29.0	30.0		
R ²		28.0	44.0	26.0	26.0		
Error DF		135	135	135	135		

¹Variety followed by an asterisk indicates an experimental entry



SUMMARIES OF WHEAT YIELDS

Table 3b. 2022-23 yield summary of wheat variety trials in south Mississippi.

Brand	Variety ¹	Beaumont (loam)	Crystal Springs (loam)	Raymond (loam)	South average	Overall average (north, south, Delta)
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
AgriMAXX	473	51.3	48.8	57.3	52.4	65.0
AgriMAXX	492	59.7	59.8	65.0	61.5	66.7
AgriMAXX	503	47.8	61.1	57.6	55.5	66.4
AgriMAXX	514	45.6	62.0	55.3	54.3	65.4
AgriMAXX	516	57.2	58.3	57.8	57.7	70.6
AgriMAXX	535	58.1	65.4	58.3	60.6	69.8
AgriMAXX	EXP 2301 *	54.5	55.6	62.6	57.6	67.1
AGS	2055	61.2	49.3	54.5	55.0	66.4
Delta Grow	1200	52.2	50.1	53.8	52.0	64.5
Delta Grow	1700	70.2	52.3	54.6	59.0	67.5
Delta Grow	1800	66.7	45.2	53.2	55.0	64.3
Delta Grow	1900	51.2	64.4	68.3	61.3	72.0
Delta Grow	7500	63.1	54.4	59.0	58.8	62.6
Delta Grow	1000	63.0	59.1	61.2	61.1	69.9
Delta Grow	3500	48.9	50.5	52.7	50.7	65.7
Dyna-Gro	9120	50.7	54.5	50.7	52.0	67.5
Dyna-Gro	9151	51.2	54.2	54.9	53.4	67.8
Dyna-Gro	9172	41.9	62.9	49.0	51.2	68.4
Dyna-Gro	9290	66.3	60.1	54.4	60.3	65.6
Dyna-Gro	9393	59.3	61.0	52.1	57.5	66.7
Dyna-Gro	9481	66.3	57.6	71.1	65.0	69.0
Dyna-Gro	9701	51.6	57.8	70.9	60.1	70.2
Dyna-Gro	9811	56.9	46.2	52.0	51.7	63.2
GoWheat	6000	55.9	45.7	49.2	50.2	64.4
GoWheat	LA754	36.2	49.4	58.6	48.1	59.5
GoWheat	2032	31.6	46.7	58.7	45.7	58.9
GoWheat	6056	48.2	55.4	58.7	54.1	66.1
Pioneer	26R33	53.7	55.5	59.2	56.1	70.8
Pioneer	26R41	64.1	67.6	61.3	64.3	72.4
Pioneer	26R59	49.5	46.9	59.3	51.9	65.9
Progeny Ag	#BINGO	51.6	70.2	67.7	63.2	71.8
Progeny Ag	#BUSTER	60.4	59.1	54.3	58.0	72.0
Progeny Ag	#CHAD	59.6	62.8	55.8	59.4	70.3
Progeny Ag	#Turbo	58.2	56.7	54.6	56.5	68.3
Progeny Ag	PGX 22-3 *	56.5	63.7	63.6	61.2	72.0
Progeny Ag	PGX 22-4 *	48.6	55.4	57.1	53.7	66.2
Revere Seed	2169	51.4	59.7	54.4	55.1	67.1
SunGrains	GA12230-20E36	53.8	61.6	63.9	59.8	69.0
SunGrains	GA131218-20E15	61.2	54.5	51.8	55.9	64.0

SUMMARIES OF WHEAT YIELDS

Table 3b. 2022-23 yield summary of wheat variety trials in south Mississippi.

Brand	Variety ¹	Beaumont (loam)	Crystal Springs (loam)	Raymond (loam)	South average	Overall average (north, south, Delta)
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
SunGrains	GA151313-20E48	38.6	45.4	50.4	44.8	64.2
SunGrains	GA161240-20LE6	44.0	48.4	49.1	47.2	60.4
SunGrains	LA14159SB-BR1-1	41.4	44.5	53.7	46.5	54.8
SunGrains	LA14234CBW-31	44.5	57.1	52.5	51.4	65.2
USG	3463	55.5	62.6	58.0	58.7	68.4
USG	3472	38.4	64.4	51.4	51.4	65.8
USG	3783	53.6	51.6	56.7	53.9	66.8
Mean		53.3	56.0	57.1	55.5	66.7
CV		20.0	18.9	17.0		
LSD(0.05)		28.0	32.0	25.0		
R ²		46.0	38.5	30.0		
Error DF		135	90	135		
¹ Variety followed by an asterisk indicates an experimental entry						



SUMMARIES OF WHEAT YIELDS

Table 3c. 2022-23 yield summary of wheat variety trials in Delta Mississippi.

Brand	Variety ¹	Stoneville (clay)	Stoneville (loam)	Delta average	Overall average
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
AgriMAXX	473	87.1	79.6	83.4	65.0
AgriMAXX	492	71.8	80.0	75.9	66.7
AgriMAXX	503	86.5	64.3	75.4	66.4
AgriMAXX	514	85.0	70.2	77.6	65.4
AgriMAXX	516	94.3	79.1	86.7	70.6
AgriMAXX	535	84.9	78.6	81.7	69.8
AgriMAXX	EXP 2301 *	82.2	81.7	81.9	67.1
AGS	2055	90.4	70.4	80.4	66.4
Delta Grow	1200	90.1	73.2	81.6	64.5
Delta Grow	1700	77.6	78.0	77.8	67.5
Delta Grow	1800	78.5	64.5	71.5	64.3
Delta Grow	1900	85.5	82.4	84.0	72.0
Delta Grow	7500	83.8	65.4	74.6	62.6
Delta Grow	1000	93.5	72.7	83.1	69.9
Delta Grow	3500	82.0	73.5	77.7	65.7
Dyna-Gro	9120	91.8	79.0	85.4	67.5
Dyna-Gro	9151	93.4	80.3	86.8	67.8
Dyna-Gro	9172	94.3	69.8	82.1	68.4
Dyna-Gro	9290	71.1	60.3	65.7	65.6
Dyna-Gro	9393	91.3	73.2	82.3	66.7
Dyna-Gro	9481	73.1	81.9	77.5	69.0
Dyna-Gro	9701	90.7	86.0	88.4	70.2
Dyna-Gro	9811	81.3	68.8	75.0	63.2
GoWheat	6000	89.3	84.4	86.9	64.4
GoWheat	LA754	68.5	66.7	67.6	59.5
GoWheat	2032	68.9	73.0	71.0	58.9
GoWheat	6056	80.8	68.5	74.7	66.1
Pioneer	26R33	94.5	86.1	90.3	70.8
Pioneer	26R41	97.7	77.7	87.7	72.4
Pioneer	26R59	87.0	73.5	80.3	65.9
Progeny Ag	#BINGO	85.6	85.1	85.4	71.8
Progeny Ag	#BUSTER	103.7	86.5	95.1	72.0
Progeny Ag	#CHAD	87.8	83.4	85.6	70.3
Progeny Ag	#Turbo	80.5	90.0	85.3	68.3
Progeny Ag	PGX 22-3 *	92.6	80.8	86.7	72.0
Progeny Ag	PGX 22-4 *	89.3	71.3	80.3	66.2
Revere Seed	2169	82.1	66.5	74.3	67.1
SunGrains	GA12230-20E36	80.7	83.0	81.9	69.0
SunGrains	GA131218-20E15	79.5	74.6	77.0	64.0
SunGrains	GA151313-20E48	104.0	69.8	86.9	64.2

SUMMARIES OF WHEAT YIELDS

Table 3c. 2022-23 yield summary of wheat variety trials in Delta Mississippi.

Brand	Variety ¹	Stoneville (clay)	Stoneville (loam)	Delta average	Overall average
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
SunGrains	GA161240-20LE6	79.7	77.5	78.6	60.4
SunGrains	LA14159SB-BR1-1	63.9	61.2	62.6	54.8
SunGrains	LA14234CBW-31	83.4	76.0	79.7	65.2
USG	3463	88.6	75.3	81.9	68.4
USG	3472	87.6	69.1	78.3	65.8
USG	3783	90.5	69.2	79.8	66.8
Mean		85.3	75.3	80.3	66.7
CV		15.0	15.0		
LSD(0.05)		34.0	30.0		
R ²		36.0	36.0		
Error DF		135	135		

¹Variety followed by an asterisk indicates an experimental entry



Table 4. Two-year summary of wheat variety trials in Mississippi.

Brand	Variety	Coldwater	Starkville	Verona	Beaumont	Raymond	Stoneville	Overall average
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
AgriMAXX	473	57.7	65.5	78.0	54.5	60.1	79.7	65.9
AgriMAXX	503	67.6	72.5	83.6	46.0	48.1	67.8	64.3
AgriMAXX	514	62.5	73.8	81.5	55.1	53.3	71.0	66.2
AgriMAXX	516	66.2	69.0	88.6	58.5	58.3	82.0	70.4
AGS	2055	61.9	66.7	83.5	63.3	54.0	70.0	66.6
Delta Grow	1200	63.9	75.9	74.0	56.6	58.9	75.9	67.6
Delta Grow	1800	65.6	61.0	82.8	67.1	54.9	68.6	66.7
Delta Grow	1000	61.4	70.7	80.1	61.9	60.6	77.1	68.6
Delta Grow	3500	63.1	68.8	84.7	60.7	55.6	72.4	67.6
Dyna-Gro	9120	64.1	68.4	80.5	53.1	52.7	74.0	65.5
Dyna-Gro	9172	64.7	68.4	87.0	49.3	53.6	73.5	66.1
Dyna-Gro	9393	61.7	68.2	76.0	58.1	54.9	70.4	64.9
Dyna-Gro	9701	64.0	71.9	81.3	51.9	66.6	79.6	69.2
Dyna-Gro	9811	64.4	66.4	82.1	62.5	53.3	70.7	66.6
GoWheat	6000	62.3	61.7	82.6	49.0	48.2	81.7	64.2
GoWheat	LA754	62.5	60.9	81.2	51.4	55.2	67.9	63.2
GoWheat	2032	61.4	58.7	81.2	29.7	52.6	77.4	60.2
GoWheat	6056	63.3	72.1	82.5	51.8	58.5	73.7	67.0
Pioneer	26R41	65.5	67.9	87.1	68.4	60.4	74.2	70.6
Pioneer	26R59	65.7	60.9	84.3	51.6	53.4	73.4	64.9
Progeny Ag	#BINGO	62.0	70.6	84.5	56.9	58.0	76.2	68.0
Progeny Ag	#BUSTER	67.6	71.1	89.0	63.8	51.7	78.9	70.3
Progeny Ag	#CHAD	72.4	78.8	73.2	65.9	55.7	73.5	69.9
Progeny Ag	#TURBO	61.5	72.4	83.1	63.8	46.5	82.9	68.4
Revere Seed	2169	64.8	75.6	87.4	50.9	57.5	69.1	67.5
USG	3472	67.7	73.9	80.4	50.0	54.0	70.1	66.0
USG	3783	63.8	67.5	85.7	54.9	56.9	73.1	67.0
Overall Mean		64.0	68.9	82.4	55.8	55.3	74.2	66.8

Table5. Three-year summary of wheat variety trials in Mississippi.

Brand	Variety	Coldwater	Starkville	Verona	Beaumont	Raymond	Stoneville	Overall average
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
AgriMAXX	473	66.2	76.2	83.4	68.6	68.3	84.9	74.6
AgriMAXX	503	78.8	83.6	91.1	60.2	57.3	79.6	75.1
AgriMAXX	514	75.0	85.6	85.6	67.9	62.3	82.1	76.4
AgriMAXX	516	74.8	80.9	88.6	71.9	66.7	87.6	78.4
AGS	2055	71.3	74.0	88.8	73.3	65.9	77.3	75.1
Delta Grow	1200	70.7	83.6	82.7	63.1	68.2	86.2	75.8
Delta Grow	1800	72.6	72.8	87.1	72.5	65.5	73.2	74.0
Dyna-Gro	9120	70.4	79.5	86.3	66.9	63.7	81.9	74.8
Dyna-Gro	9172	70.4	80.1	93.2	71.3	66.5	83.3	77.5
Dyna-Gro	9701	71.5	80.1	83.0	67.0	73.6	83.5	76.4
Dyna-Gro	9811	71.5	74.2	84.3	75.6	65.5	76.2	74.6
GoWheat	6000	72.6	73.2	89.5	63.7	58.8	83.6	73.5
GoWheat	LA754	68.1	70.6	83.3	72.4	60.8	67.2	70.4
GoWheat	2032	68.9	71.4	87.6	56.8	60.5	79.3	70.7
Progeny Ag	#BINGO	70.9	82.1	88.0	70.1	68.7	86.5	77.7
Progeny Ag	#TURBO	69.0	79.2	82.7	74.7	58.1	83.9	74.6
Revere Seed	2169	73.4	84.0	91.8	69.8	70.2	78.6	78.0
USG	3472	73.8	83.5	84.8	63.9	65.1	80.9	75.4
Overall Mean		71.7	78.6	86.8	68.3	64.8	80.9	75.2

MAFES BEAUMONT HORTICULTURE UNIT, BEAUMONT

Table 6. Yields of 46 wheat varieties at MAFES Beaumont Horticulture Unit (McLaurin sandy loam soil).

Brand	Variety ¹	2022-23 yield	2-year average	3-year average	Date head	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>		<i>(1-5)</i>	<i>in.</i>
Delta Grow	1700	70.2	-	-	4/2	1	35
Delta Grow	1800	66.7	67.1	72.5	3/25	1	35
Dyna-Gro	9290	66.3	-	-	4/1	2	34
Dyna-Gro	9481	66.3	-	-	4/3	1	32
Pioneer	26R41	64.1	68.4	-	4/1	1	33
Delta Grow	7500	63.1	-	-	4/7	2	39
Delta Grow	1000	63.0	61.9	-	4/7	1	35
SunGrains	GA131218-20E15	61.2	-	-	3/26	2	32
AGS	2055	61.2	63.3	73.3	3/30	1	35
Progeny Ag	#BUSTER	60.4	63.8	-	4/6	1	36
AgriMAXX	492	59.7	-	-	3/28	1	31
Progeny Ag	#CHAD	59.6	65.9	-	3/26	4	33
Dyna-Gro	9393	59.3	58.1	-	4/7	1	34
Progeny Ag	#TURBO	58.2	63.8	74.7	4/3	1	36
AgriMAXX	535	58.1	-	-	4/8	2	34
AgriMAXX	516	57.2	58.5	71.9	4/9	1	37
Dyna-Gro	9811	56.9	62.5	75.6	4/2	1	33
Progeny Ag	PGX 22-3 *	56.5	-	-	3/31	3	34
GoWheat	6000	55.9	49.0	63.7	3/22	1	32
USG	3463	55.5	-	-	4/3	1	29
AgriMAXX	EXP 2301 *	54.5	-	-	4/5	1	33
SunGrains	GA12230-20E36	53.8	-	-	3/21	1	32
Pioneer	26R33	53.7	-	-	4/11	2	36
USG	3783	53.6	54.9	-	4/6	1	34
Delta Grow	1200	52.2	56.6	63.1	4/9	2	36
Dyna-Gro	9701	51.6	51.9	67.0	4/9	1	34
Progeny Ag	#BINGO	51.6	56.9	70.1	4/8	2	35
Revere Seed	2169	51.4	50.9	69.8	4/9	1	34
AgriMAXX	473	51.3	54.5	68.6	4/9	1	36
Delta Grow	1900	51.2	-	-	3/27	2	28
Dyna-Gro	9151	51.2	-	-	4/10	1	36
Dyna-Gro	9120	50.7	53.1	66.9	4/10	1	32
Pioneer	26R59	49.5	51.6	-	4/7	1	33
Delta Grow	3500	48.9	60.7	-	3/19	1	35
Progeny Ag	PGX 22-4 *	48.6	-	-	4/9	2	32

MAFES BEAUMONT HORTICULTURE UNIT, BEAUMONT

Table 6. Yields of 46 wheat varieties at MAFES Beaumont Horticulture Unit (McLaurin sandy loam soil).

Brand	Variety ¹	2022-23 yield	2-year aver- age	3-year aver- age	Date head	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>		<i>(1-5)</i>	<i>in.</i>
GoWheat	6056	48.2	51.8	-	4/10	1	37
AgriMAXX	503	47.8	46.0	60.2	4/9	1	38
AgriMAXX	514	45.6	55.1	67.9	4/6	1	33
SunGrains	LA14234C- BW-31	44.5	-	-	3/14	1	31
SunGrains	GA161240- 20LE6	44.0	-	-	3/12	1	36
Dyna-Gro	9172	41.9	49.3	71.3	4/9	1	35
SunGrains	LA14159SB- BR1-1	41.4	-	-	3/12	1	32
SunGrains	GA151313- 20E48	38.6	-	-	3/13	1	27
USG	3472	38.4	50.0	63.9	4/10	1	36
GoWheat	LA754	36.2	51.4	72.4	3/17	1	36
GoWheat	2032	31.6	29.7	56.8	3/12	1	33
Mean		53.3					
CV		20.0					
LSD(0.05)		28.0					
R ²		46.0					
Error DF		135					

¹Varieties followed by an asterisk indicates an experiment.

MAFES BLACK BELT BRANCH, BROOKSVILLE

Table 7. Yields of 46 wheat varieties at MAFES Black Belt Branch Station, Brooksville.

Brand	Variety ¹	2022-23 yield	2-year average ²	3-year average ²	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>(1-5)</i>	<i>in.</i>
Progeny Ag	#BINGO	94.5	-	-	1	34
AgriMAXX	535	86.0	-	-	1	33
Dyna-Gro	9290	85.5	-	-	1	31
Progeny Ag	PGX 22-3 *	85.4	-	-	1	25
Pioneer	26R33	85.2	-	-	2	35
Dyna-Gro	9172	84.9	-	-	1	41
SunGrains	GA12230-20E36	83.8	-	-	1	29
Pioneer	26R59	83.6	-	-	1	29
Delta Grow	1900	82.5	-	-	1	30
Delta Grow	3500	82.3	-	-	2	32
USG	3783	82.1	-	-	1	33
Pioneer	26R41	81.8	-	-	1	30
Delta Grow	1700	81.7	-	-	1	36
Delta Grow	1000	81.6	-	-	1	37
AGS	2055	81.6	-	-	1	32
Dyna-Gro	9120	81.2	-	-	1	28
AgriMAXX	503	79.6	-	-	1	32
AgriMAXX	492	79.4	-	-	1	35
Delta Grow	1200	79.3	-	-	1	36
SunGrains	LA14234C-BW-31	79.2	-	-	1	30
USG	3472	79.1	-	-	1	34
Revere Seed	2169	78.8	-	-	1	36
AgriMAXX	516	78.7	-	-	1	37
AgriMAXX	514	78.0	-	-	1	31
GoWheat	6056	78.0	-	-	1	37
GoWheat	LA754	77.7	-	-	1	29
Progeny Ag	#TURBO	76.9	-	-	2	33
AgriMAXX	EXP 2301 *	76.2	-	-	1	29
Dyna-Gro	9481	75.7	-	-	1	34
Dyna-Gro	9393	75.4	-	-	1	34
Progeny Ag	#BUSTER	75.1	-	-	2	32
SunGrains	GA151313-20E48	74.9	-	-	1	29
Dyna-Gro	9151	74.8	-	-	1	34
Dyna-Gro	9701	74.7	-	-	1	35

MAFES BLACK BELT BRANCH, BROOKSVILLE

Table 7. Yields of 46 wheat varieties at MAFES Black Belt Branch Station, Brooksville.

Brand	Variety ¹	2022-23 yield	2-year average ²	3-year average ²	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>(1-5)</i>	<i>in.</i>
AgriMAXX	473	74.7	-	-	1	32
Progeny Ag	#CHAD	74.6	-	-	3	27
SunGrains	GA131218- 20E15	72.9	-	-	1	27
Dyna-Gro	9811	72.3	-	-	1	35
USG	3463	72.0	-	-	1	33
Delta Grow	1800	70.5	-	-	1	33
Progeny Ag	PGX 22-4 *	69.2	-	-	2	30
GoWheat	6000	68.7	-	-	2	26
Delta Grow	7500	66.6	-	-	1	37
SunGrains	GA161240- 20LE6	64.4	-	-	1	28
GoWheat	2032	64.4	-	-	1	28
SunGrains	LA14159SB- BR1-1	63.7	-	-	1	35
Mean		77.6				
CV		15.0				
LSD(0.05)		31.0				
R ²		28.0				
Error DF						

¹Varieties followed by an asterisk indicates an experimental entry.
²No 2 or 3-year average.

JERRY SLOCUM FARMS, COLDWATER

Table 8. Yields of 46 wheat varieties at Jerry Slocum Farms, Coldwater (Calloway silt loam soil).

Brand	Variety ¹	2022-23 yield	2-year average	3-year average	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>(1-5)</i>	<i>in.</i>
Progeny Ag	#CHAD	72.5	72.4	-	1	27
Progeny Ag	PGX 22-3 *	69.3	-	-	1	33
Dyna-Gro	9172	68.6	64.7	70.4	1	30
SunGrains	LA14234C-BW-31	68.6	-	-	1	30
Dyna-Gro	9151	67.4	-	-	1	35
Progeny Ag	#BUSTER	67.1	67.6	-	1	32
SunGrains	GA161240-20LE6	66.4	-	-	1	32
AgriMAXX	516	65.9	66.2	74.8	1	34
SunGrains	GA151313-20E48	65.6	-	-	1	31
Delta Grow	3500	65.3	63.1	-	1	25
USG	3472	64.8	67.7	73.8	1	31
Pioneer	26R59	64.5	65.7	-	1	30
Progeny Ag	PGX 22-4 *	64.2	-	-	1	30
Revere Seed	2169	64.0	64.8	73.4	1	31
Dyna-Gro	9701	63.8	64.0	71.5	1	37
USG	3463	63.3	-	-	1	29
Dyna-Gro	9811	63.2	64.4	71.5	1	33
Delta Grow	1900	62.9	-	-	1	30
AgriMAXX	503	62.8	67.6	78.8	1	36
Dyna-Gro	9393	61.8	61.7	-	1	33
Pioneer	26R41	61.2	65.5	-	1	31
Dyna-Gro	9120	61.2	64.1	70.4	1	31
Delta Grow	1800	61.0	65.6	72.6	1	34
Delta Grow	1000	60.5	61.4	-	1	37
Delta Grow	1200	60.2	63.9	70.7	1	31
GoWheat	2032	59.3	61.4	68.9	1	26
GoWheat	6056	58.9	63.3	-	1	31
USG	3783	58.7	63.8	-	1	31
AgriMAXX	514	58.7	62.5	75.0	1	31
AgriMAXX	535	58.6	-	-	1	31
Pioneer	26R33	58.5	-	-	1	35
GoWheat	6000	57.7	62.3	72.6	1	33
Progeny Ag	#TURBO	56.6	61.5	69.0	1	31
AgriMAXX	EXP 2301 *	56.4	-	-	3	28

JERRY SLOCUM FARMS, COLDWATER

Table 8. Yields of 46 wheat varieties at Jerry Slocum Farms, Coldwater (Calloway silt loam soil).

Brand	Variety ¹	2022-23 yield	2-year average	3-year average	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>(1-5)</i>	<i>in.</i>
Delta Grow	1700	56.4	-	-	1	34
AGS	2055	55.8	61.9	71.3	1	31
Progeny Ag	#BINGO	54.8	62.0	70.9	1	33
AgriMAXX	473	54.3	57.7	66.2	1	35
SunGrains	GA12230-20E36	54.3	-	-	1	26
Dyna-Gro	9481	53.8	-	-	1	32
GoWheat	LA754	49.8	62.5	68.1	1	30
AgriMAXX	492	48.7	-	-	1	31
SunGrains	GA131218-20E15	48.4	-	-	1	27
Dyna-Gro	9290	47.9	-	-	2	32
SunGrains	LA14159SB-BR1-1	45.6	-	-	1	28
Delta Grow	7500	40.6	-	-	1	32
Mean		59.8				
CV		15.0				
LSD(0.05)		23.0				
R ²		44.0				
Error DF						

¹Varieties followed by an asterisk indicates an experimental entry.

MAFES BROWN LOAM BRANCH, RAYMOND

Table 9. Yields of 46 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).

Brand	Variety ¹	2022-23 yield	2-year average	3-year average	Date head	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>		<i>(1-5)</i>	<i>in.</i>
Dyna-Gro	9481	71.1	-	-	4/10	2	33
Dyna-Gro	9701	70.9	66.6	73.6	4/4	1	36
Delta Grow	1900	68.3	-	-	4/10	4	30
Progeny Ag	#BINGO	67.7	58.0	68.7	4/19	2	36
AgriMAXX	492	65.0	-	-	4/7	1	33
SunGrains	GA12230-20E36	63.9	-	-	4/5	2	25
Progeny Ag	PGX 22-3 *	63.6	-	-	4/4	1	32
AgriMAXX	EXP 2301 *	62.6	-	-	4/12	1	31
Pioneer	26R41	61.3	60.4	-	4/10	4	31
Delta Grow	1000	61.2	60.6	-	4/16	1	40
Pioneer	26R59	59.3	53.4	-	4/4	1	31
Pioneer	26R33	59.2	-	-	4/8	4	37
Delta Grow	7500	59.0	-	-	4/16	1	38
GoWheat	2032	58.7	52.6	60.5	3/31	1	25
GoWheat	6056	58.7	58.5	-	4/15	1	32
GoWheat	LA754	58.6	55.2	60.8	4/6	1	35
AgriMAXX	535	58.3	-	-	4/19	1	35
USG	3463	58.0	-	-	4/17	1	32
AgriMAXX	516	57.8	58.3	66.7	4/16	1	30
AgriMAXX	503	57.6	48.1	57.3	4/19	1	37
AgriMAXX	473	57.3	60.1	68.3	4/18	1	36
Progeny Ag	PGX 22-4 *	57.1	-	-	4/20	1	32
USG	3783	56.7	56.9	-	4/14	2	28
Progeny Ag	#CHAD	55.8	55.7	-	4/18	4	33
AgriMAXX	514	55.3	53.3	62.3	4/18	1	36
Dyna-Gro	9151	54.9	-	-	4/15	4	33
Delta Grow	1700	54.6	-	-	4/17	1	35
Progeny Ag	#TURBO	54.6	46.5	58.1	4/7	3	35
AGS	2055	54.5	54.0	65.9	4/15	1	29
Dyna-Gro	9290	54.4	-	-	4/5	4	32
Revere Seed	2169	54.4	57.5	70.2	4/11	3	31
Progeny Ag	#BUSTER	54.3	51.7	-	4/16	4	35
Delta Grow	1200	53.8	58.9	68.2	4/18	2	35
SunGrains	LA14159SB-BR1-1	53.7	-	-	3/31	1	27

MAFES BROWN LOAM BRANCH, RAYMOND

Table 9. Yields of 46 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).

Brand	Variety ¹	2022-23 yield	2-year average	3-year average	Date head	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>		<i>(1-5)</i>	<i>in.</i>
Delta Grow	1800	53.2	54.9	65.5	4/12	1	31
Delta Grow	3500	52.7	55.6	-	4/4	2	30
SunGrains	LA14234C- BW-31	52.5	-	-	4/4	3	26
Dyna-Gro	9393	52.1	54.9	-	4/11	3	34
Dyna-Gro	9811	52.0	53.3	65.5	4/3	1	34
SunGrains	GA131218- 20E15	51.8	-	-	4/7	4	28
USG	3472	51.4	54.0	65.1	4/20	1	35
Dyna-Gro	9120	50.7	52.7	63.7	4/19	4	36
SunGrains	GA151313- 20E48	50.4	-	-	4/6	2	25
GoWheat	6000	49.2	48.2	58.8	4/14	2	28
SunGrains	GA161240- 20LE6	49.1	-	-	3/31	5	25
Dyna-Gro	9172	49.0	53.6	66.5	4/14	1	35
Mean		57.1					
CV		17.0					
LSD(0.05)		25.0					
R ²		30.0					
Error DF		135					
¹ Varieties followed by an asterisk indicates an experimental entry.							

MAFES R.R. FOIL PLANT SCIENCE RESEARCH CENTER, STARKVILLE

Table 10. Yields of 46 wheat varieties at MAFES R.R. Foil Plant Science Research Center, Starkville (Leeper silty clay soil).

Brand	Variety ¹	2022-23 yield	2-year average	3-year average	Date head	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>		<i>(1-5)</i>	<i>in.</i>
Progeny Ag	#CHAD	77.8	78.8	-	4/13	1	31
Dyna-Gro	9290	76.0	-	-	4/11	1	35
Progeny Ag	PGX 22-4 *	75.4	-	-	4/17	1	35
Delta Grow	1900	75.3	-	-	4/11	1	31
Delta Grow	1000	75.2	70.7	-	4/17	1	36
AgriMAXX	535	74.8	-	-	4/15	1	34
GoWheat	6056	74.7	72.1	-	4/18	1	35
Revere Seed	2169	74.6	75.6	84.0	4/16	1	36
AgriMAXX	503	73.6	72.5	83.6	4/17	1	38
USG	3472	72.9	73.9	83.5	4/15	1	34
Progeny Ag	#TURBO	72.6	72.4	79.2	4/11	1	31
Dyna-Gro	9172	72.5	68.4	80.1	4/15	1	35
Dyna-Gro	9120	72.1	68.4	79.5	4/15	1	33
Pioneer	26R41	71.9	67.9	-	4/14	1	31
Pioneer	26R33	70.8	-	-	4/15	1	37
Progeny Ag	#BUSTER	70.4	71.1	-	4/16	1	32
SunGrains	GA12230-20E36	70.1	-	-	4/5	1	30
Delta Grow	1200	69.9	75.9	83.6	4/17	1	33
Dyna-Gro	9151	69.5	-	-	4/15	1	36
USG	3463	69.4	-	-	4/14	1	33
Delta Grow	1700	69.2	-	-	4/14	1	32
USG	3783	68.8	67.5	-	4/15	1	34
Dyna-Gro	9701	68.2	71.9	80.1	4/17	1	37
AgriMAXX	516	67.4	69.0	80.9	4/17	1	31
Dyna-Gro	9481	66.8	-	-	4/15	1	34
Dyna-Gro	9393	66.7	68.2	-	4/15	1	29
AgriMAXX	EXP 2301 *	66.5	-	-	4/14	1	30
AGS	2055	66.0	66.7	74.0	4/15	1	33
AgriMAXX	514	65.4	73.8	85.6	4/17	1	34
Progeny Ag	PGX 22-3 *	65.3	-	-	4/13	1	33
Progeny Ag	#BINGO	65.1	70.6	82.1	4/18	1	34
SunGrains	LA14234C-BW-31	64.7	-	-	4/12	1	31
Delta Grow	1800	64.2	61.0	72.8	4/5	1	38
Delta Grow	3500	64.1	68.8	-	4/15	1	28

MAFES R.R. FOIL PLANT SCIENCE RESEARCH CENTER, STARKVILLE

Table 10. Yields of 46 wheat varieties at MAFES R.R. Foil Plant Science Research Center, Starkville (Leeper silty clay soil).

Brand	Variety ¹	2022-23 yield	2-year average	3-year average	Date head	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>		<i>(1-5)</i>	<i>in.</i>
Dyna-Gro	9811	63.3	66.4	74.2	4/12	1	32
AgriMAXX	492	63.3	-	-	4/11	1	36
AgriMAXX	473	63.1	65.5	76.2	4/16	1	35
SunGrains	GA151313-20E48	62.6	-	-	4/12	1	32
SunGrains	GA131218-20E15	61.9	-	-	4/5	1	29
GoWheat	2032	60.9	58.7	71.4	4/5	1	30
SunGrains	GA161240-20LE6	60.7	-	-	4/5	1	32
GoWheat	6000	58.9	61.7	73.2	4/11	1	34
GoWheat	LA754	58.8	60.9	70.6	4/11	1	31
Pioneer	26R59	58.7	60.9	-	4/15	1	27
Delta Grow	7500	54.8	-	-	4/18	1	34
SunGrains	LA14159SB-BR1-1	54.3	-	-	4/5	1	31
Mean		67.6					
CV		16.0					
LSD(0.05)		29.0					
R ²		26.0					
Error DF		135					

¹Varieties followed by an asterisk indicates an experimental entry.

MAFES DELTA BRANCH EXPERIMENT STATION, STONEVILLE

Table 11. Yields of 46 wheat varieties at MAFES Delta Branch Experiment Station, Stoneville (clay).

Brand	Variety ¹	2022-23 yield	2-year average ²	3-year average ²	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>(1-5)</i>	<i>in.</i>
SunGrains	GA151313-20E48	104.0	-	-	1	33
Progeny Ag	#BUSTER	103.7	-	-	1	36
Pioneer	26R41	97.7	-	-	1	33
Pioneer	26R33	94.5	-	-	1	34
Dyna-Gro	9172	94.3	-	-	1	37
AgriMAXX	516	94.3	-	-	2	38
Delta Grow	1000	93.5	-	-	1	36
Dyna-Gro	9151	93.4	-	-	1	38
Progeny Ag	PGX 22-3 *	92.6	-	-	1	37
Dyna-Gro	9120	91.8	-	-	1	35
Dyna-Gro	9393	91.3	-	-	1	36
Dyna-Gro	9701	90.7	-	-	1	39
USG	3783	90.5	-	-	1	36
AGS	2055	90.4	-	-	1	37
Delta Grow	1200	90.1	-	-	1	38
GoWheat	6000	89.3	-	-	1	36
Progeny Ag	PGX 22-4 *	89.3	-	-	1	35
USG	3463	88.6	-	-	1	34
Progeny Ag	#CHAD	87.8	-	-	1	32
USG	3472	87.6	-	-	2	37
AgriMAXX	473	87.1	-	-	2	43
Pioneer	26R59	87.0	-	-	1	33
AgriMAXX	503	86.5	-	-	2	42
Progeny Ag	#BINGO	85.6	-	-	1	38
Delta Grow	1900	85.5	-	-	1	36
AgriMAXX	514	85.0	-	-	2	38
AgriMAXX	535	84.9	-	-	1	38
Delta Grow	7500	83.8	-	-	1	37
SunGrains	LA14234C-BW-31	83.4	-	-	1	37
AgriMAXX	EXP 2301 *	82.2	-	-	1	33
Revere Seed	2169	82.1	-	-	1	34
Delta Grow	3500	82.0	-	-	1	33
Dyna-Gro	9811	81.3	-	-	1	36
GoWheat	6056	80.8	-	-	1	41

MAFES DELTA BRANCH EXPERIMENT STATION, STONEVILLE

Table 11. Yields of 46 wheat varieties at MAFES Delta Branch Experiment Station, Stoneville (clay).

Brand	Variety ¹	2022-23 yield	2-year average	3-year average	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>(1-5)</i>	<i>in.</i>
SunGrains	GA12230-20E36	80.7	-	-	1	32
Progeny Ag	#TURBO	80.5	-	-	1	36
SunGrains	GA161240-20LE6	79.7	-	-	1	32
SunGrains	GA131218-20E15	79.5	-	-	1	33
Delta Grow	1800	78.5	-	-	1	35
Delta Grow	1700	77.6	-	-	1	41
Dyna-Gro	9481	73.1	-	-	1	35
AgriMAXX	492	71.8	-	-	1	35
Dyna-Gro	9290	71.1	-	-	1	35
GoWheat	2032	68.9	-	-	1	35
GoWheat	LA754	68.5	-	-	1	33
SunGrains	LA14159SB-BR1-1	63.9	-	-	1	31
Mean		85.3				
CV		15.0				
LSD(0.05)		34.0				
R ²		36.0				
Error DF		135				

¹Varieties followed by an asterisk indicates an experimental entry.
²No 2 or 3-year average.

MAFES DELTA BRANCH EXPERIMENT STATION, STONEVILLE

Table 12. Yields of 46 wheat varieties at MAFES Delta Branch Station, Stoneville (loam).

Brand	Variety ¹	2022-23 yield	2-year average ²	3-year average ²	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	(1-5)	<i>in.</i>
Progeny Ag	#TURBO	90.0	82.9	83.9	1	36
Progeny Ag	#BUSTER	86.5	78.9	-	1	33
Pioneer	26R33	86.1	-	-	4	39
Dyna-Gro	9701	86.0	79.6	83.5	2	41
Progeny Ag	#BINGO	85.1	76.2	86.5	1	36
GoWheat	6000	84.4	81.7	83.6	1	35
Progeny Ag	#CHAD	83.4	73.5	-	1	28
SunGrains	GA12230-20E36	83.0	-	-	2	33
Delta Grow	1900	82.4	-	-	1	36
Dyna-Gro	9481	81.9	-	-	1	37
AgriMAXX	EXP 2301 *	81.7	-	-	1	33
Progeny Ag	PGX 22-3 *	80.8	-	-	1	36
Dyna-Gro	9151	80.3	-	-	1	35
AgriMAXX	492	80.0	-	-	1	32
AgriMAXX	473	79.6	79.7	84.9	2	38
AgriMAXX	516	79.1	82.0	87.6	1	37
Dyna-Gro	9120	79.0	74.0	81.9	3	38
AgriMAXX	535	78.6	-	-	1	39
Delta Grow	1700	78.0	-	-	1	37
Pioneer	26R41	77.7	74.2	-	4	39
SunGrains	GA161240-20LE6	77.5	-	-	2	31
SunGrains	LA14234C-BW-31	76.0	-	-	2	34
USG	3463	75.3	-	-	1	37
SunGrains	GA131218-20E15	74.6	-	-	2	32
Pioneer	26R59	73.5	73.4	-	1	32
Delta Grow	3500	73.5	72.4	-	1	33
Dyna-Gro	9393	73.2	70.4	-	1	32
Delta Grow	1200	73.2	75.9	86.2	2	35
GoWheat	2032	73.0	77.4	79.3	1	31
Delta Grow	1000	72.7	77.1	-	4	36
Progeny Ag	PGX 22-4 *	71.3	-	-	1	40
AGS	2055	70.4	70.0	77.3	1	34
AgriMAXX	514	70.2	71.0	82.1	2	38
Dyna-Gro	9172	69.8	73.5	83.3	1	35

MAFES DELTA BRANCH EXPERIMENT STATION, STONEVILLE

Table 12. Yields of 46 wheat varieties at MAFES Delta Branch Station, Stoneville (loam).

Brand	Variety ¹	2022-23 yield	2-year average	3-year average	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>(1-5)</i>	<i>in.</i>
SunGrains	GA151313-20E48	69.8	-	-	1	29
USG	3783	69.2	73.1	-	2	34
USG	3472	69.1	70.1	80.9	2	34
Dyna-Gro	9811	68.8	70.7	76.2	1	37
GoWheat	6056	68.5	73.7	-	2	34
GoWheat	LA754	66.7	67.9	67.2	1	29
Revere Seed	2169	66.5	69.1	78.6	1	38
Delta Grow	7500	65.4	-	-	4	40
Delta Grow	1800	64.5	68.6	73.2	1	35
AgriMAXX	503	64.3	67.8	79.6	3	36
SunGrains	LA14159SB-BR1-1	61.2	-	-	1	33
Dyna-Gro	9290	60.3	-	-	1	35
Mean		75.3				
CV		15.0				
LSD(0.05)		30.0				
R ²		36.0				
Error DF		135				

¹Varieties followed by an asterisk indicates an experimental entry.

MAFES NORTHEAST MS BRANCH, VERONA

Table 13. Yields of 46 wheat varieties at MAFES Northeast MS Branch, Verona.

Brand	Variety ¹	2022-23 yield	2-year average ²	3-year average ²	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>(1-5)</i>	<i>in.</i>
AgriMAXX	516	76.8	88.6	88.6	1	34
Delta Grow	7500	75.4	-	-	1	37
Delta Grow	1900	75.1	-	-	1	33
Delta Grow	1800	74.6	82.8	87.1	1	33
Dyna-Gro	9481	74.5	-	-	1	34
Pioneer	26R33	73.5	-	-	1	32
AgriMAXX	492	72.9	-	-	1	38
Revere Seed	2169	72.4	87.4	91.8	1	33
Delta Grow	3500	71.8	84.7	-	1	30
Progeny Ag	#BINGO	71.8	84.5	88.0	1	34
Dyna-Gro	9172	71.6	87.0	93.2	1	35
Progeny Ag	#BUSTER	71.5	89.0	-	1	36
SunGrains	GA131218-20E15	71.3	-	-	3	36
GoWheat	6056	71.3	82.5	-	1	38
Progeny Ag	PGX 22-3 *	71.2	-	-	1	30
USG	3463	71.1	-	-	1	37
USG	3783	70.2	85.7	-	1	37
GoWheat	LA754	70.2	81.2	83.3	1	39
GoWheat	6000	70.1	82.6	89.5	1	39
Pioneer	26R59	69.9	84.3	-	1	35
SunGrains	GA12230-20E36	69.6	-	-	1	32
AgriMAXX	514	69.0	81.5	85.6	1	34
Dyna-Gro	9290	68.8	-	-	1	34
AGS	2055	68.8	83.5	88.8	1	37
AgriMAXX	473	68.6	78.0	83.4	1	35
Progeny Ag	#TURBO	68.5	83.1	82.7	1	35
Pioneer	26R41	68.1	87.1	-	1	34
Dyna-Gro	9701	67.8	81.3	83.0	1	35
AgriMAXX	EXP 2301 *	67.7	-	-	1	32
Delta Grow	1700	67.0	-	-	1	36
GoWheat	2032	66.9	81.2	87.6	1	34
Dyna-Gro	9120	66.5	80.5	86.3	1	36
SunGrains	GA151313-20E48	66.5	-	-	1	33
SunGrains	LA14159SB-BR1-1	65.3	-	-	1	34

MAFES NORTHEAST MS BRANCH, VERONA

Table 13. Yields of 46 wheat varieties at MAFES Northeast MS Branch, Verona.

Brand	Variety ¹	2022-23 yield	2-year average	3-year average	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>(1-5)</i>	<i>in.</i>
Progeny Ag	PGX 22-4 *	65.2	-	-	1	31
Dyna-Gro	9811	65.2	82.1	84.3	1	39
Dyna-Gro	9151	64.4	-	-	1	33
AgriMAXX	503	64.3	83.6	91.1	1	35
USG	3472	64.1	80.4	84.8	1	35
AgriMAXX	535	63.9	-	-	1	35
Delta Grow	1000	62.3	80.1	-	1	35
SunGrains	LA14234C-BW-31	60.8	-	-	1	32
Dyna-Gro	9393	59.6	76.0	-	1	33
Progeny Ag	#CHAD	58.9	73.2	-	1	35
SunGrains	GA161240-20LE6	53.0	-	-	1	33
Delta Grow	1200	51.8	74.0	82.7	1	36
Mean		68.0				
CV		16.0				
LSD(0.05)		30.0				
R ²		26.0				
Error DF		135				
¹ Varieties followed by an asterisk indicates an experimental entry.						



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Scott Willard, Director

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