MISSISSIPPI WHEAT AND OAT

VARIETY TRIALS, 2024

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MISSISSIPPI'S OFFICIAL VARIETY TRIALS

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This report contains data generated as part of the Mississippi Agricultural and Forestry Experiment Station research program. Trade names of commercial products used in this report are included only for clarity and understanding.

Mississippi Wheat and Oat Variety Trials, 2024

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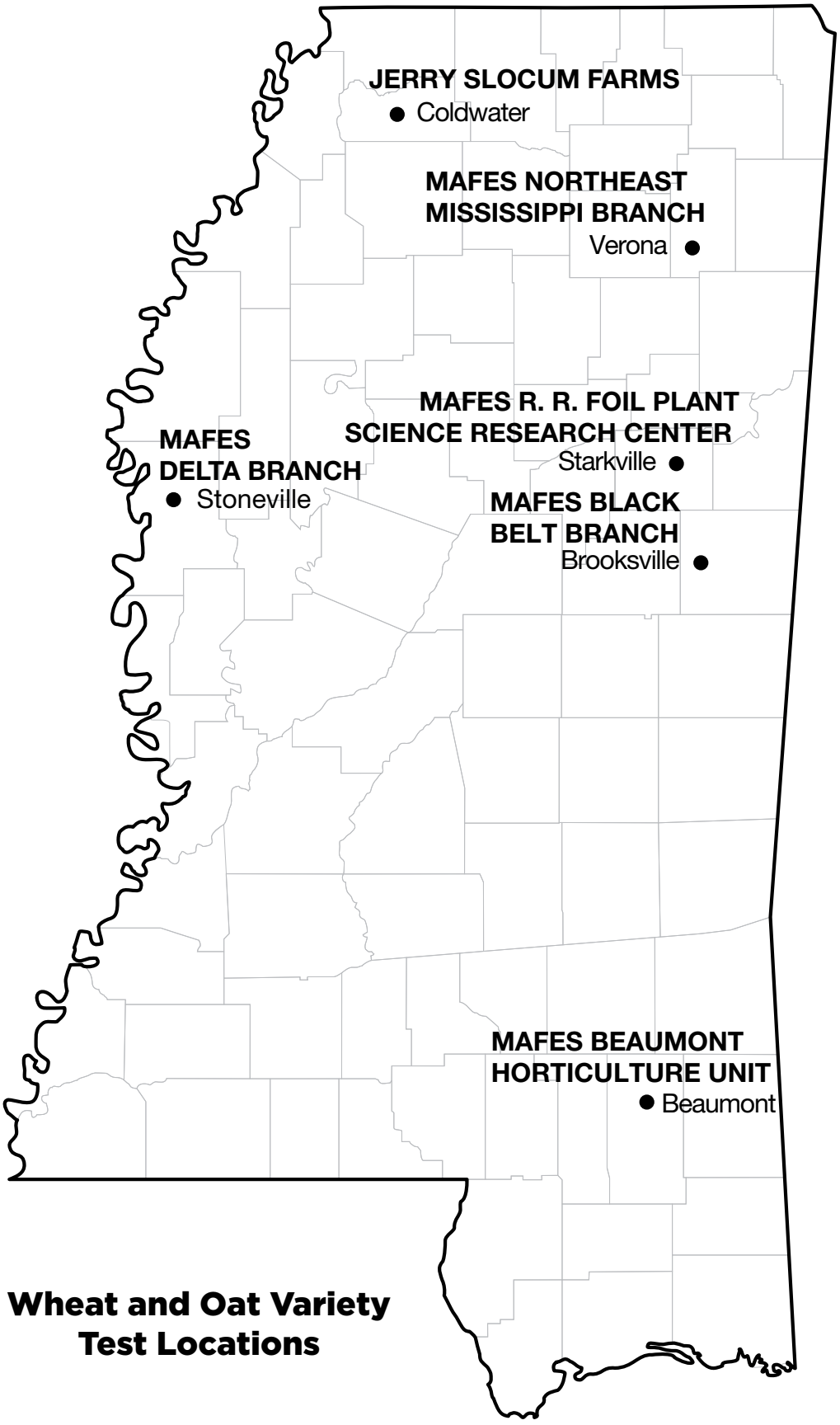
Find variety trial information online at ***mafes.msstate.edu/variety-trials.***



Wheat and Oat Variety Test Locations

Mississippi Wheat and Oat Variety Trials, 2024

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 aerially 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 aerially, 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. 2023-24 MSU OVT Wheat Locations and Dates.

Location	Soil Type	Planting Date	Harvest Date	Crop Tested
Beaumont	McLaurin sandy loam	11/16/23	5/24/24	wheat and oats
Brooksville	Brooksville silty clay	11/3/23	5/31/24	wheat and oats
Coldwater	Calloway silt loam	11/13/23	6/10/24	wheat
Raymond	Memphis silt loam	11/15/23	*	wheat and oats
Starkville	Marietta fine sandy loam	11/6/23	5/29/24	wheat and oats
Stoneville (clay)	Commerce silty clay lom and Tunica clay	11/14/23	6/7/24	wheat
Stoneville (loam)	Bosket very fine sandy loam	11/14/23	6/7/24	wheat and oats
Verona	Leeper silty clay	11/6/23	5/30/24	wheat and oats

Table 2. 2023-24 MSU OVT Wheat Locations and Dates.						
Location	**Soil Type**	**Planting Date**	**Harvest Date**	**Soil pH**	**Soil Fertility**	**Fertilizer & Dates**
Beaumont	McLaurin sandy loam	11/11/22	6/1/23	6.3	P-M, K-M	Preplant-13-13-13 @ 300 lbs/A Topdress-13-13-13@ 300 lbs/A on Feb. 1; N @ 66 lbs/A (33-0-0-12S) on March 4.
Brooksville	Brooksville silty clay	11/4/22	6/12/23	6.4	P-M, K-M	Preplant- 0-20-20 @ 300 lbs/A Topdress-N @ 33 lbs/A (32% UAN) on Feb. 19; N @ 80 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. 11; N @ 80 lbs/A (33-0-0-12S) on March 23
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 @ 33 lbs/A (32% UAN) on Feb. 19; N @ 80 lbs/A (33-0-0-12S) on March 18.
Stoneville (clay)	Commerce silty clay loam and Tunica clay	11/18/22	6/22/23	6.8	P-M, K-M	Preplant- 19-19-19 @ 250 lbs/A Topdress- N @ 31 lbs/A (21-0-0-24S) on Feb. 12; N @ 115 lbs/A (Urea) on March 14.
Stoneville (loam)	Bosket very fine sandy loam	11/18/22	6/22/23	6.5	P-M, K-M	Preplant- 19-19-19 @ 250 lbs/A Topdress- N @ 31 lbs/A (21-0-0-24S) on Feb. 12; N @ 115 lbs/A (Urea) on March 14.
Verona	Leeper silty clay	11/4/22	6/16/23	6.5	P-M, K-M	Topdress-N @ 33 lbs/A (32% UAN) on Feb. 19; N @ 80 lbs/A (33-0-0-12S) on March 21.

Table 3. Companies supplying wheat brands/varieties entered.		
Company	**Variety**	
MAXX Wheat Company 7167 Highbanks Road Mascoutah, IL 62258	AgriMAXX AgriMAXX AgriMAXX AgriMAXX AgriMAXX	514 525 535 544 EXP 2312
AgSouth Genetics	AgSouth Genetics	AGS 2055
Delta Grow Seed P.O. Box 219 England, AR 72406	Delta Grow Delta Grow Delta Grow Delta Grow	1000 1200 1800 1900
Dyna-Gro Seed 6221 Riverside Drive, Suite One Dublin, OH 43017	Dyna-Gro Dyna-Gro Dyna-Gro Dyna-Gro Dyna-Gro Dyna-Gro Dyna-Gro	9120 9172 9290 9393 9701 9811 9593
KWS	KWS	KWS397
Progeny Ag Products 1529 Hwy 193 South Wynne, AR 72396	Progeny Ag Progeny Ag Progeny Ag Progeny Ag Progeny Ag Progeny Ag Progeny Ag	#PGX 22-3 #PGX 22-4 #TURBO #BUSTER #CHAD #BINGO #PGX 23-15
UniSouth Genetics, Inc. 3205 C Hwy 46 S Dickson, TN 37055	USG USG USG	3352 3354 3574
Revere Seed	Revere Seed	2169
Stratton Seed Company 1530 Hwy 79 South Stuttgart, AR 72160	Go Wheat Go Wheat	6056 6000
SunGrains	SunGrains SunGrains SunGrains SunGrains SunGrains SunGrains SunGrains SunGrains SunGrains SunGrains	GA131246LDH-86-21E2 GA154490ID-19-5-21LE2 GA141045-9-3-2-21LE7 GANC12915-167-21E3 GA151313-LDH-192-20E48 LA14272C-86-3-1-3 LA15203-LDH197 LA18003-NDH119 LA19333-NDH31 LA19333-NDH34

SUMMARIES OF WHEAT YIELDS

Table 4. 2023-24 yield summary of wheat variety trials in Mississippi.

Brand	Variety[1]	Brooksville (clay)	Coldwater (loam)	Starkville (loam)	Verona (clay)	North Average	Beaumont (South Avg.) (loam)	Stoneville (clay)	Stoneville (loam)	Delta Average	Overall Average
		bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
AgriMAXX	514	56.9	52.3	77.8	69.1	64.0	82.0	85.5	59.8	72.7	69.1
AgriMAXX	525	56.8	48.0	72.4	67.6	61.2	75.2	79.4	60.5	70.0	65.7
AgriMAXX	535	62.5	47.3	72.2	70.7	63.2	75.2	80.0	63.5	71.7	67.3
AgriMAXX	544	46.2	34.6	70.3	69.1	55.0	83.0	85.2	64.3	74.7	64.7
AgriMAXX	EXP 2312*	55.8	56.0	73.9	63.3	62.3	79.0	83.8	66.5	75.2	68.3
AGS	2055	59.5	46.6	76.1	71.5	63.4	82.9	83.0	66.1	74.6	69.4
Delta Grow	1200	57.5	47.5	74.3	68.0	61.8	75.7	90.9	66.5	78.7	68.6
Delta Grow	1800	49.7	49.9	69.3	63.2	58.0	77.7	81.7	68.7	75.2	65.8
Delta Grow	1900	61.1	48.7	70.7	67.2	61.9	77.9	84.9	64.6	74.8	67.9
Delta Grow	1000	62.5	47.8	68.3	70.2	62.2	66.2	81.6	67.7	74.7	66.3
Dyna-Gro	9120	46.4	42.3	72.6	64.8	56.5	84.7	82.1	65.3	73.7	65.5
Dyna-Gro	9172	49.8	48.3	73.0	67.8	59.7	74.7	85.5	68.1	76.8	66.7
Dyna-Gro	9290	53.4	49.0	71.6	63.8	59.4	75.6	83.6	64.2	73.9	65.9
Dyna-Gro	9393	63.0	50.9	73.2	69.7	64.2	79.6	79.9	51.0	65.5	66.8
Dyna-Gro	9593	54.2	49.7	74.7	69.0	61.9	74.5	90.0	75.0	82.5	69.6
Dyna-Gro	9701	58.0	53.4	73.9	60.8	61.5	75.6	86.7	73.1	79.9	68.8
Dyna-Gro	9811	59.8	45.2	74.4	63.7	60.8	77.2	88.6	67.8	78.2	68.1
Go Wheat	6000	50.5	51.9	67.5	54.0	56.0	78.6	85.1	62.3	73.7	64.3
GoWheat	6056	48.1	49.8	67.2	67.1	58.0	83.1	88.0	63.9	76.0	66.7
KWS	KWS397	51.9	38.7	74.4	68.0	58.3	83.8	85.3	60.7	73.0	66.1
Progeny	#BINGO	62.7	47.1	77.6	71.6	64.7	82.3	86.5	60.9	73.7	69.8
Progeny	#CHAD	64.3	44.5	80.8	72.2	65.4	83.0	84.9	60.7	72.8	70.0
Progeny	#PGX 23-15	49.1	41.5	69.2	68.8	57.2	84.7	83.7	65.3	74.5	66.0
Progeny	#Turbo	57.9	40.4	84.7	65.0	62.0	86.7	86.9	76.9	81.9	71.2
Progeny	PGX 22-3*	64.3	47.5	71.7	72.0	63.9	76.3	90.0	65.8	77.9	69.7
Progeny	PGX 22-4*	50.1	43.3	64.1	64.8	55.6	79.6	87.1	63.3	75.2	64.6
Progeny	#BUSTER	55.6	43.4	70.5	70.6	60.0	84.8	83.9	64.1	74.0	67.6
Revere	2169	53.5	48.6	71.5	67.7	60.3	81.0	83.8	64.6	74.2	67.2
SunGrains	GA131246LDH-86-21E2*	63.6	48.4	65.3	56.1	58.4	79.5	82.9	61.1	72.0	65.3
SunGrains	GA141045-9-3-2-2ILE7*	58.9	60.6	71.9	70.7	65.5	83.7	84.1	66.9	75.5	71.0
SunGrains	GA151313-LDH-192-20E48*	66.6	49.1	72.1	62.4	62.5	81.9	84.8	62.1	73.5	68.4
SunGrains	GA154490ID-19-5-21LE2*	62.6	59.3	65.4	64.3	62.9	77.3	86.0	59.5	72.7	67.8
SunGrains	GANC12915-167-21E3*	64.1	40.9	66.6	73.4	61.3	80.2	82.7	66.6	74.6	67.8
SunGrains	LA14272C-86-3-1-3*	51.7	54.9	71.2	61.6	59.8	81.9	84.2	67.6	75.9	67.6

Table 4. 2023-24 yield summary of wheat variety trials in Mississippi (continued).

Brand	Variety[1]	Brooksville (clay)	Coldwater (loam)	Starkville (loam)	Verona (clay)	North Average	Beaumont (South Avg.) (loam)	Stoneville (clay)	Stoneville (loam)	Delta Average	Overall Average
		bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
SunGrains	LA15203-LDH197*	63.0	44.1	66.9	72.9	61.7	85.9	91.1	67.2	79.1	70.1
SunGrains	LA18003-NDH119*	70.9	51.4	67.5	67.7	64.4	74.9	82.6	66.5	74.6	68.8
SunGrains	LA19333-NDH31*	57.7	50.5	72.6	57.9	59.7	79.7	87.0	66.2	76.6	67.4
SunGrains	LA19333-NDH34*	60.5	52.1	69.2	65.5	61.8	82.8	85.4	59.9	72.6	67.9
USG	3352	58.0	48.4	77.9	66.0	62.6	74.0	86.6	69.2	77.9	68.6
USG	3354	63.3	53.3	78.6	65.3	65.1	77.0	86.3	63.6	74.9	69.6
USG	3574	55.5	48.9	64.2	62.5	57.8	71.0	86.9	56.7	71.8	63.7
MEAN		57.5	48.2	71.9	66.5	61.0	79.3	85.1	64.7	74.9	67.6
CV		14.7	17.2	12.7	10.7		12.4	6.5	13.9		
LSD(0.05)		11.9	11.6	NS	10.0		NS	NS	NS		
R^2		41	35	26	35		20	32	26		
ERROR DF		120	120	120	120		120	120	120		

[1]Varieties followed by an asterisk indicates an experimental entry.

SUMMARIES OF WHEAT YIELDS

Table 5. Two-year summary of wheat variety trials in Mississippi.									
Brand	**Variety[1]**	**Beaumont (loam)**	**Brooksville (clay)**	**Coldwater (loam)**	**Starkville (loam)**	**Stoneville (clay)**	**Stoneville (loam)**	**Verona (clay)**	**Overall Average**
		bu/A	**bu/A**	**bu/A**	**bu/A**	**bu/A**	**bu/A**	**bu/A**	**bu/A**
AgriMAXX	514	63.8	67.5	55.5	71.6	85.2	65.0	69.0	68.2
AgriMAXX	535	66.7	74.2	52.9	73.5	82.4	71.1	67.3	69.7
AGS	2055	72.1	70.5	51.2	71.0	86.7	68.3	70.1	70.0
Delta Grow	1200	63.9	68.4	53.8	72.1	90.5	69.8	59.9	68.4
Delta Grow	1800	72.2	60.1	55.5	66.8	80.1	66.6	68.9	67.2
Delta Grow	1900	64.5	71.8	55.8	73.0	85.2	73.5	71.2	70.7
Delta Grow	1000	64.6	72.0	54.1	71.8	87.5	70.2	66.3	69.5
Dyna-Gro	9120	67.7	63.8	51.8	72.4	86.9	72.2	65.7	68.6
Dyna-Gro	9172	58.3	67.4	58.4	72.8	89.9	69.0	69.7	69.3
Dyna-Gro	9290	71.0	69.5	48.5	73.8	77.3	62.3	66.3	66.9
Dyna-Gro	9393	69.5	69.2	56.4	70.0	85.6	62.1	64.6	68.2
Dyna-Gro	9701	63.6	66.4	58.6	71.0	88.7	79.6	64.3	70.3
Dyna-Gro	9811	67.1	66.1	54.2	68.9	84.9	68.3	64.4	67.7
Go Wheat	6000	67.2	59.6	54.8	63.2	87.2	73.3	62.0	66.8
GoWheat	6056	65.6	63.0	54.4	70.9	84.4	66.2	69.2	67.7
Progeny	#BINGO	67.0	78.6	51.0	71.3	86.0	73.0	71.7	71.2
Progeny	#CHAD	71.3	69.5	58.5	79.3	86.3	72.0	65.5	71.8
Progeny	#Turbo	72.4	67.4	48.5	78.7	83.7	83.5	66.8	71.6
Progeny	PGX 22-3*	66.4	74.8	58.4	68.5	91.3	73.3	71.6	72.1
Progeny	PGX 22-4*	64.1	59.6	53.7	69.7	88.2	67.3	65.0	66.8
Progeny	#BUSTER	72.6	65.4	55.2	70.5	93.8	75.3	71.0	72.0
Revere	2169	66.2	66.1	56.3	73.0	82.9	65.5	70.0	68.6
SunGrains	GA151313-LDH-192-20E48*	60.3	70.7	57.3	67.4	94.4	66.0	64.5	68.6
OVERALL MEAN		66.9	67.9	54.6	71.4	86.5	70.1	67.2	69.2

[1]Varieties followed by an asterisk indicates an experimental entry.

SUMMARIES OF WHEAT YIELDS

Table 6. Three-year summary of wheat variety trials in Mississippi.							
Brand	**Variety[1]**	**Beaumont (loam)**	**Coldwater (loam)**	**Starkville (loam)**	**Stoneville (delta)**	**Verona (clay)**	**Overall Average**
		bu/A	**bu/A**	**bu/A**	**bu/A**	**bu/A**	**bu/A**
AgriMAXX	514	64.0	59.1	75.1	67.3	77.4	68.6
AGS	2055	69.8	56.8	69.8	68.7	79.5	68.9
Delta Grow	1200	63.0	58.4	75.4	72.8	72.0	68.3
Delta Grow	1800	70.6	60.4	63.7	68.6	76.3	67.9
Delta Grow	1000	63.4	56.9	69.9	74.0	76.8	68.2
Dyna-Gro	9120	63.7	56.8	69.8	71.1	75.3	67.3
Dyna-Gro	9172	57.7	59.2	69.9	71.7	80.6	67.8
Dyna-Gro	9393	65.3	58.1	69.9	63.9	73.9	66.2
Dyna-Gro	9701	59.8	60.4	72.6	77.5	74.5	68.9
Dyna-Gro	9811	67.4	58.0	69.1	69.7	76.0	68.0
Go Wheat	6000	58.9	58.9	63.7	75.2	73.0	65.9
GoWheat	6056	62.2	58.8	70.4	70.4	77.4	67.9
Progeny	#CHAD	71.6	63.1	79.4	69.2	72.9	71.2
Progeny	#Turbo	71.4	54.5	76.5	80.9	77.1	72.1
Progeny	#BUSTER	70.8	59.5	70.9	73.9	82.9	71.6
Revere	2169	60.9	59.4	74.2	67.6	80.8	68.6
OVERALL MEAN		65.0	58.6	71.3	71.4	76.6	68.6

[1]Varieties followed by an asterisk indicates an experimental entry.

MAFES BEAUMONT HORTICULTURE UNIT, BEAUMONT

Table 7. Yields of 40 wheat varieties at MAFES Beaumont Horticulture Unit (McLaurin sandy loam soil).

Brand	Variety[1]	2024 Yield	2-year Average	3-year Average	Plant Height	Lodging Score
		bu/A	bu/A	bu/A	in.	(1-5)
Progeny	#Turbo	86.7	72.4	71.4	37	1
SunGrains	LA15203-LDH197 *	85.9	-	-	36	1
Progeny	#BUSTER	84.8	72.6	70.8	35	1
Dyna-Gro	9120	84.7	67.7	63.7	35	1
Progeny	#PGX 23-15	84.7	-	-	38	1
KWS	KWS397	83.8	-	-	34	1
SunGrains	GA141045-9-3-2-2ILE7 *	83.7	-	-	36	1
GoWheat	6056	83.1	65.6	62.2	36	1
AgriMAXX	544	83.0	-	-	36	1
Progeny	#CHAD	83.0	71.3	71.6	32	1
AGS	2055	82.9	72.1	69.8	37	1
SunGrains	LA19333-NDH34 *	82.8	-	-	34	1
Progeny	#BINGO	82.3	67.0	-	35	1
AgriMAXX	514	82.0	63.8	64.0	34	1
SunGrains	LA14272C-86-3-1-3 *	81.9	-	-	33	1
SunGrains	GA151313-LDH-192-20E48 *	81.9	60.3	-	32	1
Revere	2169	81.0	66.2	60.9	39	1
SunGrains	GANC12915-167-21E3 *	80.2	-	-	34	1
SunGrains	LA19333-NDH31 *	79.7	-	-	30	1
Dyna-Gro	9393	79.6	69.5	65.3	30	1
Progeny	PGX 22-4 *	79.6	64.1	-	34	1
SunGrains	GA131246LDH-86-21E2 *	79.5	-	-	35	1
AgriMAXX	EXP 2312 *	79.0	-	-	34	1
Go Wheat	6000	78.6	67.2	58.9	36	1
Delta Grow	1900	77.9	64.5	-	33	1
Delta Grow	1800	77.7	72.2	70.6	38	1
SunGrains	GA154490ID-19-5-21LE2 *	77.3	-	-	34	1
Dyna-Gro	9811	77.2	67.1	67.4	38	1
USG	3354	77.0	-	-	34	1
Progeny	PGX 22-3 *	76.3	66.4	-	33	1
Delta Grow	1200	75.7	63.9	63.0	32	1

Table 7. Yields of 40 wheat varieties at MAFES Beaumont Horticulture Unit (McLaurin sandy loam soil)(continued).

Brand	Variety[1]	2024 Yield	2-year Average	3-year Average	Plant Height	Lodging Score
		bu/A	bu/A	bu/A	in.	(1-5)
Dyna-Gro	9290	75.6	71.0	-	33	1
Dyna-Gro	9701	75.6	63.6	59.8	41	1
AgriMAXX	525	75.2	-	-	32	1
AgriMAXX	535	75.2	66.7	-	34	1
SunGrains	LA18003-NDH119 *	74.9	-	-	38	1
Dyna-Gro	9172	74.7	58.3	57.7	37	1
Dyna-Gro	9593	74.5	-	-	34	1
USG	3352	74.0	-	-	33	1
USG	3574	71.0	-	-	32	1
Delta Grow	1000	66.2	64.6	63.4	34	1
MEAN		79.3				
CV		12.4				
LSD(0.05)		NS				
R^2		20				
ERROR DF		120				

[1]Varieties followed by an asterisk indicates an experimental entry.

MAFES BLACK BELT BRANCH, BROOKSVILLE

Table 8. Yields of 40 wheat varieties at MAFES Black Belt Branch, Brooksville.

Brand	Variety[1]	2024 Yield	2-year Average	3-year Average	Plant Height	Lodging Score
		bu/A	bu/A	bu/A	in.	(1-5)
SunGrains	LA18003-NDH119*	70.9	-	-	36	1
SunGrains	GA151313-LDH-192-20E48*	66.6	70.7	-	26	1
Progeny	#CHAD	64.3	69.5	-	32	1
Progeny	PGX 22-3*	64.3	74.8	-	31	1
SunGrains	GANC12915-167-21E3*	64.1	-	-	30	1
SunGrains	GA131246LDH-86-21E2*	63.6	-	-	30	1
USG	3354	63.3	-	-	35	1
SunGrains	LA15203-LDH197*	63.0	-	-	37	1
Dyna-Gro	9393	63.0	69.2	-	32	1
Progeny	#BINGO	62.7	78.6	-	34	1
SunGrains	GA154490ID-19-5-21LE2*	62.6	-	-	33	1
AgriMAXX	535	62.5	74.2	-	33	1
Delta Grow	1000	62.5	72.0	-	34	1
Delta Grow	1900	61.1	71.8	-	34	1
SunGrains	LA19333-NDH34*	60.5	-	-	33	1
Dyna-Gro	9811	59.8	66.1	-	38	1
AGS	2055	59.5	70.5	-	35	1
SunGrains	GA141045-9-3-2-2ILE7*	58.9	-	-	34	1
USG	3352	58.0	-	-	32	1
Dyna-Gro	9701	58.0	66.4	-	37	1
Progeny	#Turbo	57.9	67.4	-	31	1
SunGrains	LA19333-NDH31*	57.7	-	-	31	1
Delta Grow	1200	57.5	68.4	-	33	1
AgriMAXX	514	56.9	67.5	-	33	1
AgriMAXX	525	56.8	-	-	32	1
AgriMAXX	EXP 2312*	55.8	-	-	32	1
Progeny	#BUSTER	55.6	65.4	-	29	1
USG	3574	55.5	-	-	28	1
Dyna-Gro	9593	54.2	-	-	34	1
Revere	2169	53.5	66.1	-	32	1
Dyna-Gro	9290	53.4	69.5	-	35	1
KWS	KWS397	51.9	-	-	29	1

Table 8. Yields of 40 wheat varieties at MAFES Black Belt Branch, Brooksville (continued).

Brand	Variety[1]	2024 Yield	2-year Average	3-year Average	Plant Height	Lodging Score
		bu/A	bu/A	bu/A	in.	(1-5)
SunGrains	LA14272C-86-3-1-3*	51.7	-	-	33	1
Go Wheat	6000	50.5	59.6	-	32	1
Progeny	PGX 22-4*	50.1	59.6	-	30	1
Dyna-Gro	9172	49.8	67.4	-	29	1
Delta Grow	1800	49.7	60.1	-	33	1
Progeny	#PGX 23-15	49.1	-	-	34	1
GoWheat	6056	48.1	63.0	-	31	1
Dyna-Gro	9120	46.4	63.8	-	29	1
AgriMAXX	544	46.2	-	-	34	1
MEAN		57.5				
CV		14.7				
LSD(0.05)		11.9				
R^2		41				
ERROR DF		120				

[1]Varieties followed by an asterisk indicates an experimental entry.

JERRY SLOCUM FARMS, COLDWATER

Table 9. Yields of 40 wheat varieties at Jerry Slocum Farms,Coldwater (Calloway silt loam soil).						
Brand	Variety[1]	2024 Yield	2-year Average	3-year Average	Plant Height	Lodging Score
		bu/A	bu/A	bu/A	in.	(1-5)
SunGrains	GA141045-9-3-2-2ILE7*	60.6	-	-	33	1
SunGrains	GA154490ID-19-5-21LE2*	59.3	-	-	34	1
AgriMAXX	EXP 2312*	56.0	-	-	28	1
SunGrains	LA14272C-86-3-1-3*	54.9	-	-	27	1
Dyna-Gro	9701	53.4	58.6	60.4	31	1
USG	3354	53.3	-	-	23	1
AgriMAXX	514	52.3	55.5	59.1	29	1
SunGrains	LA19333-NDH34*	52.1	-	-	29	1
Go Wheat	6000	51.9	54.8	58.9	28	1
SunGrains	LA18003-NDH119*	51.4	-	-	34	1
Dyna-Gro	9393	50.9	56.4	58.1	29	1
SunGrains	LA19333-NDH31*	50.5	-	-	25	1
Delta Grow	1800	49.9	55.5	60.4	32	1
GoWheat	6056	49.8	54.4	58.8	31	1
Dyna-Gro	9593	49.7	-	-	27	1
SunGrains	GA151313-LDH-192-20E48*	49.1	57.3	-	28	1
Dyna-Gro	9290	49.0	48.5	-	31	1
USG	3574	48.9	-	-	24	1
Delta Grow	1900	48.7	55.8	-	30	1
Revere	2169	48.6	56.3	59.4	32	1
SunGrains	GA131246LDH-86-21E2*	48.4	-	-	32	1
USG	3352	48.4	-	-	29	1
Dyna-Gro	9172	48.3	58.4	59.2	31	1
AgriMAXX	525	48.0	-	-	26	1
Delta Grow	1000	47.8	54.1	56.9	32	1
Progeny	PGX 22-3*	47.5	58.4	-	23	1
Delta Grow	1200	47.5	53.8	58.4	28	1
AgriMAXX	535	47.3	52.9	-	26	1
Progeny	#BINGO	47.1	51.0	-	29	1
AGS	2055	46.6	51.2	56.8	29	1
Dyna-Gro	9811	45.2	54.2	58.0	29	1
Progeny	#CHAD	44.5	58.5	63.1	23	1

JERRY SLOCUM FARMS, COLDWATER

Table 9. Yields of 40 wheat varieties at Jerry Slocum Farms,Coldwater (Calloway silt loam soil) (continued).						
Brand	**Variety[1]**	**2024 Yield**	**2-year Average**	**3-year Average**	**Plant Height**	**Lodging Score**
		bu/A	**bu/A**	**bu/A**	**in.**	**(1-5)**
SunGrains	LA15203-LDH197*	44.1	-	-	27	1
Progeny	#BUSTER	43.4	55.2	59.5	31	1
Progeny	PGX 22-4*	43.3	53.7	-	30	1
Dyna-Gro	9120	42.3	51.8	56.8	26	1
Progeny	#PGX 23-15	41.5	-	-	23	1
SunGrains	GANC12915-167-21E3*	40.9	-	-	30	1
Progeny	#Turbo	40.4	48.5	54.5	29	1
KWS	KWS397	38.7	-	-	26	1
AgriMAXX	544	34.6	-	-	29	1
MEAN		48.2				
CV		17.2				
LSD(0.05)		11.6				
R^2		35				
ERROR DF		120				

[1]Varieties followed by an asterisk indicates an experimental entry.

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

Table 10. Yields of 40 wheat varieties at MAFES R.R. Foil Plant Science Research Center, Starkville (Leeper silty clay soil).

Brand	Variety[1]	2024 Yield	2-year Average	3-year Average	Plant Height	Lodging Score
		bu/A	bu/A	bu/A	in.	(1-5)
Progeny	#Turbo	84.7	78.7	76.5	38	1
Progeny	#CHAD	80.8	79.3	79.4	35	3
USG	3354	78.6	-	-	37	1
USG	3352	77.9	-	-	35	1
AgriMAXX	514	77.8	71.6	75.1	38	1
Progeny	#BINGO	77.6	71.3	-	34	1
AGS	2055	76.1	71.0	69.8	39	1
Dyna-Gro	9593	74.7	-	-	38	1
Dyna-Gro	9811	74.4	68.9	69.1	40	1
KWS	KWS397	74.4	-	-	37	1
Delta Grow	1200	74.3	72.1	75.4	31	1
Dyna-Gro	9701	73.9	71.0	72.6	41	1
AgriMAXX	EXP 2312*	73.9	-	-	38	1
Dyna-Gro	9393	73.2	70.0	69.9	34	1
Dyna-Gro	9172	73.0	72.8	69.9	36	1
Dyna-Gro	9120	72.6	72.4	69.8	34	1
SunGrains	LA19333-NDH31*	72.6	-	-	34	1
AgriMAXX	525	72.4	-	-	35	1
AgriMAXX	535	72.2	73.5	-	35	1
SunGrains	GA151313-LDH-192-20E48*	72.1	67.4	-	35	1
SunGrains	GA141045-9-3-2-2ILE7*	71.9	-	-	36	1
Progeny	PGX 22-3*	71.7	68.5	-	37	1
Dyna-Gro	9290	71.6	73.8	-	38	1
Revere	2169	71.5	73.0	74.2	38	1
SunGrains	LA14272C-86-3-1-3*	71.2	-	-	37	1
Delta Grow	1900	70.7	73.0	-	39	1
Progeny	#BUSTER	70.5	70.5	70.9	39	1
AgriMAXX	544	70.3	-	-	38	1
Delta Grow	1800	69.3	66.8	63.7	36	1
Progeny	#PGX 23-15	69.2	-	-	39	1
SunGrains	LA19333-NDH34*	69.2	-	-	36	1
Delta Grow	1000	68.3	71.8	69.9	38	1

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

Table 10. Yields of 40 wheat varieties at MAFES R.R. Foil Plant Science Research Center, Starkville (Leeper silty clay soil) (continued).

Brand	Variety[1]	2024 Yield	2-year Average	3-year Average	Plant Height	Lodging Score
		bu/A	bu/A	bu/A	in.	(1-5)
Go Wheat	6000	67.5	63.2	63.7	37	2
SunGrains	LA18003-NDH119*	67.5	-	-	41	1
GoWheat	6056	67.2	70.9	70.4	38	1
SunGrains	LA15203-LDH197*	66.9	-	-	38	1
SunGrains	GANC12915-167-21E3*	66.6	-	-	34	1
SunGrains	GA154490ID-19-5-21LE2*	65.4	-	-	38	1
SunGrains	GA131246LDH-86-21E2*	65.3	-	-	34	1
USG	3574	64.2	-	-	38	1
Progeny	PGX 22-4*	64.1	69.7	-	40	1
MEAN		71.9				
CV		12.7				
LSD(0.05)		NS				
R^2		26				
ERROR DF		120				

[1]Varieties followed by an asterisk indicates an experimental entry.

MAFES DELTA BRANCH, STONEVILLE

Table 11. Yields of 40 wheat varieties at MAFES Delta Branch, Stoneville (clay).						
Brand	**Variety[1]**	**2024 Yield**	**2-year Average**	**3-year Average**	**Plant Height**	**Lodging Score**
		bu/A	**bu/A**	**bu/A**	**in.**	**(1-5)**
SunGrains	LA15203-LDH197*	91.1	-	-	35	1
Delta Grow	1200	90.9	90.5	-	36	2
Dyna-Gro	9593	90.0	-	-	33	1
Progeny	PGX 22-3*	90.0	91.3	-	34	1
Dyna-Gro	9811	88.6	84.9	-	35	2
GoWheat	6056	88.0	84.4	-	35	1
Progeny	PGX 22-4*	87.1	88.2	-	33	1
SunGrains	LA19333-NDH31*	87.0	-	-	31	1
Progeny	#Turbo	86.9	83.7	-	32	2
USG	3574	86.9	-	-	35	2
Dyna-Gro	9701	86.7	88.7	-	33	2
USG	3352	86.6	-	-	33	1
Progeny	#BINGO	86.5	86.0	-	29	1
USG	3354	86.3	-	-	36	2
SunGrains	GA154490ID-19-5-21LE2*	86.0	-	-	30	3
AgriMAXX	514	85.5	85.2	-	33	2
Dyna-Gro	9172	85.5	89.9	-	31	2
SunGrains	LA19333-NDH34*	85.4	-	-	28	2
KWS	KWS397	85.3	-	-	32	2
AgriMAXX	544	85.2	-	-	34	1
Go Wheat	6000	85.1	87.2	-	29	1
Delta Grow	1900	84.9	85.2	-	35	1
Progeny	#CHAD	84.9	86.3	-	32	1
SunGrains	GA151313-LDH-192-20E48*	84.8	94.4	-	30	1
SunGrains	LA14272C-86-3-1-3*	84.2	-	-	37	1
SunGrains	GA141045-9-3-2-2ILE7*	84.1	-	-	34	2
Progeny	#BUSTER	83.9	93.8	-	33	2
AgriMAXX	EXP 2312*	83.8	-	-	36	4
Revere	2169	83.8	82.9	-	27	1
Progeny	#PGX 23-15	83.7	-	-	34	1
Dyna-Gro	9290	83.6	77.3	-	32	1
AGS	2055	83.0	86.7	-	37	1

Table 11. Yields of 40 wheat varieties at MAFES Delta Branch, Stoneville (clay) (continued).						
Brand	**Variety[1]**	**2024 Yield**	**2-year Average**	**3-year Average**	**Plant Height**	**Lodging Score**
		bu/A	**bu/A**	**bu/A**	**in.**	**(1-5)**
SunGrains	GA131246LDH-86-21E2*	82.9	-	-	34	3
SunGrains	GANC12915-167-21E3*	82.7	-	-	35	1
SunGrains	LA18003-NDH119*	82.6	-	-	37	1
Dyna-Gro	9120	82.1	86.9	-	34	1
Delta Grow	1800	81.7	80.1	-	33	2
Delta Grow	1000	81.6	87.5	-	37	1
AgriMAXX	535	80.0	82.4	-	32	1
Dyna-Gro	9393	79.9	85.6	-	31	2
AgriMAXX	525	79.4	-	-	34	2
MEAN		85.1				
CV		6.5				
LSD(0.05)		NS				
R^2		32				
ERROR DF		120				

[1]Varieties followed by an asterisk indicates an experimental entry.

MAFES DELTA BRANCH, STONEVILLE

Table 12. Yields of 40 wheat varieties at MAFES Delta Branch Station, Stoneville (loam).						
Brand	**Variety[1]**	**2024 Yield**	**2-year Average**	**3-year Average**	**Plant Height**	**Lodging Score**
		bu/A	**bu/A**	**bu/A**	**in.**	**(1-5)**
Progeny	#Turbo	76.9	83.5	80.9	33	1
Dyna-Gro	9593	75.0	-	-	38	2
Dyna-Gro	9701	73.1	79.6	77.5	39	2
USG	3352	69.2	-	-	34	2
Delta Grow	1800	68.7	66.6	68.6	38	1
Dyna-Gro	9172	68.1	69.0	71.7	32	2
Dyna-Gro	9811	67.8	68.3	69.7	37	1
Delta Grow	1000	67.7	70.2	74.0	37	1
SunGrains	LA14272C-86-3-1-3*	67.6	-	-	36	1
SunGrains	LA15203-LDH197*	67.2	-	-	37	2
SunGrains	GA141045-9-3-2-2ILE7*	66.9	-	-	39	2
SunGrains	GANC12915-167-21E3*	66.6	-	-	37	1
AgriMAXX	EXP 2312*	66.5	-	-	33	3
Delta Grow	1200	66.5	69.8	72.8	33	1
SunGrains	LA18003-NDH119*	66.5	-	-	40	1
SunGrains	LA19333-NDH31*	66.2	-	-	28	3
AGS	2055	66.1	68.3	68.7	38	3
Progeny	PGX 22-3*	65.8	73.3	-	33	2
Dyna-Gro	9120	65.3	72.2	71.1	34	2
Progeny	#PGX 23-15	65.3	-	-	36	1
Delta Grow	1900	64.6	73.5	-	34	3
Revere	2169	64.6	65.5	67.6	33	3
AgriMAXX	544	64.3	-	-	36	1
Dyna-Gro	9290	64.2	62.3	-	38	2
Progeny	#BUSTER	64.1	75.3	73.9	34	1
GoWheat	6056	63.9	66.2	70.4	36	3
USG	3354	63.6	-	-	32	2
AgriMAXX	535	63.5	71.1	-	32	3
Progeny	PGX 22-4*	63.3	67.3	-	38	3
Go Wheat	6000	62.3	73.3	75.2	32	3
SunGrains	GA151313-LDH-192-20E48*	62.1	66.0	-	31	2
SunGrains	GA131246LDH-86-21E2*	61.1	-	-	32	2

Table 12. Yields of 40 wheat varieties at MAFES Delta Branch Station, Stoneville (loam) (continued).						
Brand	**Variety[1]**	**2024 Yield**	**2-year Average**	**3-year Average**	**Plant Height**	**Lodging Score**
		bu/A	**bu/A**	**bu/A**	**in.**	**(1-5)**
Progeny	#BINGO	60.9	73.0	-	33	2
KWS	KWS397	60.7	-	-	35	3
Progeny	#CHAD	60.7	72.0	69.2	32	4
AgriMAXX	525	60.5	-	-	33	3
SunGrains	LA19333-NDH34*	59.9	-	-	31	1
AgriMAXX	514	59.8	65.0	67.3	32	3
SunGrains	GA154490ID-19-5-21LE2*	59.5	-	-	35	2
USG	3574	56.7	-	-	36	4
Dyna-Gro	9393	51.0	62.1	63.9	36	3
MEAN		64.7				
CV		13.9				
LSD(0.05)		NS				
R^2		26				
ERROR DF		120				

[1]Varieties followed by an asterisk indicates an experimental entry.

MAFES NORTHEAST MS BRANCH, VERONA

Table 13. Yields of 40 wheat varieties at MAFES Northeast MS Branch, Verona.						
Brand	Variety[1]	2024 Yield	2-year Average	3-year Average	Plant Height	Lodging Score
		bu/A	bu/A	bu/A	in.	(1-5)
SunGrains	GANC12915-167-21E3*	73.4	-	-	34	1
SunGrains	LA15203-LDH197*	72.9	-	-	34	1
Progeny	#CHAD	72.2	65.5	72.9	30	1
Progeny	PGX 22-3*	72.0	71.6	-	33	1
Progeny	#BINGO	71.6	71.7	-	34	1
AGS	2055	71.5	70.1	79.5	35	1
AgriMAXX	535	70.7	67.3	-	32	1
SunGrains	GA141045-9-3-2-2ILE7*	70.7	-	-	37	1
Progeny	#BUSTER	70.6	71.0	82.9	35	1
Delta Grow	1000	70.2	66.3	76.8	39	1
Dyna-Gro	9393	69.7	64.6	73.9	34	1
AgriMAXX	514	69.1	69.0	77.4	30	1
AgriMAXX	544	69.1	-	-	30	1
Dyna-Gro	9593	69.0	-	-	32	1
Progeny	#PGX 23-15	68.8	-	-	32	1
KWS	KWS397	68.0	-	-	32	1
Delta Grow	1200	68.0	59.9	72.0	31	1
Dyna-Gro	9172	67.8	69.7	80.6	33	1
SunGrains	LA18003-NDH119*	67.7	-	-	37	1
Revere	2169	67.7	70.0	80.8	33	1
AgriMAXX	525	67.6	-	-	33	1
Delta Grow	1900	67.2	71.2	-	30	1
GoWheat	6056	67.1	69.2	77.4	34	1
USG	3352	66.0	-	-	34	1
SunGrains	LA19333-NDH34*	65.5	-	-	32	1
USG	3354	65.3	-	-	34	1
Progeny	#Turbo	65.0	66.8	77.1	33	1
Progeny	PGX 22-4*	64.8	65.0	-	33	1
Dyna-Gro	9120	64.8	65.7	75.3	31	1
SunGrains	GA154490ID-19-5-21LE2*	64.3	-	-	34	1
Dyna-Gro	9290	63.8	66.3	-	32	1
Dyna-Gro	9811	63.7	64.4	76.0	31	1

Table 13. Yields of 40 wheat varieties at MAFES Northeast MS Branch, Verona (continued).						
Brand	**Variety[1]**	**2024 Yield**	**2-year Average**	**3-year Average**	**Plant Height**	**Lodging Score**
		bu/A	**bu/A**	**bu/A**	**in.**	**(1-5)**
AgriMAXX	EXP 2312 *	63.3	-	-	34	1
Delta Grow	1800	63.2	68.9	76.3	37	1
USG	3574	62.5	-	-	34	1
SunGrains	GA151313-LDH-192-20E48 *	62.4	64.5	-	32	1
SunGrains	LA14272C-86-3-1-3 *	61.6	-	-	35	1
Dyna-Gro	9701	60.8	64.3	74.5	35	1
SunGrains	LA19333-NDH31 *	57.9	-	-	27	1
SunGrains	GA131246LDH-86-21E2 *	56.1	-	-	37	1
Go Wheat	6000	54.0	62.0	73.0	32	1
MEAN		66.5				
CV		10.7				
LSD(0.05)		10.0				
R^2		35				
ERROR DF		120				

[1]Varieties followed by an asterisk indicates an experimental entry.

WHEAT SEEDS PER POUND

Table 14. Average number of wheat seeds per pound.			
Brand	**Variety**	**Seed/lb**	**Fungicide and/or Insecticide**
AgriMAXX	514	12,800	Prime ST
AgriMAXX	525	12,600	Prime ST
AgriMAXX	535	11,600	Prime ST
AgriMAXX	544	14,000	Prime ST
AgriMAXX	EXP 2312	12,500	Prime ST
AGS	2055	13,900	Vibrance Extreme + Nipsit
Delta Grow	1000	15,470	Dividend Extreme
Delta Grow	1200	11,500	Dividend Extreme
Delta Grow	1800	14,900	Dividend Extreme
Delta Grow	1900	13,132	Dividend Extreme
Dyna-Gro	9120	14,300	Foothold Virock w/ Awaken ST
Dyna-Gro	9172	13,578	Foothold Virock w/ Awaken ST
Dyna-Gro	9290	11,954	Foothold Virock w/ Awaken ST
Dyna-Gro	9393	12,449	Foothold Virock w/ Awaken ST
Dyna-Gro	9701	12,090	Foothold Virock w/ Awaken ST
Dyna-Gro	9811	12,427	Foothold Virock w/ Awaken ST
Dyna-Gro	9593	12,560	Foothold Virock w/ Awaken ST
Go Wheat	6056	11,031	Vibrance Extreme + Nipsit
Go Wheat	6000	10,818	Vibrance Extreme + Nipsit
KWS	KWS397	12,500	Cruiser Maxx+Vibrance
Progeny	#TURBO	12,200	ProServo/W
Progeny	#BUSTER	12,987	ProServo/W
Progeny	#CHAD	12,950	ProServo/W
Progeny	#BINGO	12,347	ProServo/W
Progeny	#PGX 23-15	14,688	ProServo/W
Progeny	#PGX 22-3	13,575	ProServo/W
Progeny	#PGX 22-4	12,617	ProServo/W
Revere	2169	11,300	Radius Premium
SunGrains	GA131246LDH-86-21E2	12,012	Vibrance Extreme
SunGrains	GA154490ID-19-5-21LE2	13,440	Vibrance Extreme
SunGrains	GA141045-9-3-2-21LE7	12,518	Vibrance Extreme
SunGrains	GANC12915-167-21E3	14,613	Vibrance Extreme
SunGrains	GA151313-LDH-192-20E48	13,633	Vibrance Extreme
SunGrains	LA14272C-86-3-1-3	12,740	Cruiser Maxx+Vibrance
SunGrains	LA15203-LDH197	12,035	Cruiser Maxx+Vibrance
SunGrains	LA18003-NDH119	12,597	Cruiser Maxx+Vibrance
SunGrains	LA19333-NDH31	17,400	Cruiser Maxx+Vibrance
SunGrains	LA19333-NDH34	14,947	Cruiser Maxx+Vibrance
USG	3352	10,500	Rancona, Imidicloprid
USG	3354	13,000	Rancona, Imidicloprid
USG	3574	12,000	Rancona, Imidicloprid

OAT SEEDS PER POUND

Table 15. Average number of oat seeds per pound.			
Brand	**Variety**	**Treatment**	**Seed per lb.**
Stratton Seed	Savage Oats		
SunGrains	LA15015SWB-S50		
SunGrains	LA17069SBSS-2-1		
SunGrains	LA17089SBS-33-2		
SunGrains	LA17129SBSS-8-1		

SUMMARIES OF OAT YIELDS

Table 16. 2023-24 yield summary of oat variety trials in Mississippi.							
Brand	**Variety**	**Beaumont (loam)**	**Brooksville (clay)**	**Starkville (loam)**	**Stoneville (loam)**	**Verona (clay)**	**Overall Average**
		bu/A	**bu/A**	**bu/A**	**bu/A**	**bu/A**	**bu/A**
Stratton Seed	Savage Oats	122.9	96.3	102.2	76.7	173.8	114.4
SunGrains	LA15015SWB-S50	98.3	94.0	117.6	60.2	135.8	101.2
SunGrains	LA17069SBSS-2-1	79.8	90.3	105.7	73.9	133.6	96.7
SunGrains	LA17089SBS-33-2	116.8	69.0	108.5	74.6	118.9	97.6
SunGrains	LA17129SBSS-8-1	120.0	86.4	90.4	79.2	153.9	106.0
MEAN		107.6	87.2	104.9	72.9	143.2	103.2
CV		17.0	17.0	21.0	24.0	14.0	
LSD(0.05)		29.0	NS	NS	NS	31.0	
R^2		59	53	27	23	60	
ERROR DF		12	12	12	12	12	

MSU COASTAL R&E CENTER, BEAUMONT

Table 17. Yields of five oat varieties at MSU Coastal R&E Center, Beaumont.						
Brand	**Variety**	**2024 Yield**	**2-year[1] Average**	**3-year[1] Average**	**Plant Height**	**Lodging Score**
		bu/A	**bu/A**	**bu/A**	**in.**	**(1-5)**
Stratton Seed	Savage Oats	122.9	-	-	50	4
SunGrains	LA17129SBSS-8-1	120.0	-	-	44	2
SunGrains	LA17089SBS-33-2	116.8	-	-	54	2
SunGrains	LA15015SWB-S50	98.3	-	-	50	3
SunGrains	LA17069SBSS-2-1	79.8	-	-	55	1
MEAN		107.6				
CV		17.0				
LSD(0.05)		29.0				
R^2		59				
ERROR DF		12				

[1]No 2 or 3-year average.

MAFES BLACK BELT BRANCH, BROOKSVILLE

Table 18. Yields of five oat varieties at MAFES Black Belt Branch, Brooksville.						
Brand	**Variety**	**2024 Yield**	**2-year[1] Average**	**3-year[1] Average**	**Plant Height**	**Lodging Score**
		bu/A	**bu/A**	**bu/A**	**in.**	**(1-5)**
Stratton Seed	Savage Oats	96.3	-	-	50	5
SunGrains	LA15015SWB-S50	94.0	-	-	44	1
SunGrains	LA17069SBSS-2-1	90.3	-	-	48	2
SunGrains	LA17129SBSS-8-1	86.4	-	-	39	1
SunGrains	LA17089SBS-33-2	69.0	-	-	46	1
MEAN		87.2				
CV		17.0				
LSD(0.05)		NS				
R^2		53				
ERROR DF		12				

[1]No 2 or 3-year average.

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

Table 19. Yields of five oat varieties at MAFES R.R. Foil Plant Science Research Center, Starkville.

Brand	Variety	2024 Yield	2-year[1] Average	3-year[1] Average	Plant Height	Lodging Score
		bu/A	bu/A	bu/A	in.	(1-5)
SunGrains	LA15015SWB-S50	117.6	-	-	46	1
SunGrains	LA17089SBS-33-2	108.5	-	-	57	1
SunGrains	LA17069SBSS-2-1	105.7	-	-	53	1
Stratton Seed	Savage Oats	102.2	-	-	53	4
SunGrains	LA17129SBSS-8-1	90.4	-	-	50	1
MEAN		104.9				
CV		21.0				
LSD(0.05)		NS				
R^2		27				
ERROR DF		12				

[1]No 2 or 3-year average.

MAFES DELTA BRANCH EXPERIMENT STATION, STONEVILLE

Table 20. Yields of five oat varieties at MAFES Delta Branch Experiment Station, Stoneville.

Brand	Variety	2024 Yield	2-year[1] Average	3-year[1] Average	Plant Height	Lodging Score
		bu/A	bu/A	bu/A	in.	(1-5)
SunGrains	LA17129SBSS-8-1	79.2	-	-	40	2
Stratton Seed	Savage Oats	76.7	-	-	50	4
SunGrains	LA17089SBS-33-2	74.6	-	-	48	1
SunGrains	LA17069SBSS-2-1	73.9	-	-	38	2
SunGrains	LA15015SWB-S50	60.2	-	-	50	2
MEAN		72.9				
CV		24.0				
LSD(0.05)		NS				
R^2		23				
ERROR DF		12				

[1]No 2 or 3-year average.

MAFES NORTHEAST MS BRANCH, VERONA

Table 21. Yields of five oat varieties at MAFES Northeast MS Branch, Verona.						
Brand	Variety	2024 Yield	2-year[1] Average	3-year[1] Average	Plant Height	Lodging Score
		bu/A	bu/A	bu/A	in.	(1-5)
Stratton Seed	Savage Oats	173.8	-	-	51	5
SunGrains	LA17129SBSS-8-1	153.9	-	-	44	1
SunGrains	LA15015SWB-S50	135.8	-	-	46	1
SunGrains	LA17069SBSS-2-1	133.6	-	-	50	1
SunGrains	LA17089SBS-33-2	118.9	-	-	47	1
MEAN						
CV		14.0				
LSD(0.05)		31.0				
R^2		60				
ERROR DF		12				

[1]No 2 or 3-year average.

OAT COMPANIES AND BRANDS/VARIETIES

Table 22. Companies supplying oat brands/varieties entered.			
Company	Brand	Variety	Seed Treatment
SunGrains	SunGrains	LA15015SWB-S50	-
	SunGrains	LA17089SBS-33-2	-
	SunGrains	LA17069SBSS-2-1	-
	SunGrains	LA17129SBSS-8-1	-
Stratton Seed	Stratton Seed	Savage Oats	-

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Scott Willard, Director

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