



Mississippi
WHEAT
& **OAT**

VARIETY TRIALS, 2013



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Mississippi Wheat and Oat Variety Trials, 2013

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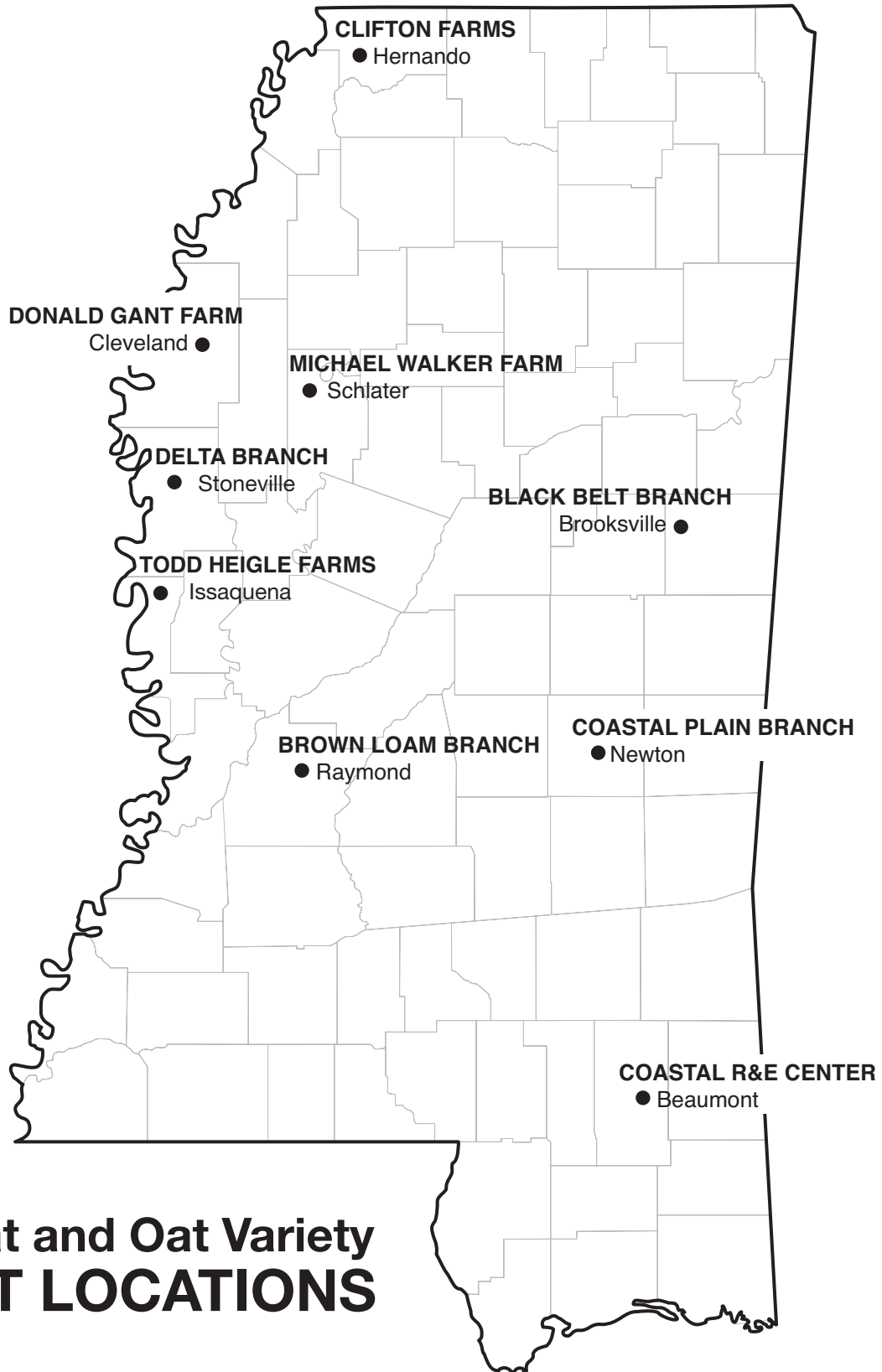
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Wheat and Oat Variety TEST LOCATIONS

Mississippi Wheat and Oat Variety Trials, 2013

INTRODUCTION

Small grains are grown throughout Mississippi. Wheat is the primary crop, followed by oats. Wheat variety trials were conducted at nine locations, while oat trials were conducted at four locations in Mississippi in 2012–2013. 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 pur-

poses. 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:
<http://msucares.com/pubs/infosheets/is1763.pdf>

Plant Variety Protection Act
http://151.121.3.150/science/PVPO/PVPO_Act/whole2.pdf

Plant Variety Protection Office PVP Database
<http://www.ars-grin.gov/cgi-bin/npgs/html/pvplist.pl>

United States Patent Database
<http://www.uspto.gov/patft/index.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:

Variety	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.

WEATHER SUMMARY BY LOCATION

Beaumont — Wheat was planted into a fresh, conventionally tilled seedbed. Soil moisture was marginal at planting, but a light rain a few days after planting resulted in quick germination. Growing conditions throughout the winter and spring were mild. Harvest was completed in a timely manner.

Brookville — Plots were planted into a conventionally tilled seedbed. Conditions were dry at planting, but rain soon after planting resulted in good germination and uniform stands of all plots. Spring weather conditions consisted of lower temperatures and above-average rainfall, but the soil was well drained. Harvest was timely, and good yields were observed.

Cleveland — Wheat plots were planted into a conventionally tilled seedbed. All plots quickly emerged to good stands. Weather conditions were favorable throughout most of the growing season. Harvest was completed in a timely manner without any difficulties.

Hernando — Conditions at planting were good for germination. Wheat came up and grew off well, getting adequate growth before dormancy but not so much that freeze damage was a concern. Spring green-up was delayed by weather and further delayed by a cool, wet spring. Harvest was about 10 days later than normal because of environmental conditions in the spring.

Issaquena County — The crop was planted into a fresh, conventionally tilled seedbed. Plots quickly emerged to suitable stands. The wheat never seemed to tiller adequately, and as a result, the stand appeared to be thin at the time of harvest. There was a lack of tillering in some plots that restricted overall plant growth and development. Also, lodging in some plots resulted in yields that were lower than average for this location.

Raymond — Wheat plots were planted into a conventionally tilled seedbed. Soil moisture and temperatures were very favorable for germination at planting. Plots quickly emerged to a good stand. Winter weather was mild, but the spring consisted of cool and wet conditions. Harvest was completed in a timely manner.

Schlater — Wheat was planted timely into a conventionally tilled seedbed. Light rains the week after planting resulted in uniform germination of all plots. Winter weather had no adverse effects on the crop. The plot area had excellent soil drainage, which helped remove excess water from the plots after frequent early-spring rains. At maturity, some of the earlier-maturing varieties received slight bird-feeding damage in one repetition. Harvest was timely, and excellent yields were observed.

Stoneville — All plots were planted into a conventionally tilled seedbed. The plots emerged to good stands. Late-winter and early-spring weather consisted of cool and wet conditions. The plot area appeared to drain well despite being a heavy clay soil, and no negative effects were observed due to this weather. Harvest was timely, and good yields were achieved.

Newton — The 2012–13 wheat and oat plots were planted into a fresh, conventionally tilled seedbed. Conditions were favorable for germination, and all the plots emerged quickly to good stands. Plots received significant damage from deer predation after wheat began to head until harvest. Due to extensive and severe deer damage, no yield data was reported for this location.

Table 1. Companies supplying wheat brands/varieties entered.

Company	Brand	Variety	Seed Treatment
AgriMAXX Wheat Company 7167 Highbanks Road Mascoutah, IL 62258	AgriMAXX AgriMAXX AgriMAXX AgriMAXX	413 415 Exp 1335 Exp 1340	Dividend Extreme
AgSouth Genetics P.O. Box 72246 Albany, GA 31708	AGS AGS AGS AGS AGS	2035 2060 2026 2038 240	
Armor Seed P.O. Box 9 Waldenburg, AR 72475	Armor Armor Armor Armor Armor	Ricochet Rampage ARX 1107 ARX 1206 ARX 1204	Dividend Extreme
B&S Seed Co., Inc. 1283 Hwy. 444 Duncan, MS 38740	Dixie Bell Dixie Bell Dixie Bell Dixie Bell Dixie Bell	DB 620 Exp 128 DB 412 Exp 215 Exp 7880	Dividend Extreme
Cache River Valley Seed P.O. Box 10 Cash, AR 72421	Dixie Dixie Dixie Dixie	Xtreme McAlister Kelsey DXEX13-3	Dividend Extreme
Delta Grow Seed P.O. Box 219 England, AR 72406	Delta Grow Delta Grow Delta Grow Delta Grow Delta Grow Delta Grow	DG 7300 DG 7500 DG 9700 DG 7200 DG 7000 DG 5000	Dividend Extreme
University of Georgia UGA-CAES-Griffin Campus 1109 Experiment St. Griffin, GA 30223	UGA UGA UGA	GA 04570-10E46 GA-031257-10LE34 GA-031086-10E29	None
Dyna-Gro Seed 6221 Riverside Drive, Suite One Dublin, OH 43017	Dyna-Gro Dyna-Gro	Baldwin 9171	Foothold Extra
Louisiana State University SPESS 221 M.B. Sturgis Hall Baton Rouge, LA 70803	LSU	LA03200E-2	None
Limagrain Cereal Seeds 9020 Grant Road Battle Ground, IN 47920	Limagrain Cereal Seeds Limagrain Cereal Seeds Limagrain Cereal Seeds	LCS 38686 LCS 38889 LCS 37696	Cruiser
Pioneer Hi-Bred Intl. 700 Blvd. South SW, Suite 302 Huntsville, AL 35802	Pioneer Pioneer Pioneer Pioneer Pioneer Pioneer Pioneer	26R10 25R32 26R20 26R87 26R22 26R41 26R53 XW11G	Dividend Extreme
Progeny Ag Products 1529 Hwy. 193 South Wynne, AR 72396	Progeny Progeny Progeny Progeny Progeny Progeny Progeny Progeny Progeny	P 117 P 125 P 870 P 357 P 185 P 308 PGX 12-3 PGX 12-10 PGX 12-12	

Continued.

Table 1 (continued). Companies supplying wheat brands/varieties entered.

Company	Brand	Variety	Seed Treatment
Syngenta Seeds 778 CR 680 Bay, AR 72396	Syngenta Syngenta Syngenta Syngenta	SY HARRISON CK 9553 MAGNOLIA OAKES (B030543)	Vibrance Ext
Terral Seed Inc. P.O. Box 826 Lake Providence, LA 71254	Terral Terral Terral Terral Terral Terral	LA841 TV8535 LA821 TV8848 TV8861 TV8525 LA754	Dividend Extreme
E. Virginia Ag. Res. & Ext. Center 2229 Menokin Road Warsaw, VA 22572	VA VA	Jamestown VA10W-119	Raxil MD
UniSouth Genetics Inc. 3205 C Hwy. 46 S Dickson, TN 37055	USG USG USG USG USG USG USG	USG 3555 USG 3201 USG 3251 USG 3438 USG 3120 USG 3833 USG 3523 USG 3153	Dividend Extreme

Table 2. Companies supplying oat brands/varieties entered.

Company	Brand	Variety	Seed Treatment
Louisiana State University SPESS 221 M.B. Sturgis Hall Baton Rouge, LA 70803	LSU LSU LSU	LA05006GSBS-65-S1 LA04004SBSB-7-B-S1 LA05011-30	

Table 3. 2012–13 yield summary of wheat variety trials in Mississippi.

Brand	Variety	Beau- mont	Brooks- ville	Hern- ando	Ray- mond	Hill avg.	Cleve- land	Issaquena County	Schl- ater	Stone- ville	Delta avg.	State avg.
AgriMAXX	AgriMAXX 413	53.5	84.5	57.7	76.8	68.1	65.1	81.8	94.8	79.4	80.3	74.2
AgriMAXX	AgriMAXX 415	58.9	87.9	63.2	83.1	73.3	70.6	89.2	95.0	83.8	84.6	79.0
AgriMAXX	Exp 1335	58.2	84.9	63.7	74.6	70.3	55.5	88.1	92.8	78.9	78.8	74.6
AgriMAXX	Exp 1340	59.1	82.9	62.9	71.4	69.1	67.0	84.6	89.7	81.8	80.8	74.9
AGS	AGS 2026	56.5	69.9	48.8	38.6	53.4	60.6	35.8	55.3	68.4	55.0	54.2
AGS	AGS 2035	39.9	73.5	52.5	52.2	54.5	52.2	20.6	65.0	78.3	54.0	54.3
AGS	AGS 2038	48.8	93.7	57.7	59.2	64.9	65.1	75.2	83.9	82.5	76.7	70.8
AGS	AGS 2060	42.7	72.2	52.6	63.3	57.7	45.7	63.0	93.3	84.7	71.7	64.7
AGS	AGS 2057	44.6	76.1	58.5	51.1	57.6	64.0	68.0	92.3	77.3	75.4	66.5
AGS	AGS 240	54.9	39.4	46.9	46.9	47.0	55.3	21.8	60.1	65.4	50.7	48.8
Armor	Armor ARX 1107	68.5	89.8	60.9	69.8	72.3	71.9	72.1	100.7	82.1	81.7	77.0
Armor	ARX 1204	63.1	65.4	57.5	71.9	64.5	63.9	64.7	93.0	80.2	75.4	70.0
Armor	ARX 1206	64.8	82.1	59.2	83.8	72.5	73.9	74.6	99.7	84.0	83.1	77.8
Armor	RAMPAGE	52.6	85.1	54.0	62.8	63.6	58.4	82.7	84.0	73.5	74.7	69.1
Armor	Ricochet	52.3	84.9	58.8	69.3	66.3	68.1	62.0	85.1	75.6	72.7	69.5
Delta Grow	Delta Grow 5000	58.3	62.2	40.8	46.8	52.1	59.1	59.4	62.3	69.4	62.5	57.3
Delta Grow	Delta Grow 7000	48.3	82.6	43.9	72.9	61.9	58.5	69.3	87.6	82.7	74.5	68.2
Delta Grow	Delta Grow 7200	55.0	82.5	54.5	63.1	63.8	68.3	84.5	88.2	71.7	78.2	71.0
Delta Grow	Delta Grow 7300	41.0	79.5	67.7	59.8	62.0	63.1	71.1	86.9	69.9	72.8	67.4
Delta Grow	Delta Grow 7500	52.2	79.8	68.9	68.4	67.3	72.4	76.6	90.8	74.5	78.6	73.0
Delta Grow	Delta Grow 9700	49.4	91.7	65.6	78.6	71.3	66.5	84.5	92.0	78.9	80.5	75.9
Dixie	DXEX13-3	49.8	82.3	61.4	68.1	65.4	63.7	76.2	87.7	80.4	77.0	71.2

Continued.

Table 3 (continued). 2012–13 yield summary of wheat variety trials in Mississippi.

Brand	Variety	Beau- mont	Brooks- ville	Hern- ando	Ray- mond	Hill avg.	Cleve- land	Issaquena County	Schl- ater	Stone- ville	Delta avg.	State avg.
		<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>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
Dixie	Kelsey	53.9	80.8	54.0	74.3	65.7	69.9	78.6	98.9	85.1	83.1	74.4
Dixie	McAlister	46.2	89.7	65.4	90.3	72.9	70.8	64.8	90.7	71.6	74.5	73.7
Dixie	Xtreme	62.7	84.7	64.9	68.1	70.1	65.5	83.5	94.5	81.5	81.2	75.7
Dixie Bell	Dixie Bell 620	59.2	90.2	66.6	66.6	70.6	71.4	75.8	92.8	66.9	76.7	73.7
Dixie Bell	Dixie Bell DB 412	52.2	85.2	59.0	69.4	66.5	65.2	55.6	82.7	83.6	71.8	69.1
Dixie Bell	Exp 128	50.9	76.2	54.7	60.9	60.7	57.4	70.1	84.2	72.5	71.0	65.9
Dixie Bell	Exp 215	59.4	80.5	60.5	61.4	65.4	66.0	75.2	90.4	80.3	78.0	71.7
Dixie Bell	Exp 7880	51.2	79.9	49.4	82.0	65.6	66.5	77.7	81.9	75.0	75.3	70.5
Dyna-Gro	Baldwin	48.6	86.6	72.8	53.0	65.3	52.8	79.8	99.5	78.4	77.6	71.5
Dyna-Gro	Dyna-Gro 9171	52.5	83.5	64.4	78.4	69.7	67.0	76.5	99.7	80.8	81.0	75.3
Limagrain												
Cereal Seeds	LCS 37696	44.5	68.2	48.8	59.4	55.2	63.9	71.1	72.9	65.4	68.3	61.8
Limagrain												
Cereal Seeds	LCS 38686	54.1	91.7	67.8	69.1	70.7	55.1	65.9	78.0	74.2	68.3	69.5
Limagrain												
Cereal Seeds	LCS 38889	30.1	74.3	51.0	56.4	52.9	57.8	71.9	71.8	72.6	68.5	60.7
Pioneer	25R32	45.8	68.0	48.7	52.0	53.6	62.1	73.2	78.7	70.8	71.2	62.4
Pioneer	26R41	54.0	74.8	50.4	76.7	64.0	72.1	83.7	93.6	80.0	82.3	73.2
Pioneer	26R53	61.2	88.0	60.5	78.9	72.2	74.6	75.1	96.0	79.1	81.2	76.7
Pioneer	Pioneer 26R87	65.8	80.5	54.8	61.4	65.6	62.7	64.8	84.1	76.0	71.9	68.8
Pioneer	Pioneer 26R10	56.5	85.5	69.4	80.6	73.0	62.9	71.4	93.4	74.9	75.7	74.3
Pioneer	Pioneer 26R20	55.6	71.9	50.9	61.6	60.0	66.4	78.5	84.6	84.7	78.5	69.3
Pioneer	Pioneer 26R22	63.1	75.7	56.9	76.6	68.1	65.9	77.6	87.6	69.4	75.1	71.6
Pioneer	XW11G	50.7	76.0	58.9	53.2	59.7	68.2	74.3	84.3	76.6	75.9	67.8
Progeny	P117	47.2	56.9	52.7	45.3	50.5	51.7	57.7	60.7	62.5	58.2	54.3
Progeny	P125	61.2	64.3	50.9	52.2	57.1	61.6	40.0	59.4	70.5	57.8	57.5
Progeny	P185	57.4	77.3	49.5	59.3	60.9	60.8	59.0	82.1	73.1	68.7	64.8
Progeny	P308	55.7	80.8	61.9	73.2	67.9	70.8	65.5	87.3	80.1	75.9	71.9
Progeny	P357	42.5	84.0	56.2	57.2	60.0	63.9	66.3	92.5	76.7	74.8	67.4
Progeny	P870	48.1	81.3	58.1	77.8	66.3	71.2	76.0	96.6	85.3	82.3	74.3
Progeny	PGX 12-10	54.5	83.5	63.2	72.2	68.3	70.6	64.6	91.6	77.6	76.1	72.2
Progeny	PGX 12-12	65.2	77.0	53.1	57.6	63.2	60.5	74.0	81.2	77.7	73.3	68.3
Progeny	PGX 12-3	45.0	72.8	51.9	67.0	59.2	66.7	58.5	87.4	72.2	71.2	65.2
Univ. of GA	GA-031086-10E29	58.9	72.1	53.7	52.2	59.2	54.7	54.4	72.1	70.3	62.9	61.0
Univ. of GA	GA-031257-10LE34	43.6	76.0	56.7	67.6	61.0	52.2	62.9	74.4	73.7	65.8	63.4
Univ. of GA	GA-04570-10E46	38.8	42.2	48.0	48.8	44.4	65.6	55.7	57.4	78.8	64.4	54.4
LSU	LA 03200E-2	38.6	68.2	52.8	55.2	53.7	63.4	28.1	72.7	78.7	60.7	57.2
VA Tech	VA 10W-119	61.8	65.7	55.5	56.6	59.9	51.8	49.8	69.0	61.2	58.0	58.9
VA Tech	VA Jamestown	42.1	54.4	47.9	48.2	48.2	56.6	45.3	78.7	70.9	62.9	55.5
Syngenta	9553	57.2	71.1	38.5	60.9	57.0	57.9	65.1	70.4	76.9	67.6	62.3
Syngenta	MAGNOLIA	64.0	64.6	56.7	64.6	62.5	61.6	69.9	81.0	78.2	72.6	67.6
Syngenta	Oakes	45.2	80.2	43.7	70.7	60.0	55.5	70.9	82.2	71.6	70.1	65.0
Syngenta	SY Harrison	32.5	80.0	64.5	64.8	60.5	71.7	66.9	91.8	74.8	76.3	68.4
Terral	Terral LA821	37.5	50.2	47.1	38.2	43.2	62.7	42.9	71.8	61.6	59.8	51.5
Terral	Terral LA841	49.8	62.5	53.2	40.6	51.5	62.9	73.6	77.2	66.1	69.9	60.7
Terral	Terral TV 8861	73.0	84.1	60.0	61.7	69.7	67.7	71.2	91.3	76.2	76.6	73.2
Terral	TV 8525	58.6	76.5	58.3	78.7	68.0	70.7	66.2	86.5	76.3	74.9	71.5
Terral	TV 8535	48.0	67.1	52.9	57.0	56.3	71.0	82.8	96.3	77.2	81.8	69.1
Terral	TV 8848	66.8	78.4	57.2	66.8	67.3	71.1	87.0	93.5	81.1	83.2	75.3
Terral	Terral LA754	42.2	56.4	54.6	54.2	51.8	61.9	16.5	74.9	73.6	56.8	54.3
USG	USG 3120	26.4	37.1	53.4	53.0	42.5	57.4	20.4	58.6	77.2	53.4	47.9
USG	USG 3201	56.6	83.3	59.4	80.9	70.1	71.5	69.7	98.4	83.4	80.7	75.4
USG	USG 3251	52.9	80.4	64.9	63.9	65.6	66.2	64.9	95.8	80.2	76.8	71.2
USG	USG 3438	51.6	82.7	50.7	74.5	64.9	74.5	65.7	93.4	84.5	79.6	72.2
USG	USG 3523	58.5	81.1	56.7	70.2	66.6	70.8	76.8	95.4	82.1	81.3	74.0
USG	USG 3555	58.9	79.8	46.0	67.7	63.1	63.3	73.3	82.1	81.3	75.0	69.1
USG	USG 3833	60.5	73.4	57.0	85.1	69.0	67.7	72.3	94.2	83.4	79.4	74.2
Mean		52.5	76	56.2	64.6		64	66.4	84.5	76.3		
LSD .10		12.8	10.6	9.8	13.5		6.9	11.8	8.1	7.5		
Error df		225	225	225	150		225	225	225	225		
CV (%)		21	12	14.9	15.7		8	15.2	8.4	8.4		
R-square (%)		51.5	72.9	48.8	68.3		71.1	79.7	78.5	60		

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

Brand	Variety	Brooks-ville	Ray-mond	Hill avg.	Cleve-land	Issaquena County	Schlater	Stone-ville	Delta avg.	State avg.
AgriMAXX	AgriMAXX 413	<i>bu/A</i> 76.2	<i>bu/A</i> 64.8	<i>bu/A</i> 70.5	<i>bu/A</i> 61.2	<i>bu/A</i> 85.5	<i>bu/A</i> 74.5	<i>bu/A</i> 71.1	<i>bu/A</i> 73.1	<i>bu/A</i> 72.2
AgriMAXX	AgriMAXX 415	76.8	65.6	71.2	63.2	89.0	78.1	70.4	75.2	73.8
AGS	AGS 2026	60.9	41.2	51.0	51.8	50.1	48.4	56.3	51.7	51.4
AGS	AGS 2035	73.7	50.3	62.0	51.4	50.6	57.4	69.9	57.3	58.9
AGS	AGS 2060	67.4	59.6	63.5	48.9	70.2	72.7	74.5	66.6	65.5
AGS	AGS 240	52.9	47.7	50.3	51.7	42.5	53.3	56.6	51.0	50.8
Armor	Armor ARX 1107	76.0	56.3	66.2	61.7	75.7	75.8	73.2	71.6	69.8
Armor	Armor ARX 1175	78.4	52.8	65.6	50.2	78.4	61.3	62.9	63.2	64.0
Armor	Ricochet	73.4	58.0	65.7	62.4	73.0	68.3	62.3	66.5	66.3
Delta Grow	Delta Grow 7300	73.5	41.2	57.4	49.0	71.2	64.0	57.5	60.4	59.4
Delta Grow	Delta Grow 7500	68.7	61.8	65.3	65.8	79.8	71.1	59.8	69.1	67.8
Dixie	Kelsey	73.2	56.9	65.0	65.3	83.3	82.4	72.3	75.8	72.2
Dixie	McAlister	75.4	74.0	74.7	60.2	75.8	70.8	65.8	68.1	70.3
Dixie Bell	Dixie Bell 620	80.1	61.1	70.6	61.8	82.4	65.2	61.5	67.7	68.7
Dixie Bell	Dixie Bell DB 412	79.1	55.6	67.3	57.9	68.8	65.0	66.2	64.5	65.4
Dyna-Gro	Baldwin	79.7	60.4	70.1	50.4	79.9	75.9	70.5	69.2	69.5
Dyna-Gro	Dyna-Gro 9171	74.5	71.7	73.1	64.3	83.1	77.9	67.7	73.2	73.2
Pioneer	Pioneer 26R87	77.7	58.5	68.1	66.6	75.6	66.8	70.8	69.9	69.3
Pioneer	Pioneer 26R10	76.4	58.4	67.4	56.4	77.3	71.1	67.5	68.1	67.8
Pioneer	Pioneer 26R20	70.0	50.0	60.0	57.4	81.7	73.1	64.7	69.2	66.2
Pioneer	Pioneer 26R22	71.6	60.4	66.0	61.4	78.5	71.8	62.5	68.6	67.7
Progeny	P308	78.9	63.9	71.4	56.4	85.2	72.8	66.8	70.3	70.7
Progeny	Progeny 117	60.9	40.0	50.4	49.6	61.6	45.3	59.5	54.0	52.8
Progeny	Progeny 125	67.3	52.0	59.7	52.9	52.0	47.4	62.3	53.6	55.6
Progeny	Progeny P185	67.5	52.1	59.8	55.5	64.6	59.4	62.0	60.4	60.2
Progeny	Progeny P357	74.7	43.9	59.3	46.5	71.1	63.7	59.5	60.2	59.9
Progeny	Progeny P870	74.3	69.3	71.8	64.9	81.6	77.9	70.4	73.7	73.1
Public	VA Jamestown	53.1	47.4	50.3	53.7	60.9	63.4	64.2	60.6	57.1
Syngenta	Coker 9553	69.5	58.7	64.1	56.3	72.0	61.8	65.6	63.9	64.0
Syngenta	MAGNOLIA	68.5	68.9	68.7	53.6	70.6	61.0	66.8	63.0	64.9
Syngenta	Oakes	73.2	58.6	65.9	53.3	74.4	67.8	64.5	65.0	65.3
Syngenta	Syngenta B050154	78.2	51.5	64.9	55.9	79.1	71.2	65.6	67.9	66.9
Terral	Terral LA821	56.9	39.8	48.3	55.9	53.8	55.7	54.5	55.0	52.8
Terral	Terral LA841	67.8	40.2	54.0	56.5	67.9	60.9	62.6	62.0	59.3
Terral	Terral TV 8861	76.2	56.5	66.4	59.5	78.4	71.6	67.9	69.3	68.3
Terral	TV 8525	74.4	71.5	73.0	62.8	72.1	69.7	66.6	67.8	69.5
Terral	TV 8535	71.2	56.7	64.0	60.7	85.1	77.2	69.2	73.1	70.0
Terral	TV 8848	72.1	58.6	65.4	58.6	85.3	70.4	66.8	70.3	68.6
Terral	Terral LA754	64.9	56.3	60.6	55.6	41.5	63.2	63.9	56.1	57.6
USG	USG 3120	55.4	59.4	57.4	56.6	50.7	57.5	71.2	59.0	58.5
USG	USG 3201	80.0	70.3	75.1	67.5	81.4	82.5	74.4	76.5	76.0
USG	USG 3251	74.9	53.9	64.4	62.0	76.2	77.1	71.5	71.7	69.3
USG	USG 3438	75.6	61.5	68.5	66.1	75.6	72.4	74.7	72.2	71.0
USG	USG 3555	71.8	65.3	68.6	60.2	77.5	60.3	68.5	66.6	67.3
Mean		71.4	56.9	64.2	57.7	72.1	67.2	66.0	65.7	65.2

Table 5. Three-year summary of wheat variety trials in Mississippi.

Brand	Variety	Brooks-ville	Ray-mond	Hill avg.	Cleve-land	Issaquena County	Schlater	Stone-ville	Delta avg.	State avg.
AgriMAXX	AgriMAXX 413	<i>bu/A</i> 74.8	<i>bu/A</i> 77.1	<i>bu/A</i> 75.9	<i>bu/A</i> 64.2	<i>bu/A</i> 92.0	<i>bu/A</i> 79.7	<i>bu/A</i> 75.2	<i>bu/A</i> 77.8	<i>bu/A</i> 77.2
AgriMAXX	AgriMAXX 415	76.1	75.8	75.9	66.8	93.0	81.5	74.8	79.0	78.0
AGS	AGS 2026	59.0	57.2	58.1	54.1	53.2	51.6	63.0	55.5	56.4
AGS	AGS 2035	63.6	64.4	64.0	59.1	61.0	60.4	75.5	64.0	64.0
AGS	AGS 2060	55.2	66.9	61.1	58.8	73.7	77.2	75.7	71.4	67.9
Armor	Armor ARX 9304	64.6	69.8	67.2	63.0	83.7	69.6	70.6	71.7	70.2
Delta Grow	Delta Grow 7500	69.7	70.5	70.1	68.4	86.0	74.8	67.0	74.0	72.7
Dixie	Kelsey	71.7	68.5	70.1	69.1	88.6	83.6	73.6	78.7	75.9
Dixie	McAlister	74.2	81.4	77.8	64.1	84.1	75.8	74.6	74.7	75.7

Continued.

Table 5 (continued). Three-year summary of wheat variety trials in Mississippi.

Brand	Variety	Brooks-ville	Ray-mond	Hill avg.	Cleve-land	Issaquena County	Schlater	Stone-ville	Delta avg.	State avg.
Dixie Bell	Dixie Bell 620	bu/A 70.9	bu/A 70.7	bu/A 70.8	bu/A 63.2	bu/A 91.1	bu/A 67.5	bu/A 68.8	bu/A 72.7	bu/A 72.1
Dyna-Gro	Baldwin	60.4	69.8	65.1	64.6	89.6	77.8	74.5	76.6	72.8
Dyna-Gro	Dyna-Gro 9171	74.3	81.3	77.8	67.7	88.5	79.5	72.0	76.9	77.2
Pioneer	26R20	62.5	62.7	62.6	54.2	82.7	73.6	70.9	70.4	67.8
Pioneer	26R87	69.2	68.1	68.7	63.8	75.0	74.3	76.4	72.4	71.1
Progeny	Progeny 117	60.7	53.7	57.2	55.9	66.2	54.7	64.4	60.3	59.3
Progeny	Progeny 125	62.9	64.8	63.9	55.4	59.8	52.5	65.4	58.3	60.1
Public	VA Jamestown	59.3	59.7	59.5	53.9	75.8	70.2	69.0	67.2	64.6
Syngenta	MAGNOLIA	66.1	73.6	69.8	57.7	75.7	66.3	68.9	67.2	68.0
Syngenta	Oakes	58.0	61.8	59.9	57.5	78.7	69.1	63.4	67.2	64.8
Terral	Terral LA821	59.8	52.5	56.2	54.8	54.7	56.3	63.4	57.3	56.9
Terral	Terral LA841	63.6	52.2	57.9	58.6	68.7	61.1	66.1	63.6	61.7
Terral	Terral TVX8861	68.0	68.3	68.1	61.9	83.1	78.0	75.3	74.6	72.4
Terral	TVX8525	70.9	77.8	74.3	66.0	81.4	74.2	72.4	73.5	73.8
Terral	TVX8535	67.9	65.2	66.5	64.7	87.8	80.6	74.0	76.8	73.4
Terral	TVX8848	74.0	72.6	73.3	63.3	86.5	75.7	73.8	74.8	74.3
Terral	LA754	67.9	70.5	69.2	56.4	60.4	66.0	68.3	62.8	64.9
USG	USG 3120	59.8	71.9	65.8	60.1	64.3	64.4	77.6	66.6	66.3
USG	USG 3201	71.3	76.7	74.0	64.7	85.3	87.2	77.4	78.6	77.1
USG	USG 3251	73.8	68.1	70.9	63.3	85.4	78.2	73.5	75.1	73.7
USG	USG 3438	71.4	72.5	72.0	59.7	82.6	80.2	78.8	75.3	74.2
USG	USG 3555	65.0	71.9	68.5	58.1	86.8	63.2	68.7	69.2	69.0
Mean		64.6	66.2	65.4	59.2	75.8	68.9	69.2	68.3	67.3

Table 6. Yields of 76 wheat varieties at MAFES Black Belt Branch, Brooksville (Brooksville Silty Clay Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
AGS	AGS 2038	bu/A 93.5	bu/A —	bu/A —	% 13.3	g/1000 43	lb/bu 58	4/20	1	in 44
Limagrain										
Cereal Seeds	LCS 38686	92.4	—	—	14.3	41	58	4/23	2	42
Delta Grow	Delta Grow 9700	92.3	—	—	14.2	47	56	4/25	1	39
Dixie Bell	Dixie Bell 620	90.5	80.1	70.9	13.9	43	56	4/26	1	31
Armor	Armor ARX 1107	89.8	76.0	—	13.5	40	55	4/25	1	32
Dixie	McAlister	89.5	75.4	74.2	13.3	40	55	4/24	1	34
Pioneer	26R53	88.8	—	—	14.4	42	57	4/24	1	31
AgriMAXX	AgriMAXX 415	88.0	76.8	76.1	13.6	43	58	4/23	1	36
Dyna-Gro	Baldwin	86.6	79.7	60.4	13.5	47	58	4/20	1	44
Pioneer	Pioneer 26R10	86.5	76.4	—	14.6	46	57	4/26	1	35
Dixie Bell	Dixie Bell DB 412	86.2	79.1	—	14.6	44	56	4/25	1	37
Armor	RAMPAGE	85.8	78.4	—	14.3	38	55	4/25	1	42
Armor	Ricochet	85.3	73.4	64.6	13.9	37	55	4/25	1	34
Dixie	Xtreme	85.0	—	—	13.8	43	54	4/26	2	39
Progeny	PGX 12-10	84.7	—	—	14.9	47	54	4/23	1	33
Progeny	P357	84.5	74.7	—	14.1	42	55	4/26	1	39
Terral	Terral TV 8861	84.4	76.2	68.0	13.9	41	56	4/24	1	33
AgriMAXX	Exp 1335	84.4	—	—	12.9	41	57	4/23	1	35
AgriMAXX	AgriMAXX 413	83.7	76.2	74.8	12.5	39	55	4/23	1	33
USG	USG 3201	83.7	80.0	71.3	14.0	44	58	4/24	1	37
Delta Grow	Delta Grow 7000	83.2	—	—	14.2	41	58	4/27	1	38
Dyna-Gro	Dyna-Gro 9171	83.2	74.5	74.3	13.1	34	55	4/26	1	35
AgriMAXX	Exp 1340	83.1	—	—	13.8	43	57	4/25	1	36
Armor	ARX 1206	82.8	—	—	14.4	45	54	4/26	1	32
USG	USG 3438	82.8	75.6	71.4	13.6	38	56	4/24	1	32
Delta Grow	Delta Grow 7200	82.8	—	—	13.8	44	57	4/23	1	35
Dixie	DXEX13-3	82.7	—	—	13.9	43	59	4/30	1	40
Progeny	P870	81.8	74.3	—	14.1	39	55	4/21	1	32
USG	USG 3523	81.8	—	—	14.3	43	56	4/24	1	38
Progeny	P308	81.7	78.9	—	14.6	42	58	4/23	1	34

Continued.

Table 6 (cont.). Yields of 76 wheat varieties at MAFES Black Belt Branch, Brooksville (Brooksville Silty Clay Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>
Pioneer	Pioneer 26R87	81.3	77.7	69.2	14.4	50	60	4/14	1	34
USG	USG 3251	81.0	74.9	73.8	14.2	44	58	4/25	1	37
Dixie Bell	Exp 215	80.9	—	—	13.9	43	51	4/24	1	35
Dixie	Kelsey	80.8	73.2	71.7	13.5	45	54	4/26	1	37
Syngenta	Oakes	80.4	73.2	58.0	13.7	39	59	4/24	1	37
Syngenta	SY Harrison	80.3	78.2	—	13.8	43	54	4/24	1	39
Dixie Bell	Exp 7880	80.0	—	—	13.6	42	58	4/21	1	43
Delta Grow	Delta Grow 7500	80.0	68.7	69.7	13.7	43	56	4/25	1	33
USG	USG 3555	79.9	71.8	65.0	13.6	43	57	4/20	1	32
Delta Grow	Delta Grow 7300	79.2	73.5	—	13.2	45	55	4/26	1	31
Terral	TV 8848	79.0	72.1	74.0	14.2	42	57	4/26	1	37
Progeny	PGX 12-12	77.9	—	—	14.6	42	57	4/19	1	40
Progeny	P185	77.2	67.5	—	13.3	39	57	4/22	1	45
Terral	TV 8525	77.0	74.4	70.9	14.1	41	58	4/23	1	35
Dixie Bell	Exp 128	76.6	—	—	14.0	39	58	4/27	1	36
AGS	AGS SR10705	76.4	—	—	13.9	40	58	4/30	1	34
Pioneer	XW11G	76.4	—	—	13.9	40	58	4/28	1	37
Public	GA-031257-10LE34	76.4	—	—	14.0	39	59	4/17	1	34
Limagrain										
Cereal Seeds	LCS 38889	75.9	—	—	15.7	42	59	4/30	2	43
Pioneer	Pioneer 26R22	75.7	71.6	—	13.5	42	58	4/25	1	35
Pioneer	26R41	75.6	—	—	14.6	43	57	4/25	1	35
USG	USG 3833	73.7	—	—	14.0	40	53	4/24	1	38
Progeny	PGX 12-3	73.6	—	—	14.6	44	54	4/25	1	37
AGS	AGS 2035	73.3	73.7	63.6	13.3	48	60	4/18	1	39
Public	GA-031086-10E29	72.5	—	—	14.1	40	56	4/20	1	34
Pioneer	Pioneer 26R20	72.4	70.0	62.5	14.2	42	58	4/25	1	37
AGS	AGS 2060	72.0	67.4	55.2	13.2	45	59	4/12	1	37
Syngenta	9553	71.2	69.5	—	13.6	42	59	4/17	1	37
AGS	AGS 2026	69.6	60.9	59.0	13.1	38	52	4/18	1	33
Limagrain										
Cereal Seeds	LCS 37696	69.2	—	—	14.9	38	58	4/22	3	46
Pioneer	25R32	69.1	—	—	15.1	39	57	4/28	1	39
Public	LA 03200E-2	68.1	—	—	13.4	47	58	4/15	1	33
Terral	TV 8535	67.3	71.2	67.9	13.7	38	56	4/23	1	33
Armor	ARX 1204	65.8	—	—	14.2	40	57	4/27	1	34
Public	VA 10W-119	65.5	—	—	13.2	39	56	4/13	1	36
Syngenta	MAGNOLIA	64.4	68.5	66.1	13.3	43	57	4/18	1	40
Progeny	P125	64.2	67.3	62.9	13.3	35	55	4/13	1	37
Delta Grow	Delta Grow 5000	62.2	—	—	13.5	37	56	4/18	1	32
Terral	Terral LA841	61.9	67.8	63.6	12.6	40	56	4/13	1	37
Progeny	P117	57.0	60.9	60.7	13.6	40	57	4/11	1	34
Terral	LA754	56.0	64.9	67.9	12.9	58	57	4/14	1	35
Public	VA Jamestown	54.3	53.1	59.3	13.2	39	59	4/10	1	33
Terral	Terral LA821	50.1	56.9	59.8	13.4	37	56	4/8	1	36
Public	GA-04570-10E46	42.4	—	—	14.1	46	58	4/9	1	33
AGS	240	39.1	52.9	—	12.9	41	56	4/14	1	34
USG	USG 3120	37.0	55.4	59.8	13.3	45	57	4/7	1	37
Mean		76.2								
LSD .1		10.6								
Error df		225								
CV		12								
R-square		73.2								
Planting date: October 31		Harvest date: June 11			Soil type: Brooksville Silty Clay					
Soil pH: 6.3		Soil fertility: (low, medium, high) P=M K=M			Previous crop: Soybeans					
Fertilizer added: 13-13-13 preplant @ 300 lb/A; N @ 42 lb/A on February 25 (32% N-Sol) and N @ 80 lb/A on March 18 (32% N-Sol)										

Table 7. Yields of 76 wheat varieties at Donald Gant Farms, Cleveland (Brittain Silt Loam Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>
Pioneer	26R53	74.6	—	—	13.0	36	59	4/23	1	34
USG	USG 3438	74.5	66.1	59.7	12.7	35	53	4/22	1	38
Armor	ARX 1206	73.9	—	—	13.1	40	58	4/22	1	36
Delta Grow	Delta Grow 7500	72.4	65.8	68.4	13.5	39	56	4/25	1	36
Pioneer	26R41	72.1	—	—	13.1	40	58	4/23	1	37
Armor	Armor ARX 1107	71.9	61.7	—	12.6	36	56	4/25	1	35
Syngenta	SY Harrison	71.7	55.9	—	13.1	38	56	5/25	1	39
USG	USG 3201	71.5	67.5	64.7	13.3	37	59	4/22	1	35
Dixie Bell	Dixie Bell 620	71.4	61.8	63.2	12.8	39	56	4/22	1	40
Progeny	P870	71.2	64.9	—	12.9	37	56	4/22	1	40
Terral	TV 8848	71.1	58.6	63.3	13.2	37	58	4/24	1	39
Terral	TV 8535	71.0	60.7	64.7	12.5	36	57	4/25	1	35
USG	USG 3523	70.8	—	—	13.1	37	59	4/25	1	40
Dixie	McAlister	70.8	60.2	64.1	12.8	36	57	4/22	1	36
Progeny	P308	70.8	56.4	—	13.5	37	54	4/22	1	38
Terral	TV 8525	70.7	62.8	66.0	13.1	38	58	4/22	1	38
Progeny	PGX 12-10	70.6	—	—	13.3	38	55	4/22	1	34
AgriMAXX	AgriMAXX 415	70.6	63.2	66.8	12.8	36	55	4/25	1	36
Dixie	Kelsey	69.9	65.3	69.1	13.0	36	59	4/22	1	37
Delta Grow	Delta Grow 7200	68.3	—	—	13.0	37	56	4/25	1	38
Pioneer	XW11G	68.2	—	—	13.5	39	59	4/22	1	35
Armor	Ricochet	68.1	62.4	63.0	13.3	35	57	4/25	1	33
Terral	Terral TV 8861	67.7	59.5	61.9	13.2	43	58	4/25	1	33
USG	USG 3833	67.7	—	—	13.0	39	59	5/2	1	38
AgriMAXX	Exp 1340	67.0	—	—	13.2	38	57	4/25	1	40
Dyna-Gro	Dyna-Gro 9171	67.0	64.3	67.7	12.7	37	57	4/25	1	36
Progeny	PGX 12-3	66.7	—	—	13.3	38	56	4/25	1	37
Dixie Bell	Exp 7880	66.5	—	—	13.1	38	59	4/22	1	42
Delta Grow	Delta Grow 9700	66.5	—	—	13.1	40	57	4/22	1	41
Pioneer	Pioneer 26R20	66.4	57.4	54.2	12.8	41	59	4/25	1	40
USG	USG 3251	66.2	62.0	63.3	13.2	40	57	4/25	1	43
Dixie Bell	Exp 215	66.0	—	—	13.1	35	57	4/24	1	41
Pioneer	Pioneer 26R22	65.9	61.4	—	13.2	39	59	4/22	1	35
Public	GA-04570-10E46	65.6	—	—	13.0	37	57	4/15	1	35
Dixie	Xtreme	65.5	—	—	13.0	38	57	4/25	1	42
Dixie Bell	Dixie Bell DB 412	65.2	57.9	—	13.4	40	57	4/25	1	39
AGS	AGS 2038	65.1	—	—	13.1	42	58	4/15	1	43
AgriMAXX	AgriMAXX 413	65.1	61.2	64.2	13.1	38	56	4/25	1	37
AGS	AGS SR10705	64.0	—	—	12.9	39	56	5/2	1	40
Limagrain										
Cereal Seeds	LCS 37696	63.9	—	—	13.4	42	59	4/25	1	39
Armor	ARX 1204	63.9	—	—	13.1	40	57	5/2	1	38
Progeny	P357	63.9	46.5	—	13.1	37	54	4/25	1	42
Dixie	DXEX13-3	63.7	—	—	12.8	38	58	4/25	1	41
Public	LA 03200E-2	63.4	—	—	13.3	37	58	4/17	1	36
USG	USG 3555	63.3	60.2	58.1	13.0	36	57	4/18	1	32
Delta Grow	Delta Grow 7300	63.1	49.0	—	13.2	36	54	4/25	1	36
Pioneer	Pioneer 26R10	62.9	56.4	—	13.2	38	56	4/25	1	37
Terral	Terral LA841	62.9	56.5	58.6	12.9	37	56	4/15	1	34
Terral	Terral LA821	62.7	55.9	54.8	13.0	37	57	4/9	1	32
Pioneer	Pioneer 26R87	62.7	66.6	63.8	13.5	40	58	4/17	1	35
Pioneer	25R32	62.1	—	—	13.4	38	57	4/25	1	38
Terral	LA754	61.9	55.6	56.4	13.2	42	56	4/15	1	39
Progeny	P125	61.6	52.9	55.4	12.8	38	54	4/10	1	39
Syngenta	MAGNOLIA	61.6	53.6	57.7	12.8	36	54	4/15	1	39
Progeny	P185	60.8	55.5	—	13.3	37	54	4/22	1	36
AGS	AGS 2026	60.6	51.8	54.1	13.2	39	57	4/9	1	36
Progeny	PGX 12-12	60.5	—	—	12.8	38	55	4/15	1	37
Delta Grow	Delta Grow 5000	59.1	—	—	13.2	36	53	4/15	1	33
Delta Grow	Delta Grow 7000	58.5	—	—	13.2	36	58	5/2	1	34
Armor	RAMPAGE	58.4	50.2	—	12.8	36	56	4/22	1	39
Syngenta	9553	57.9	56.3	—	13.1	40	57	4/15	1	39
Limagrain										
Cereal Seeds	LCS 38889	57.8	—	—	12.4	39	59	5/2	1	38
Dixie Bell	Exp 128	57.4	—	—	12.9	37	59	5/2	1	38

Continued.

Table 7 (cont.). Yields of 76 wheat varieties at Donald Gant Farms, Cleveland (Brittain Silt Loam Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	%	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>
USG	USG 3120	57.4	56.6	60.1	13.2	37	57	4/9	1	38
Public	VA Jamestown	56.6	53.7	53.9	13.0	39	58	4/10	1	35
Syngenta	Oakes	55.5	53.3	57.5	13.3	36	58	5/24	1	38
AgriMAXX	Exp 1335	55.5	—	—	12.5	38	54	4/25	1	36
AGS	AGS 240	55.3	51.7	—	13.3	39	58	4/6	1	35
Limagrain										
Cereal Seeds	LCS 38686	55.1	—	—	13.3	35	54	4/25	1	42
Public	GA-031086-10E29	54.7	—	—	12.7	35	55	4/15	1	29
Dyna-Gro	Baldwin	52.8	50.4	64.6	12.5	40	56	4/22	1	44
Public	GA-031257-10LE34	52.2	—	—	12.8	36	54	4/15	1	32
AGS	AGS 2035	52.2	51.4	59.1	12.6	39	56	4/15	1	39
Public	VA 10W-119	51.8	—	—	13.0	39	56	4/19	1	40
Progeny	P117	51.7	49.6	55.9	13.2	39	55	4/15	1	40
AGS	AGS 2060	45.7	48.9	58.8	12.7	38	60	4/18	1	37
Mean		64								
LSD .1		6.9								
Error df		225								
CV		8								
R-square		71.1								
Planting date: October 20, 2012		Harvest date: May 24, 2013								
Soil fertility: pH=6.2; P=M; K=M		Previous crop: Corn								
Fertilizer added: 13-13-13 preplant @ 300 lb/A; N @ 120 lb/A (32% N-Sol)										

Table 8. Yields of 76 wheat varieties at Todd Heigle Farms, Issaquena County (Sharkey Mixed Clay Loam Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	%	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>
AgriMAXX	AgriMAXX 415	88.2	89.0	93.0	12.4	42	59	4/9	1	33
AgriMAXX	Exp 1335	87.5	—	—	12.8	39	57	4/9	1	33
Terral	TV 8848	86.8	85.3	86.5	13.2	42	57	4/9	1	31
Delta Grow	Delta Grow 7200	84.3	—	—	13.3	42	57	4/12	1	31
AgriMAXX	Exp 1340	84.1	—	—	12.9	42	57	4/9	1	34
Delta Grow	Delta Grow 9700	83.9	—	—	12.8	36	57	4/5	1	38
Pioneer	26R41	83.9	—	—	13.7	45	58	4/5	1	31
Armor	RAMPAGE	82.9	78.4	—	13.7	39	56	4/12	1	29
Dixie	Xtreme	82.8	—	—	12.7	43	57	4/19	1	31
Terral	TV 8535	82.5	85.1	87.8	13.1	37	56	4/9	1	29
AgriMAXX	AgriMAXX 413	80.7	85.5	92.0	12.1	36	57	4/12	1	31
Dyna-Gro	Baldwin	79.6	79.9	89.6	13.2	44	59	4/19	1	40
Pioneer	Pioneer 26R20	78.7	81.7	82.7	13.7	40	59	4/12	1	33
Dixie Bell	Exp 7880	78.0	—	—	13.9	36	58	4/9	1	35
Dixie	Kelsey	77.9	83.3	88.6	12.7	42	59	4/19	1	31
Pioneer	Pioneer 26R22	77.7	78.5	—	13.6	41	59	4/9	1	32
USG	USG 3523	76.8	—	—	13.4	41	56	4/23	1	21
Delta Grow	Delta Grow 7500	76.0	79.8	86.0	12.7	40	57	4/19	1	32
Progeny	P870	75.8	81.6	—	13.3	41	56	4/19	1	29
Dixie	DXEX13-3	75.8	—	—	13	43	57	4/23	1	31
Dyna-Gro	Dyna-Gro 9171	75.5	83.1	88.5	12.2	39	56	4/19	1	27
Dixie Bell	Dixie Bell 620	75.4	82.4	91.1	13	40	55	4/12	1	31
Pioneer	26R53	75.0	—	—	13.3	40	58	4/9	1	32
AGS	AGS 2038	74.9	—	—	13	43	59	4/19	1	33
Dixie Bell	Exp 215	74.8	—	—	13	41	56	4/9	1	29
Armor	ARX 1206	74.5	—	—	13.3	44	57	4/19	1	31
Pioneer	XW11G	74.0	—	—	13.1	40	58	4/23	1	32
Progeny	PGX 12-12	74.0	—	—	13.4	37	57	4/12	1	35
Terral	Terral LA841	73.3	67.9	68.7	13.1	38	57	4/9	1	29
USG	USG 3555	73.1	77.5	86.8	13.3	42	57	4/19	1	27
Pioneer	25R32	73.1	—	—	13.3	38	57	4/19	1	34

Continued.

Table 8 (cont.). Yields of 76 wheat varieties at Todd Heigle Farms, Issaquena County (Sharkey Mixed Clay Loam Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>
USG	USG 3833	72.3	—	—	13.5	36	56	4/29	1	27
Limagrain										
Cereal Seeds	LCS 38889	71.9	—	—	13.6	38	58	4/29	1	39
Armor	Armor ARX 1107	71.9	75.7	—	13.2	41	57	4/19	1	33
Pioneer	Pioneer 26R10	71.4	77.3	—	13.5	40	54	4/9	1	31
Limagrain										
Cereal Seeds	LCS 37696	71.3	—	—	13.9	38	59	4/23	1	35
Terral	Terral TV 8861	71.1	78.4	83.1	13.4	40	57	4/12	1	30
Syngenta	Oakes	70.4	74.4	78.7	12.9	38	58	4/9	1	36
Delta Grow	Delta Grow 7300	70.4	71.2	—	12.5	43	56	4/12	1	31
Dixie Bell	Exp 128	70.0	—	—	13.4	38	57	4/23	1	28
Syngenta	MAGNOLIA	69.4	70.6	75.7	12.8	41	58	4/12	1	29
USG	USG 3201	69.4	81.4	85.3	13	43	58	4/19	1	28
Delta Grow	Delta Grow 7000	69.1	—	—	13.2	36	58	4/23	1	31
AGS	AGS SR10705	67.4	—	—	12.7	40	58	4/19	1	27
Syngenta	SY Harrison	66.4	79.1	—	12.8	42	57	4/19	1	28
Limagrain										
Cereal Seeds	LCS 38686	66.3	—	—	14.1	38	57	4/23	1	31
Progeny	P357	66.3	71.1	—	13.5	40	55	4/23	1	29
Terral	TV 8525	66.2	72.1	81.4	13.5	41	58	4/19	1	28
Progeny	P308	65.7	85.2	—	13.8	44	58	4/19	1	28
USG	USG 3438	65.4	75.6	82.6	13.1	36	56	4/23	1	30
Pioneer	Pioneer 26R87	65.0	75.6	75.0	13.8	49	60	4/12	1	28
Syngenta	9553	64.9	72.0	—	13.2	40	59	4/12	2	32
USG	USG 3251	64.6	76.2	85.4	13.1	42	56	4/23	1	26
Armor	ARX 1204	64.6	—	—	13.4	39	56	4/29	1	35
Progeny	PGX 12-10	64.5	—	—	13.2	43	55	4/23	1	30
Dixie	McAlister	64.4	75.8	84.1	12.8	38	56	4/19	1	30
Public	GA-031257-10LE34	62.9	—	—	13.6	42	59	4/5	3	29
AGS	AGS 2060	62.5	70.2	73.7	12.8	41	59	4/19	1	31
Armor	Ricochet	61.8	73.0	83.7	13.2	38	54	4/23	1	32
Delta Grow	Delta Grow 5000	59.1	—	—	13	37	57	4/12	1	31
Progeny	P185	58.9	64.6	—	13.4	39	57	4/19	1	26
Progeny	PGX 12-3	58.3	—	—	13.2	41	56	4/23	1	28
Progeny	P117	57.7	61.6	66.2	13.6	41	57	4/19	1	32
Public	GA-04570-10E46	55.5	—	—	13.1	44	60	4/5	1	37
Dixie Bell	Dixie Bell DB 412	55.3	68.8	—	12.9	39	54	4/19	1	27
Public	GA-031086-10E29	54.6	—	—	13.8	40	57	4/5	2	30
Public	VA 10W-119	49.8	—	—	13.5	41	58	4/5	1	30
Public	VA Jamestown	45.1	60.9	75.8	13.1	41	60	4/5	1	28
Terral	Terral LA821	42.9	53.8	54.7	13.3	39	59	4/12	1	33
Progeny	P125	39.8	52.0	59.8	13	37	57	4/19	1	32
AGS	AGS 2026	35.4	50.1	53.2	12.3	40	59	4/12	3	30
Public	LA 03200E-2	27.9	—	—	12.7	45	60	4/9	4	31
AGS	AGS 240	21.4	42.5	—	11.8	40	59	4/9	1	32
USG	USG 3120	20.5	50.7	64.3	13.8	42	60	4/19	1	27
AGS	AGS 2035	20.3	50.6	61.0	12.1	43	59	4/19	5	30
Terral	LA754	16.4	41.5	60.4	12.7	47	59	4/9	2	34
Mean		66.4								
LSD .1		11.8								
Error df		225								
CV		15.2								
R-square		79.7								
Planting date: November 7		Harvest date: June 12			Soil Fertility: P=M; K=M					
Fertilizer added: 120 lb (46-0-0) split application February 15 and March 30					Previous crop: Corn					
Herbicide: Finesse @ .04 oz/A on November 1					Fungicide: Avaris @ 14 oz/A on March 30					

Table 9. Yields of 76 wheat varieties at MAFES Delta Branch, Stoneville (Sharkey Silty Clay Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>
Progeny	P870	85.3	70.4	—	13.3	37	57	4/26	1	33
Dixie	Kelsey	85.1	72.3	73.6	13.2	40	58	4/4	1	35
AGS	AGS 2060	84.7	74.5	75.7	13.1	44	59	4/11	1	32
Pioneer	Pioneer 26R20	84.7	64.7	70.9	13.9	44	59	4/26	1	33
USG	USG 3438	84.5	74.7	78.8	13.0	39	56	4/22	1	30
Armor	ARX 1206	84.0	—	—	13.4	44	57	4/26	1	31
AgriMAXX	AgriMAXX 415	83.8	70.4	74.8	13.0	42	59	4/4	1	30
Dixie Bell	Dixie Bell DB 412	83.6	66.2	—	13.3	42	55	4/26	1	37
USG	USG 3833	83.4	—	—	13.3	40	57	4/22	1	34
USG	USG 3201	83.4	74.4	77.4	13.2	40	58	4/11	1	32
Delta Grow	Delta Grow 7000	82.7	—	—	13.6	41	58	4/11	1	33
AGS	AGS 2038	82.5	—	—	13.4	42	59	4/11	1	36
Armor	Armor ARX 1107	82.1	73.2	—	13.0	39	56	4/26	1	27
USG	USG 3523	82.1	—	—	13.3	43	56	4/26	1	33
AgriMAXX	Exp 1340	81.8	—	—	13.1	40	56	4/4	1	34
Dixie	Xtreme	81.5	—	—	13.2	40	56	4/4	1	36
USG	USG 3555	81.3	68.5	68.7	13.1	40	57	4/11	1	32
Terral	TV 8848	81.1	66.8	73.8	13.7	40	56	4/26	1	32
Dyna-Gro	Dyna-Gro 9171	80.8	67.7	72.0	12.8	33	57	4/4	1	32
Dixie	DXEX13-3	80.4	—	—	13.4	45	58	4/4	1	35
Dixie Bell	Exp 215	80.3	—	—	13.4	42	56	4/22	1	33
USG	USG 3251	80.2	71.5	73.5	13.7	42	57	4/22	1	34
Armor	ARX 1204	80.2	—	—	13.5	38	57	4/26	1	33
Progeny	P308	80.1	66.8	—	14.2	41	58	4/26	1	32
Pioneer	26R41	80.0	—	—	13.8	46	57	4/26	1	34
AgriMAXX	AgriMAXX 413	79.4	71.1	75.2	12.9	41	57	4/4	1	33
Pioneer	26R53	79.1	—	—	13.3	39	58	4/26	1	34
AgriMAXX	Exp 1335	78.9	—	—	12.3	41	56	4/4	1	35
Delta Grow	Delta Grow 9700	78.9	—	—	13.1	36	56	4/11	1	35
Public	GA-04570-10E46	78.8	—	—	13.4	44	60	4/26	1	28
Public	LA 03200E-2	78.7	—	—	12.9	45	59	4/4	1	37
Dyna-Gro	Baldwin	78.4	70.5	74.5	13.2	44	58	4/4	1	37
AGS	AGS 2035	78.3	69.9	75.5	13.5	47	58	4/11	1	34
Syngenta	MAGNOLIA	78.2	66.8	68.9	13.0	40	57	4/11	1	37
Progeny	PGX 12-12	77.7	—	—	13.9	40	59	4/26	1	34
Progeny	PGX 12-10	77.6	—	—	13.8	42	54	4/26	1	29
AGS	AGS SR10705	77.3	—	—	13.4	37	58	4/11	1	31
Terral	TV 8535	77.2	69.2	74.0	13.7	39	56	4/26	1	34
USG	USG 3120	77.2	71.2	77.6	13.3	48	60	4/22	1	35
Syngenta	9553	76.9	65.6	—	13.2	38	59	4/11	1	38
Progeny	P357	76.7	59.5	—	13.5	42	55	4/26	1	30
Pioneer	XW11G	76.6	—	—	13.3	39	58	4/4	1	33
Terral	TV 8525	76.3	66.6	72.4	14.1	41	58	4/26	1	31
Terral	Terral TV 8861	76.2	67.9	75.3	13.7	41	57	4/26	1	34
Pioneer	Pioneer 26R87	76.0	70.8	76.4	13.9	50	60	4/26	1	32
Armor	Ricochet	75.6	62.3	70.6	13.2	39	56	4/26	1	26
Dixie Bell	Exp 7880	75.0	—	—	13.3	37	57	4/22	1	34
Pioneer	Pioneer 26R10	74.9	67.5	—	14.0	42	56	4/26	1	31
Syngenta	SY Harrison	74.8	65.6	—	13.1	42	55	4/11	1	39
Delta Grow	Delta Grow 7500	74.5	59.8	67.0	13.0	38	57	4/4	1	32
Limagrain										
Cereal Seeds	LCS 38686	74.2	—	—	14.4	40	57	4/26	1	28
Public	GA-031257-10LE34	73.7	—	—	13.7	41	59	4/26	1	31
Terral	LA754	73.6	63.9	68.3	12.9	49	57	4/4	1	40
Armor	RAMPAGE	73.5	62.9	—	13.6	39	54	4/26	1	37
Progeny	P185	73.1	62.0	—	13.5	38	57	4/26	1	35
Limagrain										
Cereal Seeds	LCS 38889	72.6	—	—	14.3	38	58	4/26	1	37
Dixie Bell	Exp 128	72.5	—	—	13.3	36	57	4/26	1	33
Progeny	PGX 12-3	72.2	—	—	13.8	43	56	4/26	1	31
Delta Grow	Delta Grow 7200	71.7	—	—	13.4	41	56	4/11	1	36
Dixie	McAlister	71.6	65.8	74.6	12.5	39	57	4/4	1	31
Syngenta	Oakes	71.6	64.5	63.4	13.9	39	57	4/11	1	32
Public	VA Jamestown	70.9	64.2	69.0	13.2	44	59	4/22	1	33
Pioneer	25R32	70.8	—	—	14.1	40	57	4/26	1	35

Continued.

Table 9 (cont.). Yields of 76 wheat varieties at MAFES Delta Branch, Stoneville (Sharkey Silty Clay Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	%	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>
Progeny	P125	70.5	62.3	65.4	13.3	36	56	4/26	1	31
Public	GA-031086-10E29	70.3	—	—	13.9	39	57	4/26	1	29
Delta Grow	Delta Grow 7300	69.9	57.5	—	12.8	37	54	4/4	1	32
Pioneer	Pioneer 26R22	69.4	62.5	—	13.9	38	59	4/26	1	32
Delta Grow	Delta Grow 5000	69.4	—	—	13.4	37	56	4/26	1	33
AGS	AGS 2026	68.4	56.3	63.0	13.3	34	57	4/11	1	26
Dixie Bell	Dixie Bell 620	66.9	61.5	68.8	13.4	41	56	4/26	1	35
Terral	Terral LA841	66.1	62.6	66.1	13.2	39	55	4/26	1	28
AGS	AGS 240	65.4	56.6	—	13.0	40	59	4/4	1	34
Limagrain										
Cereal Seeds	LCS 37696	65.4	—	—	14.1	40	58	4/26	1	34
Progeny	P117	62.5	59.5	64.4	13.9	39	57	4/26	1	39
Terral	Terral LA821	61.6	54.5	63.4	13.7	40	58	4/26	1	33
Public	VA 10W-119	61.2	—	—	13.5	41	58	4/22	1	34
Mean		76.3								
LSD .1		7.5								
Error df		225								
CV		8.4								
R-square		60								
Planting date: November 7		Harvest date: June 19			Soil type: Sharkey Clay					
Soil pH: 6.8		Soil fertility: (low, medium, high) P=H K=H			Previous crop: Soybeans					
Fertilizer added: N @ 140 lb/A (46-0-0)										

Table 10. Yields of 76 wheat varieties at MSU Coastal R&E Center, Beaumont (McLaurin Sandy Loam).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	%	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>
Progeny	P870	85.3	—	—	13.3	37	57	4/26	1	33
Dixie	Kelsey	85.1	—	—	13.2	40	58	4/4	1	35
AGS	AGS 2060	84.7	—	—	13.1	44	59	4/11	1	32
Pioneer	Pioneer 26R20	84.7	—	—	13.9	44	59	4/26	1	33
USG	USG 3438	84.5	—	—	13.0	39	56	4/22	1	30
Armor	ARX 1206	84.0	—	—	13.4	44	57	4/26	1	31
AgriMAXX	AgriMAXX 415	83.8	—	—	13.0	42	59	4/4	1	30
Dixie Bell	Dixie Bell DB 412	83.6	—	—	13.3	42	55	4/26	1	37
USG	USG 3833	83.4	—	—	13.3	40	57	4/22	1	34
USG	USG 3201	83.4	—	—	13.2	40	58	4/11	1	32
Delta Grow	Delta Grow 7000	82.7	—	—	13.6	41	58	4/11	1	33
AGS	AGS 2038	82.5	—	—	13.4	42	59	4/11	1	36
Armor	Armor ARX 1107	82.1	—	—	13.0	39	56	4/26	1	27
USG	USG 3523	82.1	—	—	13.3	43	56	4/26	1	33
AgriMAXX	Exp 1340	81.8	—	—	13.1	40	56	4/4	1	34
Dixie	Xtreme	81.5	—	—	13.2	40	56	4/4	1	36
USG	USG 3555	81.3	—	—	13.1	40	57	4/11	1	32
Terral	TV 8848	81.1	—	—	13.7	40	56	4/26	1	32
Dyna-Gro	Dyna-Gro 9171	80.8	—	—	12.8	33	57	4/4	1	32
Dixie	DXEX13-3	80.4	—	—	13.4	45	58	4/4	1	35
Dixie Bell	Exp 215	80.3	—	—	13.4	42	56	4/22	1	33
USG	USG 3251	80.2	—	—	13.7	42	57	4/22	1	34
Armor	ARX 1204	80.2	—	—	13.5	38	57	4/26	1	33
Progeny	P308	80.1	—	—	14.2	41	58	4/26	1	32
Pioneer	26R41	80.0	—	—	13.8	46	57	4/26	1	34
AgriMAXX	AgriMAXX 413	79.4	—	—	12.9	41	57	4/4	1	33
Pioneer	26R53	79.1	—	—	13.3	39	58	4/26	1	34
AgriMAXX	Exp 1335	78.9	—	—	12.3	41	56	4/4	1	35
Delta Grow	Delta Grow 9700	78.9	—	—	13.1	36	56	4/11	1	35
Public	GA-04570-10E46	78.8	—	—	13.4	44	60	4/26	1	28
Public	LA 03200E-2	78.7	—	—	12.9	45	59	4/4	1	37

Continued.

Table 10 (cont.). Yields of 76 wheat varieties at MSU Coastal R&E Center, Beaumont (McLaurin Sandy Loam).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>
Dyna-Gro	Baldwin	78.4	—	—	13.2	44	58	4/4	1	37
AGS	AGS 2035	78.3	—	—	13.5	47	58	4/11	1	34
Syngenta	MAGNOLIA	78.2	—	—	13.0	40	57	4/11	1	37
Progeny	PGX 12-12	77.7	—	—	13.9	40	59	4/26	1	34
Progeny	PGX 12-10	77.6	—	—	13.8	42	54	4/26	1	29
AGS	AGS SR10705	77.3	—	—	13.4	37	58	4/11	1	31
Terral	TV 8535	77.2	—	—	13.7	39	56	4/26	1	34
USG	USG 3120	77.2	—	—	13.3	48	60	4/22	1	35
Syngenta	9553	76.9	—	—	13.2	38	59	4/11	1	38
Progeny	P357	76.7	—	—	13.5	42	55	4/26	1	30
Pioneer	XW11G	76.6	—	—	13.3	39	58	4/4	1	33
Terral	TV 8525	76.3	—	—	14.1	41	58	4/26	1	31
Terral	Terral TV 8861	76.2	—	—	13.7	41	57	4/26	1	34
Pioneer	Pioneer 26R87	76.0	—	—	13.9	50	60	4/26	1	32
Armor	Ricochet	75.6	—	—	13.2	39	56	4/26	1	26
Dixie Bell	Exp 7880	75.0	—	—	13.3	37	57	4/22	1	34
Pioneer	Pioneer 26R10	74.9	—	—	14.0	42	56	4/26	1	31
Syngenta	SY Harrison	74.8	—	—	13.1	42	55	4/11	1	39
Delta Grow	Delta Grow 7500	74.5	—	—	13.0	38	57	4/4	1	32
Limagrain										
Cereal Seeds	LCS 38686	74.2	—	—	14.4	40	57	4/26	1	28
Public	GA-031257-10LE34	73.7	—	—	13.7	41	59	4/26	1	31
Terral	LA754	73.6	—	—	12.9	49	57	4/4	1	40
Armor	RAMPAGE	73.5	—	—	13.6	39	54	4/26	1	37
Progeny	P185	73.1	—	—	13.5	38	57	4/26	1	35
Limagrain										
Cereal Seeds	LCS 38889	72.6	—	—	14.3	38	58	4/26	1	37
Dixie Bell	Exp 128	72.5	—	—	13.3	36	57	4/26	1	33
Progeny	PGX 12-3	72.2	—	—	13.8	43	56	4/26	1	31
Delta Grow	Delta Grow 7200	71.7	—	—	13.4	41	56	4/11	1	36
Dixie	McAlister	71.6	—	—	12.5	39	57	4/4	1	31
Syngenta	Oakes	71.6	—	—	13.9	39	57	4/11	1	32
Public	VA Jamestown	70.9	—	—	13.2	44	59	4/22	1	33
Pioneer	25R32	70.8	—	—	14.1	40	57	4/26	1	35
Progeny	P125	70.5	—	—	13.3	36	56	4/26	1	31
Public	GA-031086-10E29	70.3	—	—	13.9	39	57	4/26	1	29
Delta Grow	Delta Grow 7300	69.9	—	—	12.8	37	54	4/4	1	32
Pioneer	Pioneer 26R22	69.4	—	—	13.9	38	59	4/26	1	32
Delta Grow	Delta Grow 5000	69.4	—	—	13.4	37	56	4/26	1	33
AGS	AGS 2026	68.4	—	—	13.3	34	57	4/11	1	26
Dixie Bell	Dixie Bell 620	66.9	—	—	13.4	41	56	4/26	1	35
Terral	Terral LA841	66.1	—	—	13.2	39	55	4/26	1	28
AGS	AGS 240	65.4	—	—	13.0	40	59	4/4	1	34
Limagrain										
Cereal Seeds	LCS 37696	65.4	—	—	14.1	40	58	4/26	1	34
Progeny	P117	62.5	—	—	13.9	39	57	4/26	1	39
Terral	Terral LA821	61.6	—	—	13.7	40	58	4/26	1	33
Public	VA 10W-119	61.2	—	—	13.5	41	58	4/22	1	34
Mean		76.3								
LSD .1		7.5								
Error df		225								
CV		8.4								
R-square		60								
Planting date: November 1		Harvest date: June 6			Soil type: McLaurin Sandy Loam					
Soil pH: 6.5		Soil fertility: (low, medium, high) P=H K=H			Previous crop: Fallow					
Fertilizer added: N @ 120 lb/A (33-0-0) on March 7, 2013										
Herbicide application: Harmony Extra GT @ 0.6 oz/A on March 6, 2013										

Table 11. Yields of 76 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring Silt Loam Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>
Dixie	McAlister	88.5	74.0	81.4	11.5	36	56	4/17	1	36
USG	USG 3833	84.6	—	—	12.9	43	57	4/17	1	34
Armor	ARX 1206	83.1	—	—	12.6	40	56	4/17	1	28
AgriMAXX	AgriMAXX 415	81.8	65.6	75.8	11.9	39	58	3/21	3	32
Dixie Bell	Exp 7880	81.4	—	—	12.7	39	57	4/17	1	37
USG	USG 3201	80.5	70.3	76.7	13.0	40	58	4/17	1	32
Pioneer	Pioneer 26R10	79.2	58.4	—	11.7	38	54	3/21	1	29
Delta Grow	Delta Grow 9700	78.3	—	—	13.1	40	56	4/17	1	30
Pioneer	26R53	78.2	—	—	12.6	39	57	4/17	1	33
Terral	TV 8525	78.2	71.5	77.8	12.9	41	58	3/21	1	32
Dyna-Gro	Dyna-Gro 9171	77.4	71.7	81.3	12.3	34	56	4/17	1	32
Progeny	P870	76.6	69.3	—	12.0	37	56	4/17	1	32
Pioneer	26R41	76.0	—	—	12.5	42	57	4/17	1	30
Pioneer	Pioneer 26R22	75.6	60.4	—	12.1	42	59	3/21	1	33
AgriMAXX	AgriMAXX 413	75.5	64.8	77.1	11.8	35	57	4/17	3	32
USG	USG 3438	73.9	61.5	72.5	12.6	38	57	3/28	1	32
AgriMAXX	Exp 1335	73.4	—	—	11.8	35	56	4/17	1	31
Dixie	Kelsey	73.2	56.9	68.5	11.9	39	57	4/17	1	31
Progeny	P308	72.6	63.9	—	12.6	38	58	3/28	1	32
Delta Grow	Delta Grow 7000	72.5	—	—	12.9	38	58	3/21	1	30
Progeny	PGX 12-10	71.3	—	—	12.2	40	56	3/21	1	35
Armor	ARX 1204	71.1	—	—	12.3	39	56	3/21	1	32
Syngenta	Oakes	70.6	58.6	61.8	13.4	40	58	4/17	1	30
AgriMAXX	Exp 1340	70.5	—	—	12.1	44	57	4/17	4	40
USG	USG 3523	70.0	—	—	13.1	41	57	4/17	1	37
Armor	Armor ARX 1107	69.1	56.3	—	12.5	39	57	4/17	3	30
Limagrain										
Cereal Seeds	LCS 38686	69.0	—	—	13.3	38	58	4/17	1	35
Dixie Bell	Dixie Bell DB 412	68.9	55.6	—	12.8	40	56	4/17	1	34
Armor	Ricochet	68.6	58.0	69.8	12.4	36	55	3/28	1	34
Delta Grow	Delta Grow 7500	67.5	61.8	70.5	12.1	40	56	4/17	1	30
Dixie	DXEX13-3	67.4	—	—	12.5	39	55	3/28	1	33
Dixie	Xtreme	66.9	—	—	11.8	35	55	4/17	3	33
USG	USG 3555	66.9	65.3	71.9	12.4	45	56	4/17	1	28
Terral	TV 8848	66.6	58.6	72.6	13.2	40	56	3/28	1	33
Public	GA-031257-10LE34	66.6	—	—	12.0	41	58	3/28	1	33
Dixie Bell	Dixie Bell 620	66.1	61.1	70.7	12.8	37	56	4/17	1	32
Progeny	PGX 12-3	66.1	—	—	12.1	37	56	4/17	1	31
Syngenta	SY Harrison	64.2	51.5	—	12.5	36	56	4/17	2	32
Syngenta	MAGNOLIA	64.0	68.9	73.6	12.6	38	57	3/28	2	35
USG	USG 3251	63.5	53.9	68.1	12.8	42	58	4/17	1	31
Delta Grow	Delta Grow 7200	62.7	—	—	12.9	39	57	3/28	1	31
AGS	AGS 2060	62.5	59.6	66.9	12.2	41	59	4/17	1	27
Armor	RAMPAGE	62.1	52.8	—	12.5	34	55	4/17	3	34
Terral	Terral TV 8861	61.7	56.5	68.3	13.4	39	57	4/17	1	30
Dixie Bell	Exp 215	61.0	—	—	13.0	40	57	4/17	4	35
Pioneer	Pioneer 26R87	60.7	58.5	68.1	12.4	47	60	4/17	1	28
Pioneer	Pioneer 26R20	60.6	50.0	62.7	11.8	42	58	4/17	4	37
Syngenta	9553	60.5	58.7	—	12.8	42	59	4/17	1	32
Dixie Bell	Exp 128	60.5	—	—	12.8	38	57	4/17	1	32
Delta Grow	Delta Grow 7300	58.8	41.2	—	11.7	38	53	4/17	1	27
Limagrain										
Cereal Seeds	LCS 37696	58.7	—	—	12.2	40	58	4/17	3	41
AGS	AGS 2038	58.6	—	—	12.4	40	57	4/17	2	35
Progeny	P185	58.6	52.1	—	12.3	37	56	4/17	1	40
Progeny	PGX 12-12	57.0	—	—	12.4	39	57	4/17	4	34
Terral	TV 8535	56.5	56.7	65.2	12.5	37	56	4/17	1	34
Progeny	P357	56.4	43.9	—	12.0	36	52	4/17	1	32
Public	VA 10W-119	56.1	—	—	12.5	38	56	4/17	1	33
Limagrain										
Cereal Seeds	LCS 38889	55.5	—	—	11.9	43	57	3/21	4	34
Public	LA 03200E-2	54.4	—	—	12.0	41	58	4/17	1	29
Terral	LA754	53.3	56.3	70.5	11.8	47	56	4/17	1	29
Pioneer	XW11G	52.6	—	—	12.3	40	57	4/17	4	34
USG	USG 3120	52.4	59.4	71.9	12.3	40	57	4/17	1	34

Continued.

Table 11 (cont.). Yields of 76 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring Silt Loam Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height						
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	%	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>						
Dyna-Gro	Baldwin	52.3	60.4	69.8	12.1	41	57	3/28	1	36						
Progeny	P125	51.8	52.0	64.8	12.7	37	55	3/21	1	27						
AGS	AGS 2035	51.5	50.3	64.4	12.0	43	56	4/17	1	37						
Public	GA-031086-10E29	51.3	—	—	11.7	36	54	4/17	3	34						
Pioneer	25R32	51.0	—	—	11.6	33	54	3/28	3	39						
AGS	AGS SR10705	50.8	—	—	12.8	38	57	4/17	2	35						
Public	GA-04570-10E46	48.0	—	—	11.9	44	59	4/17	1	29						
Public	VA Jamestown	47.6	47.4	59.7	12.3	36	57	4/17	1	28						
Delta Grow	Delta Grow 5000	46.4	—	—	12.6	37	55	3/21	1	29						
AGS	AGS 240	46.1	47.7	—	11.8	40	57	4/17	1	29						
Progeny	P117	45.2	40.0	53.7	13.2	41	55	4/17	1	35						
Terral	Terral LA841	39.9	40.2	52.2	11.8	38	55	3/21	2	33						
AGS	AGS 2026	38.2	41.2	57.2	12.5	32	53	3/21	1	34						
Terral	Terral LA821	37.8	39.8	52.5	12.4	42	57	4/17	1	28						
Mean		63.9														
LSD .1		13.5														
Error df		150														
CV		15.7														
R-square		68.3														
Planting date: November 2		Harvest date: June 12			Soil type: Loring silt loam											
Soil pH: 6.2		Soil fertility: (low, medium, high) P=M K=M			Previous crop: Corn											
Fertilizer added: N @ 130 lb/A (ammonium nitrate) on March 8, 2013																
Herbicide application: Powerflex HL @ 2 oz/A on March 7, 2013																

Table 12. Yields of 76 wheat varieties at Michael Walker Farms, Schlater (Dubbs Loam Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	%	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>
Armor	Armor ARX 1107	100.7	75.8	—	11.8	39	57	4/22	1	34
Armor	ARX 1206	99.7	—	—	11.7	38	58	4/19	1	32
Dyna-Gro	Dyna-Gro 9171	99.7	77.9	79.5	11.5	39	57	4/19	1	34
Dyna-Gro	Baldwin	99.5	75.9	77.8	11.9	43	60	4/22	1	41
Dixie	Kelsey	98.9	82.4	83.6	11.8	40	59	4/19	1	36
USG	USG 3201	98.4	82.5	87.2	11.8	42	59	4/19	2	35
Progeny	P870	96.6	77.9	—	11.9	40	56	4/12	1	34
Terral	TV 8535	96.3	77.2	80.6	11.2	38	57	4/19	1	39
Pioneer	26R53	96.0	—	—	12.1	42	58	4/19	1	33
USG	USG 3251	95.8	77.1	78.2	12.0	44	57	4/19	2	37
USG	USG 3523	95.4	—	—	11.8	37	58	4/25	1	35
AgriMAXX	AgriMAXX 415	95.0	78.1	81.5	11.9	40	59	4/22	1	31
AgriMAXX	AgriMAXX 413	94.8	74.5	79.7	11.3	38	57	4/19	1	38
Dixie	Xtreme	94.5	—	—	12.2	37	58	4/19	2	37
USG	USG 3833	94.2	—	—	11.4	37	57	4/19	1	38
Pioneer	26R41	93.6	—	—	12.0	38	58	4/19	1	31
Terral	TV 8848	93.5	70.4	75.7	11.2	39	61	4/19	2	39
Pioneer	Pioneer 26R10	93.4	71.1	—	12.3	39	58	4/22	1	35
USG	USG 3438	93.4	72.4	80.2	11.3	38	57	4/19	1	35
AGS	AGS 2060	93.3	72.7	77.2	11.8	40	59	4/19	1	39
Armor	ARX 1204	93.0	—	—	11.7	37	57	4/15	1	36
Dixie Bell	Dixie Bell 620	92.8	65.2	67.5	12.3	41	57	4/19	1	39
AgriMAXX	Exp 1335	92.8	—	—	11.1	41	58	4/22	3	39
Progeny	P357	92.5	63.7	—	11.2	38	56	4/19	2	35
AGS	AGS SR10705	92.3	—	—	11.8	37	57	4/19	1	35
Delta Grow	Delta Grow 9700	92.0	—	—	11.6	39	58	4/19	3	37
Syngenta	SY Harrison	91.8	71.2	—	11.8	36	57	4/19	2	39
Progeny	PGX 12-10	91.6	—	—	11.7	40	55	4/19	3	34
Terral	Terral TV 8861	91.3	71.6	78.0	11.9	43	58	4/19	1	37
Delta Grow	Delta Grow 7500	90.8	71.1	74.8	12.0	43	56	4/25	1	34

Continued.

Table 12 (cont.). Yields of 76 wheat varieties at Michael Walker Farms, Schlater (Dubbs Loam Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>
Dixie	McAlister	90.7	70.8	75.8	11.4	38	57	4/19	1	31
Dixie Bell	Exp 215	90.4	—	—	11.8	43	57	4/25	1	38
AgriMAXX	Exp 1340	89.7	—	—	12.2	43	57	4/22	3	37
Delta Grow	Delta Grow 7200	88.2	—	—	12.1	42	58	4/25	1	37
Dixie	DSEX13-3	87.7	—	—	11.7	44	58	4/19	1	37
Delta Grow	Delta Grow 7000	87.6	—	—	11.7	38	59	4/29	1	34
Pioneer	Pioneer 26R22	87.6	71.8	—	12.0	37	59	4/19	2	38
Progeny	PGX 12-3	87.4	—	—	11.4	37	56	4/22	1	37
Progeny	P308	87.3	72.8	—	12.3	40	58	4/25	2	38
Delta Grow	Delta Grow 7300	86.9	64.0	—	11.6	41	56	4/25	2	37
Terral	TV 8525	86.5	69.7	74.2	12.4	38	59	4/19	1	37
Armor	Ricochet	85.1	68.3	69.6	11.6	38	55	4/9	1	34
Pioneer	Pioneer 26R20	84.6	73.1	73.6	11.6	43	58	4/22	3	36
Pioneer	XW11G	84.3	—	—	11.7	42	58	4/25	3	38
Dixie Bell	Exp 128	84.2	—	—	12.3	39	58	4/29	1	36
Pioneer	Pioneer 26R87	84.1	66.8	74.3	11.8	44	60	4/12	1	38
Armor	RAMPAGE	84.0	61.3	—	11.3	35	58	4/22	1	35
AGS	AGS 2038	83.9	—	—	11.6	38	58	4/12	2	40
Dixie Bell	Dixie Bell DB 412	82.7	65.0	—	12.1	41	56	4/25	1	36
Syngenta	Oakes	82.2	67.8	69.1	12.0	39	60	4/19	3	38
Progeny	P185	82.1	59.4	—	11.9	36	58	4/19	1	39
USG	USG 3555	82.1	60.3	63.2	11.6	39	57	4/22	1	34
Dixie Bell	Exp 7880	81.9	—	—	12.1	40	58	4/19	1	43
Progeny	PGX 12-12	81.2	—	—	12.0	40	57	4/22	3	36
Syngenta	MAGNOLIA	81.0	61.0	66.3	11.4	44	57	4/15	1	42
Public	VA Jamestown	78.7	63.4	70.2	11.9	38	61	4/12	1	32
Pioneer	25R32	78.7	—	—	11.4	37	58	4/25	1	35
Limagrain										
Cereal Seeds	LCS 38686	78.0	—	—	12.5	42	59	4/25	3	38
Terral	Terral LA841	77.2	60.9	61.1	11.7	35	57	4/9	1	35
Terral	LA754	74.9	63.2	66.0	11.8	47	58	4/12	3	38
Public	GA-031257-10LE34	74.4	—	—	11.6	38	58	4/15	1	34
Limagrain										
Cereal Seeds	LCS 37696	72.9	—	—	12.1	38	59	4/19	2	38
Public	LA 03200E-2	72.7	—	—	11.6	44	57	4/12	1	37
Public	GA-031086-10E29	72.1	—	—	12.0	38	58	4/15	1	39
Terral	Terral LA821	71.8	55.7	56.3	11.3	40	58	4/9	1	38
Limagrain										
Cereal Seeds	LCS 38889	71.8	—	—	11.8	38	60	4/25	4	36
Syngenta	9553	70.4	61.8	—	12.2	40	60	4/15	1	38
Public	VA 10W-119	69.0	—	—	12.1	42	59	4/15	1	37
AGS	AGS 2035	65.0	57.4	60.4	11.7	42	60	4/12	1	40
Delta Grow	Delta Grow 5000	62.3	—	—	11.0	35	57	4/19	1	32
Progeny	P117	60.7	45.3	54.7	12.1	41	57	4/12	1	40
AGS	AGS 240	60.1	53.3	—	11.5	39	58	4/9	1	37
Progeny	P125	59.4	47.4	52.5	11.2	32	57	4/12	1	33
USG	USG 3120	58.6	57.5	64.4	11.8	44	57	4/19	1	41
Public	GA-04570-10E46	57.4	—	—	12.1	40	58	4/9	1	40
AGS	AGS 2026	55.3	48.4	51.6	11.3	42	57	4/12	3	36
Mean		84.5								
LSD .1		8.1								
Error df		225								
CV		8.4								
R-square		78.5								
Planting date: October 31		Harvest date: June 12		Soil type: Dubbs loam						
Soil pH: 5.0		Soil fertility: (low, medium, high) P=H K=H		Previous crop: Soybeans						
Fertilizer added: 18-46-0 @ 100 lb/A on November 19, 2012; 37-0-0-85 @ 150 lb/A on February 8, 2013; and 46-0-0 @ 150 lb/A on March 15, 2013										

Table 13. Yields of 76 wheat varieties at Clifton Farms, Hernando (Collins Silt Loam Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>
Dyna-Gro	Baldwin	72.8	—	—	14.4	—	—	4/29	1	39
Pioneer	Pioneer 26R10	69.4	—	—	13.0	—	—	4/26	1	29
Delta Grow	Delta Grow 7500	68.9	—	—	14.2	—	—	4/29	1	33
Limagrain										
Cereal Seeds	LCS 38686	67.8	—	—	12.8	—	—	4/26	1	35
Delta Grow	Delta Grow 7300	67.7	—	—	14.6	—	—	4/29	1	29
Dixie Bell	Dixie Bell 620	66.6	—	—	11.8	—	—	4/29	1	27
Delta Grow	Delta Grow 9700	65.6	—	—	13.3	—	—	4/29	1	34
Dixie	McAlister	65.4	—	—	14.0	—	—	4/26	1	33
USG	USG 3251	64.9	—	—	13.9	—	—	4/29	1	31
Dixie	Xtreme	64.9	—	—	13.6	—	—	4/26	1	35
Syngenta	SY Harrison	64.5	—	—	13.8	—	—	4/29	1	30
Dyna-Gro	Dyna-Gro 9171	64.4	—	—	12.6	—	—	4/26	1	32
AgriMAXX	Exp 1335	63.7	—	—	15.3	—	—	4/29	1	31
AgriMAXX	AgriMAXX 415	63.2	—	—	13.7	—	—	4/23	1	31
Progeny	PGX 12-10	63.2	—	—	12.9	—	—	4/26	1	34
AgriMAXX	Exp 1340	62.9	—	—	13.4	—	—	4/29	1	29
Progeny	P308	61.9	—	—	13.8	—	—	4/26	1	34
Dixie	DXEX13-3	61.4	—	—	13.0	—	—	4/29	1	32
Armor	Armor ARX 1107	60.9	—	—	13.1	—	—	4/26	1	32
Pioneer	26R53	60.5	—	—	12.6	—	—	4/26	1	27
Dixie Bell	Exp 215	60.5	—	—	12.9	—	—	4/29	1	31
Terral	Terral TV 8861	60.0	—	—	12.2	—	—	4/29	1	31
USG	USG 3201	59.4	—	—	12.3	—	—	4/29	1	32
Armor	ARX 1206	59.2	—	—	12.8	—	—	4/26	1	32
Dixie Bell	Dixie Bell DB 412	59.0	—	—	13.3	—	—	4/29	1	31
Pioneer	XW11G	58.9	—	—	13.7	—	—	4/29	1	32
Armor	Ricochet	58.8	—	—	12.9	—	—	4/26	1	30
AGS	AGS SR10705	58.5	—	—	13.7	—	—	4/26	1	34
Terral	TV 8525	58.3	—	—	13.0	—	—	4/29	1	30
Progeny	P870	58.1	—	—	12.1	—	—	4/26	1	31
AGS	AGS 2038	57.7	—	—	13.6	—	—	4/23	1	39
AgriMAXX	AgriMAXX 413	57.7	—	—	13.7	—	—	4/29	1	31
Armor	ARX 1204	57.5	—	—	12.8	—	—	4/29	1	32
Terral	TV 8848	57.2	—	—	12.9	—	—	4/29	1	32
USG	USG 3833	57.0	—	—	13.0	—	—	4/26	1	32
Pioneer	Pioneer 26R22	56.9	—	—	12.0	—	—	4/26	1	29
Public	GA-031257-10LE34	56.7	—	—	10.8	—	—	4/18	1	27
USG	USG 3523	56.7	—	—	12.4	—	—	4/26	1	30
Syngenta	MAGNOLIA	56.7	—	—	12.4	—	—	4/23	1	32
Progeny	P357	56.2	—	—	12.7	—	—	4/26	1	38
Public	VA 10W-119	55.5	—	—	13.7	—	—	4/18	1	33
Pioneer	Pioneer 26R87	54.8	—	—	12.1	—	—	4/18	1	28
Dixie Bell	Exp 128	54.7	—	—	13.4	—	—	4/29	1	28
Terral	LA754	54.6	—	—	12.9	—	—	4/18	1	33
Delta Grow	Delta Grow 7200	54.5	—	—	12.8	—	—	4/29	1	31
Armor	RAMPAGE	54.0	—	—	12.0	—	—	4/18	1	34
Dixie	Kelsey	54.0	—	—	13.5	—	—	4/23	1	33
Public	GA-031086-10E29	53.7	—	—	10.8	—	—	4/18	1	25
USG	USG 3120	53.4	—	—	12.5	—	—	4/18	1	29
Terral	Terral LA841	53.2	—	—	12.1	—	—	4/18	1	26
Progeny	PGX 12-12	53.1	—	—	10.8	—	—	4/18	1	29
Terral	TV 8535	52.9	—	—	12.9	—	—	4/29	1	28
Public	LA 03200E-2	52.8	—	—	13.1	—	—	4/23	1	32
Progeny	P117	52.7	—	—	12.0	—	—	4/18	1	31
AGS	AGS 2060	52.6	—	—	12.0	—	—	4/23	1	33
AGS	AGS 2035	52.5	—	—	12.7	—	—	4/18	1	34
Progeny	PGX 12-3	51.9	—	—	12.4	—	—	4/29	1	32
Limagrain										
Cereal Seeds	LCS 38889	51.0	—	—	10.8	—	—	4/29	1	31
Pioneer	Pioneer 26R20	50.9	—	—	13.5	—	—	4/26	1	28
Progeny	P125	50.9	—	—	11.6	—	—	4/18	1	24
USG	USG 3438	50.7	—	—	12.8	—	—	4/29	1	29
Pioneer	26R41	50.4	—	—	12.8	—	—	4/26	1	28
Progeny	P185	49.5	—	—	12.3	—	—	4/23	1	39

Continued.

Table 13 (cont.). Yields of 76 wheat varieties at Clifton Farms, Hernando (Collins Silt Loam Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Seed weight	Test weight	Date headed	Lodging score	Plant height
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	%	<i>g/1000</i>	<i>lb/bu</i>			<i>in</i>
Dixie Bell	Exp 7880	49.4	—	—	12.3	—	—	4/26	1	31
AGS	AGS 2026	48.8	—	—	12.0	—	—	4/18	1	26
Limagrain										
Cereal Seeds	LCS 37696	48.8	—	—	11.8	—	—	4/26	1	30
Pioneer	25R32	48.7	—	—	12.0	—	—	4/29	1	33
Public	GA-04570-10E46	48.0	—	—	12.5	—	—	4/18	1	32
Public	VA Jamestown	47.9	—	—	11.8	—	—	4/23	1	26
Terral	Terral LA821	47.1	—	—	12.1	—	—	4/18	1	28
AGS	AGS 240	46.9	—	—	13.2	—	—	4/18	1	30
USG	USG 3555	46.0	—	—	13.0	—	—	4/23	1	27
Delta Grow	Delta Grow 7000	43.9	—	—	12.9	—	—	4/29	1	32
Syngenta	Oakes	43.7	—	—	12.5	—	—	4/29	1	26
Delta Grow	Delta Grow 5000	40.8	—	—	12.0	—	—	4/18	1	27
Syngenta	9553	38.5	—	—	12.3	—	—	4/26	1	29
Mean		56.2								
LSD .1		9.8								
Error df		225								
CV		14.9								
R-square		48.8								
Planting date: November 5		Harvest date: June 16			Soil Type: Falaya silt loam					
Soil pH: 5.8		Soil fertility: P=M; K=M			Previous crop: Soybeans					
Fertilizer added: February 6, 40-20-60-10s; April 1, 40-0-0										
Herbicide application: TD Total @ 25 oz/A on November 5; Axial XL @ 16.4 oz/A; Harmony @ 0.5 oz/A on March 16										

Table 14. Yields of three oat varieties at MAFES Black Belt Branch, Brooksville (Brooksville Silty Clay Soil).

Brand	Variety	2012-13 yield	2-year avg.	3-year avg.	Moisture	Test weight	Plant height	Lodging score	Date headed	
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	%	<i>lb/bu</i>	<i>in</i>			
LSU	LA05006GSBS-65-S1	134.5	109.3	108.2	11.4	34.1	49	1	4/18	
LSU	LA04004-7-S1	87.2	94.3	—	9.9	37.8	46	1	4/18	
LSU	LA05011-30	112.0	—	—	10.0	36.4	49	1	4/19	
Mean		111.2								
LSD .1		19.5								
Error df		6								
CV		12.8								
R-Square		85								
Planting date: October 31		Harvest date: June 11			Soil type: Brooksville Silty Clay					
Soil pH: 6.3		Soil fertility: (low, medium, high) P=M K=M			Previous crop: Soybeans					
Fertilizer added: 13-13-13 preplant @ 300 lb/A; N @ 42 lb/A on February 25 (32% N-Sol) and N @ 80 lb/A on March 18 (32% N-Sol)										

Table 15. Average number of wheat seeds per pound.

Brand	Variety	2012-13 average	2011-12 average	2-year average	Brand	Variety	2012-13 average	2011-12 average	2-year average
		<i>seed/lb</i>	<i>seed/lb</i>	<i>seed/lb</i>			<i>seed/lb</i>	<i>seed/lb</i>	<i>seed/lb</i>
AgriMAXX	Exp 1335	12,667	—	—	Limagrain Cereal Seeds	LCS 38686	10,428	—	—
AgriMAXX	Exp 1340	12,039	—	—	Limagrain Cereal Seeds	LCS 38889	11,014	—	—
AgriMAXX	AgriMAXX 413	12,078	13,201	12,640	Limagrain Cereal Seeds	LCS 37696	11,512	—	—
AgriMAXX	AgriMAXX 415	10,435	11,859	11,147	Progeny	Progeny 125	11,947	14,116	13,032
AGS	AGS 2026	11,598	14,008	12,803	Progeny	Progeny 117	11,525	13,533	12,529
AGS	AGS 2035	9,670	10,471	10,071	Progeny	Progeny 185	11,126	13,050	12,088
AGS	AGS 2060	11,504	12,926	12,215	Progeny	Progeny 357	11,037	11,611	11,324
AGS	AGS 2038	11,459	—	—	Progeny	Progeny 870	12,718	14,025	13,372
AGS	AGS 10705	11,582	—	—	Progeny	Progeny 308	11,351	—	—
AGS	AGS 240	10,936	12,021	11,479	Progeny	Progeny PGX 12-3	9,763	—	—
Armor	ARX 1107	11,900	10,752	—	Progeny	Progeny PGX 12-10	11,172	—	—
Armor	ARX 1204	12,800	—	—	Progeny	Progeny PGX 12-12	10,490	—	—
Armor	ARX 1206	10,500	—	—	Public	LSU LA03200E-2	12,145	—	—
Armor	Rampage	12,700	—	—	Public	GA0457010E46	11,294	—	—
Armor	Ricochet	15,900	13,129	14,515	Public	GA03125710L34	11,841	—	—
Delta Grow	Delta Grow 7300	11,820	12,721	12,271	Public	GA03108610E29	13,508	—	—
Delta Grow	Delta Grow 7500	11,247	13,117	12,182	Public	VA Jamestown	11,097	13,103	12,100
Delta Grow	Delta Grow 5000	12,634	—	—	Public	VA VA10W-119	9,153	—	—
Delta Grow	Delta Grow 7000	11,747	—	—	Syngenta	CK 9553	10,299	12,182	11,241
Delta Grow	Delta Grow 7200	12,315	—	—	Syngenta	SY HARRISON	10,301	—	—
Delta Grow	Delta Grow 9700	11,242	—	—	Syngenta	MAGNOLIA	10,641	12,101	11,371
Dixie	DXEX13-3	8,012	—	—	Syngenta	OAKES	11,889	13,814	12,852
Dixie	Xtreme	11,075	—	—	Terral	LA 841	12,459	12,830	12,645
Dixie	Kelsey	10,876	11,231	11,054	Terral	TV 8525	11,177	11,767	11,472
Dixie	McAllister	11,565	13,038	12,302	Terral	TV 8535	13,004	13,318	13,161
Dixie Bell	DB 412	11,610	10,487	11,049	Terral	TV 8848	10,489	11,274	10,882
Dixie Bell	DB 620	11,976	11,589	11,783	Terral	TV 8861	10,976	11,843	11,410
Dixie Bell	Exp 128	13,394	—	—	Terral	LA 821	13,789	12,882	13,336
Dixie Bell	Exp 215	12,558	—	—	Terral	LA754	9,177	10,517	9,847
Dixie Bell	Exp 7880	11,675	—	—	USG	USG 3201	9,836	11,797	10,817
Dyna-Gro	Baldwin	12,252	11,191	11,722	USG	USG 3251	11,019	10,523	10,771
Dyna-Gro	9171	10,086	14,080	12,083	USG	USG 3438	12,482	13,159	12,821
USG	USG 3120	9,551	10,930	10,241	USG	USG 3555	9,536	11,548	10,542
Pioneer	Pioneer 26R20	10,726	12,488	11,607	USG	USG 3833	11,244	—	—
Pioneer	Pioneer 26R87	9,147	8,718	8,933	USG	USG 3523	11,580	—	—
Pioneer	Pioneer 26R10	10,180	12,172	11,176					
Pioneer	Pioneer 25R32	12,192	—	—					
Pioneer	Pioneer 26R22	12,366	12,681	12,524					
Pioneer	Pioneer 26R41	10,335	10,545	—					
Pioneer	Pioneer 26R53	11,287	—	—					
Pioneer	XW11G	12,039	—	—					

Table 16. Average number of oat seeds per pound.

Brand	Variety	2012-13 average	2011-12 average	2-year average	Brand	Variety	2012-13 average	2011-12 average	2-year average
		<i>seed/lb</i>	<i>seed/lb</i>	<i>seed/lb</i>			<i>seed/lb</i>	<i>seed/lb</i>	<i>seed/lb</i>
LSU	LA05006GSBS-65-S1	11974	14112	13,043	LSU	LA05011-30	17,352	—	—
LSU	LA04004SBSB-7-B-S1	14985	13854	14,420					

INTERPRETATION OF DISEASE REACTION VALUES

Nine locations were evaluated for the presence of foliar and stem diseases. Data are presented in the table as an average or mean of the four replications for each variety from each location. Plant pathologists use a visual rating scale (*James' Manual of Assessment of Plant Diseases*) that has templates to guide us when making evaluations. Leaf rust and stripe rust have diagrammatic representations of the amount of leaf area affected by each disease. We use these pictorial guides to help us in making visual assessments of how much of the flag leaf of a wheat plant is showing symptoms of rust pustule or fungal/bacterial lesion development. Values can range from 0% (no symptoms present) up to approximately 50% (most of the leaf is diseased). The grower must keep in mind the factors contributing to the amount of disease present at a particular location and on a certain variety. These factors include stage of plant growth, rainfall amounts, humidity, temperature, inoculum (or spore load), varietal susceptibility, and a host of other environmental/varietal interactions that coincide with disease incidence (the percentage of plants with symptoms) and severity (the amount of leaf area affected on those plants).

Our ratings reflect mainly the severity of infection within an entire plot. So when a value of 15% occurs in the table for a particular variety, we mean that most of the plants in that plot have similar levels of symptom development. You will notice great variation from one location to another because of the factors contributing to disease development at that particular location. One variety may be severely affected in one year and less affected in the next year, depending on these factors. We do not attempt in this publication to place arbitrary values on what makes a variety resistant, moderately susceptible, susceptible, or very susceptible. In addition, keep in mind that the main race of

a particular pathogen (either leaf, stem, or stripe rust) may vary by location, as well as between years.

The grower needs to look at several years in the past for a particular variety he is interested in growing and look at the numbers over those years. Generally, disease severity values from 0–5% would be considered resistant varieties or at least highly tolerant to foliar diseases. Values from 5–10% would be considered moderately susceptible. Values from 10–15% would be considered susceptible, and any variety with consistent severity ratings above 15% — especially around 25% — should be considered highly susceptible. These values, however, are just for generalizing the disease reaction of a variety and should not be thought of as set in stone. Values can and will vary for that variety from year to year.

Growers should pay attention to the varietal disease reactions over several years and base their preference for a particular variety on a running average, along with yield potential and their own farm history of foliar wheat diseases. Variety trials are conducted without any fungicide applications to allow for assessment of varietal performance based only on environmental growing conditions and varietal genetics. For the most part, wheat rusts were present at the majority of the locations, so rusts were the predominant disease rated. However, the additional diseases present throughout the variety trials, but not rated, included downy mildew, bacterial leaf streak, Fusarium head blight (scab), Barley yellow dwarf virus, smut, tan spot, Septoria leaf blotch, stem rust (three plants at one location), and Stagonospora leaf and glume blotch. We suggest that you contact your small-grain specialist or county agent to help in making variety decisions on your farm.

Table 17. Rust ratings from nine locations of wheat variety trials in Mississippi.¹

Variety	Beaumont		Brooksville		Cleveland		Hernando		Issaquena ²		Minter City ³		Newton		Raymond		Stoneville		
	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe	
GA-04570-10E46	.	.	0	0	0	0	0	0	0	0	0	0	.	.	0	0	0	0	3.75
GA-031257-10LE34	0	30	0	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	1.25
GA-031086-10E29	1	0	0	0	0	0	0	0	0	0	0	0	.	.	1.33	0	2.25	0	
25R32	31.5	0	0.5	0	0.25	1.25	0	0	0	0	0.25	0	25	0	19.25	0	11.5	0	
26R10	43.75	0	0	6.25	0.25	0	0	0	0	0	0	0	13	0	6.25	0	2.5	8.75	
26R20	25	0	0	6.25	0.25	0	0	0	0	0	0	0	13	0	6.25	0	2.5	8.75	
26R22	4.5	0	0	16.25	0	1	0	5	0	0	0	0	20	0	0.67	3.33	0	37.5	
26R87	2	0	0	0	1	1	0	0	0	0	0	0	.	.	0.25	3.75	5.5	0	
26R41	3.5	0	0	0	0	0	0	0	0	0	0	0	8.75	0	4	0	2	0	

Continued.

Table 17 (continued). Rust ratings from nine locations of wheat variety trials in Mississippi.¹

Variety	Beaumont		Brooksville		Cleveland		Hernando		Issaquena ²		Minter City ³		Newton		Raymond		Stoneville	
	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe
26R53	11.5	0	0.5	0	0.5	0	0	0	0	0	0.25	0	11	0	7	0	2.25	0
LA841	.	.	0	0	0	7.5	0	0	0	0	0	0	.	.	0.25	0	0.75	0
LA821	.	.	0	0	0	0	0	0	0	0	0	0	.	.	0	0	0.25	0
TV8525	17	0	0.25	0	0.5	0	0.25	0	0	0	0.25	0	15.33	0	5.5	0	3.5	0
TV8535	9.75	0	0	0	0.25	0	0	0	0	0	0	0	4	0	2.75	0	3.24	0
TV8848	38.75	0	0	0	0.5	0	0	0	0	0	0	0	40	0	12.75	0	4.5	0
TV8861	28.75	0	1.5	0	0.67	0	0	0	0	0	0	0	21.75	0	14.5	0	10.25	0
DB 620	20	0	0.75	0	0.33	0	0	0	0	0	0	0	19.25	0	7.5	0	6.25	0
DB 412	21.25	0	0.25	0	0.5	0	0	0	0	0	0.25	0	23	0	8	0	3	0
Exp 128	0.33	0	0.25	0	0	0	0	2.5	0	0	0	1.25	7	0	0.5	0	0.75	7
Exp 215	36.25	0	0.25	0	0.75	0.75	0.25	0	0	0	0	0	15	0	9.75	0	11	0
Exp 7880	12.25	0	0	0	0.75	3.75	0	0	0	0	0	0	11	0	12	0	6.75	36.25
Jamestown	.	.	0	0	0	0	0	0	0	0	0	0	.	.	0.33	0	5.25	0
VA 10-W119	6	0	0	0	.	30	.	2.75	.	0	.	0	.	.	0	0	0	20
DG 7000	1.25	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0.25	0	0.25	9
DG 7200	32.5	0	0	0	0.25	0	0	0	0	0	0	0	23.67	0	16	0	19	0
DG 9700	31.75	0	0.25	0	0.67	0	0	0	0	0	0.25	0	26.25	0	19.5	0	6.5	0
9553	7	0	0.75	0	.	.	.	.	.	.	.	.	.	.	2	0	9	0
Magnolia	.	.	0.5	0	1	0	0	0	0	0	0.25	0	.	.	24.33	0	7	0
Oakes	8	0.25	0	0	0	0	0	0.25	0	0	0	0	6	0	8.75	0	1.5	0
SY Harrison	18.25	0	0.5	0	1.25	0	0	0	0	0	0.25	0	15	0	10.75	0	6.75	0.5
Terral LA754	.	.	0	0	0	0	0	0	0	0	0	0	.	.	0.33	0	0.75	4.25
LA02015E201	.	.	0	0	0	0	0	0	0	0	0	0	.	.	0	0	0	0
LA03200E-2	.	.	0	0	0	0	0	0	0	0	0	0	.	.	2.33	0	1	0
DG 7300	27.5	0	0	0	1.25	0.25	0	0	0	0	0	0	26.67	0	38.75	1.25	13	0
DG 7500	20.25	0	0.5	0	1.33	0	0	0	0	0	0	0	17	0	15	0	3.75	0
Exp 1335	5.5	0	1.25	0	0.67	0	0	0	0	0	0	0	2.67	0	7	0	9	0
Exp 1340	40	0	3	0	0.33	1.67	0	0	0	0	0	0	19.25	0	30	0	8.75	0
413	7.25	0	0.75	0	0.67	0	0	0	0	0	0	0	4.5	2.5	6.5	0	4.5	0
415	20.75	0	0	0	0.5	0	0	0	0	0	0	0	9	0	1.5	0	7	0
XW11G	7.67	0	0	0	0.5	0	0	0	0	0	0	0	13.75	0	1	0	1.25	1.25
McAlister	7.5	0	0	0	0.5	0	0	0	0	0	0.25	0	11	0	3.25	0	2.75	0
Kelsey	11	0	0	0	0.5	0	0	0	0	0	0	0	22.5	0	1.75	0	2.75	0
Xtreme	21.5	0	0.5	0	1.25	2.5	0	0	0	0	0.25	0	28.75	0	16.5	0	5	0
DXEX13-3	17.75	0	0	0	0	2.67	0	0	0	0	0	0	26.25	0	1	0	2	0
9171	6.33	0	0	0	0.5	0	0	0	0	0	0	0	11.25	0	1.67	0	4.25	0
Baldwin	0	0	0.25	7.5	0	0	0	0	0	0	0	0	0	0	0.25	2.5	0	20
AGS 2060	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.25	1.25
AGS 2035	.	.	0	0	0.5	0	0	0	0	0	0	0	.	.	0	0	0	10.5
AGS 2026	10	10	0.25	0	0	0	0	0	0	0	0.25	0	.	.	0	0	0.5	0
AGS 2038	.	.	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0
AGS SR10705	4	0	0	0	0	3.75	0	1.5	0	0	0	0	3.75	0	0.25	0	0.25	4.25
USG 3555	6.25	0	0	0	0	0	0	0	0	0	0	0	.	.	0.33	0	0.75	0
USG 3201	5	0	0.25	0	0.75	0	0	0	0	0	0	0	.	.	0.75	0	4.5	0
USG 3251	20.5	0	0.5	0	3.25	0	0	0	0	0	0	0	19.25	0	5	0	2	0
USG 3438	10.5	0	0	0	1	0	0	0	0	0	0	0	13	0	4.5	0	1.5	0
USG 3120	.	.	0	0	.	.	.	.	.	.	.	.	.	.	0.5	0	0	13
USG 3838	0.5	0	0	0	0	0	0	0	0	0	0.5	0	4.75	0	1	0	1	0
USG 3523	25	0	0	0	1	0	0	0	0	0	0	0	22.5	0	18.25	0	8.25	0
RICHOCHET	16.5	0	0.25	0	1	0	0	0	0	0	0	0	11	0	0.75	0	2.5	0
RAMPAGE	36.25	0	0	0	0.5	12.5	0	0	0	0	0	0	15	0	20.5	0	7.75	0
ARX 1107	37.5	0	9.5	0	1	1	0	0	0	0	0	0	.	.	4	0	16.25	0
ARX 1206	0.25	0	0	0	1	0	0	0	0	0	0	0	11	0	1.5	0	0	0
ARX 1204	0.25	0	0	0	0	0	0	0	0	0	0	0	1	1.25	0	0	0.5	0
LCS 38686	30	0	0	0	0.33	1	0	0	0	0	0	0	10	0	8.5	0	4	17.5
DG 5000	25	0	0	0	.	.	.	.	.	.	.	.	.	.	5	0	15.5	0
P117	35	0	0	10	0	10	0	3.75	0	0	0	0	0	0	2	0	1.5	30
P125	21	0	3.75	0	.	.	.	.	.	.	.	.	.	.	3.5	0	4.5	0
P870	20.5	0	0	0	0.5	0	0	0	0	0	0	0	3	0	10.75	0	2.25	0
P357	45	0	0.25	0	3.5	0	0	0	0	0	0	0	.	.	33.33	0	12.5	0.25
P185	12.25	2.5	0	1.25	0.25	5	0.25	0.25	0	0	0	0	11	12.5	4.75	3.75	0.5	31.25
P308	18.5	0	0	0	0.67	0	0.25	0	0	0	0.25	0	20	0	3.5	0	6	2.5
PGX 12-3	17.5	0	0	0	0.25	0	0	0	0	0	0	0	9.25	0	1.75	0.5	1.25	0
PGX 12-10	37.5	0	0.75	0	5	0	0	0	0	0	0	0	.	.	24.25	0	26.5	0
PGX 12-12	33.33	0	0	0	0.5	0	0	0	0	0	0	0	17.5	0	8.5	0	3.25	7.5
LCS 38889	8.75	0	0	0	0.25	0	0	0	0	0	0	0	25	0	1.5	0	1.5	2.75
LCS 37696	5.25	11.25	0	10	0	20	0	3	0	0	0.25	0	5.67	0	3.25	13.33	12.5	31.25
LSD	17.79	3.33	2.85	6.67	2.76	4.55	0.2262	2.36	0	0	0.34	0.43	17.8	3.85	12.32	3.29	7.27	7.77
R ²	0.6494	0.6623	0.3182	0.2869	0.3319	0.7528	0.2387	0.2677	0	0	0.2393	0.2474	0.5792	0.4507	0.5938	0.4118	0.5528	0.7759
P	<0.0001	<0.0001	0.0262	0.1315	0.3951	<0.0001	0.5873	0.2754	0	0	0.7031	0.6196	<0.0001	0.0341	<0.0001	0.0003	<0.0001	<0.0001

¹Note: dots in cells indicate that plots were past maturity and not able to be rated or the particular variety was not rated at that location due to some other situation.

²The environment at the Issaquena location throughout the 2012–13 season was extremely dry, which meant that disease did not develop in the variety trial plots.

³The Minter City location received a fungicide as the farmer sprayed the rest of his wheat acres; however, the trial location was still rated to see how disease developed after the fungicide application.

WHEAT METRIBUZIN TOLERANCE

Metribuzin is an important herbicide for use in wheat and can control numerous weed species. However, wheat varieties differ in tolerance to metribuzin, and current varieties have not been evaluated for tolerance, particularly in the soft red winter wheat production area of the Midsouth.

Mississippi State University evaluated wheat varieties included in the 2013 MSU Wheat Variety Trials for tolerance to metribuzin. Wheat varieties were evaluated in a field research study at the R.R. Foil Plant Science Research Center at Mississippi State University (Starkville, Mississippi). The soil classification at this study location is a Stough fine sandy loam with a CEC of 6.6, soil pH of 6.0, and organic matter content of 0.72%.

Metribuzin (Sencor 75DF) was applied at a rate of 12 ounces per acre, which corresponds to 0.56 pound of active ingredient per acre. This rate is much higher than normal and was intended strictly for evaluation of her-

bicide tolerance. At the time of metribuzin application, wheat had four or more leaves, but it had not substantially initiated tillering (late Feekes growth stage 1).

Visual ratings of herbicide injury were taken 11, 28, and 59 days after herbicide application. Grain yield of metribuzin-treated and untreated plots of each wheat variety were also collected. Wheat variety sensitivity to metribuzin data are summarized according to classifications ranging from tolerant to susceptible (T = Tolerant, MT = Moderately Tolerant, MS = Moderately Susceptible, S = Susceptible). Variety sensitivity was based upon visual discoloration of foliage, vegetative stunting, stand reduction, and yield loss.

These results may help determine the potential for crop injury on different varieties when using the herbicide metribuzin. You should always follow all herbicide label instructions and use caution when using metribuzin.

Table 18. Wheat variety evaluation for metribuzin tolerance.

Brand	Variety	Metribuzin tolerance ¹
AgriMAXX	413	T
AgriMAXX	415	MT
AgriMAXX	Exp 1335	T
AgriMAXX	Exp 1340	T
AGS	AGS 2026	MS
AGS	AGS 2035	MT
AGS	AGS 2038	T
AGS	AGS 2060	S
AGS	AGS SR10705	MS
AGS	AGS 240	MS
ARMOR	ARX 1107	T
ARMOR	ARX 1204	T
ARMOR	ARX 1206	MS
ARMOR	RAMPAGE	MS
ARMOR	Ricochet	T
Delta Grow	DG 5000	S
Delta Grow	DG 7000	MS
Delta Grow	DG 7200	T
Delta Grow	DG 7300	MT
Delta Grow	DG 7500	T
Delta Grow	DG 9700	MT
Dixie	DXEX13-3	MS
Dixie	Kelsey	MS
Dixie	McAlister	T
Dixie	Xtreme	MT
Dixie Bell	DB 412	T
Dixie Bell	DB 620	MS
Dixie Bell	Exp 128	S
Dixie Bell	Exp 215	MT
Dixie Bell	Exp 7880	T
Dyna-Gro	9171	MT
Dyna-Gro	Baldwin	MT
Continued.		

Table 18 (continued). Wheat variety evaluation for metribuzin tolerance.

Brand	Variety	Metribuzin tolerance¹
Limagrain Cereal Seeds	LCS 37696	T
Limagrain Cereal Seeds	LCS 38686	T
Limagrain Cereal Seeds	LCS 38889	MS
Terral	LA754	T
LSU	LA03200E-2	MS
Pioneer	25R32	T
Pioneer	26R10	MT
Pioneer	26R20	T
Pioneer	26R22	MS
Pioneer	26R41	MT
Pioneer	26R53	T
Pioneer	26R87	T
Pioneer	XW11G	MT
Progeny	P117	MS
Progeny	P125	S
Progeny	P185	T
Progeny	P308	MS
Progeny	P357	MT
Progeny	P870	MT
Progeny	PGX 12-10	T
Progeny	PGX 12-12	S
Progeny	PGX 12-3	T
Syngenta	9553	MS
Syngenta	Magnolia	MT
Syngenta	Oakes	MT
Syngenta	SY Harrison	S
Terral	LA821	T
Terral	LA841	S
Terral	TV8525	T
Terral	TV8535	MS
Terral	TV8848	T
Terral	TV8861	T
Terral	LA754	T
University of Georgia	GA-031086-10E29	MS
University of Georgia	GA-031257-10LE34	T
University of Georgia	GA-04570-10E46	T
USG	USG 3120	T
USG	USG 3201	MT
USG	USG 3251	T
USG	USG 3438	T
USG	USG 3523	MS
USG	USG 3555	S
USG	USG 3838	MS
VA Tech	Jamestown	S
VA Tech	VA 10-W119	MT

¹Classification of variety sensitivity to metribuzin application: T = Tolerant, MT = Moderately Tolerant, MS = Moderately Susceptible, S = Susceptible

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