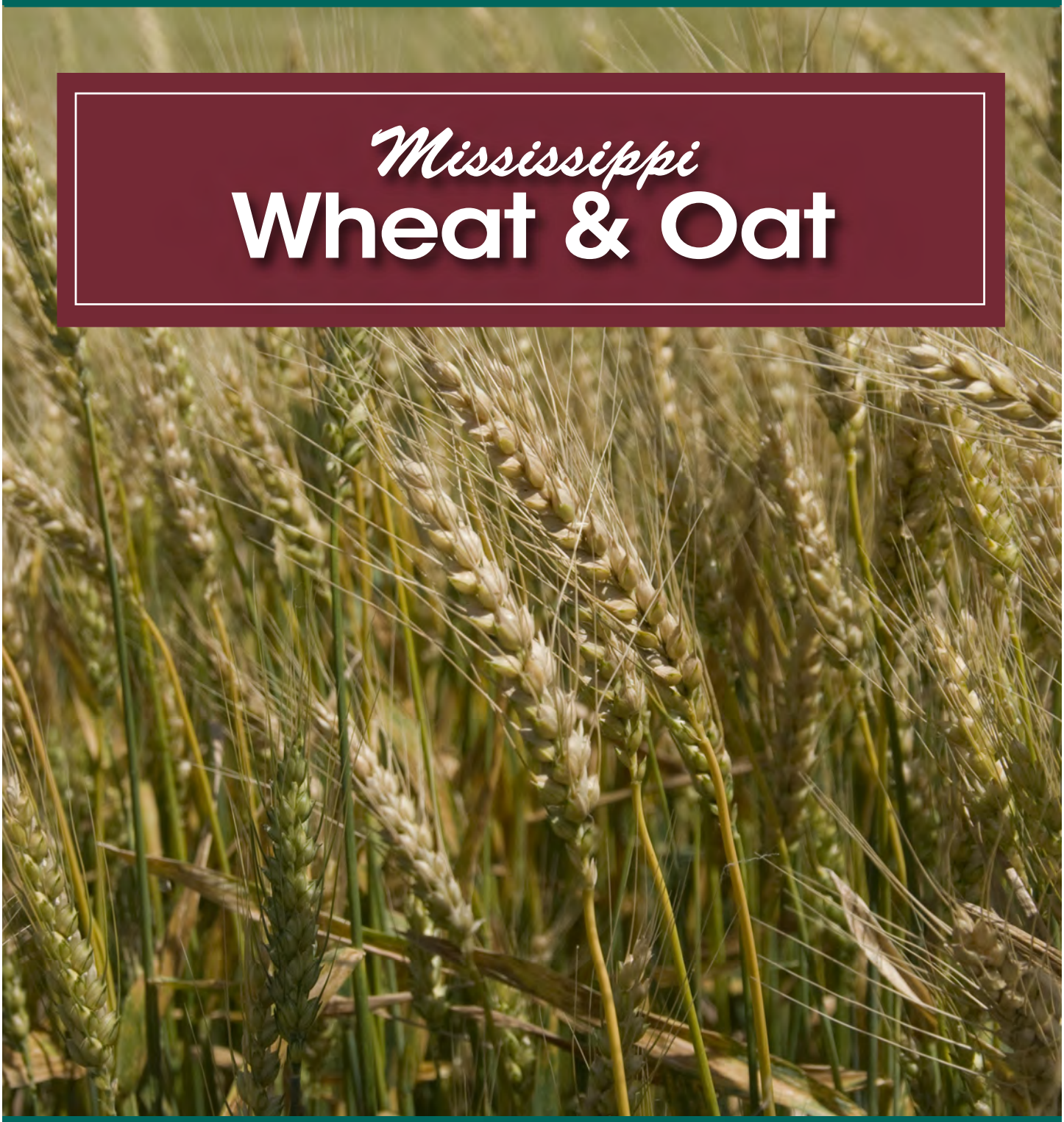
Information Bulletin 500 August 2015

Mississippi Wheat & Oat



VARIETY TRIALS, 2015

Mississippi's Official Variety Trials

MAFES

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This report contains data generated as part of the Mississippi Agricultural and Forestry Experiment Station research program. Joint sponsorship by the organizations listed on pages 4-5 is gratefully acknowledged.

Trade names of commercial products used in this report are included only for clarity and understanding. All available names (i.e., trade names, code numbers, chemical names, etc.) of varieties or products used in this research project are listed on pages 4-5.

Mississippi Wheat and Oat Variety Trials, 2015

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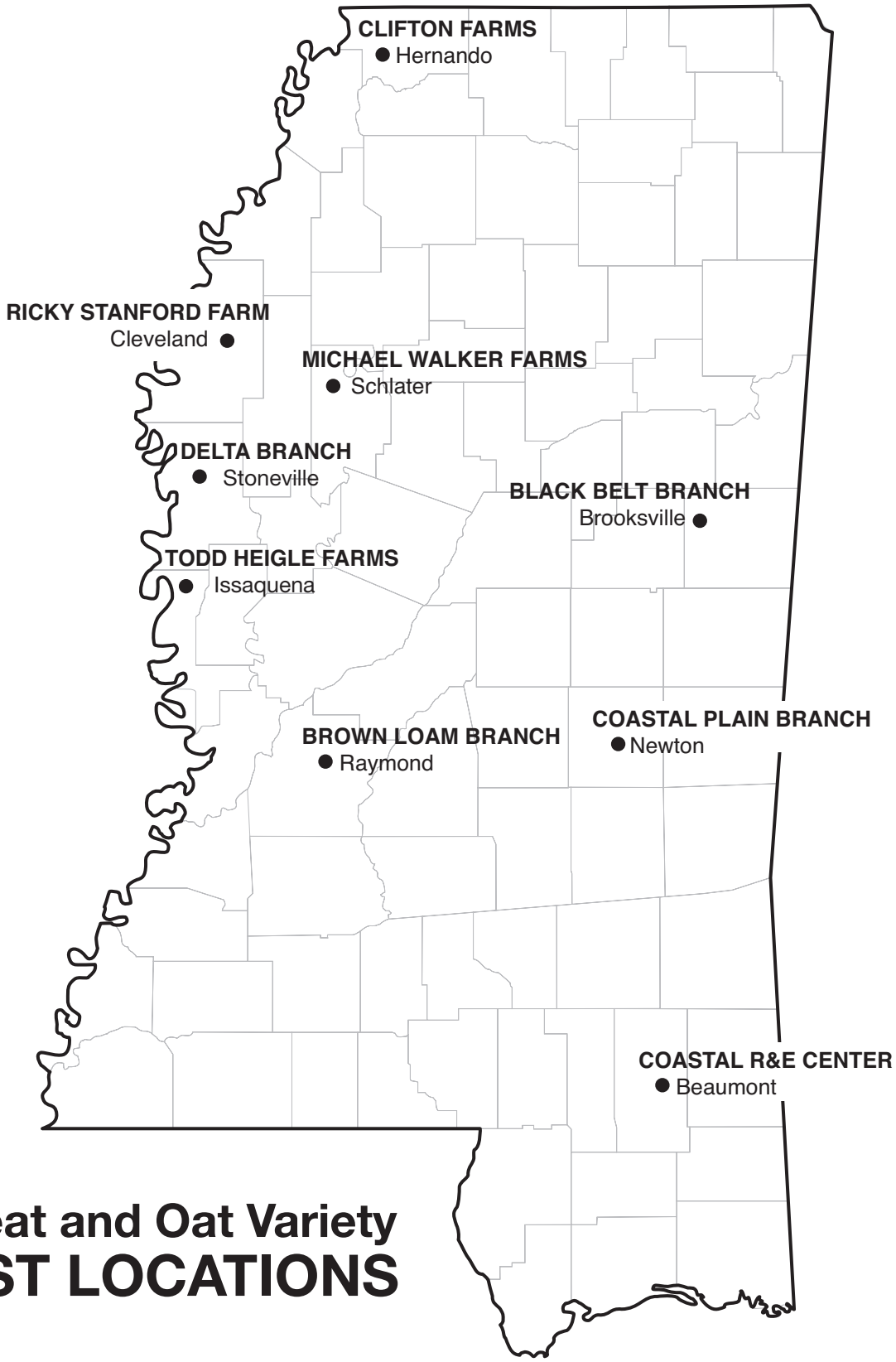

Wheat and Oat Variety
TEST LOCATIONS

Mississippi Wheat and Oat Variety Trials, 2015

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 five locations in Mississippi in 2014–2015. 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:
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.

Wheat and Oat Seed Sources

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 AgriMAXX AgriMAXX	413 415 444 446 447 Exp 1558	Vibrance Extreme
AgSouth Genetics P.O. Box 72246 Albany, GA 31708	AGS AGS	2038 2027	Vibrance/Senator
Armor Seed 183 S Pennsylvania Ave. Waldenburg, AR 72475	Armor Armor Armor Armor Armor Armor Armor Armor	Havoc Vandal Octane ARX 1418 ARX 1325 ARX 1332 ARX 1327 ARX 1415	Vibrance Extreme
B&S Seed Co., Inc. 1283 Hwy. 444 Duncan, MS 38740	Dixie Bell Dixie Bell Dixie Bell	DB 620 DB 500 Exp DB 7880	Cruiser
Cache River Valley Seed P.O. Box 10 Cash, AR 72421	Dixie Dixie Dixie Dixie Dixie	McAlister Extreme Kelsey DXEX 13-3 DXEX 15-1	Dividend Extreme
Delta Grow Seed P.O. Box 219 England, AR 72406	Delta Grow Delta Grow Delta Grow Delta Grow	7500 9700 1101 2700	Dividend Extreme
University of Georgia UGA-CAES-Griffin Campus 1109 Experiment St. Griffin, GA 30223	University of Georgia University of Georgia University of Georgia	GA-03564-12E6 GA-04417-12E33 GA-04434-12LE28	Dividend
Dyna-Gro Seed 6221 Riverside Drive, Suite One Dublin, OH 43017	Dyna-Gro Dyna-Gro Dyna-Gro Dyna-Gro	9171 9522 Baldwin Savoy	Foothold Extra
Louisiana State University SPESS 104 M.B. Sturgis Hall Baton Rouge, LA 70803	LSU LSU LSU LSU LSU LSU	LA3200E-2 LA01110D-150-625 LA01110D-150-241 LA08115C-30 LA9264C-P2 LANC8170-41-2	Vibrance + Maxim
Limagrain Cereal Seeds 257 E. Hail Bushnell, IL 61422	LCS LCS LCS	2564 3204 NEWS	Dividend Extreme Vibrance Extreme Cruiser
DuPont Pioneer 59 Greif Parkway, Suite 200 Delaware, OH 43015	Pioneer Pioneer Pioneer Pioneer Pioneer Pioneer Pioneer	26R10 26R87 26R41 26R53 XW13T XW13W 26R94	Vibrance Extreme + Gaucho

Continued.

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

Company	Brand	Variety	Seed Treatment
Progeny Ag Products 1529 Hwy. 193 South Wynne, AR 72396	Progeny Progeny Progeny Progeny Progeny Progeny Progeny Progeny Progeny	P125 P410 P870 P357 PGX 13-6 PGX 14-3 PGX 14-4 PGX 14-8 PGX 14-5	Evergol/Gaucho
Syngenta Seeds 806 North 2nd Street P.O. Box 30 Berthoud, CO 38018	Syngenta Syngenta Syngenta	SY Cypress SY Harrison SX 104	Vibrance Extreme & Cruiser
Terral Seed, Inc. 111 Ellington Dr. Rayville, LA 71269	Terral Terral Terral Terral	LA754 LA841 TV8861 TV8848	Dividend XL
E. Virginia Ag. Res. & Ext. Center 2229 Menokin Road Warsaw, VA 22572	VA Tech VA Tech	VA11W-106 Hillard	Provokest/Foothold/Storcide
UniSouth Genetics, Inc. 3205 C Hwy. 46 S Dickson, TN 37055	USG USG USG USG USG	3013 3404 3225 Exp 3756 3523	RaxilMD Extra/Gaucho
University of Arkansas	University of Arkansas University of Arkansas University of Arkansas	AR01040-4-1 ARGA04510-11LE24 AR00343-5-1	Vibrance Extreme & Gaucho
Stratton Seed Company P.O. Box 1088 Stuttgart, AR 72160	GW GW GW	2056 2057 2058	Cruiser Vibrance

Table 2. Companies supplying oat brands/varieties entered.

Company	Brand	Variety	Seed Treatment
Louisiana State University SPESS 104 M.B. Sturgis Hall Baton Rouge, LA 70803	LSU LSU LSU LSU LSU	LA07007-68 LA02065-88 LA07007-24 LA08084-15 LA06059-4-S1	Vibrance + Maxim
Plantation Seed P.O. Box 398 Newton, GA 39870	Horizon Horizon Horizon	201 270 306	Vibrance
Specialty Seeds P.O. Box 605 Brandon, MS 39043	TAMO TAMO	606 411	CruiserMaxx

Summaries of Wheat Yields

Table 3. 2014–15 yield summary of wheat variety trials in Mississippi.

Brand	Variety[1]	Brooks-ville	Hern-ando	North avg.	Beau-mont	Ray-mond	New-ton	South avg.	Issaquena County	Stone-ville	Delta avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriMAXX	413	34.3	80.6	57.5	45.0	63.2	53.7	54.0	49.7	37.7	43.7	52.0
AgriMAXX	415	34.2	83.0	58.6	42.8	56.2	50.5	49.8	60.5	41.2	50.8	52.6
AgriMAXX	444	39.2	95.0	67.1	37.1	51.2	50.4	46.2	50.0	41.6	45.8	52.0
AgriMAXX	446	33.7	83.6	58.6	48.4	59.5	60.1	56.0	48.4	42.4	45.4	53.7
AgriMAXX	447	33.3	86.1	59.7	42.6	66.0	48.9	52.5	44.5	46.3	45.4	52.5
AgriMAXX	*Exp 1558*	35.8	87.0	61.4	35.4	56.2	30.2	40.6	53.3	30.7	42.0	46.9
AGS	2027	30.7	62.9	46.8	28.9	23.7	35.2	29.3	28.6	23.8	26.2	33.4
AGS	2038	32.2	83.6	57.9	41.7	53.1	32.5	42.4	48.7	20.9	34.8	44.7
Armor	*ARX 1325*	45.0	90.0	67.5	41.0	55.1	55.2	50.4	58.8	41.8	50.3	55.3
Armor	*ARX 1327*	36.6	83.7	60.1	35.6	54.8	60.4	50.3	48.6	43.1	45.8	51.8
Armor	*ARX 1332*	40.8	82.6	61.7	44.0	63.1	57.7	54.9	42.9	37.4	40.2	52.6
Armor	*ARX 1415*	33.8	78.5	56.2	41.2	52.1	54.5	49.3	39.3	43.3	41.3	49.0
Armor	*ARX 1418*	37.7	87.5	62.6	42.4	61.3	39.3	47.7	53.4	35.6	44.5	51.0
Armor	Havoc	44.9	89.8	67.4	39.2	52.7	42.5	44.8	52.2	38.9	45.6	51.5
Armor	Octane	28.8	82.7	55.8	39.0	57.5	48.1	48.2	46.1	45.1	45.6	49.6
Armor	Vandal	33.0	84.6	58.8	34.3	42.8	45.3	40.8	45.6	35.6	40.6	45.9
Delta Grow	1101	38.1	78.2	58.2	29.0	57.1	48.5	44.9	43.3	38.7	41.0	47.6
Delta Grow	2700	35.3	82.4	58.9	35.5	52.6	57.0	48.4	42.3	42.4	42.4	49.7
Delta Grow	7500	34.8	72.7	53.8	39.2	56.5	46.2	47.3	35.2	36.3	35.7	45.8
Delta Grow	9700	33.6	91.4	62.5	33.0	50.8	48.6	44.1	38.4	43.2	40.8	48.4
Dixie	*DXEX 15-1*	34.7	88.3	61.5	34.4	52.1	56.6	47.7	42.9	44.4	43.6	50.5
Dixie	*DXEX13-3*	31.7	89.3	60.5	39.2	42.5	53.9	45.2	56.5	48.8	52.6	51.7
Dixie	Extreme	33.7	87.8	60.8	36.3	54.2	45.6	45.3	46.5	47.6	47.0	50.2
Dixie	Kelsey	36.4	71.3	53.9	36.5	57.8	49.1	47.8	48.7	38.5	43.6	48.4
Dixie	McAlister	40.9	87.9	64.4	43.8	60.3	49.1	51.1	54.0	38.0	46.0	53.4
Dixie Bell	*DB 500 Exp*	31.9	85.8	58.8	37.8	54.5	54.1	48.8	47.3	38.9	43.1	50.0
Dixie Bell	DB 620	42.4	81.1	61.8	39.6	47.2	56.8	47.9	47.6	42.1	44.9	51.0
Dixie Bell	DB 7880	37.0	68.7	52.9	32.3	53.6	44.2	43.4	41.6	42.1	41.9	45.7
Dyna-Gro	9522	32.3	80.7	56.5	34.3	52.8	52.8	46.6	46.8	42.6	44.7	48.9
Dyna-Gro	9171	40.6	83.5	62.0	40.6	63.8	52.7	52.4	52.2	36.0	44.1	52.8
Dyna-Gro	Baldwin	31.7	73.4	52.5	32.7	62.7	45.7	47.0	43.9	36.0	40.0	46.6
Dyna-Gro	Savoy	35.1	79.9	57.5	36.8	34.4	23.1	31.4	25.9	26.3	26.1	37.4
GW	2056	38.6	82.6	60.6	46.2	66.4	58.3	57.0	49.4	44.4	46.9	55.1
GW	2057	37.1	82.2	59.6	40.4	58.5	44.4	47.8	51.6	47.0	49.3	51.6
GW	2058	43.8	81.9	62.9	43.0	63.7	55.0	53.9	39.0	39.6	39.3	52.3
Limagrain Cereal Seeds	2564	38.9	80.7	59.8	36.9	50.9	53.2	47.0	41.1	36.4	38.7	48.3
Limagrain Cereal Seeds	3204	36.9	76.8	56.8	35.7	51.5	46.8	44.7	32.9	37.8	35.3	45.5
Limagrain Cereal Seeds	NEWS	41.7	80.8	61.3	43.4	57.5	45.6	48.8	39.8	39.4	39.6	49.7
Pioneer	26R10	35.2	86.4	60.8	28.9	40.1	57.0	42.0	43.2	42.7	42.9	47.6
Pioneer	26R41	34.8	72.0	53.4	45.8	64.6	60.1	56.9	53.8	42.0	47.9	53.3
Pioneer	26R53	40.9	80.5	60.7	36.7	57.2	50.7	48.2	43.5	40.7	42.1	50.0
Pioneer	26R87	36.7	81.2	59.0	34.9	51.5	44.7	43.7	39.2	21.7	30.4	44.3
Pioneer	26R94	29.3	80.0	54.6	37.2	48.3	39.5	41.7	37.0	26.0	31.5	42.5
Pioneer	XW13T	37.9	76.5	57.2	40.1	48.9	52.3	47.1	44.9	41.6	43.3	48.9
Pioneer	XW13W	38.3	89.9	64.1	40.3	64.2	57.7	54.1	47.0	47.1	47.1	54.9
Progeny	P125	35.3	74.0	54.6	27.6	39.0	36.5	34.3	41.8	25.8	33.8	40.0
Progeny	P357	33.7	77.4	55.6	25.7	35.7	46.0	35.8	43.3	35.3	39.3	42.4
Progeny	P410	38.4	75.6	57.0	42.4	52.3	46.8	47.2	43.0	38.0	40.5	48.1
Progeny	P870	39.3	74.3	56.8	38.8	62.8	54.2	52.0	47.7	42.7	45.2	51.4
Progeny	*PGX 13-6*	43.4	87.1	65.2	36.4	48.4	56.9	47.2	44.6	41.0	42.8	51.1
Progeny	*PGX 14-3*	38.8	81.6	60.2	33.0	43.7	52.3	43.0	48.6	26.8	37.7	46.4
Progeny	*PGX 14-4*	33.2	89.0	61.1	38.8	59.6	58.2	52.2	31.8	40.4	36.1	50.2
Progeny	*PGX 14-5*	41.5	69.2	55.3	39.1	51.4	46.9	45.8	35.2	42.4	38.8	46.5
Progeny	*PGX 14-8*	40.4	87.3	63.8	39.4	47.9	53.2	46.8	47.8	36.9	42.4	50.4
Public	*AR00343-5-1*	37.1	83.0	60.0	39.0	52.7	47.7	46.4	46.0	43.0	44.5	49.8
Public	*AR01040-4-1*	40.7	81.4	61.1	36.4	44.1	38.3	39.6	42.1	33.0	37.5	45.1
Public	*ARGA04510-11LE24*	40.0	86.1	63.0	39.7	42.7	44.0	42.1	43.2	33.8	38.5	47.1
Public	*GA-03564-12EG*	33.8	76.8	55.3	35.0	46.9	38.2	40.0	28.6	21.4	25.0	40.1

Continued.

Table 3 (continued). 2014–15 yield summary of wheat variety trials in Mississippi.

Brand	Variety[1]	Brooksville	Hernando	North avg.	Beaumont	Raymond	Newton	South avg.	Issaquena County	Stoneville	Delta avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Public	*GA-04417-12E33*	24.9	80.0	52.5	30.5	22.7	29.3	27.5	30.3	20.8	25.5	34.1
Public	*GA-04434-12LE28*	35.5	82.3	58.9	29.9	34.0	33.3	32.4	35.5	28.2	31.8	39.8
Public	*LA 01110D-150-241*	32.9	86.0	59.4	43.1	49.8	35.0	42.6	37.2	24.5	30.8	44.1
Public	*LA 01110D-150-625*	35.9	84.8	60.4	41.6	48.1	43.4	44.4	29.0	24.0	26.5	43.8
Public	*LA 08115C-30*	31.8	74.8	53.3	29.1	36.0	23.1	29.4	29.8	27.0	28.4	35.9
Public	*LA 3200E-2*	29.8	69.1	49.4	32.9	43.6	39.3	38.6	34.2	31.7	33.0	40.1
Public	*LA 9264C-P2*	32.0	72.5	52.2	40.3	36.5	46.2	41.0	22.9	20.9	21.9	38.7
Public	*LANC 8170-41-2*	27.3	71.0	49.1	33.5	41.9	36.9	37.4	37.8	23.1	30.4	38.8
Syngenta	*SX 104*	39.1	60.1	49.6	40.1	52.5	36.0	42.9	55.6	38.5	47.1	46.0
Syngenta	SY Cypress	35.4	82.0	58.7	30.6	39.4	33.4	34.5	35.4	31.1	33.3	41.1
Syngenta	SY Harrison	35.0	81.3	58.1	35.8	45.1	57.1	46.0	43.6	41.4	42.5	48.5
Terral	LA754	35.8	89.3	62.6	43.2	44.3	41.6	43.0	33.2	24.5	28.9	44.6
Terral	LA841	31.5	74.2	52.9	29.7	31.9	31.0	30.8	33.5	21.7	27.6	36.2
Terral	TV 8848	41.0	92.4	66.7	38.7	52.2	54.8	48.6	42.9	41.7	42.3	52.0
Terral	TV 8861	35.7	80.8	58.2	30.8	55.4	63.0	49.7	44.1	42.7	43.4	50.4
USG	3013	38.9	92.2	65.6	38.4	42.9	47.2	42.8	44.3	41.4	42.9	49.3
USG	3225	35.5	81.9	58.7	39.7	35.5	37.5	37.6	35.0	22.7	28.8	41.1
USG	3404	34.7	85.6	60.1	36.4	50.6	61.0	49.3	35.4	42.7	39.0	49.5
USG	3523	41.6	83.7	62.6	44.2	53.1	61.0	52.8	50.6	44.5	47.6	54.1
USG	*Exp 3756*	44.3	86.4	65.3	35.2	54.6	55.6	48.4	46.3	27.2	36.8	49.9
VA Tech	*VA11W-106*	34.7	81.9	58.3	41.7	52.5	43.8	46.0	48.5	42.7	45.6	49.4
VA Tech	*HILLIARD*	32.9	82.6	57.7	43.3	57.5	44.9	48.6	40.9	37.4	39.2	48.5
Mean		36.2	81.4	58.8	37.6	50.7	47.3	45.2	42.9	36.4	39.7	47.5
LSD		6.1	8.3		4.4	6.8	5.8		7.4	4.8		
Error df		237	237		237	237	237		237	237		
CV		14.5	8.8		10.1	11.6	10.5		14.7	11.3		
R^2		47	55.5		69.7	78.7	82.5		70.9	85.1		

[1]Variety in italics denotes an experimental entry.

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

Brand	Variety[1]	Brooksville	Hernando	North avg.	Beaumont	Raymond	South avg.	Issaquena County	Stoneville	Delta avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriMAXX	413	49.9	82.7	66.3	55.0	63.6	59.3	73.7	56.9	65.3	63.6
AgriMAXX	415	44.4	76.0	60.2	58.2	73.7	65.9	71.7	55.7	63.7	63.3
AgriMAXX	444	46.3	86.4	66.4	56.7	63.3	60.0	73.3	60.7	67.0	64.5
AgriMAXX	446	45.9	81.7	63.8	59.8	72.4	66.1	74.7	61.1	67.9	65.9
AgriMAXX	447	46.5	64.0	55.3	49.8	48.2	49.0	62.8	45.3	54.0	52.8
AGS	2038	45.8	75.8	60.8	51.1	62.8	56.9	71.8	50.1	61.0	59.6
Armor	*ARX 1325*	48.8	80.1	64.5	61.7	71.4	66.5	71.2	56.5	63.8	64.9
Armor	*ARX 1327*	40.0	84.3	62.1	54.9	69.0	61.9	65.9	57.2	61.5	61.9
Armor	*ARX 1332*	46.8	83.3	65.1	57.6	71.3	64.5	73.7	52.1	62.9	64.1
Armor	Havoc	40.6	78.2	59.4	55.8	66.4	61.1	72.2	52.9	62.5	61.0
Armor	Octane	46.6	74.0	60.3	50.1	66.6	58.3	68.7	51.5	60.1	59.6
Armor	Vandal	42.0	77.7	59.9	57.5	71.0	64.2	69.1	52.9	61.0	61.7
Delta Grow	7500	47.4	73.1	60.2	55.9	67.8	61.9	66.9	54.6	60.8	60.9
Delta Grow	9700	47.9	81.2	64.5	57.6	56.1	56.9	77.6	58.8	68.2	63.2
Dixie	*DXEX13-3*	43.8	71.7	57.7	51.8	67.9	59.8	70.2	55.3	62.7	60.1
Dixie	Extreme	50.3	87.0	68.7	54.3	69.2	61.8	78.3	51.9	65.1	65.2
Dixie	McAlister	46.0	68.3	57.1	56.0	62.1	59.1	66.7	56.3	61.5	59.2
Dixie Bell	DB 620	47.7	80.0	63.8	56.8	73.2	65.0	69.8	52.3	61.0	63.3
Dixie Bell	DB 7880	45.1	70.9	58.0	50.3	65.3	57.8	70.0	56.8	63.4	59.7
Dyna-Gro	9171	37.8	80.6	59.2	54.0	68.6	61.3	70.8	55.7	63.2	61.2
Dyna-Gro	Baldwin	51.7	80.7	66.2	58.4	68.3	63.3	72.4	50.6	61.5	63.7
Pioneer	26R10	46.7	85.3	66.0	51.9	70.1	61.0	72.1	51.0	61.6	62.9
Pioneer	26R41	46.0	77.1	61.5	53.6	66.3	60.0	66.8	46.7	56.8	59.4
Pioneer	26R53	47.5	76.9	62.2	58.3	65.3	61.8	71.1	46.5	58.8	60.9
Pioneer	26R87	43.3	69.5	56.4	54.9	65.8	60.3	69.6	47.3	58.5	58.4

Continued.

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

Brand	Variety[1]	Brooks-ville	Hern-ando	North avg.	Beau-mont	Ray-mond	South avg.	Issaquena County	Stone-ville	Delta avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Pioneer	26R94	45.3	89.4	67.4	56.0	74.8	65.4	68.6	55.4	62.0	64.9
Progeny	P125	47.0	73.7	60.3	58.1	62.1	60.1	67.2	49.8	58.5	59.6
Progeny	P357	39.3	71.9	55.6	52.0	63.3	57.7	69.9	56.9	63.4	58.9
Progeny	P870	50.1	73.8	61.9	52.0	63.5	57.7	67.1	49.5	58.3	59.3
Progeny	*PGX 13-6*	47.2	84.1	65.6	56.8	66.7	61.7	62.0	57.0	59.5	62.3
Public	*LA 3200E-2*	44.5	75.2	59.9	53.8	61.2	57.5	63.2	38.1	50.7	56.0
Syngenta	SY Harrison	47.5	76.3	61.9	54.0	56.2	55.1	68.2	42.7	55.4	57.5
Terral	LA754	48.7	85.3	67.0	54.3	67.1	60.7	69.5	53.0	61.3	63.0
Terral	LA841	46.0	67.5	56.7	54.6	61.4	58.0	64.4	46.8	55.6	56.8
Terral	TV 8848	46.7	86.9	66.8	55.9	62.1	59.0	66.6	55.8	61.2	62.3
Terral	TV 8861	47.2	80.5	63.9	56.3	57.4	56.9	65.1	49.5	57.3	59.4
USG	3404	49.4	83.8	66.6	53.1	66.3	59.7	74.4	50.2	62.3	62.9
USG	3523	43.1	80.5	61.8	60.4	65.6	63.0	71.0	60.2	65.6	63.5
Mean		46.0	78.3	62.1	55.2	65.6	60.4	69.7	52.7	61.2	61.2

[1]Variety in italics denotes an experimental entry.

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

Brand	Variety[1]	Brooks-ville	Hern-ando	North avg.	Beau-mont	Ray-mond	South avg.	Issaquena County	Stone-ville	Delta avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriMAXX	413	61.2	74.3	67.8	63.2	67.6	65.4	76.0	64.4	70.2	67.8
AgriMAXX	415	58.9	71.7	65.3	66.7	76.4	71.5	77.2	65.1	71.1	69.3
AGS	2038	61.7	69.7	65.7	61.6	61.4	61.5	72.8	60.9	66.9	64.7
Armor	*ARX 1332*	61.2	75.8	68.5	65.8	70.6	68.2	73.1	62.1	67.6	68.1
Armor	*ARX 1415*	36.9	49.1	43.0	39.8	41.3	40.5	38.9	39.7	39.3	40.9
Armor	*ARX 1418*	37.2	47.3	42.3	41.0	46.9	43.9	40.2	43.0	41.6	42.6
Armor	Havoc	55.7	70.1	62.9	61.7	65.0	63.4	75.8	59.8	67.8	64.7
Armor	Octane	59.5	69.0	64.2	58.6	67.2	62.9	66.4	59.6	63.0	63.4
Delta Grow	7500	58.2	71.7	65.0	62.1	67.7	64.9	69.9	61.3	65.6	65.2
Delta Grow	9700	62.7	76.0	69.3	64.7	63.5	64.1	79.7	65.5	72.6	68.7
Dixie	*DXEX13-3*	56.8	68.2	62.5	61.3	67.7	64.5	72.1	63.7	67.9	65.0
Dixie	McAlister	60.5	67.3	63.9	61.2	70.9	66.1	65.9	61.4	63.7	64.5
Dixie Bell	DB 620	61.9	75.5	68.7	60.2	70.8	65.5	71.7	57.1	64.4	66.2
Dixie Bell	DB 7880	56.7	63.7	60.2	58.5	70.6	64.6	72.7	62.9	67.8	64.2
Dyna-Gro	9171	52.9	75.2	64.0	62.9	71.6	67.2	72.4	64.1	68.2	66.5
Dyna-Gro	Baldwin	63.3	78.1	70.7	65.0	63.0	64.0	74.8	59.9	67.4	67.4
Pioneer	26R10	60.0	80.0	70.0	59.6	73.1	66.4	71.9	59.0	65.4	67.3
Pioneer	26R41	55.9	68.2	62.0	62.4	69.5	66.0	72.5	57.8	65.1	64.4
Pioneer	26R53	61.3	71.5	66.4	65.3	69.6	67.4	72.4	57.4	64.9	66.2
Pioneer	26R87	56.0	64.6	60.3	62.0	64.1	63.0	68.0	56.9	62.5	61.9
Progeny	P125	52.7	66.1	59.4	62.2	58.7	60.4	58.1	56.7	57.4	59.1
Progeny	P357	54.3	66.7	60.5	60.3	61.0	60.6	68.7	63.5	66.1	62.4
Progeny	P870	60.6	68.6	64.6	63.1	67.9	65.5	70.0	61.4	65.7	65.3
Public	*LA 3200E-2*	52.3	67.8	60.1	62.1	59.0	60.5	51.4	51.7	51.5	57.4
Syngenta	SY Harrison	58.4	72.4	65.4	60.9	58.9	59.9	67.6	53.4	60.5	61.9
Terral	LA841	51.3	62.7	57.0	58.5	54.2	56.3	67.4	53.2	60.3	57.9
Terral	TV 8848	57.5	77.0	67.2	64.3	63.6	64.0	73.3	64.2	68.8	66.7
Terral	TV 8861	59.6	73.7	66.6	63.0	58.8	60.9	67.1	58.4	62.8	63.4
USG	3523	56.0	72.6	64.3	67.6	67.1	67.3	72.9	67.5	70.2	67.3
Mean		56.6	69.5	63.0	60.9	64.4	62.6	68.3	59.0	63.7	63.1

[1]Variety in italics denotes an experimental entry.

MAFES Black Belt Branch, Brooksville

Crop Summary

The wheat and oat plots were planted into a conventionally tilled seedbed with good soil moisture. The plots quickly emerged to a good stand. Temperatures were below average during the early spring. Excessive rainfall kept the soil saturated for the majority of the spring. These saturated soil conditions resulted in below-average yields. Harvest was completed in a timely manner.

Planting date . . . . . October 31
Harvest date . . . . . June 5
Soil type . . . . . Brooksville silty clay
Soil pH 6.4
Soil fertility . . . . . P=M, K=M
Previous crop . . . . . Soybeans
Fertilizer added . . . . . Preplant — 9-23-30 @ 300 lb/A
Topdress — 46-0-0 (Urea) @ 200 lb/A on March 6

Table 6. Yields of 80 wheat varieties at MAFES Black Belt Branch, Brooksville (Brooksville silty clay soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Armor	*ARX 1325*	45.0	48.8	—	26	53	4/18	1	32
Armor	Havoc	44.9	40.6	55.7	25	54	4/19	1	33
USG	*Exp 3756*	44.3	—	—	29	55	4/17	1	34
GW	2058	43.8	—	—	26	52	4/17	1	27
Progeny	*PGX 13-6*	43.4	47.2	—	28	52	4/20	1	30
Dixie Bell	DB 620	42.4	47.7	61.9	28	53	4/17	1	31
Limagrain Cereal Seeds	NEWS	41.7	—	—	25	55	4/18	1	32
USG	3523	41.6	43.1	56.0	27	53	4/19	1	33
Progeny	*PGX 14-5*	41.5	—	—	25	57	4/17	1	39
Terral	TV 8848	41.0	46.7	57.5	27	51	4/18	1	32
Dixie	McAlister	40.9	46.0	60.5	25	53	4/18	1	30
Pioneer	26R53	40.9	47.5	61.3	25	55	4/18	1	31
Armor	*ARX 1332*	40.8	46.8	61.2	27	52	4/19	1	27
Public	*AR01040-4-1*	40.7	—	—	27	55	4/13	1	39
Dyna-Gro	9171	40.6	37.8	52.9	22	53	4/17	1	30
Progeny	*PGX 14-8*	40.4	—	—	24	50	4/18	1	30
Public	*ARGA04510-11LE24*	40.0	—	—	26	51	4/18	1	32
Progeny	P870	39.3	50.1	60.6	25	53	4/20	1	27
AgriMAXX	444	39.2	—	—	27	53	4/23	1	28
Syngenta	*SX 104*	39.1	—	—	31	54	4/16	1	39
USG	3013	38.9	—	—	25	51	4/18	1	34
Limagrain Cereal Seeds	2564	38.9	—	—	29	54	4/19	1	30
Progeny	*PGX 14-3*	38.8	—	—	30	55	4/18	1	29
GW	2056	38.6	—	—	23	52	4/17	1	29
Progeny	P410	38.4	—	—	28	53	4/20	1	32
Pioneer	XW13W	38.3	—	—	27	54	4/20	1	30
Delta Grow	1101	38.1	—	—	28	53	4/18	1	31
Pioneer	XW13T	37.9	—	—	27	54	4/19	1	29
Armor	*ARX 1418*	37.7	—	37.2	25	51	4/16	1	33
GW	2057	37.1	—	—	22	52	4/22	1	30
Public	*AR00343-5-1*	37.1	—	—	31	55	4/12	1	40
Dixie Bell	DB 7880	37.0	45.1	56.7	22	52	4/19	1	28
Limagrain Cereal Seeds	3204	36.9	—	—	29	58	4/16	1	39
Pioneer	26R87	36.7	43.3	56.0	42	58	4/18	1	36
Armor	*ARX 1327*	36.6	40.0	—	26	53	4/20	1	29
Dixie	Kelsey	36.4	—	—	28	55	4/19	1	31
Public	*LA 01110D-150-625*	35.9	—	—	38	55	4/12	1	36
Terral	LA754	35.8	48.7	—	35	53	4/13	1	36
AgriMAXX	*Exp 1558*	35.8	—	—	26	52	4/21	1	27
Terral	TV 8861	35.7	47.2	59.6	25	52	4/20	1	30
USG	3225	35.5	—	—	28	55	4/12	1	34
Public	*GA-04434-12LE28*	35.5	—	—	27	53	4/12	1	33
Syngenta	SY Cypress	35.4	—	—	32	56	4/10	1	33

Continued.

Table 6 (cont.). Yields of 80 wheat varieties at MAFES Black Belt Branch, Brooksville (Brooksville silty clay soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Delta Grow	2700	35.3	—	—	26	58	4/18	1	28
Progeny	P125	35.3	47.0	52.7	30	55	4/16	1	32
Pioneer	26R10	35.2	46.7	60.0	25	49	4/15	1	28
Dyna-Gro	Savoy	35.1	—	—	30	55	4/11	1	31
Syngenta	SY Harrison	35.0	47.5	58.4	26	52	4/18	1	32
Delta Grow	7500	34.8	47.4	58.2	24	55	4/19	1	29
Pioneer	26R41	34.8	46.0	55.9	27	52	4/18	1	29
VA Tech	*VA11W-106*	34.7	—	—	25	54	4/21	1	32
USG	3404	34.7	49.4	—	23	51	4/19	1	31
Dixie	*DXEX 15-1*	34.7	—	—	22	50	4/18	1	30
AgriMAXX	413	34.3	49.9	61.2	25	53	4/20	1	29
AgriMAXX	415	34.2	44.4	58.9	26	54	4/23	1	25
Armor	*ARX 1415*	33.8	—	36.9	25	51	4/22	1	29
Public	*GA-03564-12EG*	33.8	—	—	37	57	4/10	1	33
Progeny	P357	33.7	39.3	54.3	27	50	4/22	1	29
Dixie	Extreme	33.7	50.3	—	28	53	4/19	1	35
AgriMAXX	446	33.7	—	—	26	54	4/22	1	27
Delta Grow	9700	33.6	47.9	62.7	24	51	4/24	1	27
AgriMAXX	447	33.3	46.5	—	27	53	4/22	1	28
Progeny	*PGX 14-4*	33.2	—	—	25	54	4/19	1	26
Armor	Vandal	33.0	42.0	—	33	54	4/18	1	29
Public	*LA 01110D-150-241*	32.9	—	—	36	54	4/12	1	35
VA Tech	*Hillard*	32.9	—	—	26	55	4/22	1	35
Dyna-Gro	9522	32.3	—	—	24	52	4/19	1	31
AGS	2038	32.2	45.8	61.7	25	55	4/20	1	37
Public	*LA 9264C-P2*	32.0	—	—	39	57	4/11	1	34
Dixie Bell	*DB 500 Exp*	31.9	—	—	26	53	4/20	1	33
Public	*LA 08115C-30*	31.8	—	—	26	55	4/12	1	33
Dixie	*DXEX13-3*	31.7	43.8	56.8	26	49	4/19	1	35
Dyna-Gro	Baldwin	31.7	51.7	63.3	28	54	4/18	1	40
Terral	LA841	31.5	46.0	51.3	25	49	4/14	1	30
AGS	2027	30.7	—	—	33	54	4/13	1	35
Public	*LA 3200E-2*	29.8	44.5	52.3	35	55	4/11	1	37
Pioneer	26R94	29.3	45.3	—	28	57	4/12	1	30
Armor	Octane	28.8	46.6	59.5	23	51	4/23	1	33
Public	*LANC 8170-41-2*	27.3	—	—	28	56	4/16	1	28
Public	*GA-04417-12E33*	24.9	—	—	31	55	4/12	1	32
Mean		36.2							
LSD		6.1							
Error df		237							
CV		14.5							
R^2		47							

[1]Variety in italics denotes an experimental entry.

MSU Coastal R&E Center, Beaumont

Crop Summary

The wheat plots were planted into a seedbed that was prepared using conventional tillage techniques. All plots emerged to a good stand soon after planting. Frequent rainfall throughout the spring resulted in saturated soil conditions, which resulted in yields that were below average for this location. Harvest was completed in a timely manner.

Planting date . . . . . **November 4**
Harvest date . . . . . **June 3**
Soil type . . . . . **McLaurin sandy loam**
Soil pH **6.3**
Soil fertility . . . . . **P=H, K=H**
Previous crop . . . . . **Soybeans**
Fertilizer added . . . . . **Preplant — 13-13-13 @ 200 lb/A**
Topdress — Ammonium nitrate (33-0-0) @ 100 lb/A on March 9; Ammonium nitrate (33-0-0) @ 300 lb/A on March 25
Herbicide application . . . . **Axial XL @ 16.4 oz/A and Harmony Extra @ 0.9 oz/A on March 17**

Table 7. Yields of 80 wheat varieties at MSU Coastal R&E Center, Beaumont (McLaurin sandy loam).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
AgriMAXX	446	48.4	—	—	—	—	4/8	3	34
GW	2056	46.2	—	—	—	—	4/7	3	32
Pioneer	26R41	45.8	53.6	62.4	—	—	4/7	3	36
AgriMAXX	413	45.0	55.0	63.2	—	—	4/6	3	39
USG	3523	44.2	60.4	67.6	—	—	4/7	4	33
Armor	*ARX 1332*	44.0	57.6	65.8	—	—	4/7	4	34
Dixie	McAlister	43.8	56.0	61.2	—	—	4/6	4	35
Limagrain Cereal Seeds	NEWS	43.4	—	—	—	—	4/5	4	38
VA Tech	*Hillard*	43.3	—	—	—	—	4/3	3	40
Terral	LA754	43.2	54.3	—	—	—	3/31	4	40
Public	*LA 01110D-150-241*	43.1	—	—	—	—	4/2	3	37
GW	2058	43.0	—	—	—	—	4/7	3	34
AgriMAXX	415	42.8	58.2	66.7	—	—	4/7	3	36
AgriMAXX	447	42.6	49.8	—	—	—	4/8	2	38
Progeny	P410	42.4	—	—	—	—	4/2	4	35
Armor	*ARX 1418*	42.4	—	41.0	—	—	4/5	3	39
AGS	2038	41.7	51.1	61.6	—	—	3/31	3	43
VA Tech	*VA11W-106*	41.7	—	—	—	—	4/3	3	40
Public	*LA 01110D-150-625*	41.6	—	—	—	—	3/30	4	41
Armor	*ARX 1415*	41.2	—	39.8	—	—	4/10	3	31
Armor	*ARX 1325*	41.0	61.7	—	—	—	4/8	3	31
Dyna-Gro	9171	40.6	54.0	62.9	—	—	4/7	3	36
GW	2057	40.4	—	—	—	—	4/10	4	30
Pioneer	XW13W	40.3	—	—	—	—	4/8	4	36
Public	*LA 9264C-P2*	40.3	—	—	—	—	3/26	3	40
Syngenta	*SX 104*	40.1	—	—	—	—	4/5	3	40
Pioneer	XW13T	40.1	—	—	—	—	4/7	3	36
USG	3225	39.7	—	—	—	—	4/2	5	34
Public	*ARGA04510-11LE24*	39.7	—	—	—	—	4/5	4	38
Dixie Bell	DB 620	39.6	56.8	60.2	—	—	4/7	4	34
Progeny	*PGX 14-8*	39.4	—	—	—	—	4/7	3	36
Delta Grow	7500	39.2	55.9	62.1	—	—	4/6	4	44
Dixie	*DXEX13-3*	39.2	51.8	61.3	—	—	4/10	4	35
Armor	Havoc	39.2	55.8	61.7	—	—	4/6	3	37
Progeny	*PGX 14-5*	39.1	—	—	—	—	4/7	4	36
Public	*AR00343-5-1*	39.0	—	—	—	—	4/2	4	41
Armor	Octane	39.0	50.1	58.6	—	—	4/7	4	37
Progeny	P870	38.8	52.0	63.1	—	—	4/7	4	33
Progeny	*PGX 14-4*	38.8	—	—	—	—	4/8	4	33
Terral	TV 8848	38.7	55.9	64.3	—	—	4/8	5	34

Continued.

Table 7 (cont.). Yields of 80 wheat varieties at MSU Coastal R&E Center, Beaumont (McLaurin sandy loam).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
USG	3013	38.4	—	—	—	—	4/7	4	32
Dixie Bell	*DB 500 Exp*	37.8	—	—	—	—	4/8	4	42
Pioneer	26R94	37.2	56.0	—	—	—	3/27	4	36
AgriMAXX	444	37.1	—	—	—	—	4/7	4	35
Limagrain Cereal Seeds	2564	36.9	—	—	—	—	4/7	2	40
Dyna-Gro	Savoy	36.8	—	—	—	—	3/24	2	38
Pioneer	26R53	36.7	58.3	65.3	—	—	4/6	3	35
Dixie	Kelsey	36.5	—	—	—	—	4/8	3	34
USG	3404	36.4	53.1	—	—	—	4/8	4	33
Progeny	*PGX 13-6*	36.4	56.8	—	—	—	4/7	4	35
Public	*AR01040-4-1*	36.4	—	—	—	—	4/1	4	40
Dixie	Extreme	36.3	54.3	—	—	—	4/7	4	40
Syngenta	SY Harrison	35.8	54.0	60.9	—	—	4/7	3	37
Limagrain Cereal Seeds	3204	35.7	—	—	—	—	4/6	3	38
Armor	*ARX 1327*	35.6	54.9	—	—	—	4/9	3	34
Delta Grow	2700	35.5	—	—	—	—	4/8	4	34
AgriMAXX	*Exp 1558*	35.4	—	—	—	—	4/5	4	40
USG	*Exp 3756*	35.2	—	—	—	—	4/6	4	33
Public	*GA-03564-12EG*	35.0	—	—	—	—	4/2	1	34
Pioneer	26R87	34.9	54.9	62.0	—	—	4/2	3	40
Dixie	*DXEX 15-1*	34.4	—	—	—	—	4/8	4	36
Armor	Vandal	34.3	57.5	—	—	—	4/6	3	39
Dyna-Gro	9522	34.3	—	—	—	—	4/8	3	34
Public	*LANC 8170-41-2*	33.5	—	—	—	—	3/31	4	41
Progeny	*PGX 14-3*	33.0	—	—	—	—	4/6	4	33
Delta Grow	9700	33.0	57.6	64.7	—	—	4/8	4	42
Public	*LA 3200E-2*	32.9	53.8	62.1	—	—	3/30	4	34
Dyna-Gro	Baldwin	32.7	58.4	65.0	—	—	4/2	3	44
Dixie Bell	DB 7880	32.3	50.3	58.5	—	—	4/8	5	36
Terral	TV 8861	30.8	56.3	63.0	—	—	4/7	4	37
Syngenta	SY Cypress	30.6	—	—	—	—	3/27	2	36
Public	*GA-04417-12E33*	30.5	—	—	—	—	4/2	2	35
Public	*GA-04434-12LE28*	29.9	—	—	—	—	3/30	2	34
Terral	LA841	29.7	54.6	58.5	—	—	3/30	5	37
Public	*LA 08115C-30*	29.1	—	—	—	—	3/27	3	38
Delta Grow	1101	29.0	—	—	—	—	4/9	5	36
AGS	2027	28.9	—	—	—	—	4/3	3	37
Pioneer	26R10	28.9	51.9	59.6	—	—	4/8	4	37
Progeny	P125	27.6	58.1	62.2	—	—	3/31	2	41
Progeny	P357	25.7	52.0	60.3	—	—	4/7	4	36
Mean		37.6							
LSD		4.4							
Error df		237							
CV		10.1							
R^2		69.7							

[1]Variety in italics denotes an experimental entry.

Todd Heigle Farms, Issaquena County

Crop Summary

All wheat plots were planted in late October following the previous corn crop. The plots quickly emerged to a good stand. Above-average rainfall during the late winter and early spring resulted in persistent saturated soil conditions. This moisture resulted in yields that were below average for this location. Harvest was completed in a timely manner.

Planting date . . . . . October 28
Harvest date . . . . . June 9
Soil type . . . . . Sharkey mixed clay loam
Soil pH 6.0
Soil fertility . . . . . P=H, K=H
Previous crop . . . . . Corn
Fertilizer added . . . . . Ammonium sulfate (21-0-0-24S) @ 100 lb/A, Urea (46-0-0) @ 100 lb/A, and Urea (46-0-0) @ 100 lb/A
Fungicide application . . . . Prosaro @ 6.5 oz/A
Herbicide application . . . . Axial XL @ 16.4 oz/A

Table 8. Yields of 80 wheat varieties at Todd Heigle Farms, Issaquena County (Sharkey mixed clay loam soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
AgriMAXX	415	60.5	71.7	77.2	—	—	4/6	1	31
Armor	*ARX 1325*	58.8	71.2	—	—	—	4/13	1	29
Dixie	*DXEX13-3*	56.5	70.2	72.1	—	—	4/6	1	34
Syngenta	*SX 104*	55.6	—	—	—	—	3/30	1	30
Dixie	McAlister	54.0	66.7	65.9	—	—	4/6	1	30
Pioneer	26R41	53.8	66.8	72.5	—	—	4/6	1	33
Armor	*ARX 1418*	53.4	—	40.2	—	—	4/6	1	34
AgriMAXX	*Exp 1558*	53.3	—	—	—	—	4/6	1	28
Armor	Havoc	52.2	72.2	75.8	—	—	4/6	1	27
Dyna-Gro	9171	52.2	70.8	72.4	—	—	4/13	1	29
GW	2057	51.6	—	—	—	—	4/6	1	27
USG	3523	50.6	71.0	72.9	—	—	4/6	1	31
AgriMAXX	444	50.0	—	—	—	—	4/13	1	32
AgriMAXX	413	49.7	73.7	76.0	—	—	4/6	1	29
GW	2056	49.4	—	—	—	—	4/6	1	32
AGS	2038	48.7	71.8	72.8	—	—	4/13	1	34
Dixie	Kelsey	48.7	—	—	—	—	4/6	1	26
Progeny	*PGX 14-3*	48.6	—	—	—	—	4/6	1	32
Armor	*ARX 1327*	48.6	65.9	—	—	—	4/13	1	29
VA Tech	*VA11W-106*	48.5	—	—	—	—	4/6	1	29
AgriMAXX	446	48.4	—	—	—	—	4/6	1	29
Progeny	*PGX 14-8*	47.8	—	—	—	—	4/13	1	31
Progeny	P870	47.7	67.1	70.0	—	—	4/6	1	31
Dixie Bell	DB 620	47.6	69.8	71.7	—	—	4/13	1	32
Dixie Bell	*DB 500 Exp*	47.3	—	—	—	—	4/13	1	32
Pioneer	XW13W	47.0	—	—	—	—	4/13	1	29
Dyna-Gro	9522	46.8	—	—	—	—	4/13	1	29
Dixie	Extreme	46.5	78.3	—	—	—	4/6	1	32
USG	*Exp 3756*	46.3	—	—	—	—	4/6	1	29
Armor	Octane	46.1	68.7	66.4	—	—	4/13	1	31
Public	*AR00343-5-1*	46.0	—	—	—	—	4/6	1	26
Armor	Vandal	45.6	69.1	—	—	—	4/13	1	30
Pioneer	XW13T	44.9	—	—	—	—	4/13	1	26
Progeny	*PGX 13-6*	44.6	62.0	—	—	—	4/13	1	29
AgriMAXX	447	44.5	62.8	—	—	—	4/6	1	31
USG	3013	44.3	—	—	—	—	3/30	1	28
Terral	TV 8861	44.1	65.1	67.1	—	—	4/13	1	28
Dyna-Gro	Baldwin	43.9	72.4	74.8	—	—	4/6	1	32
Syngenta	SY Harrison	43.6	68.2	67.6	—	—	4/6	1	29
Pioneer	26R53	43.5	71.1	72.4	—	—	4/6	1	27
Delta Grow	1101	43.3	—	—	—	—	4/6	1	31

Continued.

Table 8 (cont.). Yields of 80 wheat varieties at Todd Heigle Farms, Issaquena County (Sharkey mixed clay loam soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Progeny	P357	43.3	69.9	68.7	—	—	4/6	1	31
Public	*ARGA04510-11LE24*	43.2	—	—	—	—	4/13	1	33
Pioneer	26R10	43.2	72.1	71.9	—	—	4/6	1	30
Progeny	P410	43.0	—	—	—	—	4/6	1	30
Armor	*ARX 1332*	42.9	73.7	73.1	—	—	4/13	1	30
Terral	TV 8848	42.9	66.6	73.3	—	—	4/6	1	26
Dixie	*DXEX 15-1*	42.9	—	—	—	—	4/6	1	31
Delta Grow	2700	42.3	—	—	—	—	3/30	1	25
Public	*AR01040-4-1*	42.1	—	—	—	—	4/6	1	29
Progeny	P125	41.8	67.2	58.1	—	—	4/13	1	36
Dixie Bell	DB 7880	41.6	70.0	72.7	—	—	4/13	1	31
Limagrain Cereal Seeds	2564	41.1	—	—	—	—	4/6	1	29
VA Tech	*Hillard*	40.9	—	—	—	—	4/6	1	29
Limagrain Cereal Seeds	NEWS	39.8	—	—	—	—	4/6	1	30
Armor	*ARX 1415*	39.3	—	38.9	—	—	4/13	1	28
Pioneer	26R87	39.2	69.6	68.0	—	—	4/6	1	27
GW	2058	39.0	—	—	—	—	4/6	1	26
Delta Grow	9700	38.4	77.6	79.7	—	—	4/13	1	32
Public	*LANC 8170-41-2*	37.8	—	—	—	—	4/13	1	27
Public	*LA 01110D-150-241*	37.2	—	—	—	—	4/13	1	26
Pioneer	26R94	37.0	68.6	—	—	—	4/6	1	31
Public	*GA-04434-12LE28*	35.5	—	—	—	—	4/6	1	29
Syngenta	SY Cypress	35.4	—	—	—	—	4/6	1	23
USG	3404	35.4	74.4	—	—	—	4/6	1	29
Progeny	*PGX 14-5*	35.2	—	—	—	—	4/13	1	30
Delta Grow	7500	35.2	66.9	69.9	—	—	4/6	1	28
USG	3225	35.0	—	—	—	—	4/6	1	27
Public	*LA 3200E-2*	34.2	63.2	51.4	—	—	4/13	1	27
Terral	LA841	33.5	64.4	67.4	—	—	4/6	1	28
Terral	LA754	33.2	69.5	—	—	—	4/6	1	28
Limagrain Cereal Seeds	3204	32.9	—	—	—	—	4/6	1	26
Progeny	*PGX 14-4*	31.8	—	—	—	—	4/13	1	28
Public	*GA-04417-12E33*	30.3	—	—	—	—	4/6	1	28
Public	*LA 08115C-30*	29.8	—	—	—	—	4/6	1	25
Public	*LA 01110D-150-625*	29.0	—	—	—	—	4/13	1	32
AGS	2027	28.6	—	—	—	—	4/6	1	23
Public	*GA-03564-12EG*	28.6	—	—	—	—	3/30	1	26
Dyna-Gro	Savoy	25.9	—	—	—	—	4/13	1	31
Public	*LA 9264C-P2*	22.9	—	—	—	—	4/13	1	26
Mean		42.9							
LSD		7.4							
Error df		237							
CV		14.7							
R^2		70.9							

[1]Variety in italics denotes an experimental entry.

Clifton Farms, Hernando

Crop Summary

Soil conditions at planting were ideal for germination. The wheat plots came up quickly and grew off well before winter. Spring green-up was delayed by a cool, wet spring. Harvest was completed in a timely manner, and good yields were observed.

Planting date . . . . . November 5
Harvest date . . . . . June 16
Soil type . . . . . Collins silt loam soil
Soil pH 5.8
Soil fertility . . . . . P=M, K=M
Previous crop . . . . . Soybeans
Fertilizer added . . . . . 28-0-0-5S @ 13 gal/A on March 24; 32-0-0 @ 15 gal/A on April 3
Herbicide application . . . Axial XL @ 16.4 oz/A and Harmony @ 0.5 oz/A on March 31

Table 9. Yields of 80 wheat varieties at Clifton Farms, Hernando (Collins silt loam soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
AgriMAXX	444	95.0	—	—	—	—	4/24	1	33
Terral	TV 8848	92.4	86.9	77.0	—	—	4/20	1	29
USG	3013	92.2	—	—	—	—	4/20	1	32
Delta Grow	9700	91.4	81.2	76.0	—	—	4/20	1	31
Armor	*ARX 1325*	90.0	80.1	—	—	—	4/20	1	29
Pioneer	XW13W	89.9	—	—	—	—	4/20	1	29
Armor	Havoc	89.8	78.2	70.1	—	—	4/20	1	30
Dixie	*DXEX13-3*	89.3	71.7	68.2	—	—	4/24	1	32
Terral	LA754	89.3	85.3	—	—	—	4/16	1	30
Progeny	*PGX 14-4*	89.0	—	—	—	—	4/20	1	30
Dixie	*DXEX 15-1*	88.3	—	—	—	—	4/20	1	29
Dixie	McAlister	87.9	68.3	67.3	—	—	4/20	1	26
Dixie	Extreme	87.8	87.0	—	—	—	4/20	1	32
Armor	*ARX 1418*	87.5	—	47.3	—	—	4/20	1	32
Progeny	*PGX 14-8*	87.3	—	—	—	—	4/20	1	30
Progeny	*PGX 13-6*	87.1	84.1	—	—	—	4/24	1	31
AgriMAXX	*Exp 1558*	87.0	—	—	—	—	4/20	1	32
Pioneer	26R10	86.4	85.3	80.0	—	—	4/20	1	31
USG	*Exp 3756*	86.4	—	—	—	—	4/20	1	29
AgriMAXX	*447*	86.1	64.0	—	—	—	4/20	1	32
Public	*ARGA04510-11LE24*	86.1	—	—	—	—	4/20	1	29
Public	*LA 01110D-150-241*	86.0	—	—	—	—	4/16	1	31
Dixie Bell	*DB 500 Exp*	85.8	—	—	—	—	4/24	1	30
USG	3404	85.6	83.8	—	—	—	4/24	1	32
Public	*LA 01110D-150-625*	84.8	—	—	—	—	4/16	1	31
Armor	Vandal	84.6	77.7	—	—	—	4/20	1	29
USG	3523	83.7	80.5	72.6	—	—	4/20	1	29
Armor	*ARX 1327*	83.7	84.3	—	—	—	4/24	1	31
AgriMAXX	446	83.6	—	—	—	—	4/20	1	30
AGS	2038	83.6	75.8	69.7	—	—	4/20	1	35
Dyna-Gro	9171	83.5	80.6	75.2	—	—	4/20	1	28
Public	*AR00343-5-1*	83.0	—	—	—	—	4/24	1	32
AgriMAXX	415	83.0	76.0	71.7	—	—	4/20	1	32
Armor	Octane	82.7	74.0	69.0	—	—	4/20	1	32
GW	2056	82.6	—	—	—	—	4/20	1	28
VA Tech	*Hillard*	82.6	—	—	—	—	4/20	1	30
Armor	*ARX 1332*	82.6	83.3	75.8	—	—	4/20	1	28
Delta Grow	2700	82.4	—	—	—	—	4/20	1	32
Public	*GA-04434-12LE28*	82.3	—	—	—	—	4/20	1	28
GW	2057	82.2	—	—	—	—	4/20	1	28
Syngenta	SY Cypress	82.0	—	—	—	—	4/13	1	27
GW	2058	81.9	—	—	—	—	4/20	1	27
VA Tech	*VA11W-106*	81.9	—	—	—	—	4/20	1	29
USG	3225	81.9	—	—	—	—	4/16	1	29

Continued.

Table 9 (cont.). Yields of 80 wheat varieties at Clifton Farms, Hernando (Collins silt loam soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Progeny	*PGX 14-3*	81.6	—	—	—	—	4/20	1	31
Public	*AR01040-4-1*	81.4	—	—	—	—	4/24	1	36
Syngenta	SY Harrison	81.3	76.3	72.4	—	—	4/20	1	29
Pioneer	26R87	81.2	69.5	64.6	—	—	4/13	1	31
Dixie Bell	DB 620	81.1	80.0	75.5	—	—	4/20	1	29
Terral	TV 8861	80.8	80.5	73.7	—	—	4/24	1	29
Limagrain Cereal Seeds	NEWS	80.8	—	—	—	—	4/20	1	32
Dyna-Gro	9522	80.7	—	—	—	—	4/24	1	30
Limagrain Cereal Seeds	2564	80.7	—	—	—	—	4/20	1	31
AgriMAXX	413	80.6	82.7	74.3	—	—	4/20	1	29
Pioneer	26R53	80.5	76.9	71.5	—	—	4/24	1	26
Public	*GA-04417-12E33*	80.0	—	—	—	—	4/16	1	32
Pioneer	26R94	80.0	89.4	—	—	—	4/24	1	36
Dyna-Gro	Savoy	79.9	—	—	—	—	4/13	1	31
Armor	*ARX 1415*	78.5	—	49.1	—	—	4/24	1	28
Delta Grow	1101	78.2	—	—	—	—	4/20	1	32
Progeny	P357	77.4	71.9	66.7	—	—	4/20	1	27
Limagrain Cereal Seeds	3204	76.8	—	—	—	—	4/20	1	30
Public	*GA-03564-12EG*	76.8	—	—	—	—	4/13	1	27
Pioneer	XW13T	76.5	—	—	—	—	4/20	1	27
Progeny	P410	75.6	—	—	—	—	4/16	1	33
Public	*LA 08115C-30*	74.8	—	—	—	—	4/13	1	30
Progeny	P870	74.3	73.8	68.6	—	—	4/20	1	28
Terral	LA841	74.2	67.5	62.7	—	—	4/16	1	30
Progeny	P125	74.0	73.7	66.1	—	—	4/16	1	32
Dyna-Gro	Baldwin	73.4	80.7	78.1	—	—	4/24	1	38
Delta Grow	7500	72.7	73.1	71.7	—	—	4/20	1	28
Public	*LA 9264C-P2*	72.5	—	—	—	—	4/13	1	30
Pioneer	26R41	72.0	77.1	68.2	—	—	4/24	1	26
Dixie	Kelsey	71.3	—	—	—	—	4/20	1	28
Public	*LANC 8170-41-2*	71.0	—	—	—	—	4/16	1	28
Progeny	*PGX 14-5*	69.2	—	—	—	—	4/20	1	30
Public	*LA 3200E-2*	69.1	75.2	67.8	—	—	4/20	1	32
Dixie Bell	DB 7880	68.7	70.9	63.7	—	—	4/20	1	33
AGS	2027	62.9	—	—	—	—	4/16	1	30
Syngenta	*SX 104*	60.1	—	—	—	—	4/16	1	32
Mean		81.4							
LSD		8.3							
Error df		237							
CV		8.8							
R^2		55.5							

[1]Variety in italics denotes an experimental entry.

MAFES Coastal Plain Branch, Newton

Crop Summary

The study was planted into a well-prepared seedbed. The freshly disked and harrowed soil had adequate moisture for germination. The crop came up and grew off well. The spring consisted of abundant rainfall, but very little disease was observed. The study was harvested in a timely manner.

Planting date . . . . . **October 29**
Harvest date . . . . . **June 3**
Soil type . . . . . **Prentiss very fine sandy loam**
Soil pH **6.9**
Soil fertility . . . . . **P=H, K=H**
Previous crop . . . . . **Wheat**
Fertilizer added . . . . . **Topdress — Ammonium nitrate (33-0-0) @ 300 lb/A on February 20**
Herbicide application . . . . **Axial XL @ 16.4 oz/A and Harmony Extra @ 0.9 oz/A on March 17**

Table 10. Yields of 80 wheat varieties at MAFES Coastal Plains Branch, Newton (Prentiss very fine sandy loam soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Terral	TV 8861	63.0	—	—	31	54	—	1	31
USG	USG 3523	61.0	—	—	32	53	—	1	31
USG	USG 3404	61.0	—	—	31	53	—	1	31
Armor	ARX 1327	60.4	—	—	34	53	—	1	30
Pioneer	26R41	60.1	—	—	37	55	—	1	26
AgriMAXX	446	60.1	—	—	30	54	—	1	32
GW	2056	58.3	—	—	29	52	—	1	30
Progeny	PGX 14-4	58.2	—	—	28	52	—	1	30
Pioneer	XW13W	57.7	—	—	31	54	—	1	28
Armor	ARX 1332	57.7	—	—	34	55	—	1	29
Syngenta	SY Harrison	57.1	—	—	33	55	—	1	31
Pioneer	26R10	57.0	—	—	32	52	—	1	28
Delta Grow	DG 2700	57.0	—	—	33	53	—	1	29
Progeny	PGX 13-6	56.9	—	—	32	53	—	1	31
Dixie Bell	Dixie Bell 620	56.8	—	—	36	53	—	1	33
Dixie	DXEX 15-1	56.6	—	—	29	53	—	1	31
USG	Exp 3756	55.6	—	—	34	55	—	1	35
Armor	ARX 1325	55.2	—	—	31	54	—	1	32
GW	2058	55.0	—	—	35	55	—	1	29
Terral	TV 8848	54.8	—	—	31	52	—	2	30
Armor	ARX 1415	54.5	—	—	34	52	—	1	31
Progeny	P870	54.2	—	—	29	52	—	1	31
Dixie Bell	DB 500 Exp	54.1	—	—	31	52	—	1	32
Dixie	DXEX13-3	53.9	—	—	35	51	—	1	30
AgriMAXX	413	53.7	—	—	29	51	—	1	29
Limagrain Cereal Seeds	2564	53.2	—	—	35	55	—	1	29
Progeny	PGX 14-8	53.2	—	—	33	53	—	1	32
Dyna-Gro	9522	52.8	—	—	33	54	—	1	31
Dyna-Gro	9171	52.7	—	—	24	52	—	1	29
Pioneer	XW13T	52.3	—	—	35	53	—	2	27
Progeny	PGX 14-3	52.3	—	—	29	55	—	2	34
Pioneer	26R53	50.7	—	—	33	55	—	1	28
AgriMAXX	415	50.5	—	—	30	54	—	1	32
AgriMAXX	444	50.4	—	—	35	53	—	1	31
Dixie	McAlister	49.1	—	—	27	52	—	1	29
Dixie	Kelsey	49.1	—	—	33	55	—	1	30
AgriMAXX	447	48.9	—	—	29	52	—	1	32
Delta Grow	9700	48.6	—	—	31	50	—	1	34
Delta Grow	1101	48.5	—	—	27	52	—	1	32
Armor	Octane	48.1	—	—	23	52	—	1	31

Continued.

Table 10 (cont.). Yields of 80 wheat varieties at MAFES Coastal Plains Branch, Newton (Prentiss very fine sandy loam soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Public	AR00343-5-1	47.7	—	—	31	54	—	1	32
USG	3013	47.2	—	—	27	49	—	1	34
Progeny	PGX 14-5	46.9	—	—	28	55	—	1	33
Limagrain Cereal Seeds	3204	46.8	—	—	28	55	—	1	33
Progeny	P410	46.8	—	—	33	53	—	1	35
Delta Grow	7500	46.2	—	—	33	53	—	2	34
Public	LA 9264C-P2	46.2	—	—	37	55	—	2	31
Progeny	P357	46.0	—	—	32	50	—	1	32
Dyna-Gro	Baldwin	45.7	—	—	32	53	—	1	33
Limagrain Cereal Seeds	NEWS	45.6	—	—	31	56	—	2	29
Dixie	Extreme	45.6	—	—	27	49	—	1	34
Armor	Vandal	45.3	—	—	32	52	—	1	29
VA Tech	Hillard	44.9	—	—	31	54	—	1	31
Pioneer	26R87	44.7	—	—	41	58	—	1	31
GW	2057	44.4	—	—	28	51	—	1	30
Dixie Bell	DB 7880	44.2	—	—	26	51	—	1	32
Public	ARGA04510-11LE24	44.0	—	—	28	52	—	1	33
VA Tech	VA11W-106	43.8	—	—	30	53	—	2	31
Public	LA 01110D-150-625	43.4	—	—	39	53	—	2	31
Armor	Havoc	42.5	—	—	29	53	—	1	29
Terral	LA754	41.6	—	—	38	52	—	2	31
Pioneer	26R94	39.5	—	—	33	55	—	2	32
Public	LA 3200E-2	39.3	—	—	38	54	—	2	32
Armor	ARX 1418	39.3	—	—	28	52	—	4	30
Public	AR01040-4-1	38.3	—	—	26	52	—	2	33
Public	GA-03564-12EG	38.2	—	—	38	54	—	1	28
USG	3225	37.5	—	—	32	52	—	3	31
Public	LANC 8170-41-2	36.9	—	—	33	53	—	1	30
Progeny	P125	36.5	—	—	36	54	—	3	32
Syngenta	SX 104	36.0	—	—	34	54	—	2	33
AGS	2027	35.2	—	—	25	50	—	4	27
Public	LA 01110D-150-241	35.0	—	—	39	53	—	2	32
Syngenta	SY Cypress	33.4	—	—	35	56	—	2	29
Public	GA-04434-12LE28	33.3	—	—	27	50	—	2	27
AGS	2038	32.5	—	—	29	51	—	1	34
Terral	LA841	31.0	—	—	28	49	—	3	30
AgriMAXX	Exp 1558	30.2	—	—	28	51	—	3	29
Public	GA-04417-12E33	29.3	—	—	31	52	—	2	29
Public	LA 08115C-30	23.1	—	—	30	48	—	4	35
Dyna-Gro	Savoy	23.1	—	—	26	49	—	4	29
Mean		47.3							
LSD		5.8							
Error df		237							
CV		10.5							
R^2		82.5							

[1]Variety in italics denotes an experimental entry.

MAFES Brown Loam Branch, Raymond

Crop Summary

The wheat plots were planted into a tilled seedbed. All plots emerged to a good stand soon after planting. Frequent rainfall throughout the spring resulted in wet soil conditions extending into April. This moisture resulted in yields that were below average for this location. Harvest was completed in a timely manner.

Planting date . . . . . **November 4**
Harvest date . . . . . **June 4**
Soil type . . . . . **Loring silt loam**
Soil pH **5.7**
Soil fertility . . . . . **P=H, K=H**
Previous crop . . . . . **Soybeans**
Fertilizer added . . . . . **Topdress — Ammonium sulfate (21-0-0-24S) @ 130 lb/A on March 17; Urea (46-0-0) @ 200 lb/A on March 30**
Herbicide application . . . **Axial XL @ 16.4 oz/A and Harmony Extra @ 0.9 oz/A on March 17**

Table 11. Yields of 80 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
GW	2056	66.4	—	—	24	52.8	4/20	1	34
AgriMAXX	447	66.0	48.2	—	35	52.9	4/17	1	32
Pioneer	26R41	64.6	66.3	69.5	32	53.9	4/15	1	35
Pioneer	XW13W	64.2	—	—	32	49.0	4/15	1	33
Dyna-Gro	9171	63.8	68.6	71.6	27	52.9	4/13	4	28
GW	2058	63.7	—	—	36	54.9	4/13	1	28
AgriMAXX	413	63.2	63.6	67.6	29	52.0	4/13	1	32
Armor	*ARX 1332*	63.1	71.3	70.6	37	47.5	4/15	1	32
Progeny	P870	62.8	63.5	67.9	30	51.6	4/15	2	32
Dyna-Gro	Baldwin	62.7	68.3	63.0	38	55.5	4/13	1	33
Armor	*ARX 1418*	61.3	—	46.9	34	49.7	4/13	1	32
Dixie	McAlister	60.3	62.1	70.9	26	51.6	4/13	4	36
Progeny	*PGX 14-4*	59.6	—	—	29	53.0	4/20	2	28
AgriMAXX	446	59.5	—	—	34	53.1	4/17	1	34
GW	2057	58.5	—	—	29	54.6	4/13	2	34
Dixie	Kelsey	57.8	—	—	34	55.3	4/15	2	28
VA Tech	*Hillard*	57.5	—	—	30	56.6	4/13	1	37
Armor	Octane	57.5	66.6	67.2	29	53.5	4/20	1	35
Limagrain Cereal Seeds	NEWS	57.5	—	—	33	55.3	4/15	2	35
Pioneer	26R53	57.2	65.3	69.6	34	54.8	4/13	1	31
Delta Grow	1101	57.1	—	—	33	53.4	4/17	1	35
Delta Grow	7500	56.5	67.8	67.7	31	54.0	4/13	1	31
AgriMAXX	*Exp 1558*	56.2	—	—	37	51.4	4/15	1	34
AgriMAXX	415	56.2	73.7	76.4	37	56.0	4/15	1	32
Terral	TV 8861	55.4	57.4	58.8	30	52.0	4/17	2	29
Armor	*ARX 1325*	55.1	71.4	—	29	52.3	4/20	1	31
Armor	*ARX 1327*	54.8	69.0	—	29	51.6	4/17	1	30
USG	*Exp 3756*	54.6	—	—	34	54.3	4/17	2	29
Dixie Bell	*DB 500 Exp*	54.5	—	—	26	52.9	4/17	2	36
Dixie	Extreme	54.2	69.2	—	33	52.7	4/15	1	31
Dixie Bell	DB 7880	53.6	65.3	70.6	27	53.9	4/15	3	34
AGS	2038	53.1	62.8	61.4	32	56.3	4/13	1	34
USG	3523	53.1	65.6	67.1	30	52.9	4/17	3	34
Dyna-Gro	9522	52.8	—	—	31	53.1	4/15	1	30
Armor	Havoc	52.7	66.4	65.0	30	53.6	4/17	1	32
Public	*AR00343-5-1*	52.7	—	—	33	54.4	4/13	1	37
Delta Grow	2700	52.6	—	—	27	51.6	4/20	1	31
VA Tech	*VA11W-106*	52.5	—	—	33	53.9	4/15	1	33
Syngenta	*SX 104*	52.5	—	—	38	54.8	4/13	3	30
Progeny	P410	52.3	—	—	32	53.1	4/13	2	29

Continued.

Table 11 (cont.). Yields of 80 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Terral	TV 8848	52.2	62.1	63.6	29	53.3	4/17	1	31
Dixie	*DXEX 15-1*	52.1	—	—	34	52.2	4/17	1	32
Armor	*ARX 1415*	52.1	—	41.3	28	52.4	4/13	1	35
Pioneer	26R87	51.5	65.8	64.1	42	56.3	4/9	1	34
Limagrain Cereal Seeds	3204	51.5	—	—	30	56.2	4/13	2	40
Progeny	*PGX 14-5*	51.4	—	—	30	54.2	4/15	1	33
AgriMAXX	444	51.2	—	—	30	52.6	4/17	1	33
Limagrain Cereal Seeds	2564	50.9	—	—	37	54.3	4/15	1	33
Delta Grow	9700	50.8	56.1	63.5	32	51.9	4/17	4	25
USG	3404	50.6	66.3	—	31	50.3	4/15	4	34
Public	*LA 01110D-150-241*	49.8	—	—	30	53.4	4/13	1	35
Pioneer	XW13T	48.9	—	—	32	50.6	4/15	2	30
Progeny	*PGX 13-6*	48.4	66.7	—	26	51.7	4/17	2	31
Pioneer	26R94	48.3	74.8	—	30	56.7	4/9	1	30
Public	*LA 01110D-150-625*	48.1	—	—	40	53.0	4/9	1	35
Progeny	*PGX 14-8*	47.9	—	—	30	51.9	4/15	1	32
Dixie Bell	DB 620	47.2	73.2	70.8	35	51.6	4/15	3	35
Public	*GA-03564-12EG*	46.9	—	—	36	52.2	4/9	2	31
Syngenta	SY Harrison	45.1	56.2	58.9	27	52.0	4/15	4	33
Terral	LA754	44.3	67.1	—	37	52.5	4/9	1	33
Public	*AR01040-4-1*	44.1	—	—	29	52.5	4/13	3	38
Progeny	*PGX 14-3*	43.7	—	—	29	53.3	4/15	3	33
Public	*LA 3200E-2*	43.6	61.2	59.0	36	53.5	4/13	1	32
USG	3013	42.9	—	—	30	51.8	4/15	1	36
Armor	Vandal	42.8	71.0	—	27	50.3	4/15	1	33
Public	*ARGA04510-11LE24*	42.7	—	—	31	52.7	4/15	2	31
Dixie	*DXEX13-3*	42.5	67.9	67.7	33	47.4	4/20	1	35
Public	*LANC 8170-41-2*	41.9	—	—	36	53.7	4/13	1	33
Pioneer	26R10	40.1	70.1	73.1	35	50.8	4/17	2	33
Syngenta	SY Cypress	39.4	—	—	31	54.2	4/9	2	31
Progeny	P125	39.0	62.1	58.7	34	54.3	4/9	1	35
Public	*LA 9264C-P2*	36.5	—	—	36	53.2	4/9	1	33
Public	*LA 08115C-30*	36.0	—	—	33	47.0	4/9	1	31
Progeny	P357	35.7	63.3	61.0	26	47.8	4/20	2	28
USG	3225	35.5	—	—	29	54.0	4/13	3	37
Dyna-Gro	Savoy	34.4	—	—	30	50.1	4/9	4	25
Public	*GA-04434-12LE28*	34.0	—	—	25	50.6	4/9	4	32
Terral	LA841	31.9	61.4	54.2	28	50.7	4/13	1	29
AGS	2027	23.7	—	—	26	47.5	4/9	3	29
Public	*GA-04417-12E33*	22.7	—	—	26	51.7	4/9	2	34
Mean		50.7							
LSD		6.8							
Error df		237							
CV		11.6							
R^2		78.7							

[1]Variety in italics denotes an experimental entry.

MAFES Delta Branch, Stoneville

Crop Summary

The wheat plots were planted into a seedbed that had been disked and harrowed just before planting after the previous soybean crop. The plots emerged to a good stand. Saturated soil conditions persisted throughout the spring into April. These soil conditions slowed plant growth and development, and the plots appeared to have reduced tillering. The yields at this location were below average due to these extended wet soil conditions.

Planting date . . . . . October 28
Harvest date . . . . . June 8
Soil type . . . . . Sharkey clay
Soil pH 6.8
Soil fertility . . . . . P=H, K=H
Previous crop . . . . . Soybeans
Fertilizer added . . . Topdress — Urea (46-0-0) @ 152 lb/A on January 30; Urea (46-0-0) @ 152 lb/A on March 16

Table 12. Yields of 80 wheat varieties at MAFES Delta Branch, Stoneville (Sharkey clay soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Dixie	*DXEX13-3*	48.8	55.3	63.7	34	56	—	1	28
Dixie	Extreme	47.6	51.9	—	32	57	—	1	27
Pioneer	XW13W	47.1	—	—	35	57	—	1	24
GW	2057	47.0	—	—	27	57	—	1	28
AgriMAXX	447	46.3	45.3	—	30	57	—	1	29
Armor	Octane	45.1	51.5	59.6	28	57	—	1	30
USG	3523	44.5	60.2	67.5	29	56	—	1	27
GW	2056	44.4	—	—	31	55	—	1	27
Dixie	*DXEX 15-1*	44.4	—	—	32	57	—	1	29
Armor	*ARX 1415*	43.3	—	39.7	33	57	—	1	29
Delta Grow	9700	43.2	58.8	65.5	31	56	—	1	29
Armor	*ARX 1327*	43.1	57.2	—	33	57	—	1	29
Public	*AR00343-5-1*	43.0	—	—	32	58	—	1	29
VA Tech	*VA11W-106*	42.7	—	—	29	58	—	1	25
Terral	TV 8861	42.7	49.5	58.4	32	58	—	1	25
Pioneer	26R10	42.7	51.0	59.0	36	58	—	1	26
USG	3404	42.7	50.2	—	27	56	—	1	28
Progeny	P870	42.7	49.5	61.4	27	56	—	1	26
Dyna-Gro	9522	42.6	—	—	30	56	—	1	28
Delta Grow	2700	42.4	—	—	31	52	—	1	28
Progeny	*PGX 14-5*	42.4	—	—	27	59	—	1	28
AgriMAXX	446	42.4	—	—	29	57	—	1	26
Dixie Bell	DB 7880	42.1	56.8	62.9	23	56	—	1	32
Dixie Bell	DB 620	42.1	52.3	57.1	31	55	—	1	27
Pioneer	26R41	42.0	46.7	57.8	35	57	—	1	24
Armor	*ARX 1325*	41.8	56.5	—	28	57	—	1	27
Terral	TV 8848	41.7	55.8	64.2	32	57	—	1	28
Pioneer	XW13T	41.6	—	—	32	55	—	1	22
AgriMAXX	444	41.6	—	—	33	57	—	1	27
USG	3013	41.4	—	—	29	55	—	1	29
Syngenta	SY Harrison	41.4	42.7	53.4	31	56	—	1	24
AgriMAXX	415	41.2	55.7	65.1	31	58	—	1	25
Progeny	*PGX 13-6*	41.0	57.0	—	30	57	—	1	26
Pioneer	26R53	40.7	46.5	57.4	31	58	—	1	23
Progeny	*PGX 14-4*	40.4	—	—	30	58	—	1	27
GW	2058	39.6	—	—	33	58	—	1	27
Limagrain Cereal Seeds	NEWS	39.4	—	—	28	58	—	1	28
Dixie Bell	*DB 500 Exp*	38.9	—	—	27	57	—	1	27
Armor	Havoc	38.9	52.9	59.8	29	57	—	1	27

Continued.

Table 12 (cont.). Yields of 80 wheat varieties at MAFES Delta Branch, Stoneville (Sharkey clay soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Delta Grow	1101	38.7	—	—	31	56	—	1	28
Dixie	Kelsey	38.5	—	—	32	58	—	1	26
Syngenta	*SX 104*	38.5	—	—	33	58	—	1	24
Dixie	McAlister	38.0	56.3	61.4	25	55	—	1	24
Progeny	P410	38.0	—	—	29	58	—	1	30
Limagrain Cereal Seeds	3204	37.8	—	—	26	53	—	1	28
AgriMAXX	413	37.7	56.9	64.4	23	55	—	1	23
VA Tech	*Hillard*	37.4	—	—	32	58	—	1	27
Armor	*ARX 1332*	37.4	52.1	62.1	34	58	—	1	28
Progeny	*PGX 14-8*	36.9	—	—	29	56	—	1	27
Limagrain Cereal Seeds	2564	36.4	—	—	29	57	—	1	27
Delta Grow	7500	36.3	54.6	61.3	27	56	—	1	27
Dyna-Gro	Baldwin	36.0	50.6	59.9	33	58	—	1	27
Dyna-Gro	9171	36.0	55.7	64.1	26	51	—	1	27
Armor	*ARX 1418*	35.6	—	43.0	29	55	—	1	26
Armor	Vandal	35.6	52.9	—	34	56	—	1	28
Progeny	P357	35.3	56.9	63.5	30	55	—	1	27
Public	*ARGA04510-11LE24*	33.8	—	—	30	57	—	1	27
Public	*AR01040-4-1*	33.0	—	—	29	58	—	1	26
Public	*LA 3200E-2*	31.7	38.1	51.7	32	58	—	1	23
Syngenta	SY Cypress	31.1	—	—	32	59	—	1	23
AgriMAXX	*Exp 1558*	30.7	—	—	28	55	—	1	28
Public	*GA-04434-12LE28*	28.2	—	—	27	57	—	1	24
USG	*Exp 3756*	27.2	—	—	29	56	—	1	28
Public	*LA 08115C-30*	27.0	—	—	31	55	—	1	23
Progeny	*PGX 14-3*	26.8	—	—	27	58	—	1	28
Dyna-Gro	Savoy	26.3	—	—	27	57	—	1	23
Pioneer	26R94	26.0	55.4	—	29	57	—	1	26
Progeny	P125	25.8	49.8	56.7	26	57	—	1	26
Terral	LA754	24.5	53.0	—	37	55	—	1	27
Public	*LA 01110D-150-241*	24.5	—	—	35	55	—	1	26
Public	*LA 01110D-150-625*	24.0	—	—	33	56	—	1	25
AGS	2027	23.8	—	—	28	52	—	1	26
Public	*LANC 8170-41-2*	23.1	—	—	27	57	—	1	27
USG	3225	22.7	—	—	29	59	—	1	26
Terral	LA841	21.7	46.8	53.2	29	57	—	1	23
Pioneer	26R87	21.7	47.3	56.9	35	60	—	1	23
Public	*GA-03564-12EG*	21.4	—	—	34	59	—	1	24
AGS	2038	20.9	50.1	60.9	30	59	—	1	27
Public	*LA 9264C-P2*	20.9	—	—	31	57	—	1	21
Public	*GA-04417-12E33*	20.8	—	—	27	57	—	1	23
Mean		36.4							
LSD		4.8							
Error df		237							
CV		11.3							
R^2		85.1							

[1]Variety in italics denotes an experimental entry.

Wheat and Oat Seeds per Pound

Table 13. Average number of wheat seeds per pound

Brand	Variety	2014–15	Brand	Variety	2014–15
AgriMAXX	413	14,458	LSU	LA01110D-150-241	9,413
AgriMAXX	415	12,908	LSU	LA08115C-30	11,616
AgriMAXX	444	13,700	LSU	LA9264C-P2	9,841
AgriMAXX	446	13,500	LSU	LANC8170-41-2	13,064
AgriMAXX	447	14,000	Pioneer	26R10	10,521
AgriMAXX	Exp 1558	12,250	Pioneer	26R87	9,018
AGS	2038	14,018	Pioneer	26R41	11,769
AGS	2027	13,018	Pioneer	26R53	13,528
Armor	Havoc	14,596	Pioneer	XW13T	12,000
Armor	Vandal	12,164	Pioneer	XW13W	12,005
Armor	Octane	14,472	Pioneer	26R94	11,023
Armor	ARX 1418	12,102	Progeny	P125	14,856
Armor	ARX 1325	14,240	Progeny	P410	13,713
Armor	ARX 1332	12,823	Progeny	P870	17,296
Armor	ARX 1327	13,120	Progeny	P357	12,779
Armor	ARX 1415	11,792	Progeny	PGX 13-6	13,168
Delta Grow	7500	17,104	Progeny	PGX 14-3	12,618
Delta Grow	9700	14,202	Progeny	PGX 14-4	13,597
Delta Grow	1101	10,396	Progeny	PGX 14-8	11,856
Delta Grow	2700	13,338	Progeny	PGX 14-5	14,646
Dixie	McAlister	17,147	Syngenta	SY Cypress	10,727
Dixie	Extreme	13,997	Syngenta	SY Harrison	12,583
Dixie	Kelsey	13,228	Syngenta	SX 104	9,889
Dixie	DXEX 13-3	12,070	Terral	LA754	10,000
Dixie	DXEX 15-1	13,223	Terral	LA841	12,500
Dixie Bell	DB620	12,731	Terral	TV8861	12,535
Dixie Bell	DB500 Exp	13,257	Terral	TV8848	12,247
Dixie Bell	DB 7880	14,357	University of Arkansas	AR01040-4-1	12,525
Dyna-Gro	9171	14,862	University of Arkansas	ARGA04510-11LE24	11,533
Dyna-Gro	9522	12,310	University of Arkansas	AR00343-5-1	12,674
Dyna-Gro	Baldwin	11,315	University of Georgia	GA-03564-12E6	10,398
Dyna-Gro	Savoy	11,943	University of Georgia	GA-04417-12E33	12,952
GW	2056	14,731	University of Georgia	GA-04434-12LE28	11,123
GW	2057	13,976	USG	3013	12,718
GW	2058	13,640	USG	3404	15,094
LCS	2564	12,459	USG	3225	13,239
LCS	3204	14,324	USG	Exp 3756	12,638
LCS	NEWS	11,944	USG	3523	11,067
LSU	LA3200E-2	10,665	VA Tech	VA11W-106	12,497
LSU	LA01110D-150-625	8,932	VA Tech	Hillard	12,104

Table 14. Average number of oat seeds per pound

Brand	Variety	2014–15
Horizon	201	15,892
Horizon	270	17,008
Horizon	306	15,516
LSU	*LA07007-68*	15,283
LSU	*LA02065-88*	15,482
LSU	*LA07007-24*	17,438
LSU	*LA08084-15*	14,673
LSU	*LA06059-4-S1*	15,820
TAMO	606	14,907
TAMO	411	13,013

Summaries of Oat Yields

Table 15. 2014–15 yield summary of oat variety trials in Mississippi.

Brand	Variety[1]	Brooksville (North)	Newton	Raymond	South avg.	Stoneville	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
LSU	*LA 02065-88*	33.1	35.0	53.8	44.4	61.0	45.8
LSU	*LA 06059-4-51*	22.3	17.9	38.6	28.3	56.5	33.8
LSU	*LA 07007-24*	24.0	32.8	39.2	36.0	40.5	34.1
LSU	*LA 07007-68*	12.8	33.0	16.4	24.7	71.0	33.3
LSU	*LA 08084-15*	18.7	17.9	38.5	28.2	57.8	33.2
Plantation Seed	Horizon 201	38.4	28.9	57.6	43.3	54.2	44.8
Plantation Seed	Horizon 270	35.0	35.0	58.6	46.8	75.0	50.9
Plantation Seed	Horizon 306	29.3	38.2	60.8	49.5	80.3	52.1
TAMO	411	42.2	32.7	68.7	50.7	58.0	50.4
TAMO	606	48.8	45.5	45.1	45.3	67.4	51.7
Mean		30.5	31.7	47.7	39.7	62.2	43.0
LSD		4	8	9.1		12.3	
Error df		27	27	27		18	
CV		14.3	27.1	20.6		16.2	
R^2		90	61	76.7		68.6	

[1]Variety in italics denotes an experimental entry.

Table 16. Two-year yield summary of oat variety trials in Mississippi.

Brand	Variety[1]	Brooksville (North)	Newton	Raymond	South avg.	Stoneville	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
LSU	*LA 02065-88*	39.2	39.9	80.3	60.1	61.0	55.1
LSU	*LA 07007-68*	38.0	33.3	58.3	45.8	71.0	50.1
Plantation Seed	Horizon 201	53.7	44.0	100.3	72.1	54.2	63.0
Plantation Seed	Horizon 270	58.2	44.2	97.5	70.9	75.0	68.7
TAMO	606	55.6	44.5	85.0	64.7	67.4	63.1
Mean		48.9	41.2	84.3	62.7	65.7	60.0

[1]Variety in italics denotes an experimental entry.

MAFES Black Belt Branch, Brooksville

Crop Summary

The oat plots were planted into a conventionally tilled seedbed with good soil moisture. The plots quickly emerged to a good stand. Temperatures were below average during the early spring. Excessive rainfall kept the soil saturated for the majority of the spring. These saturated soil conditions resulted in below-average yields. Harvest was completed in a timely manner.

Planting date . . . . . **October 31**
Harvest date . . . . . **June 5**
Soil type . . . . . **Brooksville silty clay**
Soil pH **6.4**
Soil fertility . . . . . **P=M, K=M**
Previous crop . . . . . **Soybeans**
Fertilizer added . . . . . **Preplant — 9-23-30 @ 300 lb/A**
Topdress — 46-0-0 (Urea) @ 200 lb/A on March 6

Table 17. Yields of 10 oat varieties at MAFES Black Belt Branch, Brooksville (Brooksville silty clay soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*			*in*
TAMO	606	48.8	55.6	—	36	4/11	1	44
TAMO	411	42.2	—	—	37	4/13	1	42
Plantation Seed	Horizon 201	38.4	53.7	—	33	4/16	1	51
Plantation Seed	Horizon 270	35.0	58.2	—	32	4/17	1	44
LSU	*LA 02065-88*	33.1	39.2	—	34	4/18	1	50
Plantation Seed	Horizon 306	29.3	—	—	36	4/17	1	49
LSU	*LA 07007-24*	24.0	—	—	31	4/17	1	42
LSU	*LA 06059-4-51*	22.3	—	—	33	4/15	1	41
LSU	*LA 08084-15*	18.7	—	—	32	4/17	1	40
LSU	*LA 07007-68*	12.8	38.0	—	33	4/13	3	45
Mean		30.5						
LSD		4						
Error df		27						
CV		14.3						
R^2		90						

[1]Variety in italics denotes an experimental entry.

MAFES Coastal Plain Branch, Newton

Crop Summary

The study was planted into a well-prepared, conventionally tilled seedbed with adequate moisture for germination. The crop came up and grew off well. The spring consisted of abundant rainfall, but very little disease was observed. The study was harvested in a timely manner.

Planting date . . . . . October 29
Harvest date . . . . . June 3
Soil type . . . . . Prentiss very fine sandy loam
Soil pH 6.9
Soil fertility . . . . . P=H, K=H
Previous crop . . . . . Wheat
Fertilizer added . . . . . Topdress — Ammonium nitrate (33-0-0) @ 245 lb/A on February 20
Herbicide application . . . . Harmony Extra @ 0.6 oz/A on March 17

Table 18. Yields of 10 oat varieties at MSU Coastal Plains Branch, Newton (Prentiss very fine sandy loam soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*			*in*
Plantation Seed	Horizon 270	35.0	44.2	—	30	—	1	38
Plantation Seed	Horizon 201	28.9	44.0	—	30	—	1	41
Plantation Seed	Horizon 306	38.2	—	—	34	—	1	41
TAMO	606	45.5	44.5	—	31	—	1	41
LSU	*LA 02065-88*	35.0	39.9	—	29	—	1	39
LSU	*LA 07007-24*	32.8	—	—	29	—	1	40
LSU	*LA 08084-15*	17.9	—	—	30	—	1	40
LSU	*LA 06059-4-51*	17.9	—	—	32	—	1	37
LSU	*LA 07007-68*	33.0	33.3	—	20	—	4	39
TAMO	411	32.7	—	—	34	—	1	42
Mean		31.7						
LSD		8						
Error df		27						
CV		27.1						
R^2		61						

[1]Variety in italics denotes an experimental entry.

MAFES Brown Loam Branch, Raymond

Crop Summary

The oat plots were planted into a seedbed that had been prepared with conventional tillage techniques. All plots emerged to a good stand soon after planting. Frequent rainfall throughout the spring resulted in saturated soil conditions, which resulted in yields that were below average for this location. Harvest was completed in a timely manner.

Planting date . . . . . November 4
Harvest date . . . . . June 4
Soil type . . . . . Loring silt loam
Soil pH 5.7
Soil fertility . . . . . P=H, K=H
Previous crop . . . . . Soybeans
Fertilizer added . . . . . Topdress — Ammonium sulfate (21-0-0-24S) @ 130 lb/A on March 17; Urea (46-0-0) @ 200 lb/A on March 30
Herbicide application . . . Harmony Extra @ 0.6 oz/A on March 17

Table 19. Yields of 10 oat varieties at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*			*in*
TAMO	411	68.7	—	—	32	4/13	2	39
Plantation Seed	Horizon 306	60.8	—	—	32	4/13	2	43
Plantation Seed	Horizon 270	58.6	97.5	—	31	4/13	2	37
Plantation Seed	Horizon 201	57.6	100.3	—	31	4/9	2	41
LSU	*LA 02065-88*	53.8	80.3	—	31	4/13	2	39
TAMO	606	45.1	85.0	—	33	4/13	2	38
LSU	*LA 07007-24*	39.2	—	—	31	4/9	2	36
LSU	*LA 06059-4-51*	38.6	—	—	30	4/13	3	31
LSU	*LA 08084-15*	38.5	—	—	31	4/9	2	40
LSU	*LA 07007-68*	16.4	58.3	—	31	4/9	3	30
Mean		47.7						
LSD		9.1						
Error df		27						
CV		20.6						
R^2		76.7						

[1]Variety in italics denotes an experimental entry.

MAFES Delta Branch, Stoneville

Crop Summary

The oat plots were planted into a freshly tilled seedbed, following the previous soybean crop. The plots emerged to a good stand. Saturated soil conditions persisted throughout the spring. These soil conditions slowed plant growth, and the plots appeared to have reduced tillering. The yields at this location were below average due to these extended wet soil conditions.

Planting date . . . . . October 28
Harvest date . . . . . June 8
Soil type . . . . . Sharkey clay
Soil pH 6.8
Soil fertility . . . . . P=H, K=H
Previous crop . . . . . Soybeans
Fertilizer added . . . Topdress — Urea (46-0-0) @ 152 lb/A on January 30; Urea (46-0-0) @ 152 lb/A on March 16

Table 20. Yields of 10 oat varieties at MAFES Delta Branch, Stoneville (Sharkey clay soil).

Brand	Variety[1]	2014–15 yield	2-year avg.	3-year avg.	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*			*in*
Plantation Seed	Horizon 306	80.3	—	—	32	—	1	34
Plantation Seed	Horizon 270	75.0	75.0	—	32	—	1	32
LSU	*LA 07007-68*	71.0	71.0	—	33	—	1	32
TAMO	606	67.4	67.4	—	32	—	1	33
LSU	*LA 02065-88*	61.0	61.0	—	33	—	1	33
TAMO	411	58.0	—	—	33	—	1	30
LSU	*LA 08084-15*	57.8	—	—	32	—	1	33
LSU	*LA 06059-4-51*	56.5	—	—	31	—	1	31
Plantation Seed	Horizon 201	54.2	54.2	—	31	—	1	39
LSU	*LA 07007-24*	40.5	—	—	29	—	1	29
Mean		62.2						
LSD		12.3						
Error df		18						
CV		16.2						
R^2		68.6						

[1]Variety in italics denotes an experimental entry.

Ricky Stanford Farm, Cleveland

Data not reported due to poor stand

Wheat harvest data and variety yield performance was not published from the Cleveland location due to substantial stand issues. Poor stands were achieved because of temporary flooding and complete soil saturation resulting from abundant rainfall that occurred in the weeks after planting but before emergence. This site experienced extremely wet conditions again for an extended period during the early spring. These waterlogged soils resulted in poor stands, which limit the productivity of wheat.

Michael Walker Farm, Schlater

Data not reported due to extreme bird damage from feeding activity

Wheat harvest data and variety yield performance was not published from the Schlater location due to extensive bird damage. This location showed promise of good yield potential before heading. As the varieties began to head, the birds fed heavily on the earlier-maturing varieties. This feeding resulted in substantial variability within the trial.

Interpretation of Disease Reaction Values

Five locations were evaluated for the presence of foliar and stem diseases. Keep in mind that the disease incidence and severity differed at each location, so, in some cases, the diseases rated at each location differed. 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 evaluations on foliar diseases.

Leaf rust and stripe rust have diagrammatic representations of the amount of leaf area affected by each disease. The pictorial guides are utilized to aid in making visual assessments of how much of the flag leaf of a wheat plant contains observable symptoms or rust pustule or fungal/bacterial lesion development. Values can range from 0% (no symptoms present) up to approximately 50% (most of the leaf 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).

The ratings reflect mainly the severity of infection within an entire plot. Therefore, when a value of 15% occurs in the table for a particular variety, 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, Fusarium head blight (or scab) was present at all of the locations, and ratings were conducted using a scale of 0–100% of the heads affected in a given plot. Additional diseases were present throughout the variety trials but not rated at every location, including downy mildew, bacterial leaf streak, Barley yellow dwarf virus, smut, tan spot, Septoria leaf blotch, 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 21. Fusarium head blight ratings in Brooksville.[1]

Source/Cultivar	FHB rating	Source/Cultivar	FHB rating
AgriMAXX 413	1.8 k	LSU LA08115C-30	50.0 abc
AgriMAXX 415	1.3 k	LSU LA3200E-2	41.3 cd
AgriMAXX 444	0.5 k	LSU LA9264C-P2	26.3 e-h
AgriMAXX 446	1.3 k	LSU LANC8170-41-2	13.3 h-k
AgriMAXX 447	0.0 k	Pioneer 26R10	1.0 k
AgriMAXX Exp 1558	3.8 jk	Pioneer 26R41	1.0 k
AGS 2027	36.7 c-f	Pioneer 26R53	1.0 k
AGS 2038	13.0 h-k	Pioneer 26R87	41.8 cd
Armor ARX 1325	1.3 k	Pioneer 26R94	50.0 abc
Armor ARX 1327	0.5 k	Pioneer XW13T	0.3 k
Armor ARX 1332	13.5 h-k	Pioneer XW13W	0.3 k
Armor ARX 1415	0.8 k	Progeny P125	13.8 h-k
Armor ARX 1418	3.5 jk	Progeny P357	0.0 k
Armor Havoc	0.5 k	Progeny P410	6.3 jk
Armor Octane	0.0 k	Progeny P870	3.5 jk
Armor Vandal	7.6 ijk	Progeny PGX 13-6	1.0 k
Delta Grow 1101	1.0 k	Progeny PGX 14-3	3.8 jk
Delta Grow 2700	0.3 k	Progeny PGX 14-4	3.5 jk
Delta Grow 7500	2.3 k	Progeny PGX 14-5	1.8 k
Delta Grow 9700	0.8 k	Progeny PGX 14-8	2.8 jk
Dixie DXEX 13-3	0.5 k	Syngenta SX 104	5.5 jk
Dixie DXEX 15-1	0.0 k	Syngenta SY Cypress	32.5 d-g
Dixie Extreme	0.8 k	Syngenta SY Harrison	0.3 k
Dixie Kelsey	1.0 k	Terral LA754	42.5 bcd
Dixie McAlister	0.5 k	Terral LA841	56.3 ab
Dixie Bell DB 7880	1.3 k	Terral TV8848	0.8 k
Dixie Bell DB500 Exp	2.0 k	Terral TV8861	0.5 k
Dixie Bell DB620	1.5 k	Univ. AR AR00343-5-1	16.3 hij
Dyna-Gro 9171	2.5 jk	Univ. AR AR01040-4-1	4.3 jk
Dyna-Gro 9522	0.3 k	Univ. AR ARGA04510-11LE24	20.5 ghi
Dyna-Gro Baldwin	7.3 ijk	Univ. GA GA-03564-12E6	43.8 a-d
Dyna-Gro Savoy	22.5 gh	Univ. GA GA-04417-12E33	47.5 abc
GW 2056	2.0 k	Univ. GA GA-04434-12LE28	38.0 cde
GW 2057	0.0 k	USG 3013	0.0 k
GW 2058	0.0 k	USG 3225	57.5 a
LCS 2564	3.5 jk	USG 3403	1.5 k
LCS 3204	0.8 k	USG 3523	1.8 k
LCS NEWS	0.5 k	USG Exp 3756	0.3 k
LSU LA01110D-150-241	41.3 cd	VA Tech VA11W-106	5.0 jk
LSU LA01110D-150-625	23.3 fgh	VA Tech Hillard	3.5 jk
LSD (0.05)	13.9		13.9

[1]FHB = Fusarium head blight.

Table 22. Leaf rust and fusarium head blight ratings in Beaumont.[1]

Source/Cultivar	LR rating	FHB rating	Source/Cultivar	LR rating	FHB rating
AgriMAXX 413	3.5 h-l	53.8 k-u	LSU LA08115C-30	0.0 l	—
AgriMAXX 415	2.0 i-l	57.5 i-s	LSU LA3200E-2	1.3 l	—
AgriMAXX 444	2.5 i-l	48.8 m-v	LSU LA9264C-P2	16.3 bcd	—
AgriMAXX 446	5.0 e-l	56.3 i-t	LSU LANC8170-41-2	1.8 jkl	92.5 ab
AgriMAXX 447	1.8 jkl	45.5 p-v	Pioneer 26R10	12.5 b-k	75.0 a-k
AgriMAXX Exp 1558	0.8 l	65.0 e-q	Pioneer 26R41	0.8 l	60.0 g-r
AGS 2027	1.0 l	—	Pioneer 26R53	1.8 jkl	55.0 j-t
AGS 2038	0.3 l	70.0 b-n	Pioneer 26R87	3.0 i-l	87.5 a-e
Armor ARX 1325	3.8 g-l	58.8 h-s	Pioneer 26R94	0.0 l	—
Armor ARX 1327	10.5 b-l	56.3 i-t	Pioneer XW13T	4.8 e-l	67.5 d-p
Armor ARX 1332	4.5 f-l	39.5 r-v	Pioneer XW13W	10.3 b-l	47.5 n-v
Armor ARX 1415	2.3 i-l	32.0 uv	Progeny P125	2.0 i-l	55.0 j-t
Armor ARX 1418	1.0 l	65.0 e-q	Progeny P357	35.0 a	58.8 h-s
Armor Havoc	21.3 b	77.5 a-j	Progeny P410	3.5 h-l	65.0 e-q
Armor Octane	0.7 l	38.3 r-v	Progeny P870	8.0 d-l	55.0 j-t
Armor Vandal	1.0 l	58.8 h-s	Progeny PGX 13-6	14.3 b-h	66.3 e-q
Delta Grow 1101	0.3 l	51.3 l-v	Progeny PGX 14-3	8.3 c-l	70.0 b-n
Delta Grow 2700	8.5 c-l	60.0 g-r	Progeny PGX 14-4	2.3 i-l	33.8 tuv
Delta Grow 7500	7.5 d-l	66.3 e-q	Progeny PGX 14-5	8.8 c-l	86.7 a-e
Delta Grow 9700	14.8 b-g	60.0 g-r	Progeny PGX 14-8	10.8 b-l	81.3 a-h
Dixie DXEX 13-3	2.8 i-l	81.3 a-h	Syngenta SX 104	15.0 b-f	67.5 d-p
Dixie DXEX 15-1	5.3 d-l	71.3 b-m	Syngenta SY Cypress	0.0 l	85.0 a-f
Dixie Extreme	21.3 b	70.0 b-n	Syngenta SY Harrison	1.3 l	71.3 b-m
Dixie Kelsey	19.3 bc	68.8 c-o	Terral LA754	0.5 l	90.0 a-d
Dixie McAlister	3.0 i-l	36.3 s-v	Terral LA841	0.0 l	—
Dixie Bell DB 7880	8.5 c-l	68.8 c-o	Terral TV8848	7.8 d-l	56.3 i-t
Dixie Bell DB500 Exp	0.3 l	36.3 s-v	Terral TV8861	7.3 d-l	73.8 a-l
Dixie Bell DB620	13.0 b-i	65.0 e-q	Univ. AR. AR00343-5-1	2.0 i-l	90.0 a-d
Dyna-Gro 9171	8.8 c-l	67.5 d-p	Univ. AR. AR01040-4-1	1.0 l	86.7 a-e
Dyna-Gro 9522	15.3 b-f	63.8 f-q	Univ. AR. ARGA04510-11LE24	0.2 l	68.0 d-p
Dyna-Gro Baldwin	1.5 jkl	73.8 a-l	Univ. GA GA-03564-12E6	0.0 l	50.0 m-v
Dyna-Gro Savoy	0.0 l	93.3 a	Univ. GA GA-04417-12E33	0.3 l	65.0 e-q
GW 2056	10.3 b-l	66.3 e-q	Univ. GA GA-04434-12LE28	0.0 l	55.0 j-t
GW 2057	2.8 i-l	33.8 tuv	USG 3013	15.8 b-e	78.8 a-i
GW 2058	3.3 h-l	30.0 v	USG 3225	0.0 l	91.3 abc
LCS 2564	3.5 h-l	66.3 e-q	USG 3403	2.5 i-l	70.0 b-n
LCS 3204	12.8 b-j	82.5 a-g	USG 3523	16.3 bcd	46.3 o-v
LCS NEWS	4.5 f-l	43.8 q-v	USG Exp 3756	3.0 i-l	71.3 b-m
LSU LA01110D-150-241	0.0 l	76.3 a-k	VA Tech VA11W-106	0.8 l	50.0 m-v
LSU LA01110D-150-625	0.0 l	83.8 a-f	VA Tech Hillard	1.0 l	60.0 g-r
LSD (0.05)	11.2	22.6		11.2	22.6

[1]LR = leaf rust; FHB = Fusarium head blight (scab).

Table 23. Fusarium head blight ratings in Issaquena County.[1]

Source/Cultivar	FHB rating	Source/Cultivar	FHB rating
AgriMAXX 413	0.3 i	LSU LA08115C-30	37.5 a
AgriMAXX 415	0.8 i	LSU LA3200E-2	14.8 efg
AgriMAXX 444	0.3 i	LSU LA9264C-P2	24.3 bcd
AgriMAXX 446	0.0 i	LSU LANC8170-41-2	1.8 i
AgriMAXX 447	0.0 i	Pioneer 26R10	0.3 i
AgriMAXX Exp 1558	0.3 i	Pioneer 26R41	0.3 i
AGS 2027	10.3 fgh	Pioneer 26R53	0.0 i
AGS 2038	1.5 i	Pioneer 26R87	21.8 b-e
Armor ARX 1325	0.0 i	Pioneer 26R94	18.8 de
Armor ARX 1327	0.0 i	Pioneer XW13T	0.3 i
Armor ARX 1332	1.0 i	Pioneer XW13W	0.0 i
Armor ARX 1415	0.0 i	Progeny P125	1.0 i
Armor ARX 1418	0.0 i	Progeny P357	0.0 i
Armor Havoc	0.3 i	Progeny P410	0.5 i
Armor Octane	0.0 i	Progeny P870	0.3 i
Armor Vandal	3.0 hi	Progeny PGX 13-6	0.0 i
Delta Grow 1101	0.0 i	Progeny PGX 14-3	0.3 i
Delta Grow 2700	0.0 i	Progeny PGX 14-4	0.3 i
Delta Grow 7500	0.5 i	Progeny PGX 14-5	0.5 i
Delta Grow 9700	0.0 i	Progeny PGX 14-8	0.0 i
Dixie DXEX 13-3	1.0 i	Syngenta SX 104	1.0 i
Dixie DXEX 15-1	0.0 i	Syngenta SY Cypress	19.0 de
Dixie Extreme	0.0 i	Syngenta SY Harrison	0.3 i
Dixie Kelsey	0.3 i	Terral LA754	25.0 bcd
Dixie McAlister	0.0 i	Terral LA841	28.8 b
Dixie Bell DB 7880	0.0 i	Terral TV8848	0.0 i
Dixie Bell DB500 Exp	0.5 i	Terral TV8861	0.0 i
Dixie Bell DB620	0.0 i	Univ. AR AR00343-5-1	0.3 i
Dyna-Gro 9171	0.8 i	Univ. AR AR01040-4-1	0.8 i
Dyna-Gro 9522	0.5 i	Univ. AR ARGA04510-11LE24	0.5 i
Dyna-Gro Baldwin	0.3 i	Univ. GA GA-03564-12E6	27.5 bc
Dyna-Gro Savoy	37.5 a	Univ. GA GA-04417-12E33	17.5 def
GW 2056	0.0 i	Univ. GA GA-04434-12LE28	20.0 cde
GW 2057	0.3 i	USG 3013	0.0 i
GW 2058	0.5 i	USG 3225	8.0 ghi
LCS 2564	0.5 i	USG 3403	0.5 i
LCS 3204	0.5 i	USG 3523	0.0 i
LCS NEWS	0.3 i	USG Exp 3756	0.0 i
LSU LA01110D-150-241	20.0 cde	VA Tech VA11W-106	0.3 i
LSU LA01110D-150-625	22.5 b-e	VA Tech Hillard	0.3 i
LSD (0.05)	8.1		8.1

[1]FHB = Fusarium head blight.

Table 24. Septoria leaf blotch and fusarium head blight ratings in Newton.[1]

Source/Cultivar	SB rating	FHB rating	Source/Cultivar	LR rating	FHB rating
AgriMAXX 413	15.5 a-i	18.5 a-g	LSU LA08115C-30	18.3 a-i	38.5 a-g
AgriMAXX 415	12.3 b-i	13.5 c-g	LSU LA3200E-2	18.8 a-i	23.3 a-g
AgriMAXX 444	20.5 a-h	10.8 c-g	LSU LA9264C-P2	10.8 d-i	8.0 c-g
AgriMAXX 446	26.3 a-e	24.5 a-g	LSU LANC8170-41-2	20.8 a-g	55.0 ab
AgriMAXX 447	12.3 b-i	3.0 fg	Pioneer 26R10	19.5 a-i	18.8 a-g
AgriMAXX Exp 1558	19.5 a-i	14.5 b-g	Pioneer 26R41	25.0 a-e	46.3 abc
AGS 2027	12.0 c-i	11.0 c-g	Pioneer 26R53	15.0 a-i	35.8 a-g
AGS 2038	14.8 a-i	2.3 fg	Pioneer 26R87	11.3 d-i	3.0 fg
Armor ARX 1325	31.7 a	45.3 a-d	Pioneer 26R94	27.5 a-d	12.3 c-g
Armor ARX 1327	13.0 b-i	7.5 c-g	Pioneer XW13T	16.8 a-i	4.0 efg
Armor ARX 1332	12.5 b-i	3.3 fg	Pioneer XW13W	15.0 a-i	10.0 c-g
Armor ARX 1415	21.0 a-g	33.8 a-g	Progeny P125	14.5 a-i	4.8 d-g
Armor ARX 1418	22.7 a-g	25.0 a-g	Progeny P357	25.0 a-e	38.8 a-g
Armor Havoc	20.0 a-h	43.0 a-f	Progeny P410	31.3 a	45.0 a-e
Armor Octane	18.0 a-i	29.3 a-g	Progeny P870	15.3 a-i	2.0 fg
Armor Vandal	16.8 a-i	11.6 c-g	Progeny PGX 13-6	20.0 a-g	34.0 a-g
Delta Grow 1101	18.8 a-i	19.0 a-g	Progeny PGX 14-3	17.5 a-i	8.3 c-g
Delta Grow 2700	11.8 c-i	15.5 b-g	Progeny PGX 14-4	12.8 b-i	8.3 c-g
Delta Grow 7500	22.0 a-g	46.5 abc	Progeny PGX 14-5	15.5 a-i	23.8 a-g
Delta Grow 9700	26.3 a-e	46.3 abc	Progeny PGX 14-8	19.3 a-i	18.0 b-g
Dixie DXEX 13-3	9.3 e-i	9.5 c-g	Syngenta SX 104	6.5 f-i	27.5 a-g
Dixie DXEX 15-1	28.8 abc	32.5 a-g	Syngenta SY Cypress	18.5 a-i	11.8 c-g
Dixie Extreme	22.5 a-g	13.5 c-g	Syngenta SY Harrison	10.0 e-i	22.8 a-g
Dixie Kelsey	16.8 a-i	8.0 c-g	Terral LA754	24.5 a-e	26.0 a-g
Dixie McAlister	5.3 ghi	3.8 fg	Terral LA841	25.5 a-e	25.5 a-g
Dixie Bell DB 7880	14.3 a-i	21.5 a-g	Terral TV8848	23.3 a-f	27.5 a-g
Dixie Bell DB500 Exp	15.0 a-i	2.3 fg	Terral TV8861	31.7 a	59.3 a
Dixie Bell DB620	24.5 a-e	10.3 c-g	Univ. AR. AR00343-5-1	17.3 a-i	19.8 a-g
Dyna-Gro 9171	25.0 a-e	42.0 a-g	Univ. AR. AR01040-4-1	14.5 a-i	24.5 a-g
Dyna-Gro 9522	20.5 a-g	46.3 abc	Univ. AR. ARGA04510-11LE24	21.3 a-g	24.0 a-g
Dyna-Gro Baldwin	18.0 a-i	19.3 a-g	Univ. GA GA-03564-12E6	18.3 a-i	19.3 a-g
Dyna-Gro Savoy	2.3 i	24.8 a-g	Univ. GA GA-04417-12E33	20.0 a-h	32.8 a-g
GW 2056	17.8 a-i	28.0 a-g	Univ. GA GA-04434-12LE28	3.3 hi	21.5 a-g
GW 2057	18.3 a-i	1.7 g	USG 3013	29.5 ab	17.3 b-g
GW 2058	14.3 a-i	1.0 g	USG 3225	28.8 abc	28.0 a-g
LCS 2564	10.8 d-i	8.5 c-g	USG 3403	20.0 a-g	12.0 c-g
LCS 3204	16.3 a-i	31.3 a-g	USG 3523	20.3 a-h	39.0 a-g
LCS NEWS	11.0 d-i	4.5 d-g	USG Exp 3756	9.3 e-i	37.8 a-g
LSU LA01110D-150-241	19.8 a-h	4.8 d-g	VA Tech VA11W-106	13.0 b-i	33.0 a-g
LSU LA01110D-150-625	23.3 a-f	26.0 a-g	VA Tech Hillard	17.5 a-i	21.3 a-g
LSD (0.05)	17.5	41.0		17.5	41.0

[1]SB = Septoria leaf blotch; FHB = Fusarium head blight.

Table 25. Septoria leaf blotch and fusarium head blight ratings in Raymond.[1]

Source/Cultivar	SB rating	FHB rating	Source/Cultivar	LR rating	FHB rating
AgriMAXX 413	0.0 e	1.8 w	LSU LA08115C-30	0.0 e	50.0 ab
AgriMAXX 415	1.5 b-e	7.8 r-w	LSU LA3200E-2	2.5 a-e	30.0 f-j
AgriMAXX 444	0.0 e	3.0 vw	LSU LA9264C-P2	0.0 e	31.3 e-j
AgriMAXX 446	0.0 e	3.0 vw	LSU LANC8170-41-2	1.3 b-e	27.0 g-k
AgriMAXX 447	0.0 e	3.0 vw	Pioneer 26R10	0.0 e	6.3 s-w
AgriMAXX Exp 1558	0.0 e	5.8 s-w	Pioneer 26R41	0.0 e	3.3 vw
AGS 2027	0.0 e	40.0 cde	Pioneer 26R53	0.0 e	8.3 q-w
AGS 2038	0.0 e	25.0 i-m	Pioneer 26R87	0.0 e	34.3 d-h
Armor ARX 1325	5.0 a	4.0 vw	Pioneer 26R94	0.0 e	25.5 h-l
Armor ARX 1327	0.0 e	3.5 vw	Pioneer XW13T	0.0 e	14.3 n-t
Armor ARX 1332	0.0 e	4.8 uvw	Pioneer XW13W	0.0 e	2.3 vw
Armor ARX 1415	0.0 e	2.0 w	Progeny P125	2.5 a-e	20.5 k-o
Armor ARX 1418	0.0 e	2.8 vw	Progeny P357	4.3 a	3.8 vw
Armor Havoc	0.0 e	8.5 q-w	Progeny P410	0.0 e	9.0 q-w
Armor Octane	0.8 cde	2.0 w	Progeny P870	0.0 e	2.5 vw
Armor Vandal	0.0 e	16.0 m-r	Progeny PGX 13-6	0.0 e	4.3 vw
Delta Grow 1101	0.0 e	4.5 vw	Progeny PGX 14-3	0.0 e	3.0 vw
Delta Grow 2700	0.8 cde	4.5 vw	Progeny PGX 14-4	0.0 e	2.5 vw
Delta Grow 7500	0.0 e	4.3 vw	Progeny PGX 14-5	3.0 abc	6.3 s-w
Delta Grow 9700	0.0 e	4.8 uvw	Progeny PGX 14-8	0.0 e	9.0 q-w
Dixie DXEX 13-3	2.5 a-e	13.8 o-u	Syngenta SX 104	0.0 e	10.5 p-w
Dixie DXEX 15-1	0.0 e	3.0 vw	Syngenta SY Cypress	0.0 e	35.0 c-g
Dixie Extreme	0.0 e	7.3 r-w	Syngenta SY Harrison	0.0 e	3.3 vw
Dixie Kelsey	0.0 e	5.5 s-w	Terral LA754	0.0 e	30.0 f-j
Dixie McAlister	0.0 e	2.3 vw	Terral LA841	0.0 e	43.8 abc
Dixie Bell DB 7880	0.0 e	5.5 s-w	Terral TV8848	0.0 e	4.5 vw
Dixie Bell DB500 Exp	0.0 e	2.5 w	Terral TV8861	0.0 e	4.3 vw
Dixie Bell DB620	0.0 e	4.3 vw	Univ. AR. AR00343-5-1	0.0 e	17.0 l-q
Dyna-Gro 9171	0.0 e	4.3 vw	Univ. AR. AR01040-4-1	0.0 e	23.0 j-n
Dyna-Gro 9522	0.0 e	4.0 vw	Univ. AR. ARGA04510-11LE24	0.0 e	18.8 k-p
Dyna-Gro Baldwin	0.0 e	14.5 n-s	Univ. GA GA-03564-12E6	0.0 e	37.5 c-f
Dyna-Gro Savoy	0.0 e	41.3 bcd	Univ. GA GA-04417-12E33	0.0 e	51.3 a
GW 2056	0.3 de	3.0 vw	Univ. GA GA-04434-12LE28	0.0 e	33.8 d-i
GW 2057	3.3 abc	2.7 vw	USG 3013	2.8 a-d	9.3 q-w
GW 2058	0.0 e	5.3 t-w	USG 3225	0.0 e	37.5 c-f
LCS 2564	0.0 e	11.3 p-v	USG 3403	3.8 ab	6.0 s-w
LCS 3204	0.0 e	3.3 vw	USG 3523	0.0 e	3.3 vw
LCS NEWS	0.0 e	7.0 r-w	USG Exp 3756	0.0 e	4.0 vw
LSU LA01110D-150-241	0.0 e	33.8 d-i	VA Tech VA11W-106	0.0 e	3.3 vw
LSU LA01110D-150-625	0.0 e	26.8 g-k	VA Tech Hillard	0.0 e	6.8 s-w
LSD (0.05)	2.3	9.2		2.3	9.2

[1]SB = Septoria leaf blotch; FHB = Fusarium head blight.

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 are not generally evaluated for tolerance, particularly in the soft red winter wheat production area of the Midsouth.

Mississippi State University evaluated wheat varieties included in the 2015 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 Marietta fine sandy loam with a CEC of 17.5, soil pH of 7.8, and organic matter content of 1.09%.

Metribuzin (TriCor DF) was applied at a rate of 12 ounces per acre, which corresponds to 0.56 pound of active ingredient per acre. The metribuzin rate utilized for this study represented a much higher use rate than normal. It was intended strictly for evaluation of herbicide tolerance. At the time of metribuzin application, wheat had two to three leaves emerged, but it had not substantially initiated tillering (late Feekes growth stage 1).

Visual ratings of herbicide injury were taken 14, 55, and 104 days after herbicide application. Wheat variety sensitivity to metribuzin data are summarized according to classifications ranging from tolerant to susceptible (T=Tolerant, MT=Moderately Tolerant, MS=Moderately Susceptible, and S=Susceptible). Variety sensitivity was based upon visual discoloration of foliage, vegetative stunting, plant death or stand reduction, and yield loss associated with metribuzin application. Wheat sensitivity to metribuzin application was more pronounced this year than previous, likely due to very wet growing conditions this winter.

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

Table 22. Wheat variety evaluation for metribuzin tolerance.

Brand	Variety	Tolerance[1]	Brand	Variety	Tolerance[1]
AgriMAXX	413	MT	LSU	LA08115C-30	S
AgriMAXX	415	MS	LSU	LA3200E-2	MS
AgriMAXX	444	MS	LSU	LA9264C-P2	MT
AgriMAXX	446	T	LSU	LANC8170-41-2	S
AgriMAXX	447	T	Pioneer	26R10	MT
AgriMAXX	Exp 1558	MS	Pioneer	26R41	T
AGS	2027	MS	Pioneer	26R53	MT
AGS	2038	S	Pioneer	26R87	MS
Armor	ARX 1325	MS	Pioneer	26R94	T
Armor	ARX 1327	MS	Pioneer	XW13T	MS
Armor	ARX 1332	MS	Pioneer	XW13W	MT
Armor	ARX 1415	S	Progeny	P125	S
Armor	ARX 1418	MS	Progeny	P357	MS
Armor	Havoc	MS	Progeny	P410	MS
Armor	Octane	MT	Progeny	P870	T
Armor	Vandal	S	Progeny	PGX 13-6	MT
Delta Grow	1101	T	Progeny	PGX 14-3	MS
Delta Grow	2700	MS	Progeny	PGX 14-4	S
Delta Grow	7500	MS	Progeny	PGX 14-5	MS
Delta Grow	9700	T	Progeny	PGX 14-8	MS
Dixie	DXEX 13-3	MS	Syngenta	SX 104	T
Dixie	DXEX 15-1	T	Syngenta	SY Cypress	S
Dixie	Extreme	MT	Syngenta	SY Harrison	MS
Dixie	Kelsey	MS	Terral	LA754	MT
Dixie	McAlister	MT	Terral	LA841	S
Dixie Bell	DB 7880	MS	Terral	TV8848	T
Dixie Bell	DB500 Exp	S	Terral	TV8861	T
Dixie Bell	DB620	MS	U. of Arkansas	AR00343-5-1	MS
Dyna-Gro	9171	MS	U. of Arkansas	AR01040-4-1	MT
Dyna-Gro	9522	MS	U. of Arkansas	ARGA04510-11LE24	MS
Dyna-Gro	Baldwin	T	U. of Georgia	GA-03564-12E6	S
Dyna-Gro	Savoy	S	U. of Georgia	GA-04417-12E33	S
GW	2056	MS	U. of Georgia	GA-04434-12LE28	S
GW	2057	S	USG	3013	MS
GW	2058	MS	USG	3225	T
LCS	2564	T	USG	3403	MS
LCS	3204	MS	USG	3523	MS
LCS	NEWS	MS	USG	Exp 3756	MS
LSU	LA01110D-150-241	MS	VA Tech	VA11W-106	S
LSU	LA01110D-150-625	S	VA Tech	Hillard	S

[1]Classification of variety sensitivity to metribuzin application: T=Tolerant; MT=Moderately Tolerant; MS=Moderately Susceptible; S=Susceptible.

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