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Mississippi WHEAT & OAT

VARIETY TRIALS, 2014

MAFES

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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, 2014

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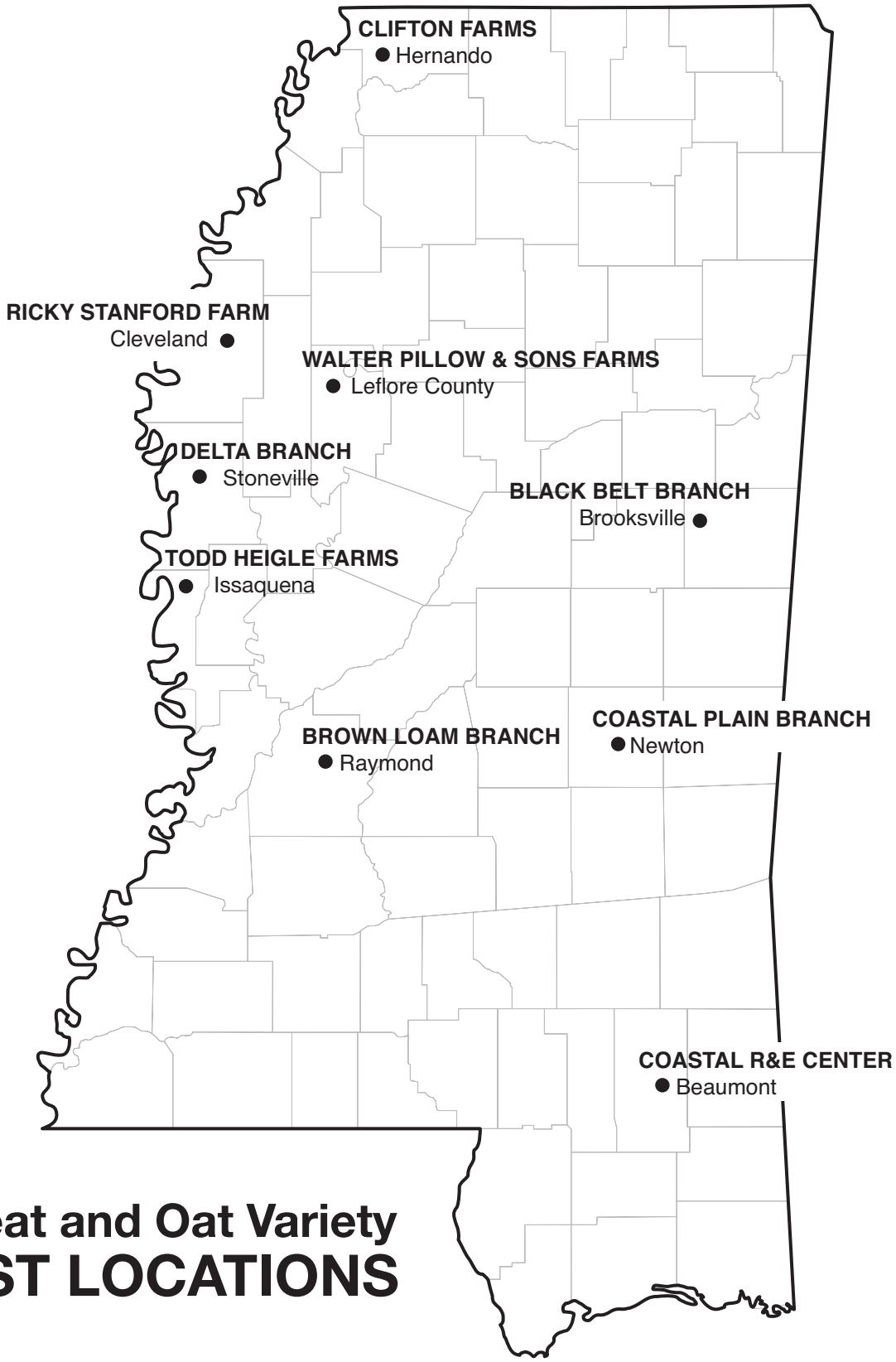

Wheat and Oat Variety
TEST LOCATIONS

Mississippi Wheat and Oat Variety Trials, 2014

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 2013–2014. 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	413 415 447 Exp 1444 Exp 1465	Vibrance Extreme
AgSouth Genetics P.O. Box 72246 Albany, GA 31708	AGS AGS AGS	2040 2035 2038	
Armor Seed P.O. Box 9 Waldenburg, AR 72475	Armor Armor Armor Armor Armor Armor Armor	Octane Havoc Vandal ARX 1313 ARX 1325 ARX 1327 ARX 1332	Dividend Extreme
B&S Seed Co. Inc. 1283 Hwy. 444 Duncan, MS 38740	Dixie Bell Dixie Bell Dixie Bell Dixie Bell	DB 620 DB 412 DB 7880 DB 8980	Cruiser
Cache River Valley Seed P.O. Box 10 Cash, AR 72421	Dixie Dixie Dixie Dixie	Extreme McAlister Glory DXEX13-3	Dividend Extreme
Delta Grow Seed P.O. Box 219 England, AR 72406	Delta Grow Delta Grow Delta Grow Delta Grow Delta Grow Delta Grow Delta Grow	DG 7500 DG 9700 DG 7200 DG 3200 DG 7100 DG 2100 DG 720X	Dividend Extreme
University of Georgia UGA-CAES-Griffin Campus 1109 Experiment St. Griffin, GA 30223	UGA UGA UGA	GA-041293-11E54 GA-041293-11LE37 GA-04434-11E44	DIV
Dyna-Gro Seed 6221 Riverside Drive, Suite One Dublin, OH 43017	Dyna-Gro Dyna-Gro Dyna-Gro	Baldwin 9171 WX13622	Foothold Extra Vibrance Extreme Cruiser
Louisiana State University SPESS 221 M.B. Sturgis Hall Baton Rouge, LA 70803	LSU LSU LSU LSU LSU LSU	LA03200E-2 LA03200E-23 LA05032D-136 LA05130D-P5 LA05145D-118 LA06146E-P4	None
Limagrain Cereal Seeds 257 E. Hail Bushnell, IL 61422	Limagrain Cereal Seeds Limagrain Cereal Seeds	L-Brand 343 L-Brand 448	Dividend Extreme Vibrance Extreme Cruiser
Pioneer Dupont 700 Blvd. South SW, Suite 302 Huntsville, AL 35802	Pioneer Pioneer Pioneer Pioneer Pioneer	26R10 26R20 26R87 26R41 26R53	Dividend Extreme

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	PGX 13-1 P 125 P 870 P 357 P 185 PGX 13-2 PGX 13-4 PGX 13-6	
Syngenta Seeds 7099 Parkbrook Ln. Cordova, TN 38018	Syngenta Syngenta Syngenta Syngenta Syngenta Syngenta Syngenta	SY HARRISON Coker 9553 MAGNOLIA Oakes SX101 SX102 SX103	Vibrance Ext
Terral Seed Inc. 111 Ellington Dr. Rayville, LA 71269	Terral Terral Terral Terral Terral Terral Terral	LA 754 LA 841 LA 821 TV 8861 TV 8535 TV 8525 TV 8848	Dividend XL
E. Virginia Ag. Res. & Ext. Center 2229 Menokin Road Warsaw, VA 22572	VA	Jamestown	Raxil MD
UniSouth Genetics Inc. 3205 C Hwy. 46 S Dickson, TN 37055	USG USG USG USG USG USG USG USG	USG 3201 USG 3251 USG 3438 USG 3120 USG 3833 USG 3404 USG 3024 USG 3694	Dividend Extreme

Table 2. Companies supplying oat brands/varieties entered.

Company	Brand	Variety
Louisiana State University SPESS 221 M.B. Sturgis Hall Baton Rouge, LA 70803	LSU LSU LSU LSU	LA02065SBSBSBSB-88 LA07048SBSB-28 LA07007SBSB-68 LA07048SBSB-19
Plantation Seed P.O. Box 398 Newton, GA 39870	Horizon Horizon Horizon	H 201 H 270 H 306
Specialty Seeds 132 Ferry Rd. Anguilla, MS 38721	TAMO	606

Summaries of Wheat Yields

Table 3. 2013–14 yield summary of wheat variety trials in Mississippi.

Brand	Variety	Brooks-ville	Hern-ando	North avg.	Beau-mont	Ray-mond	South avg.	Cleve-land	Issaquena County	Leflore 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*	*bu/A*
AgriMAXX	413	60.7	70.4	65.5	73.0	76.0	74.5	69.1	97.4	98.6	72.2	84.3	77.2
AgriMAXX	415	55.1	68.5	61.8	67.9	87.8	77.9	71.6	94.9	94.5	69.0	82.5	76.2
AgriMAXX	447	62.4	65.0	63.7	70.7	72.7	71.7	70.9	96.9	92.6	66.7	81.8	74.8
AgriMAXX	Exp 1444	53.5	77.8	65.6	76.3	75.5	75.9	74.3	96.6	99.7	79.8	87.6	79.2
AgriMAXX	Exp 1465	58.2	79.8	69.0	71.1	85.4	78.3	74.1	101.0	97.1	79.8	88.0	80.8
AGS	2035	63.0	66.0	64.5	77.4	72.2	74.8	71.8	92.9	73.6	63.2	75.4	72.5
AGS	2038	55.1	67.8	61.5	66.6	70.8	68.7	68.7	95.0	89.3	57.2	77.6	71.3
AGS	2040	31.0	71.5	51.3	73.6	75.0	74.3	61.1	84.6	73.7	55.5	68.7	65.8
AGS	2056	47.0	69.6	58.3	86.8	82.7	84.7	69.7	87.6	100.6	74.5	83.1	77.3
AGS	2057	60.4	77.8	69.1	76.7	76.3	76.5	70.3	101.6	94.6	66.3	83.2	78.0
Armor	ARX 1313	42.9	75.4	59.1	69.8	80.5	75.1	64.8	91.9	91.0	75.7	80.9	74.0
Armor	ARX 1325	56.8	77.7	67.2	79.4	79.6	79.5	71.6	99.4	106.7	75.6	88.3	80.8
Armor	ARX 1327	46.2	90.0	68.1	68.5	86.0	77.3	76.5	92.6	89.1	71.0	82.3	77.5
Armor	ARX 1332	56.0	79.0	67.5	72.9	81.3	77.1	66.5	94.0	99.2	68.6	82.0	77.2
Armor	Havoc	48.2	71.7	60.0	77.4	90.0	83.7	72.6	98.8	91.8	70.3	83.3	77.6
Armor	Octane	55.2	69.9	62.5	71.1	76.0	73.5	71.0	94.0	95.4	64.3	81.2	74.6
Armor	Vandal	48.6	73.0	60.8	79.4	89.3	84.4	76.4	96.0	95.9	63.4	82.9	77.8
Delta Grow	3200	44.0	84.7	64.4	83.8	83.1	83.5	71.2	93.7	104.1	74.3	85.8	79.9
Delta Grow	7100	54.9	76.6	65.7	77.9	71.5	74.7	70.1	89.8	92.8	65.2	79.5	74.8
Delta Grow	7200	59.8	76.0	67.9	69.9	81.0	75.4	76.1	83.3	85.4	66.6	77.9	74.8
Delta Grow	7500	60.0	57.8	58.9	77.4	83.5	80.5	70.9	90.9	96.9	64.9	80.9	75.3
Delta Grow	9700	64.0	73.0	68.5	76.1	69.6	72.8	65.3	98.7	94.1	68.8	81.7	76.2
Delta Grow	DG720X	57.8	83.8	70.8	79.6	83.0	81.3	74.2	97.4	100.5	75.5	86.9	81.5
Dixie	Glory	41.4	62.0	51.7	84.0	67.3	75.7	71.2	88.9	90.5	50.8	75.3	69.5
Dixie	DXEX13-3	51.2	72.0	61.6	67.0	78.0	72.5	69.6	91.6	89.8	72.1	80.8	73.9
Dixie	Extreme	59.7	86.1	72.9	64.9	78.2	71.5	73.4	102.6	77.1	65.7	79.7	76.0
Dixie	Mcalister	49.5	55.4	52.5	72.5	77.0	74.8	65.0	85.7	83.4	70.6	76.2	69.9
Dixie Bell	DB 7880	58.0	61.0	59.5	66.2	77.7	72.0	68.2	93.2	85.6	71.0	79.5	72.6
Dixie Bell	DB 8980	61.9	75.7	68.8	72.8	76.7	74.7	68.3	89.3	93.8	66.9	79.6	75.7
Dixie Bell	DB 620	54.8	76.5	65.6	73.1	82.5	77.8	73.8	87.4	93.4	68.5	80.8	76.3
Dixie Bell	DB 412	49.6	63.3	56.4	73.0	81.9	77.4	66.4	91.5	89.3	67.2	78.6	72.8
Dyna-Gro	9171	43.8	87.8	65.8	75.2	74.6	74.9	72.4	97.6	100.1	75.4	86.4	78.4
Dyna-Gro	Baldwin	64.8	78.8	71.8	70.5	70.2	70.4	66.1	95.4	90.9	56.8	77.3	74.2
Dyna-Gro	WX 13622	56.5	79.1	67.8	74.4	81.0	77.7	71.0	96.4	100.3	73.5	85.3	79.0
Limagrain Cereal Seeds	343	48.6	93.0	70.8	80.2	63.5	71.8	55.0	92.3	81.1	62.3	72.7	72.0
Limagrain Cereal Seeds	448	47.4	69.4	58.4	65.1	74.7	69.9	71.0	88.6	89.5	66.3	78.9	71.5
Pioneer	26R41	55.2	73.0	64.1	72.3	81.1	76.7	75.1	94.3	105.2	71.8	86.6	78.5
Pioneer	26R53	65.7	73.9	69.8	79.4	82.4	80.9	76.3	105.1	101.9	67.0	87.6	81.5
Pioneer	26R87	48.7	62.5	55.6	69.7	82.6	76.2	70.3	94.3	77.9	53.0	73.9	69.9
Pioneer	26R10	52.5	90.1	71.3	67.0	83.0	75.0	72.8	100.7	87.9	61.4	80.7	76.9
Pioneer	26R20	48.7	64.5	56.6	73.3	85.8	79.6	74.2	95.6	97.3	63.1	82.5	75.3
Pioneer	XW13X	52.2	89.0	70.6	71.7	85.5	78.6	69.7	90.1	71.4	63.8	73.7	74.2
Progeny	P125	55.6	71.7	63.6	73.8	71.9	72.8	62.8	91.5	75.2	61.6	72.8	70.5
Progeny	P185	54.1	75.2	64.6	71.3	77.6	74.4	67.3	95.9	81.9	62.5	76.9	73.2
Progeny	P357	39.2	69.5	54.4	65.2	63.8	64.5	65.8	92.1	86.2	71.1	78.8	69.1
Progeny	P870	61.3	66.1	63.7	70.9	83.2	77.1	70.6	85.7	89.2	72.2	79.4	74.9
Progeny	PGX 13-1	49.0	72.7	60.8	74.1	78.1	76.1	74.9	98.9	98.6	59.6	83.0	75.7
Progeny	PGX 13-2	47.1	83.9	65.5	68.6	81.5	75.0	78.1	81.4	99.5	69.2	82.1	76.2
Progeny	PGX 13-4	48.3	65.3	56.8	73.9	68.9	71.4	66.1	89.3	85.8	61.1	75.6	69.8
Progeny	PGX 13-6	61.1	79.2	70.2	74.7	73.8	74.3	70.1	92.1	94.7	73.5	82.6	77.4
Public	GA-041293-11E54	60.7	75.1	67.9	65.0	67.1	66.0	66.5	94.9	81.0	57.5	75.0	71.0
Public	GA-041293-11LE37	63.7	78.7	71.2	69.8	68.5	69.2	73.6	95.9	83.3	56.1	77.2	73.7
Public	GA-04434-11E44	53.9	69.9	61.9	71.4	70.0	70.7	66.9	91.7	67.0	61.4	71.8	69.0
Public	LA03200E-2	61.6	79.5	70.6	74.1	80.6	77.3	68.4	88.6	73.6	53.2	71.0	72.5
Public	LA03200E-23	60.6	62.3	61.4	72.5	71.2	71.8	66.3	86.3	78.7	56.0	71.8	69.2
Public	LA05032D-136	43.1	86.1	64.6	62.2	72.0	67.1	64.1	79.1	82.3	51.7	69.3	67.6
Public	LA05130D-P5	56.2	71.4	63.8	67.9	73.2	70.6	67.1	83.6	77.5	55.9	71.0	69.1
Public	LA05145D-118	48.5	75.2	61.9	67.9	68.8	68.3	65.0	73.6	69.4	60.6	67.2	66.1
Public	LA 06146E-P4	49.2	65.6	57.4	69.9	71.6	70.8	67.1	93.3	76.1	58.8	73.8	69.0
Public	VA Jamestown	47.0	73.9	60.4	73.6	65.4	69.5	64.0	87.5	72.4	65.5	72.4	68.7
Syngenta	Coker 9553	55.1	69.5	62.3	64.5	63.2	63.8	62.4	85.7	85.1	61.6	73.7	68.4

Continued.

Table 3 (continued). 2013–14 yield summary of wheat variety trials in Mississippi.

Brand	Variety	Brooks-ville	Hern-ando	North avg.	Beau-mont	Ray-mond	South avg.	Cleve-land	Issaquena County	Leflore 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*	*bu/A*
Syngenta	MAGNOLIA	60.0	58.5	59.2	68.2	72.2	70.2	62.8	85.0	73.3	54.3	68.8	66.8
Syngenta	Oakes	64.5	67.1	65.8	62.5	73.2	67.9	67.9	90.5	91.8	62.6	78.2	72.5
Syngenta	SX101	49.3	82.4	65.9	66.0	75.3	70.6	67.1	92.9	72.2	58.1	72.6	70.4
Syngenta	SX102	68.2	54.0	61.1	68.1	85.9	77.0	74.8	99.3	84.6	54.8	78.4	73.7
Syngenta	SX103	52.6	79.1	65.8	77.0	76.5	76.7	76.4	97.6	84.5	60.8	79.8	75.6
Syngenta	SY Harrison	63.5	78.4	70.9	78.3	80.6	79.5	80.1	102.9	100.1	63.7	86.7	80.9
Terral	LA754	56.3	78.1	67.2	69.8	82.0	75.9	68.9	96.2	77.5	64.4	76.7	74.1
Terral	LA821	60.9	70.8	65.9	65.6	72.2	68.9	67.0	95.0	68.3	61.7	73.0	70.2
Terral	LA841	56.3	54.2	55.2	78.4	67.4	72.9	56.2	84.7	66.4	50.8	64.5	64.3
Terral	TV 8861	58.9	79.1	69.0	73.0	79.3	76.2	72.6	95.3	96.3	76.4	85.1	78.9
Terral	TV 8525	48.3	90.5	69.4	80.7	75.0	77.9	70.5	94.2	90.7	73.9	82.3	78.0
Terral	TV 8535	55.0	81.6	68.3	73.8	81.0	77.4	67.2	99.6	94.4	73.1	83.6	78.2
Terral	TV 8848	54.5	81.7	68.1	73.5	81.2	77.3	72.4	88.9	94.7	70.1	81.5	77.1
USG	3120	63.3	74.9	69.1	62.6	82.5	72.5	66.8	88.2	69.9	64.7	72.4	71.6
USG	3201	57.6	81.3	69.5	73.7	88.4	81.1	70.0	103.3	97.2	73.5	86.0	80.6
USG	3251	56.0	77.5	66.7	77.4	84.6	81.0	66.7	95.1	99.5	78.9	85.0	79.4
USG	3404	54.6	81.2	67.9	71.0	78.0	74.5	76.6	102.5	84.8	73.2	84.3	77.7
USG	3438	49.7	70.8	60.3	69.6	78.1	73.9	67.0	96.3	90.8	75.3	82.3	74.7
USG	3523	51.5	79.2	65.3	79.1	78.7	78.9	73.6	93.5	92.5	77.6	84.3	78.2
USG	3694	58.8	78.5	68.7	73.0	79.2	76.1	66.3	95.0	85.9	66.1	78.3	75.4
USG	3833	54.1	69.2	61.7	75.8	80.5	78.2	68.9	85.5	94.8	68.5	79.4	74.7
Mean		54.4	74.1	64.2	72.5	77.3	74.9	69.5	92.9	88.2	65.9	79.2	74.4
LSD		8.3	12.4		9.8	8.8		7.7	10.1	10.0	7.0		
Error df		243	162		243	243		243	243	243	243		
CV		13.1	14.4		11.6	9.8		8.3	9.4	9.8	9.1		
R-sq		58.6	50.1		39.2	51.8		61.7	38.8	66.6	71.0		

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

Brand	Variety	Brooks-ville	Hern-ando	North avg.	Beau-mont	Ray-mond	South avg.	Cleve-land	Issaquena County	Leflore 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*	*bu/A*
AgriMAXX	413	72.2	64.0	68.1	76.2	75.8	76.0	67.1	89.0	96.7	75.8	82.2	77.1
AgriMAXX	415	71.6	65.8	68.7	75.9	84.8	80.3	71.1	91.5	94.7	76.4	83.4	79.0
AGS	2035	68.2	59.3	63.7	77.9	61.8	69.9	62.0	56.6	69.3	70.8	64.7	65.7
AGS	2038	74.3	62.8	68.5	74.6	64.7	69.6	66.9	85.0	86.6	69.9	77.1	73.1
AGS	2040	35.1	59.2	47.2	69.5	60.6	65.1	58.2	53.0	66.9	60.5	59.6	57.9
Armor	Havoc	69.0	66.3	67.7	79.8	79.6	79.7	72.2	85.3	96.2	76.2	82.5	78.1
Armor	Octane	60.5	63.7	62.1	75.6	73.6	74.6	67.4	79.3	94.2	72.2	78.3	73.3
Armor	Vandal	65.7	66.1	65.9	81.7	86.2	84.0	75.2	85.2	97.8	73.7	83.0	79.0
Delta Grow	7200	71.3	65.3	68.3	70.8	71.9	71.3	72.2	83.8	86.8	69.1	78.0	73.9
Delta Grow	7500	70.0	63.4	66.7	76.0	75.5	75.7	71.6	83.4	93.8	69.7	79.7	75.4
Delta Grow	9700	78.2	69.3	73.7	77.5	73.9	75.7	65.9	91.3	93.1	73.8	81.0	77.9
Dixie	DXEX13-3	66.9	66.7	66.8	73.7	72.7	73.2	66.6	83.7	88.7	76.3	78.8	74.4
Dixie	Extreme	72.3	75.5	73.9	73.2	72.5	72.9	69.4	92.7	85.8	73.6	80.4	76.9
Dixie	Mcalister	69.5	60.4	65.0	72.0	82.8	77.4	67.9	75.0	87.1	71.1	75.3	73.2
Dixie Bell	DB 7880	69.0	55.2	62.1	70.6	79.6	75.1	67.4	85.6	83.7	73.0	77.4	73.0
Dixie Bell	DB 620	72.6	71.5	72.1	70.0	74.3	72.2	72.6	81.4	93.1	67.7	78.7	75.4
Dixie Bell	DB 412	67.9	61.2	64.5	78.3	75.4	76.9	65.8	73.4	86.0	75.4	75.1	72.9
Dyna-Gro	9171	63.5	76.1	69.8	78.0	76.0	77.0	69.7	86.6	99.9	78.1	83.6	78.5
Dyna-Gro	Baldwin	75.7	75.8	75.8	74.5	61.2	67.9	59.5	87.5	95.2	67.6	77.5	74.6
Limagrain Cereal Seeds	343	62.5	74.9	68.7	76.9	65.0	71.0	53.6	77.6	77.8	68.0	69.2	69.5
Pioneer	26R10	69.5	79.8	74.6	71.0	81.1	76.0	67.8	86.0	90.7	68.2	78.2	76.8
Pioneer	26R20	60.6	57.7	59.1	79.0	73.2	76.1	70.3	87.2	90.9	73.9	80.6	74.1
Pioneer	26R41	65.4	61.7	63.6	76.2	78.5	77.3	73.6	89.1	99.4	75.9	84.5	77.5
Pioneer	26R53	77.2	67.2	72.2	79.3	80.3	79.8	75.4	90.0	99.0	73.1	84.4	80.2
Pioneer	26R87	65.0	58.7	61.8	72.9	71.7	72.3	66.5	79.6	81.0	64.5	72.9	70.0
Progeny	P125	59.9	61.3	60.6	72.1	61.8	67.0	62.2	65.6	67.3	66.0	65.3	64.5
Progeny	P185	65.6	62.4	64.0	72.2	68.1	70.1	64.0	77.4	82.0	67.8	72.8	69.9

Continued.

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

Brand	Variety	Brooks-ville	Hern-ando	North avg.	Beau-mont	Ray-mond	South avg.	Cleve-land	Issaquena County	Leflore 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*	*bu/A*
Progeny	P357	61.9	62.8	62.4	71.0	60.1	65.5	64.8	79.2	89.3	73.9	76.8	70.4
Progeny	P870	71.6	62.1	66.8	78.1	79.9	79.0	70.9	80.8	92.9	78.7	80.8	76.9
Public	LA03200E-2	64.9	66.2	65.5	76.4	67.5	72.0	65.9	58.2	73.2	66.0	65.8	67.3
Public	VA Jamestown	50.6	60.9	55.8	72.2	56.5	64.4	60.3	66.3	75.6	68.2	67.6	63.8
Syngenta	Coker 9553	63.2	54.0	58.6	70.7	61.9	66.3	60.1	75.3	77.7	69.3	70.6	66.5
Syngenta	MAGNOLIA	62.2	57.6	59.9	73.2	68.1	70.7	62.2	77.2	77.1	66.2	70.7	68.0
Syngenta	Oakes	72.4	55.4	63.9	67.1	71.9	69.5	61.7	80.5	87.0	67.1	74.1	70.4
Syngenta	SY Harrison	71.9	71.4	71.7	76.5	72.4	74.5	75.9	84.7	96.0	69.2	81.4	77.2
Terral	LA821	55.5	58.9	57.2	63.6	55.0	59.3	64.9	68.9	70.1	61.7	66.4	62.3
Terral	LA841	59.1	53.7	56.4	72.3	53.7	63.0	59.5	79.0	71.8	58.5	67.2	63.4
Terral	TV 8525	62.7	74.4	68.5	78.5	76.6	77.5	70.6	80.2	88.6	75.1	78.6	75.8
Terral	TV 8535	61.1	67.2	64.2	75.5	68.7	72.1	69.1	91.1	95.4	75.2	82.7	75.4
Terral	TV 8848	66.8	69.4	68.1	77.3	73.9	75.6	71.7	87.8	94.1	75.6	82.3	77.1
Terral	TV 8861	71.7	69.6	70.6	74.6	70.5	72.6	70.1	83.2	93.8	76.3	80.9	76.2
USG	3120	50.1	64.2	57.2	69.9	67.4	68.6	62.1	54.3	64.3	70.9	62.9	62.9
USG	3201	70.6	70.4	70.5	78.5	84.5	81.5	70.7	86.4	97.8	78.4	83.3	79.7
USG	3251	68.5	71.2	69.9	78.8	74.0	76.4	66.4	79.9	97.6	79.6	80.9	77.0
USG	3438	66.3	60.8	63.5	77.1	76.0	76.5	70.8	80.9	92.1	79.9	80.9	75.5
USG	3833	63.9	63.1	63.5	79.6	82.6	81.1	68.3	78.9	94.5	75.9	79.4	75.9
Mean		66.0	64.9	65.4	74.7	71.8	73.3	67.1	79.9	87.2	71.6	76.5	72.9

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

Brand	Variety	Brooksville (North)	Raymond (South)	Cleve-land	Issaquena County	Leflore County	Stone-ville	Delta avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriMAXX	413	71.0	68.5	63.9	89.4	82.6	71.5	76.8	74.5
AgriMAXX	415	69.6	73.0	66.0	90.9	83.6	69.9	77.6	75.5
AGS	2035	70.1	57.6	58.2	64.7	62.8	67.7	63.3	63.5
Armor	Havoc	66.8	67.5	65.4	83.4	81.1	72.2	75.5	72.7
Delta Grow	7500	65.8	69.1	67.5	83.5	79.7	61.5	73.0	71.2
Dixie	Mcalister	66.7	75.0	61.8	79.1	75.0	67.4	70.8	70.8
Dixie Bell	DB 620	71.7	68.3	65.8	84.1	74.6	63.9	72.1	71.4
Dixie Bell	DB 412	69.2	64.4	60.7	76.3	73.1	66.5	69.2	68.4
Dyna-Gro	9171	64.3	72.7	67.0	87.9	85.3	70.3	77.6	74.6
Dyna-Gro	Baldwin	74.7	63.7	55.6	85.1	80.9	65.9	71.9	71.0
Pioneer	26R10	68.5	66.6	61.9	85.1	76.7	65.5	72.3	70.7
Pioneer	26R20	62.9	61.9	63.0	86.4	81.2	64.2	73.7	69.9
Pioneer	26R87	68.0	66.5	67.8	81.8	70.5	64.9	71.3	69.9
Progeny	P125	63.4	58.6	56.2	65.1	56.7	62.1	60.0	60.3
Progeny	P185	63.0	60.6	59.4	75.1	66.9	62.2	65.9	64.5
Progeny	P357	62.9	50.5	53.0	78.1	71.2	63.4	66.4	63.2
Progeny	P870	70.0	73.9	66.8	83.0	81.7	71.0	75.6	74.4
Public	VA Jamestown	51.1	53.4	57.1	69.8	66.4	64.6	64.5	60.4
Syngenta	Coker 9553	64.7	60.2	58.3	76.5	69.5	64.3	67.2	65.6
Syngenta	MAGNOLIA	65.6	70.0	56.7	75.4	65.1	62.7	65.0	65.9
Syngenta	Oakes	70.3	63.5	58.2	79.8	75.8	63.9	69.4	68.6
Syngenta	SY Harrison	73.3	61.2	63.9	87.0	80.8	65.0	74.2	71.9
Terral	LA821	58.2	50.6	59.6	67.5	59.9	56.9	61.0	58.8
Terral	LA841	64.0	49.3	56.4	73.5	62.7	58.7	62.8	60.8
Terral	TV 8525	65.7	72.7	65.4	79.5	76.7	69.0	72.6	71.5
Terral	TV 8535	65.8	64.8	62.9	90.0	82.9	70.5	76.6	72.8
Terral	TV 8848	66.2	66.2	63.2	86.5	78.5	67.9	74.0	71.4
Terral	TV 8861	70.4	64.1	63.8	84.0	79.8	70.7	74.6	72.2
USG	3120	58.0	67.1	60.0	63.2	61.6	69.0	63.5	63.2
USG	3201	72.6	76.3	68.4	88.7	87.4	74.1	79.6	77.9
USG	3251	68.6	64.1	63.6	82.5	84.5	73.9	76.1	72.9
USG	3438	66.9	67.1	66.4	82.5	78.5	74.9	75.6	72.7
Mean		66.6	64.7	62.0	80.2	74.8	66.8	70.9	69.2

MAFES Black Belt Branch, Brooksville

Crop Summary

The plots were planted into a conventionally tilled seedbed. Soil moisture was good, and plots quickly emerged to a good stand. The early-spring temperatures were below average, and the weather was very wet. The wet weather conditions did not allow for a second application of nitrogen. At wheat maturity, wet weather returned and delayed harvest by 3 weeks. It is important to consider the amount of rainfall received during the harvest season when looking at yields at this location.

Planting date ..... October 28
Harvest date ..... July 2
Soil type ..... Brooksville silty clay
Soil pH 6.3
Soil fertility ..... P=M, K=M
Previous crop ..... Soybeans
Fertilizer added ..... Preplant — 13-13-13 @ 300 lb/A, N @ 100 lb/A (Urea) on March 12

Table 6. Yields of 82 wheat varieties at MAFES Black Belt Branch, Brooksville (Brooksville silty clay soil).

Brand	Variety	2013-14 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*
Syngenta	SX102	68.2	—	—	—	—	5/2	1	29
Pioneer	26R53	65.7	77.2	—	—	—	5/2	1	33
Dyna-Gro	Baldwin	64.8	75.7	72.9	—	—	4/27	1	32
Syngenta	Oakes	64.5	72.4	66.0	—	—	4/29	1	33
Delta Grow	9700	64.0	78.2	—	—	—	5/2	1	34
Public	GA-041293-11LE37	63.7	—	—	—	—	4/29	1	32
Syngenta	SY Harrison	63.5	71.9	76.2	—	—	5/1	1	30
USG	3120	63.3	50.1	73.7	—	—	5/4	1	32
AGS	2035	63.0	68.2	74.1	—	—	4/27	1	36
AgriMAXX	447	62.4	—	—	—	—	5/4	1	33
Dixie Bell	DB 8980	61.9	—	—	—	—	5/2	1	29
Public	LA03200E-2	61.6	64.9	—	—	—	4/28	1	33
Progeny	P870	61.3	71.6	66.7	—	—	4/29	1	29
Progeny	PGX 13-6	61.1	—	—	—	—	4/28	1	33
Terral	LA821	60.9	55.5	63.6	—	—	4/29	1	33
Public	GA-041293-11E54	60.7	—	—	—	—	4/30	1	31
AgriMAXX	413	60.7	72.2	68.7	—	—	5/2	1	33
Public	LA03200E-23	60.6	—	—	—	—	4/28	1	28
AGS	2057	60.4	—	—	—	—	5/1	1	30
Delta Grow	7500	60.0	70.0	57.4	—	—	4/27	1	31
Syngenta	MAGNOLIA	60.0	62.2	72.5	—	—	5/4	1	30
Delta Grow	7200	59.8	71.3	—	—	—	5/4	1	31
Dixie	Extreme	59.7	72.3	—	—	—	4/29	1	35
Terral	TV 8861	58.9	71.7	68.0	—	—	5/1	1	34
USG	3694	58.8	—	—	—	—	5/4	1	34
AgriMAXX	Exp 1465	58.2	—	—	—	—	4/30	1	32
Dixie Bell	DB 7880	58.0	69.0	—	—	—	5/3	1	37
Delta Grow	DG720X	57.8	—	—	—	—	4/30	1	36
USG	3201	57.6	70.6	76.4	—	—	5/1	1	27
Armor	ARX 1325	56.8	—	—	—	—	4/29	1	35
Dyna-Gro	WX 13622	56.5	—	—	—	—	4/30	1	32
Terral	LA841	56.3	59.1	73.7	—	—	5/3	1	27
Terral	LA754	56.3	—	—	—	—	5/2	1	32
Public	LA05130D-P5	56.2	—	—	—	—	5/4	1	28
Armor	ARX 1332	56.0	—	—	—	—	5/4	1	28
USG	3251	56.0	68.5	68.9	—	—	5/2	1	32
Progeny	P125	55.6	59.9	70.4	—	—	4/29	2	30
Pioneer	26R41	55.2	65.4	—	—	—	4/27	1	34

Continued.

Table 6 (cont.). Yields of 82 wheat varieties at MAFES Black Belt Branch, Brooksville (Brooksville silty clay soil).

Brand	Variety	2013-14 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	Octane	55.2	60.5	—	—	—	5/2	1	31
Syngenta	Coker 9553	55.1	63.2	67.8	—	—	5/4	1	32
AgriMAXX	415	55.1	71.6	65.6	—	—	4/27	1	34
AGS	2038	55.1	74.3	—	—	—	5/4	1	29
Terral	TV 8535	55.0	61.1	75.1	—	—	5/3	1	28
Delta Grow	7100	54.9	—	—	—	—	4/29	1	32
Dixie Bell	DB 620	54.8	72.6	69.7	—	—	5/6	1	36
USG	3404	54.6	—	—	—	—	5/3	1	32
Terral	TV 8848	54.5	66.8	65.2	—	—	5/1	1	35
USG	3833	54.1	63.9	—	—	—	4/28	1	30
Progeny	P185	54.1	65.6	57.8	—	—	4/29	1	36
Public	GA-04434-11E44	53.9	—	—	—	—	5/1	1	28
AgriMAXX	Exp 1444	53.5	—	—	—	—	4/29	1	35
Syngenta	SX103	52.6	—	—	—	—	5/6	1	32
Pioneer	26R10	52.5	69.5	66.4	—	—	4/29	1	30
Pioneer	XW13X	52.2	—	—	—	—	5/2	1	34
USG	3523	51.5	—	—	—	—	5/4	1	34
Dixie	DXEX13-3	51.2	66.9	—	—	—	5/3	1	37
USG	3438	49.7	66.3	68.3	—	—	5/4	1	31
Dixie Bell	DB 412	49.6	67.9	71.9	—	—	4/27	1	37
Dixie	Mcalister	49.5	69.5	61.2	—	—	4/27	1	33
Syngenta	SX101	49.3	—	—	—	—	4/29	1	32
Public	LA 06146E-P4	49.2	—	—	—	—	5/4	1	32
Progeny	PGX 13-1	49.0	—	—	—	—	4/30	1	38
Pioneer	26R20	48.7	60.6	67.6	—	—	5/4	1	31
Pioneer	26R87	48.7	65.0	74.2	—	—	4/29	1	31
Armor	Vandal	48.6	65.7	—	—	—	4/29	1	30
Limagrain Cereal Seeds	343	48.6	62.5	—	—	—	5/2	1	31
Public	LA05145D-118	48.5	—	—	—	—	4/29	1	32
Terral	TV 8525	48.3	62.7	71.8	—	—	4/30	1	32
Progeny	PGX 13-4	48.3	—	—	—	—	5/3	1	33
Armor	Havoc	48.2	69.0	62.3	—	—	5/6	1	30
Limagrain Cereal Seeds	448	47.4	—	—	—	—	4/30	3	30
Progeny	PGX 13-2	47.1	—	—	—	—	5/2	1	34
AGS	2056	47.0	—	—	—	—	5/1	1	36
Public	VA Jamestown	47.0	50.6	52.0	—	—	5/4	1	30
Armor	ARX 1327	46.2	—	—	—	—	4/29	1	35
Delta Grow	3200	44.0	—	—	—	—	4/29	1	31
Dyna-Gro	9171	43.8	63.5	65.9	—	—	4/29	1	32
Public	LA05032D-136	43.1	—	—	—	—	5/4	1	32
Armor	ARX 1313	42.9	—	—	—	—	4/30	1	27
Dixie	Glory	41.4	—	—	—	—	4/25	1	36
Progeny	P357	39.2	61.9	65.0	—	—	4/25	1	30
AGS	2040	31.0	35.1	—	—	—	5/4	1	33
Mean		54.4							
LSD		8.3							
Error df		243							
CV		13.1							
R-sq		58.6							

Ricky Stanford Farm, Cleveland

Crop Summary

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

Planting date . . . . . November 5
Harvest date . . . . . June 23
Soil type . . . . . Sharkey silty clay
Soil pH 6.2
Soil fertility . . . . . P=M, K=M
Previous crop . . . . . Corn
Fertilizer added . . . . . Preplant — N @ 120 lb/A (32% N-Sol)

Table 7. Yields of 82 wheat varieties at Ricky Stanford Farm, Cleveland (Sharkey silty clay soil).

Brand	Variety	2013-14 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*
Syngenta	SY Harrison	80.1	75.9	40.0	34	57.0	—	1	40
Progeny	PGX 13-2	78.1	—	—	30	55.8	—	2	38
USG	3404	76.6	—	—	34	55.5	—	1	40
Armor	ARX 1327	76.5	—	—	33	55.5	—	1	32
Armor	Vandal	76.4	75.2	—	39	57.0	—	1	37
Syngenta	SX103	76.4	—	—	37	58.5	—	1	39
Pioneer	26R53	76.3	75.4	—	35	55.8	—	1	40
Delta Grow	7200	76.1	72.2	—	37	58.0	—	1	43
Pioneer	26R41	75.1	73.6	—	28	54.5	—	2	42
Progeny	PGX 13-1	74.9	—	—	34	55.3	—	2	38
Syngenta	SX102	74.8	—	—	41	58.3	—	1	40
AgriMAXX	Exp 1444	74.3	—	—	32	56.0	—	2	35
Pioneer	26R20	74.2	70.3	48.3	36	56.8	—	1	38
Delta Grow	DG720X	74.2	—	—	32	56.5	—	1	38
AgriMAXX	Exp 1465	74.1	—	—	35	55.5	—	1	39
Dixie Bell	DB 620	73.8	72.6	52.3	31	54.3	—	2	38
Public	GA-041293-11LE37	73.6	—	—	31	57.8	—	1	35
USG	3523	73.6	—	—	31	55.8	—	1	38
Dixie	Extreme	73.4	69.4	—	32	57.0	—	1	42
Pioneer	26R10	72.8	67.8	49.9	30	55.0	—	1	35
Armor	Havoc	72.6	72.2	51.6	38	56.5	—	1	37
Terral	TV 8861	72.6	70.1	51.2	35	55.8	—	1	36
Dyna-Gro	9171	72.4	69.7	61.6	31	54.8	—	1	36
Terral	TV 8848	72.4	71.7	46.0	31	55.3	—	1	40
AGS	2035	71.8	62.0	50.5	38	57.5	—	1	40
Armor	ARX 1325	71.6	—	—	30	56.8	—	1	40
AgriMAXX	415	71.6	71.1	55.8	32	52.8	—	2	38
Delta Grow	3200	71.2	—	—	32	56.0	—	2	37
Dixie	Glory	71.2	—	—	34	55.0	—	1	40
Limagrain Cereal Seeds	448	71.0	—	—	30	56.0	—	1	34
Dyna-Gro	WX 13622	71.0	—	—	28	53.5	—	1	38
Armor	Octane	71.0	67.4	—	33	56.5	—	1	38
Delta Grow	7500	70.9	71.6	59.2	29	54.8	—	1	38
AgriMAXX	447	70.9	—	—	30	54.8	—	2	35
Progeny	P870	70.6	70.9	58.6	33	56.0	—	1	38
Terral	TV 8525	70.5	70.6	54.9	31	56.0	—	2	41
Pioneer	26R87	70.3	66.5	70.4	41	59.0	—	1	36
AGS	2057	70.3	—	—	32	57.3	—	1	42
Progeny	PGX 13-6	70.1	—	—	32	55.3	—	1	38
Delta Grow	7100	70.1	—	—	33	54.8	—	1	38
USG	3201	70.0	70.7	63.6	27	57.3	—	2	38
Pioneer	XW13X	69.7	—	—	36	57.8	—	1	39
AGS	2056	69.7	—	—	29	56.5	—	2	35
Dixie	DXEX13-3	69.6	66.6	—	32	56.0	—	2	38
AgriMAXX	413	69.1	67.1	57.3	34	58.0	—	1	37
USG	3833	68.9	68.3	—	34	56.3	—	1	39

Continued.

Table 7 (cont.). Yields of 82 wheat varieties at Ricky Stanford Farm, Cleveland (Sharkey silty clay soil).

Brand	Variety	2013-14 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	LA754	68.9	—	—	40	56.0	—	1	32
AGS	2038	68.7	66.9	—	32	55.5	—	1	38
Public	LA03200E-2	68.4	65.9	—	34	58.5	—	1	41
Dixie Bell	DB 8980	68.3	—	—	35	57.5	—	1	39
Dixie Bell	DB 7880	68.2	67.4	—	30	54.3	—	2	41
Syngenta	Oakes	67.9	61.7	51.2	34	57.5	—	1	39
Progeny	P185	67.3	64.0	50.2	33	52.8	—	1	37
Terral	TV 8535	67.2	69.1	50.5	33	56.5	—	1	36
Public	LA 06146E-P4	67.1	—	—	32	55.3	—	1	41
Syngenta	SX101	67.1	—	—	36	56.5	—	1	46
Public	LA05130D-P5	67.1	—	—	38	59.0	—	1	42
Terral	LA821	67.0	64.9	49.0	32	56.8	—	2	38
USG	3438	67.0	70.8	57.6	30	55.8	—	1	37
Public	GA-04434-11E44	66.9	—	—	30	57.0	—	1	41
USG	3120	66.8	62.1	55.8	31	54.5	—	1	36
USG	3251	66.7	66.4	57.9	33	57.0	—	2	36
Armor	ARX 1332	66.5	—	—	30	55.8	—	2	41
Public	GA-041293-11E54	66.5	—	—	34	58.0	—	1	38
Dixie Bell	DB 412	66.4	65.8	50.5	34	56.5	—	1	36
USG	3694	66.3	—	—	29	56.8	—	2	41
Public	LA03200E-23	66.3	—	—	37	58.0	—	1	36
Dyna-Gro	Baldwin	66.1	59.5	47.9	36	57.8	—	1	44
Progeny	PGX 13-4	66.1	—	—	27	54.3	—	1	42
Progeny	P357	65.8	64.8	29.2	32	54.8	—	1	37
Delta Grow	9700	65.3	65.9	—	32	55.5	—	2	38
Dixie	Mcalister	65.0	67.9	49.6	31	54.5	—	1	36
Public	LA05145D-118	65.0	—	—	32	55.8	—	1	40
Armor	ARX 1313	64.8	—	—	33	52.8	—	2	37
Public	LA05032D-136	64.1	—	—	33	57.0	—	2	40
Public	VA Jamestown	64.0	60.3	50.8	33	60.8	—	2	38
Syngenta	MAGNOLIA	62.8	62.2	45.7	37	55.8	—	1	40
Progeny	P125	62.8	62.2	44.1	32	54.8	—	2	32
Syngenta	Coker 9553	62.4	60.1	54.7	37	57.8	—	1	38
AGS	2040	61.1	58.2	—	32	56.0	—	1	37
Terral	LA841	56.2	59.5	50.2	30	55.3	—	2	39
Limagrain Cereal Seeds	343	55.0	53.6	—	33	56.5	—	1	34
Mean		69.5							
LSD		7.7							
Error df		243							
CV		8.3							
R-sq		61.7							

Todd Heigle Farms, Issaquena County

Crop Summary

The wheat plots were planted into a well-prepared seedbed. Conditions at planting were favorable for germination. The plots quickly emerged to a good stand. Timely fertilizer applications and favorable growing conditions allowed for good yields to be achieved. Harvest was completed in a timely manner without difficulties.

Planting date . . . . . **November 5**
Harvest date . . . . . **June 13**
Soil type . . . . . **Sharkey mixed clay loam**
Soil pH **6.0**
Soil fertility . . . . . **P=M, K=M**
Previous crop . . . . . **Corn**
Fertilizer added . . . . . **120 lb N (Urea) split on February 15 and March 30**
Herbicide application . . . . **Finesse @ .04 oz/A on November 1**
Fungicide application . . . **Avaris @ 14 oz/A on March 30**

Table 8. Yields of 82 wheat varieties at Todd Heigle Farms, Issaquena County (Sharkey mixed clay loam soil).

Brand	Variety	2013-14 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*
Pioneer	26R53	105.1	90.0	—	—	—	4/20	1	32
USG	3201	103.3	86.4	93.4	—	—	4/20	1	34
Syngenta	SY Harrison	102.9	84.7	91.7	—	—	4/20	1	34
Dixie	Extreme	102.6	92.7	—	—	—	4/20	1	41
USG	3404	102.5	—	—	—	—	4/20	2	39
AGS	2057	101.6	—	—	—	—	4/13	1	37
AgriMAXX	Exp 1465	101.0	—	—	—	—	4/20	1	36
Pioneer	26R10	100.7	86.0	83.1	—	—	4/20	1	34
Terral	TV 8535	99.6	91.1	87.8	—	—	4/13	1	36
Armor	ARX 1325	99.4	—	—	—	—	4/27	1	38
Syngenta	SX102	99.3	—	—	—	—	4/20	1	40
Progeny	PGX 13-1	98.9	—	—	—	—	4/20	1	38
Armor	Havoc	98.8	85.3	79.6	—	—	4/6	1	35
Delta Grow	9700	98.7	91.3	—	—	—	4/27	2	37
Dyna-Gro	9171	97.6	86.6	90.6	—	—	4/13	1	33
Syngenta	SX103	97.6	—	—	—	—	4/20	3	34
Delta Grow	DG720X	97.4	—	—	—	—	4/20	2	34
AgriMAXX	413	97.4	89.0	90.3	—	—	4/13	1	33
AgriMAXX	447	96.9	—	—	—	—	4/20	2	41
AgriMAXX	Exp 1444	96.6	—	—	—	—	4/20	4	38
Dyna-Gro	WX 13622	96.4	—	—	—	—	4/6	1	35
USG	3438	96.3	80.9	85.8	—	—	4/20	1	38
Terral	LA754	96.2	—	—	—	—	4/20	1	33
Armor	Vandal	96.0	85.2	—	—	—	4/13	1	34
Progeny	P185	95.9	77.4	70.4	—	—	4/27	3	39
Public	GA-041293-11LE37	95.9	—	—	—	—	4/20	1	32
Pioneer	26R20	95.6	87.2	84.7	—	—	4/13	2	37
Dyna-Gro	Baldwin	95.4	87.5	80.3	—	—	4/27	1	37
Terral	TV 8861	95.3	83.2	85.7	—	—	4/13	1	35
USG	3251	95.1	79.9	87.8	—	—	4/27	1	39
AGS	2038	95.0	85.0	—	—	—	4/13	3	37
USG	3694	95.0	—	—	—	—	4/27	1	40
Terral	LA821	95.0	68.9	64.7	—	—	4/13	2	39
Public	GA-041293-11E54	94.9	—	—	—	—	4/20	1	34
AgriMAXX	415	94.9	91.5	89.7	—	—	4/13	1	33
Pioneer	26R41	94.3	89.1	—	—	—	4/13	1	38
Pioneer	26R87	94.3	79.6	86.3	—	—	4/20	2	33
Terral	TV 8525	94.2	80.2	78.0	—	—	4/13	2	31
Armor	Octane	94.0	79.3	—	—	—	4/13	1	35
Armor	ARX 1332	94.0	—	—	—	—	4/20	1	39
Delta Grow	3200	93.7	—	—	—	—	4/27	2	40

Continued.

Table 8 (cont.). Yields of 82 wheat varieties at Todd Heigle Farms, Issaquena County (Sharkey mixed clay loam soil).

Brand	Variety	2013-14 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	3523	93.5	—	—	—	—	4/20	1	37
Public	LA 06146E-P4	93.3	—	—	—	—	4/27	2	39
Dixie Bell	DB 7880	93.2	85.6	—	—	—	4/27	2	41
AGS	2035	92.9	56.6	80.8	—	—	4/13	1	37
Syngenta	SX101	92.9	—	—	—	—	4/20	1	37
Armor	ARX 1327	92.6	—	—	—	—	4/27	2	32
Limagrain Cereal Seeds	343	92.3	77.6	—	—	—	4/13	1	33
Progeny	P357	92.1	79.2	75.9	—	—	4/27	1	31
Progeny	PGX 13-6	92.1	—	—	—	—	4/6	1	34
Armor	ARX 1313	91.9	—	—	—	—	4/13	2	31
Public	GA-04434-11E44	91.7	—	—	—	—	4/20	1	38
Dixie	DXEX13-3	91.6	83.7	—	—	—	4/20	1	35
Dixie Bell	DB 412	91.5	73.4	82.2	—	—	4/27	1	37
Progeny	P125	91.5	65.6	64.2	—	—	4/20	2	37
Delta Grow	7500	90.9	83.4	83.6	—	—	4/20	1	32
Syngenta	Oakes	90.5	80.5	78.4	—	—	4/13	2	35
Pioneer	XW13X	90.1	—	—	—	—	4/20	1	35
Delta Grow	7100	89.8	—	—	—	—	4/6	1	33
Dixie Bell	DB 8980	89.3	—	—	—	—	4/27	1	36
Progeny	PGX 13-4	89.3	—	—	—	—	4/20	1	38
Terral	TV 8848	88.9	87.8	83.8	—	—	4/20	1	38
Dixie	Glory	88.9	—	—	—	—	4/27	1	33
Limagrain Cereal Seeds	448	88.6	—	—	—	—	4/6	2	33
Public	LA03200E-2	88.6	58.2	—	—	—	4/13	2	42
USG	3120	88.2	54.3	80.9	—	—	4/20	1	33
AGS	2056	87.6	—	—	—	—	4/6	1	32
Public	VA Jamestown	87.5	66.3	76.8	—	—	4/6	2	33
Dixie Bell	DB 620	87.4	81.4	89.5	—	—	4/27	2	36
Public	LA03200E-23	86.3	—	—	—	—	4/13	2	37
Progeny	P870	85.7	80.8	87.3	—	—	4/6	1	34
Syngenta	Coker 9553	85.7	75.3	79.0	—	—	4/13	1	37
Dixie	Mcalister	85.7	75.0	87.2	—	—	4/13	1	33
USG	3833	85.5	78.9	—	—	—	4/20	2	39
Syngenta	MAGNOLIA	85.0	77.2	71.8	—	—	4/13	1	38
Terral	LA841	84.7	79.0	62.6	—	—	4/6	2	34
AGS	2040	84.6	53.0	—	—	—	4/20	2	33
Public	LA05130D-P5	83.6	—	—	—	—	4/13	1	38
Delta Grow	7200	83.3	83.8	—	—	—	4/20	2	36
Progeny	PGX 13-2	81.4	—	—	—	—	4/20	1	33
Public	LA05032D-136	79.1	—	—	—	—	4/20	2	33
Public	LA05145D-118	73.6	—	—	—	—	4/13	1	34
Mean		92.9							
LSD		10.1							
Error df		243							
CV		9.4							
R-sq		38.8							

MAFES Delta Branch, Stoneville

Crop Summary

The plots were planted in late November following the soybean crop that had just been harvested. Fall rains delayed planting and made it difficult to get the plots planted, due to wet soil conditions. After planting, plots emerged to a good stand. Some bird damage was observed in the first replication. Harvest was completed in a timely manner without delays.

Planting date . . . . . November 13
Harvest date . . . . . June 18
Soil type . . . . . Sharkey clay
Soil pH 6.8
Soil fertility . . . . . P=H, K=H
Previous crop . . . . . Soybeans
Fertilizer added . . . . . N @ 120 lb/A (Urea) on February 24

Table 9. Yields of 82 wheat varieties at MAFES Delta Branch, Stoneville (Sharkey clay soil).

Brand	Variety	2013-14 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	Exp 1444	79.8	—	—	36	56	4/29	1	35
AgriMAXX	Exp 1465	79.8	—	—	32	56	4/30	1	32
USG	3251	78.9	79.6	62.7	38	57	/2	1	32
USG	3523	77.6	—	—	33	56	5/4	1	34
Terral	TV 8861	76.4	76.3	59.5	34	57	5/1	1	34
Armor	ARX 1313	75.7	—	—	37	54	4/30	1	27
Armor	ARX 1325	75.6	—	—	35	57	4/29	1	35
Delta Grow	DG720X	75.5	—	—	35	57	4/30	1	36
Dyna-Gro	9171	75.4	78.1	54.5	32	55	4/29	1	32
USG	3438	75.3	79.9	64.9	31	55	5/4	1	31
AGS	2056	74.5	—	—	34	56	5/1	1	36
Delta Grow	3200	74.3	—	—	36	56	4/29	1	31
Terral	TV 8525	73.9	75.1	56.9	35	56	4/30	1	32
Progeny	PGX 13-6	73.5	—	—	34	56	4/28	1	33
Dyna-Gro	WX 13622	73.5	—	—	32	55	4/30	1	32
USG	3201	73.5	78.4	65.5	37	57	5/1	1	27
USG	3404	73.2	—	—	35	57	5/3	1	32
Terral	TV 8535	73.1	75.2	61.1	36	58	5/3	1	28
AgriMAXX	413	72.2	75.8	62.9	34	58	5/2	1	33
Progeny	P870	72.2	78.7	55.6	36	56	4/29	1	29
Dixie	DXEX13-3	72.1	76.3	—	30	57	5/3	1	37
Pioneer	26R41	71.8	75.9	—	31	56	4/27	1	34
Progeny	P357	71.1	73.9	42.3	30	55	4/25	1	30
Armor	ARX 1327	71.0	—	—	32	56	4/29	1	35
Dixie Bell	DB 7880	71.0	73.0	—	36	56	5/3	1	37
Dixie	Mcalister	70.6	71.1	60.0	31	55	4/27	1	33
Armor	Havoc	70.3	76.2	64.3	39	57	5/6	1	30
Terral	TV 8848	70.1	75.6	52.5	36	56	5/1	1	35
Progeny	PGX 13-2	69.2	—	—	31	56	5/2	1	34
AgriMAXX	415	69.0	76.4	56.9	32	56	4/27	1	34
Delta Grow	9700	68.8	73.8	—	31	57	5/2	1	34
Armor	ARX 1332	68.6	—	—	37	56	5/4	1	28
Dixie Bell	DB 620	68.5	67.7	56.1	33	56	5/6	1	36
USG	3833	68.5	75.9	—	36	57	4/28	1	30
Dixie Bell	DB 412	67.2	75.4	48.8	30	56	4/27	1	37
Pioneer	26R53	67.0	73.1	—	34	55	5/2	1	33
Dixie Bell	DB 8980	66.9	—	—	36	56	5/2	1	29
AgriMAXX	447	66.7	—	—	34	57	5/4	1	33
Delta Grow	7200	66.6	69.1	—	34	58	5/4	1	31
AGS	2057	66.3	—	—	34	58	5/1	1	30
Limagrain Cereal Seeds	448	66.3	—	—	33	57	4/30	3	30
USG	3694	66.1	—	—	31	56	5/4	1	34
Dixie	Extreme	65.7	73.6	—	35	58	4/29	1	35

Continued.

Table 9 (cont.). Yields of 82 wheat varieties at MAFES Delta Branch, Stoneville (Sharkey clay soil).

Brand	Variety	2013-14 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	VA Jamestown	65.5	68.2	57.6	33	59	5/4	1	30
Delta Grow	7100	65.2	—	—	36	56	4/29	1	32
Delta Grow	7500	64.9	69.7	45.0	31	55	4/27	1	31
USG	3120	64.7	70.9	65.2	30	55	5/4	1	32
Terral	LA754	64.4	—	—	41	57	5/2	1	32
Armor	Octane	64.3	72.2	—	30	56	5/2	1	31
Pioneer	XW13X	63.8	—	—	34	57	5/2	1	34
Syngenta	SY Harrison	63.7	69.2	56.5	36	57	5/1	1	30
Armor	Vandal	63.4	73.7	—	35	56	4/29	1	30
AGS	2035	63.2	70.8	61.5	42	58	4/27	1	36
Pioneer	26R20	63.1	73.9	44.8	35	58	5/4	1	31
Syngenta	Oakes	62.6	67.1	57.4	31	58	4/29	1	33
Progeny	P185	62.5	67.8	50.9	32	54	4/29	1	36
Limagrain Cereal Seeds	343	62.3	68.0	—	34	56	5/2	1	31
Terral	LA821	61.7	61.7	47.3	32	57	4/29	1	33
Progeny	P125	61.6	66.0	54.1	28	54	4/29	2	30
Syngenta	Coker 9553	61.6	69.3	54.4	35	57	5/4	1	32
Pioneer	26R10	61.4	68.2	60.2	34	55	4/29	1	30
Public	GA-04434-11E44	61.4	—	—	30	57	5/1	1	28
Progeny	PGX 13-4	61.1	—	—	32	56	5/3	1	33
Syngenta	SX103	60.8	—	—	41	58	5/6	1	32
Public	LA05145D-118	60.6	—	—	32	57	4/29	1	32
Progeny	PGX 13-1	59.6	—	—	32	56	4/30	1	38
Public	LA 06146E-P4	58.8	—	—	32	56	5/4	1	32
Syngenta	SX101	58.1	—	—	39	57	4/29	1	32
Public	GA-041293-11E54	57.5	—	—	33	58	4/30	1	31
AGS	2038	57.2	69.9	—	34	55	5/4	1	29
Dyna-Gro	Baldwin	56.8	67.6	62.5	38	58	4/27	1	32
Public	GA-041293-11LE37	56.1	—	—	30	57	4/29	1	32
Public	LA03200E-23	56.0	—	—	43	58	4/28	1	28
Public	LA05130D-P5	55.9	—	—	37	57	5/4	1	28
AGS	2040	55.5	60.5	—	35	55	5/4	1	33
Syngenta	SX102	54.8	—	—	39	58	5/2	1	29
Syngenta	MAGNOLIA	54.3	66.2	55.5	34	55	5/4	1	30
Public	LA03200E-2	53.2	66.0	—	35	58	4/28	1	33
Pioneer	26R87	53.0	64.5	65.6	38	58	4/29	1	31
Public	LA05032D-136	51.7	—	—	37	58	5/4	1	32
Dixie	Glory	50.8	—	—	31	56	4/25	1	36
Terral	LA841	50.8	58.5	59.1	34	56	5/3	1	27
Mean		65.9							
LSD		7.0							
Error df		243							
CV		9.1							
R-sq		71.0							

MSU Coastal R&E Center, Beaumont

Crop Summary

All plots were planted into a well-prepared seedbed that was disked and harrowed just before planting. Conditions were favorable at planting for germination. All plots emerged to a uniform stand. Weather was favorable throughout the season for plant growth and development. Plots were harvested under good weather conditions.

Planting date . . . . . November 6
Harvest date . . . . . June 6
Soil type . . . . . McLaurin sandy loam
Soil pH 6.5
Soil fertility . . . . . P=H, K=H
Previous crop . . . . . Wheat
Fertilizer added . . . . . Preplant — 13-13-13 @ 200 lb/A, N @ 125 lb/A (33-0-0) on March 14
Herbicide application . . . Harmony Extra SG @ 0.6 oz/A, Axial XL @ 16.4 oz/A on March 13

Table 10. Yields of 82 wheat varieties at MSU Coastal R&E Center, Beaumont (McLaurin sandy loam).

Brand	Variety	2013-14 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*
AGS	2056	86.8	—	—	34	51.8	4/3	1	31
Dixie	Glory	84.0	—	—	33	51.0	4/5	1	30
Delta Grow	3200	83.8	—	—	34	52.0	4/6	1	42
Terral	TV 8525	80.7	78.5	—	43	50.8	4/6	2	33
Limagrain Cereal Seeds	343	80.2	76.9	—	35	50.8	4/6	1	31
Delta Grow	DG720X	79.6	—	—	32	51.8	4/8	1	35
Pioneer	26R53	79.4	79.3	—	32	51.3	4/6	1	35
Armor	Vandal	79.4	81.7	—	34	53.8	3/27	1	34
Armor	ARX 1325	79.4	—	—	34	51.5	4/8	1	33
USG	3523	79.1	—	—	39	52.3	3/25	1	37
Terral	LA841	78.4	72.3	—	45	51.3	3/31	1	33
Syngenta	SY Harrison	78.3	76.5	—	33	51.3	4/11	1	36
Delta Grow	7100	77.9	—	—	34	52.3	4/5	1	34
AGS	2035	77.4	77.9	—	39	52.3	4/3	1	42
USG	3251	77.4	78.8	—	36	50.5	4/5	1	42
Delta Grow	7500	77.4	76.0	—	34	52.8	4/8	1	37
Armor	Havoc	77.4	79.8	—	38	50.3	4/1	1	33
Syngenta	SX103	77.0	—	—	40	51.0	3/29	1	31
AGS	2057	76.7	—	—	36	52.0	3/30	1	36
AgriMAXX	Exp 1444	76.3	—	—	40	50.8	4/5	1	33
Delta Grow	9700	76.1	77.5	—	30	51.3	4/6	1	33
USG	3833	75.8	79.6	—	31	52.0	4/5	1	33
Dyna-Gro	9171	75.2	78.0	—	36	52.8	4/6	1	35
Progeny	PGX 13-6	74.7	—	—	43	52.5	3/29	1	39
Dyna-Gro	WX 13622	74.4	—	—	32	53.3	4/12	1	40
Progeny	PGX 13-1	74.1	—	—	32	51.0	4/9	1	33
Public	LA03200E-2	74.1	76.4	—	41	51.3	3/30	1	32
Progeny	PGX 13-4	73.9	—	—	35	52.5	4/4	1	41
Terral	TV 8535	73.8	75.5	—	32	51.0	4/6	1	32
Progeny	P125	73.8	72.1	—	32	50.5	4/4	1	40
USG	3201	73.7	78.5	—	36	52.3	4/5	1	34
AGS	2040	73.6	69.5	—	31	51.5	4/8	1	35
Public	VA Jamestown	73.6	72.2	—	30	49.3	4/8	1	39
Terral	TV 8848	73.5	77.3	—	33	52.8	4/6	1	35
Pioneer	26R20	73.3	79.0	—	34	50.3	4/6	1	34
Dixie Bell	DB 620	73.1	70.0	—	30	50.8	4/6	1	40
AgriMAXX	413	73.0	76.2	—	30	51.8	4/12	1	31
Dixie Bell	DB 412	73.0	78.3	—	31	51.8	4/4	1	32
USG	3694	73.0	—	—	30	53.3	3/31	1	36
Terral	TV 8861	73.0	74.6	—	37	52.3	3/29	1	34
Armor	ARX 1332	72.9	—	—	32	51.0	4/8	1	34
Dixie Bell	DB 8980	72.8	—	—	34	51.3	4/13	1	31

Continued.

Table 10 (cont.). Yields of 82 wheat varieties at MSU Coastal R&E Center, Beaumont (McLaurin sandy loam).

Brand	Variety	2013-14 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	Mcalister	72.5	72.0	—	33	52.8	4/6	1	27
Public	LA03200E-23	72.5	—	—	35	50.8	4/3	1	37
Pioneer	26R41	72.3	76.2	—	29	50.0	4/8	1	36
Pioneer	XW13X	71.7	—	—	33	53.5	4/6	1	33
Public	GA-04434-11E44	71.4	—	—	30	50.8	4/6	1	29
Progeny	P185	71.3	72.2	—	31	51.3	4/13	1	33
AgriMAXX	Exp 1465	71.1	—	—	30	50.3	4/6	1	31
Armor	Octane	71.1	75.6	—	33	51.8	4/4	1	39
USG	3404	71.0	—	—	30	51.0	4/6	1	34
Progeny	P870	70.9	78.1	—	30	52.5	4/2	1	31
AgriMAXX	447	70.7	—	—	34	51.0	4/6	1	32
Dyna-Gro	Baldwin	70.5	74.5	—	32	52.3	4/6	2	31
Public	LA 06146E-P4	69.9	—	—	31	50.8	4/5	1	34
Delta Grow	7200	69.9	70.8	—	33	51.0	4/5	1	31
Public	GA-041293-11LE37	69.8	—	—	27	50.0	4/3	1	35
Terral	LA754	69.8	—	—	35	51.0	3/29	1	34
Armor	ARX 1313	69.8	—	—	29	52.0	4/5	1	40
Pioneer	26R87	69.7	72.9	—	35	53.3	4/8	1	36
USG	3438	69.6	77.1	—	31	49.0	4/9	1	36
Progeny	PGX 13-2	68.6	—	—	31	50.8	4/6	1	31
Armor	ARX 1327	68.5	—	—	33	51.3	4/9	1	36
Syngenta	MAGNOLIA	68.2	73.2	—	32	52.0	3/31	1	30
Syngenta	SX102	68.1	—	—	32	52.3	4/5	1	29
Public	LA05130D-P5	67.9	—	—	31	52.3	3/31	1	31
AgriMAXX	415	67.9	75.9	—	32	52.3	4/5	1	40
Public	LA05145D-118	67.9	—	—	36	51.5	4/6	1	35
Pioneer	26R10	67.0	71.0	—	28	53.0	4/3	1	30
Dixie	DXEX13-3	67.0	73.7	—	45	51.3	3/30	1	33
AGS	2038	66.6	74.6	—	33	52.8	4/8	1	37
Dixie Bell	DB 7880	66.2	70.6	—	32	51.3	4/11	1	38
Syngenta	SX101	66.0	—	—	31	51.3	4/2	1	37
Terral	LA821	65.6	63.6	—	36	49.5	3/30	1	35
Progeny	P357	65.2	71.0	—	32	50.5	4/12	1	34
Limagrain Cereal Seeds	448	65.1	—	—	34	52.8	4/6	1	36
Public	GA-041293-11E54	65.0	—	—	32	52.0	3/31	1	36
Dixie	Extreme	64.9	73.2	—	33	51.0	4/5	1	29
Syngenta	Coker 9553	64.5	70.7	—	39	53.0	3/25	1	31
USG	3120	62.6	69.9	—	34	50.8	4/8	1	34
Syngenta	Oakes	62.5	67.1	—	37	51.3	4/2	1	32
Public	LA05032D-136	62.2	—	—	39	51.3	4/2	1	30
Mean		72.5							
LSD		9.8							
Error df		243							
CV		11.6							
R-sq		39.2							

MAFES Brown Loam Branch, Raymond

Crop Summary

The plots were planted into a seedbed that was disked and harrowed just before planting. All plots emerged to a good stand. Below-average temperatures were recorded for several days during early spring, but no freeze injury was observed in the plots. Harvest conditions were good and wheat was harvested in a timely manner.

Planting date . . . . . **November 13**
Harvest date . . . . . **June 9**
Soil type . . . . . **Loring silt loam**
Soil pH **5.5**
Soil fertility . . . . . **P=H, K=H**
Previous crop . . . . . **Corn**
Fertilizer added . . . . . **Preplant — N @ 100 lb/A (33-0-0), N @ 92 lb/A (33-0-0) on March 14; N @ 46 lb/A (33-0-0) on April 3**
Herbicide application . . . . **Harmony Extra SG @ 0.6 oz/A, Axial XL @ 16.4 oz/A**

Table 11. Yields of 82 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).

Brand	Variety	2013-14 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	Havoc	90.0	74.3	43.5	37	54	4/21	1	32
Armor	Vandal	89.3	76.0	—	33	54	4/17	1	29
USG	3201	88.4	39.8	60.0	39	57	4/23	1	31
AgriMAXX	415	87.8	61.9	49.3	37	53	4/25	1	29
Armor	ARX 1327	86.0	—	—	38	55	4/25	1	30
Syngenta	SX102	85.9	—	—	32	52	4/25	2	30
Pioneer	26R20	85.8	71.9	—	38	53	4/23	1	37
Pioneer	XW13X	85.5	—	—	34	50	4/25	1	32
AgriMAXX	Exp 1465	85.4	—	—	34	53	4/25	1	34
USG	3251	84.6	40.6	44.2	37	55	4/17	1	34
Delta Grow	7500	83.5	74.0	56.2	34	50	4/23	1	29
Progeny	P870	83.2	86.2	61.9	37	52	4/23	1	34
Delta Grow	3200	83.1	—	—	40	52	4/23	1	32
Pioneer	26R10	83.0	79.6	—	35	52	4/21	1	32
Delta Grow	DG720X	83.0	—	—	37	49	4/23	1	33
AGS	2056	82.7	—	—	33	54	4/25	1	29
Pioneer	26R87	82.6	72.5	39.4	46	56	4/17	1	31
Dixie Bell	DB 620	82.5	81.1	56.1	35	53	4/21	1	33
USG	3120	82.5	41.5	66.3	34	52	4/23	1	30
Pioneer	26R53	82.4	37.7	37.6	38	54	4/25	1	31
Terral	LA754	82.0	—	—	35	54	4/21	1	32
Dixie Bell	DB 412	81.9	72.4	42.3	34	54	4/21	1	41
Progeny	PGX 13-2	81.5	—	—	32	52	4/23	1	30
Armor	ARX 1332	81.3	—	—	34	51	4/23	1	37
Terral	TV 8848	81.2	41.0	57.0	38	56	4/25	1	34
Pioneer	26R41	81.1	73.9	56.2	34	53	4/25	1	39
Dyna-Gro	WX 13622	81.0	—	—	32	54	4/21	1	32
Terral	TV 8535	81.0	42.7	64.9	37	56	4/21	1	32
Delta Grow	7200	81.0	73.9	—	34	54	4/25	1	36
Syngenta	SY Harrison	80.6	34.3	38.9	35	56	4/17	1	29
Public	LA03200E-2	80.6	34.4	—	34	55	4/17	1	36
USG	3833	80.5	40.2	—	34	52	4/28	1	34
Armor	ARX 1313	80.5	—	—	39	52	4/25	1	30
Armor	ARX 1325	79.6	—	—	34	54	4/25	1	35
Terral	TV 8861	79.3	37.4	50.6	37	53	4/25	1	32
USG	3694	79.2	—	—	34	50	4/23	1	32
USG	3523	78.7	—	—	41	54	4/17	1	31
Dixie	Extreme	78.2	84.8	—	33	53	4/28	1	31
USG	3438	78.1	35.7	49.2	33	52	4/17	1	34
Progeny	PGX 13-1	78.1	—	—	36	54	4/25	1	34
USG	3404	78.0	—	—	36	51	4/23	1	33
Dixie	DXEX13-3	78.0	—	—	36	54	4/25	1	32

Continued.

Table 11 (cont.). Yields of 82 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).

Brand	Variety	2013-14 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 Bell	DB 7880	77.7	60.1	—	35	52	4/25	1	32
Progeny	P185	77.6	82.6	45.7	35	50	4/25	1	33
Dixie	Mcalister	77.0	68.1	59.5	32	53	4/21	1	31
Dixie Bell	DB 8980	76.7	—	—	38	54	4/25	1	32
Syngenta	SX103	76.5	—	—	40	56	4/21	1	33
AGS	2057	76.3	—	—	33	53	4/25	1	35
AgriMAXX	413	76.0	53.7	54.0	37	55	4/23	1	30
Armor	Octane	76.0	75.5	—	42	54	4/17	1	33
AgriMAXX	Exp 1444	75.5	—	—	33	49	4/25	1	32
Syngenta	SX101	75.3	—	—	40	54	4/30	1	38
AGS	2040	75.0	56.5	—	36	55	4/23	1	33
Terral	TV 8525	75.0	42.7	51.3	37	54	4/23	1	33
Limagrain Cereal Seeds	448	74.7	—	—	34	54	4/23	1	30
Dyna-Gro	9171	74.6	60.6	66.0	31	53	4/21	1	35
Progeny	PGX 13-6	73.8	—	—	32	50	4/17	1	32
Syngenta	Oakes	73.2	40.5	46.6	34	55	4/21	1	35
Public	LA05130D-P5	73.2	—	—	33	55	4/28	1	34
AgriMAXX	447	72.7	—	—	43	54	4/21	1	34
AGS	2035	72.2	61.8	49.1	40	55	4/21	1	36
Syngenta	MAGNOLIA	72.2	36.9	73.8	36	54	4/23	1	39
Terral	LA821	72.2	36.4	41.9	37	56	4/17	1	32
Public	LA05032D-136	72.0	—	—	37	55	4/23	1	34
Progeny	P125	71.9	64.7	52.3	33	53	4/17	1	35
Public	LA 06146E-P4	71.6	—	—	34	34	4/28	1	34
Delta Grow	7100	71.5	—	—	35	50	4/25	1	29
Public	LA03200E-23	71.2	—	—	37	54	4/17	1	33
AGS	2038	70.8	61.2	—	39	53	4/23	1	34
Dyna-Gro	Baldwin	70.2	79.6	68.5	36	53	4/25	1	37
Public	GA-04434-11E44	70.0	—	—	35	56	4/21	1	37
Delta Grow	9700	69.6	67.4	—	40	54	4/25	1	35
Progeny	PGX 13-4	68.9	—	—	33	53	4/25	1	30
Public	LA05145D-118	68.8	—	—	35	52	4/25	1	34
Public	GA-041293-11LE37	68.5	—	—	32	55	4/25	1	31
Terral	LA841	67.4	37.7	40.5	35	51	4/17	1	31
Dixie	Glory	67.3	75.4	—	34	49	4/28	1	29
Public	GA-041293-11E54	67.1	—	—	36	55	4/25	1	34
Public	VA Jamestown	65.4	40.8	47.2	32	54	4/21	1	30
Progeny	P357	63.8	39.4	31.4	32	53	4/25	1	33
Limagrain Cereal Seeds	343	63.5	78.5	—	37	54	4/21	1	30
Syngenta	Coker 9553	63.2	34.4	57.0	36	56	4/21	1	32
Mean		77.3							
LSD		8.8							
Error df		243							
CV		9.8							
R-sq		51.8							

Walter Pillow and Sons Farm, Leflore County

Crop Summary

The wheat plots were planted into a conventionally tilled seedbed that had been disked and harrowed smooth. Conditions at planting were favorable for germination. The plots quickly emerged to a good stand. Timely fertilizer applications and favorable growing conditions allowed for good yields to be achieved. Harvest was completed in a timely manner without difficulties.

Planting date . . . . . October 22
Harvest date . . . . . June 5
Soil type . . . . . Mix of Dubbs and Dundee loam
Soil pH 5.9
Soil fertility . . . . . P=H, K=H
Previous crop . . . . . Soybeans
Fertilizer added . . . . . DAP @100 lb/A on October 25; (40-0-0-5.75) @ 175 lb/A on February 25; Urea @ 152 lb/A on March 24
Herbicide application . . . Axial XL @ 16.38 oz/A on December 20
Fungicide application . . . Prosaro @ 6.9 oz/A on April 26

Table 12. Walter Pillow and Sons Farm, Leflore County (Dubbs and Dundee loam soil).

Brand	Variety	2013-14 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	106.7	—	—	38	59	—	1	38
Pioneer	26R41	105.2	99.4	—	34	58	—	1	42
Delta Grow	3200	104.1	—	—	35	60	—	1	34
Pioneer	26R53	101.9	99.0	—	35	57	—	1	36
AGS	2056	100.6	—	—	35	58	—	1	38
Delta Grow	DG720X	100.5	—	—	37	58	—	1	39
Dyna-Gro	WX 13622	100.3	—	—	33	56	—	1	37
Syngenta	SY Harrison	100.1	96.0	80.8	37	58	—	1	37
Dyna-Gro	9171	100.1	99.9	85.3	33	57	—	1	34
AgriMAXX	Exp 1444	99.7	—	—	38	57	—	1	38
Progeny	PGX 13-2	99.5	—	—	39	58	—	1	38
USG	3251	99.5	97.6	84.5	39	59	—	1	38
Armor	ARX 1332	99.2	—	—	37	59	—	1	35
AgriMAXX	413	98.6	96.7	82.6	32	59	—	1	35
Progeny	PGX 13-1	98.6	—	—	34	58	—	1	38
Pioneer	26R20	97.3	90.9	81.2	38	59	—	1	38
USG	3201	97.2	97.8	87.4	39	59	—	1	37
AgriMAXX	Exp 1465	97.1	—	—	38	58	—	1	37
Delta Grow	7500	96.9	93.8	79.7	33	57	—	1	36
Terral	TV 8861	96.3	93.8	79.8	39	58	—	1	39
Armor	Vandal	95.9	97.8	—	42	58	—	1	41
Armor	Octane	95.4	94.2	—	37	56	—	1	35
USG	3833	94.8	94.5	—	41	58	—	1	35
Progeny	PGX 13-6	94.7	—	—	37	57	—	1	40
Terral	TV 8848	94.7	94.1	78.5	41	59	—	1	38
AGS	2057	94.6	—	—	34	59	—	1	35
AgriMAXX	415	94.5	94.7	83.6	33	56	—	1	35
Terral	TV 8535	94.4	95.4	82.9	37	58	—	1	38
Delta Grow	9700	94.1	93.1	—	36	56	—	1	36
Dixie Bell	DB 8980	93.8	—	—	35	59	—	1	34
Dixie Bell	DB 620	93.4	93.1	74.6	35	57	—	1	36
Delta Grow	7100	92.8	—	—	37	57	—	1	37
AgriMAXX	447	92.6	—	—	35	58	—	1	39
USG	3523	92.5	—	—	35	58	—	1	36
Syngenta	Oakes	91.8	87.0	75.8	33	60	—	1	36
Armor	Havoc	91.8	96.2	81.1	39	59	—	1	36
Armor	ARX 1313	91.0	—	—	38	55	—	1	36
Dyna-Gro	Baldwin	90.9	95.2	80.9	41	59	—	1	41
USG	3438	90.8	92.1	78.5	32	56	—	1	36
Terral	TV 8525	90.7	88.6	76.7	35	58	—	1	37
Dixie	Glory	90.5	—	—	36	59	—	1	39

Continued.

Table 12 (cont.). Walter Pillow and Sons Farm, Leflore County (Dubbs and Dundee loam soil).

Brand	Variety	2013-14 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	89.8	88.7	—	36	57	—	1	39
Limagrain Cereal Seeds	448	89.5	—	—	36	57	—	1	39
AGS	2038	89.3	86.6	—	33	57	—	1	36
Dixie Bell	DB 412	89.3	86.0	73.1	32	58	—	1	42
Progeny	P870	89.2	92.9	81.7	38	57	—	1	37
Armor	ARX 1327	89.1	—	—	35	58	—	1	40
Pioneer	26R10	87.9	90.7	76.7	39	57	—	1	35
Progeny	P357	86.2	89.3	71.2	34	56	—	1	35
USG	3694	85.9	—	—	32	58	—	1	38
Progeny	PGX 13-4	85.8	—	—	34	57	—	1	35
Dixie Bell	DB 7880	85.6	83.7	—	36	55	—	1	39
Delta Grow	7200	85.4	86.8	—	36	58	—	1	35
Syngenta	Coker 9553	85.1	77.7	69.5	37	59	—	1	38
USG	3404	84.8	—	—	34	56	—	1	37
Syngenta	SX102	84.6	—	—	43	60	—	1	37
Syngenta	SX103	84.5	—	—	44	60	—	1	37
Dixie	Mcalister	83.4	87.1	75.0	34	57	—	1	34
Public	GA-041293-11LE37	83.3	—	—	35	60	—	1	35
Public	LA05032D-136	82.3	—	—	35	60	—	1	38
Progeny	P185	81.9	82.0	66.9	35	54	—	1	35
Limagrain Cereal Seeds	343	81.1	77.8	—	38	59	—	1	36
Public	GA-041293-11E54	81.0	—	—	34	59	—	1	36
Public	LA03200E-23	78.7	—	—	42	59	—	1	34
Pioneer	26R87	77.9	81.0	70.5	41	59	—	1	35
Public	LA05130D-P5	77.5	—	—	38	60	—	1	36
Terral	LA754	77.5	—	—	42	57	—	1	38
Dixie	Extreme	77.1	85.8	—	41	60	—	1	44
Public	LA 06146E-P4	76.1	—	—	34	58	—	1	38
Progeny	P125	75.2	67.3	56.7	32	56	—	1	37
AGS	2040	73.7	66.9	—	35	58	—	1	37
Public	LA03200E-2	73.6	73.2	—	36	59	—	1	38
AGS	2035	73.6	69.3	62.8	44	59	—	1	38
Syngenta	MAGNOLIA	73.3	77.1	65.1	37	56	—	1	37
Public	VA Jamestown	72.4	75.6	66.4	33	60	—	1	35
Syngenta	SX101	72.2	—	—	39	59	—	1	39
Pioneer	XW13X	71.4	—	—	40	59	—	1	35
USG	3120	69.9	64.3	61.6	32	56	—	1	34
Public	LA05145D-118	69.4	—	—	36	56	—	1	36
Terral	LA821	68.3	70.1	59.9	36	57	—	1	38
Public	GA-04434-11E44	67.0	—	—	30	57	—	1	34
Terral	LA841	66.4	71.8	62.7	38	55	—	1	38
Mean		88.2							
LSD		10.0							
Error df		243							
CV		9.8							
R-sq		66.6							

Clifton Farms, Hernando

Crop Summary

Wheat plots were planted no-till following the previous soybeans that had recently been harvested. Wheat emerged to excellent stand; green up was later than normal due to temperatures that were below average and rainfall that was above average. Plant growth and development continued to be slower than normal due to cooler weather. Excess rain after maturity slightly delayed harvest and possibly had a negative impact on each variety's yield potential. Harvest was completed without any difficulties.

Planting date	**November 11**
Harvest date	**June 20**
Soil type	**Collins silt loam soil**
Soil pH	**5.8**
Soil fertility	**P=M, K=M**
Previous crop	**Soybeans**
Fertilizer added	**45-0-60-10S on March 1; N @ 50 lb/A (32% UAN) on April 3**
Herbicide application	**Preemergence burndown — Quick-Quat (generic Gramoxone) @ 1 qt (0.75# active) + 1% 80-20 Postemergence — Axial @ 16.4 oz/A, Harmony @ 0.5 oz/A on April 1**
Growth regulator application	**Palisade 2EC @ 10 oz/A on April 1**
Fungicide application	**Vibe (Tebuconazole) @ 4 oz/A on May 2**

Table 13. Yields of 82 wheat varieties at Clifton Farms, Hernando (Collins silt loam soil).

Brand	Variety	2013-14 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*
Limagrain Cereal Seeds	343	93.0	74.9	—	—	—	5/2	1	31
Terral	TV 8525	90.5	74.4	—	—	—	4/30	1	32
Pioneer	26R10	90.1	79.8	—	—	—	4/29	1	30
Armor	ARX 1327	90.0	—	—	—	—	4/29	1	29
Pioneer	XW13X	89.0	—	—	—	—	5/2	1	35
Dyna-Gro	9171	87.8	76.1	—	—	—	4/29	1	32
Dixie	Extreme	86.1	75.5	—	—	—	4/29	1	37
Public	LA05032D-136	86.1	—	—	—	—	5/4	1	32
Delta Grow	3200	84.7	—	—	—	—	4/29	1	27
Progeny	PGX 13-2	83.9	—	—	—	—	5/2	1	32
Delta Grow	DG720X	83.8	—	—	—	—	4/30	1	32
Syngenta	SX101	82.4	—	—	—	—	4/29	1	35
Terral	TV 8848	81.7	69.4	—	—	—	5/1	1	35
Terral	TV 8535	81.6	67.2	—	—	—	5/3	1	28
USG	3201	81.3	70.4	—	—	—	5/1	1	27
USG	3404	81.2	—	—	—	—	5/3	1	30
AgriMAXX	Exp 1465	79.8	—	—	—	—	4/30	1	36
Public	LA03200E-2	79.5	66.2	—	—	—	4/28	1	32
Progeny	PGX 13-6	79.2	—	—	—	—	4/28	1	31
USG	3523	79.2	—	—	—	—	5/4	1	30
Terral	TV 8861	79.1	69.6	—	—	—	5/1	1	34
Dyna-Gro	WX 13622	79.1	—	—	—	—	4/30	1	32
Syngenta	SX103	79.1	—	—	—	—	5/6	1	28
Armor	ARX 1332	79.0	—	—	—	—	5/4	1	34
Dyna-Gro	Baldwin	78.8	75.8	—	—	—	4/27	1	32
Public	GA-041293-11LE37	78.7	—	—	—	—	4/29	1	32
USG	3694	78.5	—	—	—	—	5/4	1	31
Syngenta	SY Harrison	78.4	71.4	—	—	—	4/30	1	30
Terral	LA754	78.1	—	—	—	—	5/2	1	28

Continued.

Table 13 (cont.). Yields of 82 wheat varieties at Clifton Farms, Hernando (Collins silt loam soil).

Brand	Variety	2013-14 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	Exp 1444	77.8	—	—	—	—	4/29	1	30
AGS	2057	77.8	—	—	—	—	5/1	1	33
Armor	ARX 1325	77.7	—	—	—	—	4/29	1	32
USG	3251	77.5	71.2	—	—	—	/2	1	32
Delta Grow	7100	76.6	—	—	—	—	4/29	1	28
Dixie Bell	DB 620	76.5	71.5	—	—	—	5/6	1	36
Delta Grow	7200	76.0	65.3	—	—	—	5/4	1	34
Dixie Bell	DB 8980	75.7	—	—	—	—	5/2	1	34
Armor	ARX 1313	75.4	—	—	—	—	4/30	1	32
Public	LA05145D-118	75.2	—	—	—	—	4/29	1	35
Progeny	P185	75.2	62.4	—	—	—	4/29	1	36
Public	GA-041293-11E54	75.1	—	—	—	—	4/30	1	35
USG	3120	74.9	64.2	—	—	—	5/4	1	32
Pioneer	26R53	73.9	67.2	—	—	—	5/2	1	33
Public	VA Jamestown	73.9	60.9	—	—	—	4/28	1	30
Delta Grow	9700	73.0	69.3	—	—	—	5/2	1	32
Armor	Vandal	73.0	66.1	—	—	—	4/29	1	31
Pioneer	26R41	73.0	61.7	—	—	—	4/27	1	34
Progeny	PGX 13-1	72.7	—	—	—	—	4/30	1	33
Dixie	DXEX13-3	72.0	66.7	—	—	—	5/3	1	29
Armor	Havoc	71.7	66.3	—	—	—	5/6	1	30
Progeny	P125	71.7	61.3	—	—	—	4/29	2	30
AGS	2040	71.5	59.2	—	—	—	5/4	1	33
Public	LA05130D-P5	71.4	—	—	—	—	5/4	1	32
USG	3438	70.8	60.8	—	—	—	5/4	1	31
Terral	LA821	70.8	58.9	—	—	—	4/29	1	33
AgriMAXX	413	70.4	64.0	—	—	—	5/2	1	33
Public	GA-04434-11E44	69.9	—	—	—	—	5/1	1	34
Armor	Octane	69.9	63.7	—	—	—	5/2	1	32
AGS	2056	69.6	—	—	—	—	5/1	1	28
Syngenta	Coker 9553	69.5	54.0	—	—	—	5/4	1	32
Progeny	P357	69.5	62.8	—	—	—	4/25	1	30
Limagrain Cereal Seeds	448	69.4	—	—	—	—	4/30	3	31
USG	3833	69.2	63.1	—	—	—	4/28	1	34
AgriMAXX	415	68.5	65.8	—	—	—	4/27	1	34
AGS	2038	67.8	62.8	—	—	—	5/4	1	30
Syngenta	Oakes	67.1	55.4	—	—	—	4/29	1	33
Progeny	P870	66.1	62.1	—	—	—	4/29	1	29
AGS	2035	66.0	59.3	—	—	—	4/27	1	36
Public	LA 06146E-P4	65.6	—	—	—	—	5/4	1	36
Progeny	PGX 13-4	65.3	—	—	—	—	5/3	1	36
AgriMAXX	447	65.0	—	—	—	—	5/4	1	32
Pioneer	26R20	64.5	57.7	—	—	—	5/4	1	31
Dixie Bell	DB 412	63.3	61.2	—	—	—	4/27	1	37
Pioneer	26R87	62.5	58.7	—	—	—	4/29	1	31
Public	LA03200E-23	62.3	—	—	—	—	4/28	1	28
Dixie	Glory	62.0	—	—	—	—	4/25	1	38
Dixie Bell	DB 7880	61.0	55.2	—	—	—	5/3	1	37
Syngenta	MAGNOLIA	58.5	57.6	—	—	—	5/4	1	30
Delta Grow	7500	57.8	63.4	—	—	—	4/27	1	31
Dixie	Mcalister	55.4	60.4	—	—	—	4/27	1	33
Terral	LA841	54.2	53.7	—	—	—	5/3	1	27
Syngenta	SX102	54.0	—	—	—	—	5/2	1	33
Mean		74.1							
LSD		12.4							
Error df		162							
CV		14.4							
R-sq		50.1							

Wheat and Oat Seeds per Pound

Table 14. Average number of wheat seeds per pound

Brand	Variety	2013–14	Brand	Variety	2013–14
AgriMAXX	447	13,000	Pioneer	26R87	11,528
AgriMAXX	413	14,000	Progeny	P870	11,359
AgriMAXX	Exp 1465	10,800	Progeny	PGX 13-6	10,255
AgriMAXX	415	11,400	Progeny	P125	11,709
AgriMAXX	Exp 1444	11,450	Progeny	P185	11,079
AGS	2035	8,092	Progeny	PGX 13-1	10,412
AGS	2057	11,634	Progeny	PGX 13-4	8,925
AGS	2038	9,736	Progeny	PGX 13-2	10,733
AGS	2056	10,877	Progeny	P357	10,541
AGS	2040	10,520	Public	GA-041293-11LE37	10,744
Armor	ARX 1325	9,966	Public	LA03200E-2	9,390
Armor	ARX 1332	10,740	Public	GA-041293-11E54	10,108
Armor	Octane	10,735	Public	LA03200E-23	9,456
Armor	Vandal	9,663	Public	LA05130D-P5	9,263
Armor	Havoc	10,755	Public	GA-04434-11E44	10,851
Armor	ARX 1327	11,450	Public	LA 06146E-P4	10,778
Armor	ARX 1313	8,864	Public	LA05145D-118	10,539
Delta Grow	9700	10,216	Public	VA Jamestown	11,269
Delta Grow	7500	11,852	Public	LA05032D-136	10,661
Delta Grow	7200	10,669	Syngenta	SX102	10,489
Delta Grow	DG720X	9,864	Syngenta	Oakes	10,607
Delta Grow	7100	10,387	Syngenta	SY Harrison	10,538
Delta Grow	3200	10,787	Syngenta	MAGNOLIA	9,958
Dixie	Extreme	10,192	Syngenta	Coker 9553	11,038
Dixie	DXEX13-3	8,529	Syngenta	SX103	10,631
Dixie	Mcalister	8,788	Syngenta	SX101	9,787
Dixie	Glory	10,265	Terral	LA821	11,274
Dixie Bell	DB 8980	9,814	Terral	TV 8861	9,865
Dixie Bell	DB 7880	10,461	Terral	LA841	11,582
Dixie Bell	DB 620	10,222	Terral	LA754	8,222
Dixie Bell	DB 412	10,402	Terral	TV 8535	11,555
Dyna-Gro	Baldwin	9,336	Terral	TV 8848	10,281
Dyna-Gro	WX 13622	9,917	Terral	TV 8525	9,768
Dyna-Gro	9171	11,306	USG	3120	10,513
Limagrain Cereal Seeds	343	10,446	USG	3694	11,073
Limagrain Cereal Seeds	448	10,844	USG	3201	10,070
Pioneer	26R53	10,156	USG	3251	9,888
Pioneer	26R41	10,016	USG	3404	9,692
Pioneer	26R10	11,216	USG	3833	10,183
Pioneer	XW13X	8,993	USG	3523	10,694
Pioneer	26R20	11,147	USG	3438	11,853

Table 15. Average number of oat seeds per pound

Brand	Variety	2013–14
Plantation Seed	Horizon 270	12,441
Plantation Seed	Horizon 306	11,374
Plantation Seed	Horizon 201	11,626
Public	LA07048SBSB-28	13,206
Public	LA02065SBSBSBSB-88	10,904
Public	LA07007SBSB-68	13,094
TAMO	606T	
TAMO	606	

Summary of Oat Yields

Table 16. 2013–14 yield summary of oat variety trials in Mississippi

Brand	Variety	Brooksville (North)	Beaumont	Newton	Raymond	South avg.	Stoneville	Overall avg.	
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	
Plantation Seed	Horizon 201	68.9	85.5	59.1	142.9	95.8	92.6	89.8	
Plantation Seed	Horizon 270	81.3	87.7	53.3	136.4	92.4	111.8	94.1	
Plantation Seed	Horizon 306	63.3	108.9	52.3	125.7	95.6	105.4	91.1	
Public	LA02065SBSBSBSB-88	45.2	85.0	44.7	106.8	78.8	61.6	68.7	
Public	LA07007SBSB-68	61.1	45.7	33.6	100.2	59.9	45.3	57.2	
Public	LA07048SBSB-28	69.2	58.8	62.4	107.0	76.0	71.7	73.8	
TAMO	606	42.2	82.3	41.3	115.9	79.8	71.6	70.7	
TAMO	606T	62.3	71.8	43.5	124.8	80.0	93.4	79.2	
Mean		61.7	78.2	48.8	120.0	82.3	81.7	78.1	
LSD		14.8	15.2	6.0	11.7		16.8		
Error df		21	21	21	21		7		
CV		19.7	16.0	10.2	8.0		10.8		
R-sq		63.4	80.0	83.8	77.0		93.1		

MAFES Black Belt Branch, Brooksville

Crop Summary

The plots were planted into a well-prepared seedbed. Soil moisture was good, and plots quickly emerged to a good stand. The early-spring temperatures were below average, and the weather was very wet. The wet weather did not allow for a second application of nitrogen. Upon oat maturity, wet weather returned and delayed harvest by 3 weeks. It is important to consider the amount of rainfall received during the harvest season, when looking at yields at this location.

Planting date . . . . . October 28
Harvest date . . . . . July 2
Soil type . . . . . Brooksville silty clay
Soil pH 6.3
Soil fertility . . . . . P=M, K=M
Previous crop . . . . . Soybeans
Fertilizer added . . . Preplant — 13-13-13 @ 300 lb/A, N @ 100 lb/A (Urea) on March 12

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

Brand	Variety	2013-14 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	81.3	—	—	35	4/29	2	37
Public	LA07048SBSB-28	69.2	—	—	35	4/27	1	44
Plantation Seed	Horizon 201	68.9	—	—	36	4/29	2	41
Plantation Seed	Horizon 306	63.3	—	—	39	5/1	2	38
TAMO	606T	62.3	—	—	37	5/2	5	39
Public	LA07007SBSB-68	61.1	—	—	37	4/27	4	42
Public	LA02065SBSBSBSB-88	45.2	—	—	36	4/27	1	40
TAMO	606	42.2	—	—	38	5/3	5	41
Mean		61.7						
LSD		14.8						
Error df		21						
CV		19.7						
R-sq		63.4						

MAFES Delta Branch, Stoneville

Crop Summary

The plots were planted in late November following the soybean crop that had just been harvested. Fall rains delayed planting and made it difficult to get the plots planted, due to wet soil conditions. After planting, plots emerged to a good stand. Some bird damage was observed in the first replication. Harvest was completed in a timely manner without delays.

Planting date . . . . . November 13
Harvest date . . . . . June 18
Soil type . . . . . Sharkey clay
Soil pH 6.8
Soil fertility . . . . . P=H, K=H
Previous crop . . . . . Soybeans
Fertilizer added . . . . . N @ 120 lb/A (Urea) on February 24

Table 18. Yields of eight oat varieties at MAFES Delta Branch, Stoneville (Sharkey clay soil).

Brand	Variety	2013-14 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	111.8	—	—	33.5	5/4	2	39
Plantation Seed	Horizon 306	105.4	—	—	36.0	5/4	2	39
TAMO	606T	93.4	—	—	35.5	5/3	1	34
Plantation Seed	Horizon 201	92.6	—	—	32.5	5/6	1	33
Public	LA07048SBSB-28	71.7	—	—	32.0	4/29	1	40
TAMO	606	71.6	—	—	34.5	5/6	1	32
Public	LA02065SBSBSBSB-88	61.6	—	—	32.5	5/3	1	38
Public	LA07007SBSB-68	45.3	—	—	31.5	5/1	1	36
Mean		81.7						
LSD		16.8						
Error df		7						
CV		10.8						
R-sq		93.1						

MSU Coastal R&E Center, Beaumont

Crop Summary

All plots were planted into a well-prepared seedbed. Conditions were favorable at planting for germination. All plots emerged to a uniform stand. Weather was favorable throughout the season for plant growth and development. Plots were harvested under good weather conditions.

Planting date . . . . . **November 6**
Harvest date . . . . . **June 6**
Soil type . . . . . **McLaurin sandy loam**
Soil pH **6.5**
Soil fertility . . . . . **P=H, K=H**
Previous crop . . . . . **Wheat**
Fertilizer added . . . . . **Preplant — 13-13-13 @ 200 lb/A, N @ 125 lb/A (33-0-0) on March 14**
Herbicide application . . . . **Harmony Extra SG @ 0.6 oz/A**

Table 19. Yields of eight oat varieties at MSU Coastal R&E Center, Beaumont (McLaurin sandy loam).

Brand	Variety	2013-14 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	108.9	—	—	36	4/5	2	42
Plantation Seed	Horizon 270	87.7	—	—	32	4/5	4	44
Plantation Seed	Horizon 201	85.5	—	—	29	4/4	4	44
Public	LA02065SBSBSBSB-88	85.0	—	—	32	4/5	2	38
TAMO	606	82.3	—	—	34	4/12	1	36
TAMO	606T	71.8	—	—	35	4/12	2	43
Public	LA07048SBSB-28	58.8	—	—	31	4/5	3	49
Public	LA07007SBSB-68	45.7	—	—	33	3/28	4	42
Mean		78.2						
LSD		15.2						
Error df		21						
CV		16.0						
R-sq		80.0						

MAFES Brown Loam Branch, Raymond

Crop Summary

The plots were planted into a well-prepared seedbed. All plots emerged to a good stand. Below-average temperatures were recorded for several days during early spring, but no freeze injury was observed in the plots. Harvest conditions were good, and wheat was harvested in a timely manner.

Planting date . . . . . November 13
Harvest date . . . . . June 9
Soil type . . . . . Loring silt loam
Soil pH 5.5
Soil fertility . . . . . P=H, K=H
Previous crop . . . . . Corn
Fertilizer added . . . . . Preplant — 33-0-0 @ 100 lb/A, N @ 92 lb/A (33-0-0) on March 14; N @ 25 lb/A (33-0-0) on April 3
Herbicide application . . . . Harmony Extra SG @ 0.6 oz/A

Table 20. Yields of eight oat varieties at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).

Brand	Variety	2013-14 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 201	142.9	—	—	30.3	4/17	1	42
Plantation Seed	Horizon 270	136.4	—	—	31.3	4/23	1	38
Plantation Seed	Horizon 306	125.7	—	—	32.8	4/28	1	43
TAMO	606T	124.8	—	—	33.0	4/25	1	35
TAMO	606	115.9	—	—	32.8	4/25	1	35
Public	LA07048SBSB-28	107.0	—	—	31.0	4/23	1	46
Public	LA02065SBSBSBSB-88	106.8	—	—	30.8	4/23	1	42
Public	LA07007SBSB-68	100.2	—	—	32.5	4/21	4	41
Mean		120.0						
LSD		11.7						
Error df		21						
CV		8.0						
R-sq		77.0						

MAFES Coastal Plain Branch, Newton

Crop Summary

The wheat and oat plots were planted into a very well prepared seedbed. Soil conditions at planting were optimum for germination, and all plots quickly emerged to a good stand. Extensive deer feeding was observed on the wheat plots between when the last heading date was taken and harvest. Deer fed on the wheat heads after maturity, of both awned and awnless varieties. Some plots received near 100% damage. As a result of this predation, no wheat yields were reported for this location.

Planting date . . . . . **November 4**
Harvest date . . . . . **June 16**
Soil type . . . . . **Prentiss very fine sandy loam**
Soil pH **5.2**
Soil fertility . . . . . **P=H, K=H**
Previous crop . . . . . **Wheat**
Fertilizer added . . . . . **Preplant — lime @ 2 tons/A on October 25; N @ 80 lb/A (ammonium nitrate) on February 19**
Herbicide application . . . **Harmony Extra @ 0.6 oz/A on March 13**

Table 21. Yields of eight oat varieties at MAFES Coastal Plain Branch, Newton (Prentiss very fine sandy loam).

Brand	Variety	2013-14 yield	2-year avg.	3-year avg.	Test weight	Date headed	Lodging score	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*			*in*
Public	LA07048SBSB-28	62.4	—	—	—	4/23	1	41
Plantation Seed	Horizon 201	59.1	—	—	—	4/18	1	41
Plantation Seed	Horizon 270	53.3	—	—	—	4/25	3	37
Plantation Seed	Horizon 306	52.3	—	—	—	4/28	2	37
Public	LA02065SBSBSBSB-88	44.7	—	—	—	4/23	1	34
TAMO	606T	43.5	—	—	—	4/28	2	39
TAMO	606	41.3	—	—	—	4/28	2	36
Public	LA07007SBSB-68	33.6	—	—	—	4/21	3	36
Mean		48.8						
LSD		6.0						
Error df		21						
CV		10.2						
R-sq		83.8						

Wheat Metribuzin Tolerance

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

Mississippi State University evaluated wheat varieties included in the 2014 MSU Wheat Variety Trials for tolerance to metribuzin. Wheat varieties were evaluated in a field research study at the R. R. Foil Plant Science Research Center at Mississippi State University (Starkville, Mississippi). The soil classification at this study location is a Stough fine sandy loam with a CEC of 6.2, soil pH of 6.1, and organic matter content of 0.87%. Metribuzin (TriCor DF) was applied at a rate of 12 ounces per acre, which corresponds to 0.56 pounds of active ingredient per acre. The metribuzin rate used for this study represented a much higher use rate than normal and was intended strictly for evaluation of herbicide tolerance. At the time of metribuzin application, wheat had four or more leaves but had not substantially initiated tillering (late Feekes growth stage 1). Visual ratings of herbicide injury were taken 18, 33, and 71 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; 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 last, likely due to adversely cold, 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 the herbicide metribuzin.

Table 22. Wheat variety evaluation for metribuzin tolerance.

Brand	Variety	Tolerance[1]	Brand	Variety	Tolerance[1]
AgriMAXX	413	MS	Pioneer	26R10	MS
AgriMAXX	415	MS	Pioneer	26R20	MS
AgriMAXX	447	MT	Pioneer	26R41	T
AgriMAXX	Exp 1444	MS	Pioneer	26R53	MS
AgriMAXX	Exp 1465	S	Pioneer	26R87	MS
AGS	AGS 2035	MS	Pioneer	XW13X	MS
AGS	AGS 2038	S	Progeny	P125	MS
AGS	AGS 2040	S	Progeny	P185	T
AGS	AGS 2056	MT	Progeny	P357	MS
AGS	AGS 2057	S	Progeny	P870	MT
Armor	ARX 1313	T	Progeny	PGX 13-1	MT
Armor	ARX 1325	T	Progeny	PGX 13-2	MT
Armor	ARX 1327	MT	Progeny	PGX 13-4	T
Armor	ARX 1332	MT	Progeny	PGX 13-6	T
Armor	Havoc	MT	Syngenta	Coker 9553	MT
Armor	Octane	MT	Syngenta	Magnolia	MT
Armor	Vandal	MS	Syngenta	Oakes	MS
Delta Grow	DG 3200	T	Syngenta	SX 101	MS
Delta Grow	DG 7100	T	Syngenta	SX 102	MT
Delta Grow	DG 7200	T	Syngenta	SX 103	MS
Delta Grow	DG 7500	MS	Syngenta	SY Harrison	MS
Delta Grow	DG 9700	T	Terral	LA754	MT
Delta Grow	DG720X	T	Terral	LA821	MS
Dixie	DXEX 13-3	T	Terral	LA841	S
Dixie	Extreme	T	Terral	TV8525	T
Dixie	Glory	MT	Terral	TV8535	T
Dixie	McAlister	MT	Terral	TV8848	T
Dixie Bell	DB 412	MT	Terral	TV8861	MT
Dixie Bell	DB 620	MT	Univ. of Georgia	GA-041293-11E54	MT
Dixie Bell	DB 7880	S	Univ. of Georgia	GA-041293-11LE37	MT
Dixie Bell	DB 8980	MT	Univ. of Georgia	GA-04434-11E44	S

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

Table 22 (continued). Wheat variety evaluation for metribuzin tolerance.

Brand	Variety	Tolerance[1]	Brand	Variety	Tolerance[1]
Dyna-Gro	9171	MT	USG	USG 3120	MT
Dyna-Gro	Baldwin	T	USG	USG 3201	MT
Dyna-Gro	WX13622	MS	USG	USG 3251	MT
Limagrain Cereal Seeds	343	MT	USG	USG 3404	T
Limagrain Cereal Seeds	448	S	USG	USG 3438	T
LSU	LA 05032D-136	S	USG	USG 3523	T
LSU	LA 05145D-118	MS	USG	USG 3694	MS
LSU	LA 06146E-P4	S	USG	USG 3833	T
			VA Tech	VA Jamestown	S

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

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