

Arkansas **Wheat Cultivar Performance Tests 2018-2019**

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D.E. Moon • J.P. Kelley**

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DIVISION OF AGRICULTURE
RESEARCH & EXTENSION
University of Arkansas System

ARKANSAS AGRICULTURAL EXPERIMENT STATION

September 2019

Research Series 661

This publication is available on the internet at: <http://arkansas-ag-news.uark.edu/research-series.aspx> and at <https://aaes.uark.edu/variety-testing/>

Technical editing and cover design by Gail Halleck.

Photo Credit: Increase strips of elite wheat breeding lines in a plot at the University of Arkansas System Division of Agriculture Arkansas Agricultural Research and Extension Center, Fayetteville, Ark., by Habibullah Hayat, Graduate Student, Department of Crop, Soil, and Environmental Sciences.

Arkansas Agricultural Experiment Station, University of Arkansas System Division of Agriculture, Fayetteville. Mark J. Cochran, Vice President for Agriculture; Jean-François Meullenet, Associate Vice-President for Agriculture–Research and Director, AAES. WWW/InddCC2018.

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ISSN: 1941-1596 CODEN: AKAMA6

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Acknowledgments

This research was funded in part by participating companies. The assistance of the following individuals in conducting these experiments is gratefully acknowledged.

Department of Crop, Soil, and Environmental Sciences

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Zachary Winn, Graduate Student

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Arkansas Wheat Cultivar Performance Tests¹ 2018-2019

R.E. Mason², R.G. Miller², D.E. Moon², and J.P. Kelley²

Introduction

Wheat cultivar performance tests are conducted each year in Arkansas by the University of Arkansas System Division of Agriculture's Arkansas Agricultural Experiment Station, Department of Crop, Soil and Environmental Sciences. The tests provide information to companies developing cultivars and marketing seed within the state and aid the Arkansas Cooperative Extension Service in formulating cultivar recommendations for small-grain producers.

The tests are conducted at the Northeast Research and Extension Center at Keiser, the Vegetable Substation near Kibler, the Lon Mann Cotton Research Station near Marianna, the Newport Extension Center near Newport, the Rohwer Research Station near Rohwer, the Pine Tree Research Station near Colt, and the Hope Research and Extension Center. In addition, entries are evaluated in a stripe rust (*Puccinia striiformis* f.sp. *tritici*) inoculated nursery in Fayetteville and a *Fusarium* head blight (FHB) inoculated nursery in Newport and Fayetteville. Specific location and cultural practice information accompany each table.

Methods

Each wheat test contained 96 entries. A randomized complete block experimental design with 4 replications was used for all tests. A seeding rate of 105 lb/ac was used to establish plots 20 feet in length and 49 inches in width (7 rows, 7 inches apart). All sites

used conventional seedbed preparation, with the exception. Plots were end-trimmed, and harvested with a plot combine.

Characters Evaluated

Yield: Grain yield was calculated from the weight of seed from each plot as measured by the Harvest Master Pro 4100 and is expressed as bushels per acre (bu/ac) at 13.0% moisture content.

Test weight: Test weight, expressed in pounds per bushel (lb/bu), was determined using the Harvest Master Pro 4100 at 13.0% moisture.

Lodging: Lodging is reported as an estimated percentage of plants prostrate at maturity: 1 = 10% lodged; 10 = 100% lodged. Lodging ratings are taken at or near harvest.

Heading Date: Heading dates are reported as the day of year that an estimated 50% of the heads were fully emerged from the boot.

Maturity Date: Maturity dates are reported as the day of year an estimated 90% of the culms were senesced or yellow.

Disease Ratings: Disease infections are rated visually based on the percentage (0-100) or on a 0-9 scale of leaf or glume area displaying symptoms on a whole plot basis, with higher numbers equating to higher levels of infection, unless otherwise noted.

Variety Testing Website

This report and other information about variety testing for corn, cotton, grain sorghum, rice, and soybean can be found at aaes.uark.edu/variety-testing/. Disease ratings that do not appear in this or other reports may also be found on this website.

¹Use of products and trade names in this report does not constitute a guarantee or warranty of the products named and does not signify that those products are approved to the exclusion of comparable products.

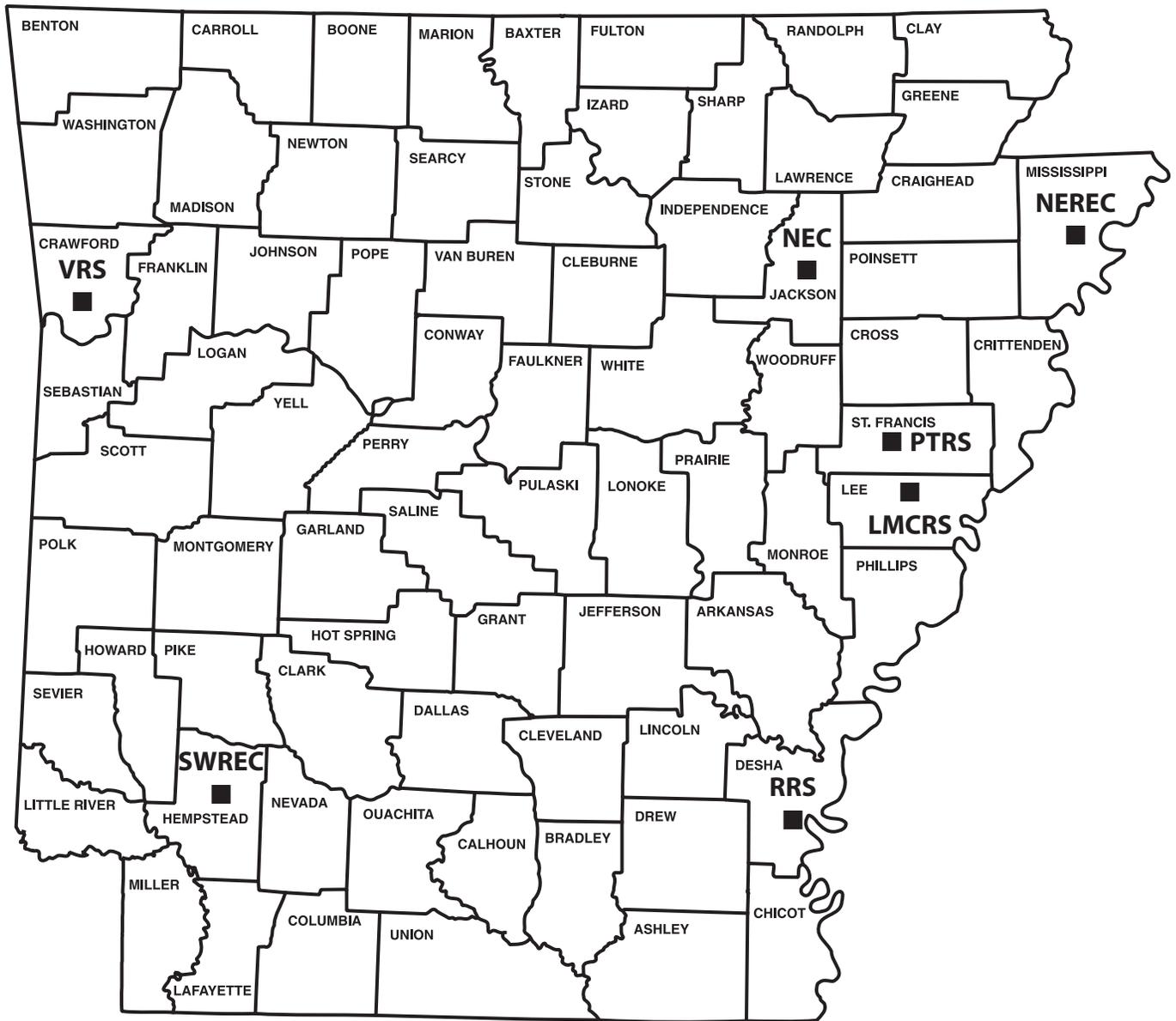
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Summary

Planting conditions were generally unfavorable for plot establishment. Total rainfall for the season ranged from 10 to 22 inches above normal. Variety testing plots were established in only four Arkansas locations, including Hope, Kibler, Marianna, and Newport. Both Pine Tree and Rohwer were not planted due to excessive moisture. Keiser was planted but not harvested due to poor crop stand. Yields and test weights were generally below average

across locations. The highest average grain yield was observed in Kibler (69.1 bu/ac) and the lowest in Hope (53.0 bu/ac). The application of a foliar fungicide increased average grain yield by 10.4 bu/ac in both Marianna and Newport and increased test weight by 1.6 and 1.3 lb/bu in Marianna and Newport, respectively. There were moderate to high levels of Fusarium head blight in Marianna, Newport, and Hope and moderate levels of other diseases including stripe and leaf rust and bacterial leaf streak. Disease ratings were recorded by Esten Mason, David Moon and Randy Miller.

Wheat Test Locations



- LMCRS** - **Lon Mann Cotton Research Station, Marianna**
- NEC** - **Newport Extension Center, Newport**
- NERC** - **Northeast Research and Extension Center, Keiser**
- PTRS** - **Pine Tree Research Station, Colt**
- RRS** - **Rohwer Research Station, Rohwer**
- SWREC** - **Southwest Research and Extension Center, Hope**
- VRS** - **Vegetable Research Station, Kibler**

Table 1. Summary of statewide, Delta, and southwest wheat yields in Arkansas.

Entry name	Statewide yield			Delta yield ^a			Southwest yield ^b		
	3-year avg.	2-year avg.	2019 avg.	3-year avg.	2-year avg.	2019 avg.	3-year avg.	2-year avg.	2019 avg.
	------(bu/ac)-----								
AgriMAXX 415	69.9	64.8	65.1	69.3	62.8	64.6	71.2	67.4	65.7
AgriMAXX 473	74.5	70.4	63.9	73.8	67.9	65.5	76.0	73.6	62.4
AgriMAXX 475	65.8	60.2	53.8	63.2	54.4	49.1	71.2	67.4	58.5
AgriMAXX 481			60.6			55.6			65.7
AgriMAXX EXP 1902			67.2			68.4			66.0
AgriMAXX EXP 1906			65.7			71.2			60.3
AgriMAXX EXP 1913			63.5			65.5			61.5
Armor ARW1815			59.8			60.9			58.6
Armor ARW1819			57.6			57.8			57.4
Armor Mayhem	74.5	70.7	67.6	74.0	70.1	70.4	75.6	71.5	64.7
Armor Venom			47.8			49.8			45.7
Armor Velocity			73.9			68.6			79.3
Dixie Bentley	69.6	61.6	71.0	70.0	57.3	64.7	68.9	66.9	77.3
Dixie Brown	74.9	70.5	65.7	75.1	68.9	69.8	74.6	72.5	61.5
Dixie Jones	64.6	60.7	51.7	62.8	57.2	49.3	68.1	65.2	54.1
Dixie DEX 18-1		64.5	59.5		68.2	64.3		59.9	54.7
Dixie DEX 18-2		67.0	60.1		63.4	60.6		71.6	59.6
Dixie DEX 19-1			64.7			69.8			59.6
Pioneer 26R10	64.0	62.8	52.5	61.9	61.3	54.9	68.4	64.8	50.1
Pioneer 26R36	69.8	60.7	53.3	69.2	56.8	52.9	71.0	65.6	53.7
Pioneer 26R41	74.3	68.2	64.1	74.5	65.8	64.6	74.1	71.2	63.5
Pioneer 26R45	71.9	67.9	63.1	71.9	68.0	64.1	71.7	67.7	62.1
Pioneer 26R59	72.9	70.5	62.9	72.5	70.6	65.8	73.5	70.5	60.0
Delta Grow 1000	72.9	69.9	66.5	72.7	67.8	71.2	73.5	72.4	61.8
Delta Grow 3500	63.8	58.5	61.3	64.9	55.5	56.6	61.6	62.3	66.0
Dyna-Gro 9701	73.6	68.9	68.5	74.0	67.5	71.3	72.7	70.8	65.6
Dyna-Gro 9811	72.1	64.3	64.8	73.8	63.5	66.2	68.7	65.4	63.4
Dyna-Gro 9862		66.0	58.2		67.1	63.2		64.7	52.9
Dyna-Gro 9941			65.0			72.6			57.4
Dyna-Gro TV8861			61.0			64.1			57.9
Dyna-Gro WX18416			68.8			73.3			64.3
Dyna-Gro WX19621			57.5			57.6			57.5
#BLAZE	65.8	66.2	62.1	63.1	64.1	63.4	71.3	68.8	60.7
#BULLET	72.8	67.7	67.6	73.3	67.8	71.8	72.0	67.6	63.5
#FURY	65.2	60.0	60.3	67.6	59.7	56.8	60.6	60.3	64.0
#TURBO	67.5	62.3	72.5	70.5	67.4	80.3	61.4	55.9	64.8
#WARRIOR	70.7	70.3	69.5	69.9	70.7	72.2	72.3	69.8	66.8
PGX 17-16		67.3	61.2		63.1	57.8		72.6	64.5
PGX 18-11			63.2			65.0			61.5
PGX 18-2			63.0			64.5			61.5

Table 1. Summary of statewide, Delta, and southwest wheat yields in Arkansas, Continued.

Entry name	Statewide yield			Delta yield ^a			Southwest yield ^b		
	3-year avg.	2-year avg.	2019 avg.	3-year avg.	2-year avg.	2019 avg.	3-year avg.	2-year avg.	2019 avg.
	------(bu/ac)-----								
PGX 18-5			62.1			64.6			59.7
PGX 18-7			66.6			67.5			65.6
PGX 18-8			56.5			57.6			55.4
LCS L11718			66.0			70.5			61.4
LCS L11719		64.0	57.4		62.3	57.6		66.0	57.2
LCS L11814			71.7			75.7			67.7
LCS L11815			53.3			50.1			56.5
LW 2848			69.4			70.8			68.0
LW Ex19A			63.6			69.8			57.4
LW Ex19B			57.6			53.3			61.9
LW Ex19C			56.9			59.2			54.4
LA08080C-31-1		60.4	64.2		58.4	63.8		62.9	64.6
LA09225C-33-3	67.3	64.3	61.2	69.7	65.9	66.9	62.4	62.3	55.6
LA10191C-1			54.6			49.4			59.7
LA13235DH-19			49.3			45.2			53.7
NC13-21213		59.9	59.6		62.8	64.3		56.3	55.0
AGS 2038	67.9	62.3	61.4	68.1	60.0	61.0	67.5	65.2	61.8
AGS 2024		64.6	67.4		60.7	66.4		69.4	68.5
AGS 2055	71.7	64.3	61.2	73.6	63.3	62.2	67.8	65.5	60.3
Go Wheat 2032			64.8			64.3			65.3
Go Wheat 2058	72.5	68.9	68.8	72.8	67.2	70.0	71.8	70.9	67.7
SY 547	64.3	64.6	65.3	64.7	66.3	66.3	63.6	62.5	64.3
SY Viper		65.6	64.7		65.5	66.8	70.2	65.8	62.6
SY Richie			59.9			62.9			56.9
TX15D9253			59.2			56.1			62.3
TX15D9579			58.7			55.3			62.1
TX15D9597			67.4			67.5			67.3
TX15D9608			51.7			45.8			58.0
USG 3329		65.8	61.5		62.9	64.3		69.4	58.7
USG 3458			63.1			67.8			58.4
USG 3536	74.2	68.5	63.4	74.6	68.0	70.0	73.3	69.0	56.8
USG 3539			61.8			65.1			58.4
USG 3895	73.8	66.9	60.2	71.6	60.6	57.8	78.2	74.6	62.5
AR06037-17-2	72.7	68.0	64.0	73.5	67.3	67.3	71.0	69.0	60.6
AR06146E-1-4	71.9	65.2	67.8	71.9	62.3	70.8	71.7	68.9	64.7
AR07133C-19-4	68.6	58.4	54.8	70.2	54.7	53.7	65.6	63.1	56.0
AR09137UC-17-2		66.4	72.0		65.4	75.9		67.7	68.0
AR09179UC-1-1		57.1	62.7		54.2	61.1		60.8	64.3
AR09179UC-9-3		61.9	59.8		57.2	58.4		67.8	61.4

Table 1. Summary of statewide, Delta, and southwest wheat yields in Arkansas, Continued.

Entry name	Statewide yield			Delta yield ^a			Southwest yield ^b		
	3-year avg.	2-year avg.	2019 avg.	3-year avg.	2-year avg.	2019 avg.	3-year avg.	2-year avg.	2019 avg.
	------(bu/ac)-----								
Delta Grow Exp 1400			65.0			68.5			61.6
PGX 16-4			63.7			63.0			64.3
LWEx19D			54.7			54.8			54.6
USG 3640		53.0	56.7		48.7	50.7		58.4	62.6
GA071518-16E39			57.3			52.7			62.0
GA09129-16E55			61.5			57.8			65.1
GA09377-16LE18			57.7			54.2			61.1
GA09436-16LE12			54.1			48.7			59.6
15MDX18			51.9			53.4			50.5
15MDX19			55.3			56.1			54.5
15MDX20			58.9			59.6			58.2
15MX131			58.7			65.7			51.7
Liberty 5658			65.1			65.2			65.0
Hilliard	71.3	68.1	67.9	70.5	66.4	70.0	72.9	70.4	65.7
VA09MAS1-12-5-1-1			67.8			64.3			71.2
Croplan CP8550		69.7	66.2		68.0	70.7		71.9	61.8
Croplan CP9606		57.2	52.3		51.5	49.1		64.4	55.5
Mean	70.2	64.7	61.8	70.3	63.0	62.5	70.1	66.9	61.1
LSD (5%)			8.5			10.7			13.9
C.V. (%)			5.0			6.2			8.3
No. locations	15	9	4	10	5	2	5	4	2

^a Delta yield includes all data available for Marianna, Newport, Keiser, Pine Tree, and Rohwer.

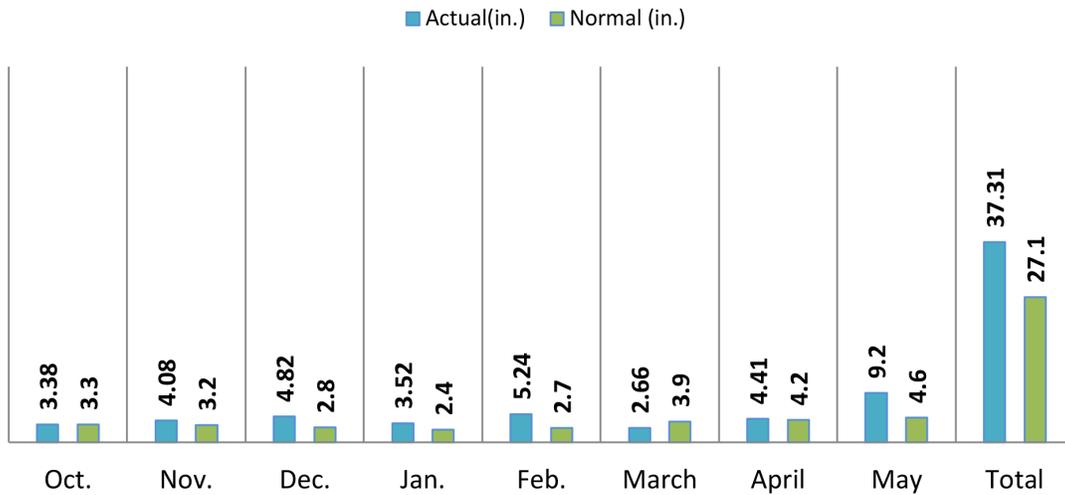
^b Southwest yield includes all data available for Hope and Kibler.

Kibler: Vegetable Research Station (VRS)

Standard Input Test Summary



2018-2019 KIBLER MONTHLY PRECIPITATION



Soil Series:	Roxanna silt loam	Fertilizer Application(s):	45 lb N/ac + 50 lb S/ac 44 lb N/ac + 50 lb S/ac	March 7, 2019 March 21, 2019
Previous Crop:	Fallow	Herbicide Application(s):	None	
Planting Date:	Nov. 15, 2018	Fungicide Application(s):	None	
Harvest Date(s):	June 18, 2019			

Table 2. Performance of wheat cultivars in the standard input test, Kibler.

Entry name	Multi-year		2019 data						
	3-year avg. yield (bu/ac)	2-year avg. yield (bu/ac)	Yield (bu/ac)	Rank	Test weight (lb/bu)	Head Date	Maturity date	Plant height (in.)	Lodging (0-9)
Armor Mayhem	83.3	78.9	76.4	12	55.4	5/1	6/3	35.0	7.3
USG 3895	83.1	78.3	69.3	53	53.2	4/29	6/3	32.0	2.3
AgriMAXX 473	82.1	80.3	74.1	25	55.8	5/1	6/3	34.0	4.5
Pioneer 26R59	81.2	79.0	72.0	36	52.8	4/28	6/4	30.8	1.8
Pioneer 26R41	81.2	78.9	75.7	15	54.6	4/29	6/3	32.3	4.0
USG 3536	81.0	76.2	73.5	30	55.1	5/1	6/3	32.8	5.3
Dixie Brown	80.7	79.6	77.4	9	55.5	5/1	6/3	35.0	3.0
Pioneer 26R45	80.2	76.4	75.0	17	49.4	4/29	6/1	30.3	4.8
#BULLET	80.2	75.6	73.7	28	54.8	5/1	6/3	32.5	4.3
Pioneer 26R36	78.8	72.0	61.8	84	52.1	5/1	6/2	33.3	2.8
Delta Grow 1000	78.7	79.2	74.8	19	53.7	4/28	6/3	34.0	3.0
AgriMAXX 415	77.8	73.6	76.9	10	57.1	4/26	6/3	33.8	2.3
AgriMAXX 475	77.7	73.4	71.5	38	55.1	5/1	6/3	34.0	2.3
AR06037-17-2	77.6	76.7	70.7	43	53.4	5/1	6/3	31.0	2.3
Dyna-Gro 9701	77.2	75.6	71.2	41	54.6	5/1	6/3	34.8	2.8
#BLAZE	77.1	75.0	72.5	32	52.3	4/28	6/3	33.8	2.8
SY Viper	76.9	71.5	71.6	37	55.4	4/25	6/3	31.0	4.0
Hilliard	76.4	73.0	71.3	40	57.6	4/26	6/1	36.8	1.0
#WARRIOR	76.0	72.7	76.5	11	52.7	4/26	6/3	30.5	2.3
Go Wheat 2058	75.2	75.0	79.3	6	55.2	4/29	6/3	30.5	1.3
Pioneer 26R10	74.2	69.8	61.1	86	50.8	4/30	6/3	32.3	3.0
Dyna-Gro 9811	73.8	69.6	76.0	14	56.2	4/26	6/3	35.5	1.3
Dixie Jones	73.5	70.4	63.3	75	52.2	5/1	6/3	30.5	3.0
AR06146E-1-4	72.3	66.9	66.4	64	58.0	4/27	5/30	35.3	2.0
#TURBO	69.6	62.8	79.4	5	57.4	4/26	6/3	33.5	3.3
Dixie Bentley	69.4	65.9	72.2	34	57.2	4/25	5/28	34.8	3.3
AGS 2055	68.6	64.5	60.7	88	51.2	5/1	6/3	34.3	1.0
SY 547	67.9	67.8	76.2	13	56.7	4/27	6/3	33.0	3.3
AR07133C-19-4	66.7	62.2	58.9	91	51.7	4/27	6/1	31.5	3.3
AGS 2038	65.6	60.3	61.7	85	54.0	5/1	6/3	36.3	0.5
#FURY	61.8	61.8	68.8	55	50.1	4/26	6/3	34.3	1.8
Delta Grow 3500	59.4	59.7	74.1	26	55.2	4/24	6/1	33.0	3.8
LA09225C-33-3	57.7	55.1	51.6	95	53.9	5/1	6/4	32.3	1.5
PGX 17-16		83.8	79.7	4	56.8	4/30	6/3	34.0	0.8
Dixie DXEX 18-2		82.0	74.5	21	56.3	4/30	6/3	34.3	1.3
Croplan CP8550		80.1	74.8	20	54.1	5/1	6/3	34.8	3.0
Dixie DXEX 18-1		74.4	72.0	35	53.2	5/1	6/3	32.3	2.3
USG 3329		74.4	71.4	39	54.0	4/27	6/2	31.8	6.0

Table 2. Performance of wheat cultivars in the standard input test, Kibler, Continued.

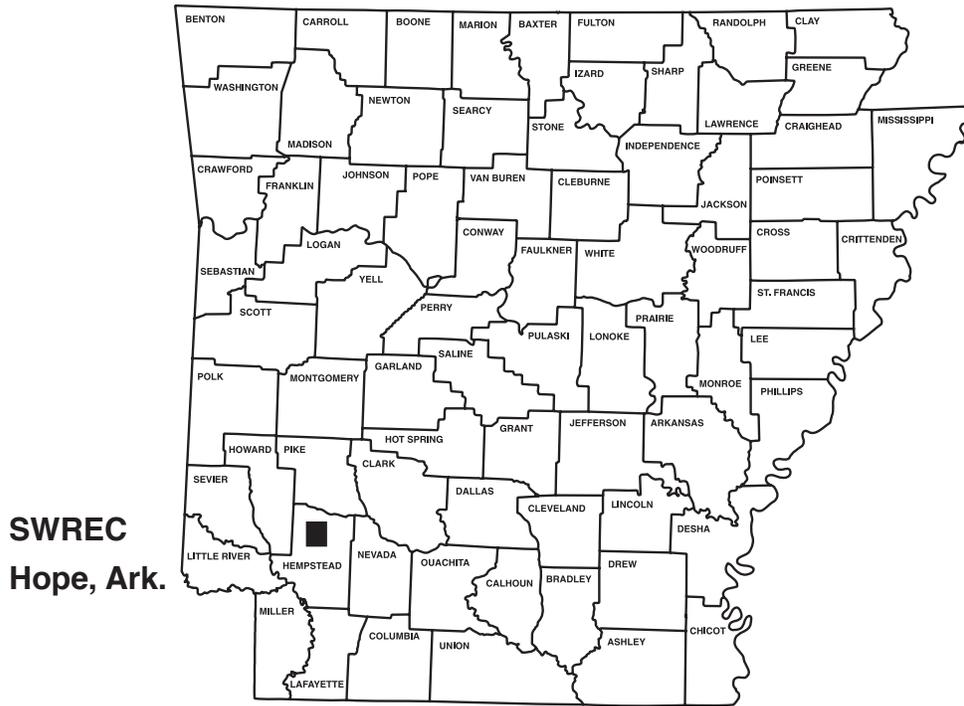
Entry name	Multi-year		2019 data						
	3-year avg. yield (bu/ac)	2-year avg. yield (bu/ac)	Yield (bu/ac)	Rank	Test weight (lb/bu)	Head date	Maturity date	Plant height (in.)	Lodging (0-9)
AR09179UC-9-3		70.4	64.9	70	53.3	4/26	5/31	30.3	3.5
AR09137UC-17-2		69.2	75.2	16	55.8	4/26	6/3	36.3	0.8
AGS 2024		68.4	63.9	73	54.5	5/1	6/1	30.3	2.3
LCS L11719		68.3	65.8	66	55.2	4/30	5/31	32.3	2.0
Croplan CP9606		65.2	62.4	77	51.0	4/27	5/30	31.3	3.0
LA08080C-31-1		64.2	70.6	47	52.9	4/27	6/2	34.3	2.0
AR09179UC-1-1		62.3	67.7	58	55.6	4/24	5/28	32.3	1.8
Dyna-Gro 9862		62.1	62.1	79	51.2	5/1	6/3	29.5	2.3
NC13-21213		59.4	57.0	93	52.0	4/25	6/2	31.5	3.8
USG 3640		59.0	74.4	23	57.4	4/26	6/4	33.5	2.5
Armor Velocity			84.9	1	55.6	4/26	6/3	33.3	3.3
LW 2848			81.8	2	55.0	5/1	6/3	33.5	3.5
LCS L11814			80.1	3	54.7	4/24	6/3	31.8	5.5
AgriMAXX EXP 1902			77.9	7	56.1	4/30	6/4	30.3	1.5
USG 3458			77.9	8	53.0	4/28	6/2	31.8	1.3
LW Ex19C			75.0	18	54.8	5/1	6/3	32.3	2.3
Dyna-Gro 9941			74.5	22	54.1	5/1	6/3	33.8	3.3
TX15D9597			74.3	24	58.9	4/26	6/2	34.5	2.0
Armor ARW1815			73.7	27	55.7	5/1	6/3	34.0	2.3
LW Ex19B			73.7	29	56.2	4/30	6/2	35.8	2.5
LW Ex19A			73.3	31	53.4	4/30	6/3	31.5	2.8
AgriMAXX 481			72.3	33	55.4	4/24	6/3	33.0	4.3
VA09MAS1-12-5-1-1			70.8	42	57.2	4/26	6/2	31.8	1.8
AgriMAXX EXP 1913			70.7	44	55.2	4/25	5/30	33.3	5.0
PGX 18-5			70.7	45	55.4	5/1	6/3	33.5	2.5
Dyna-Gro WX18416			70.6	46	55.1	4/27	6/2	34.0	7.8
PGX 18-2			70.4	48	55.5	4/24	5/29	32.5	2.8
Armor ARW1819			70.1	49	55.8	4/30	6/2	32.5	2.0
LCS L11718			69.9	50	51.8	4/27	6/2	32.8	4.3
Delta Grow Exp 1400			69.6	51	55.1	4/29	6/2	33.3	2.5
LWEx19D			69.6	52	55.1	4/30	6/3	32.5	1.5
Dyna-Gro TV8861			68.9	54	53.1	5/1	6/3	33.5	1.5
Liberty 5658			68.5	56	56.9	4/25	6/1	34.0	2.0
AgriMAXX EXP 1906			68.4	57	54.4	4/26	6/2	34.3	4.3
SY Richie			67.2	59	53.8	4/24	5/28	32.5	0.8
GA09129-16E55			67.2	60	55.9	4/26	5/31	32.3	3.3
PGX 18-8			67.1	61	55.0	4/30	6/1	33.3	3.0
PGX 18-7			67.0	62	54.7	4/28	6/3	34.3	3.8
Go Wheat 2032			66.5	63	54.5	4/26	6/3	33.5	3.8

Table 2. Performance of wheat cultivars in the standard input test, Kibler, Continued.

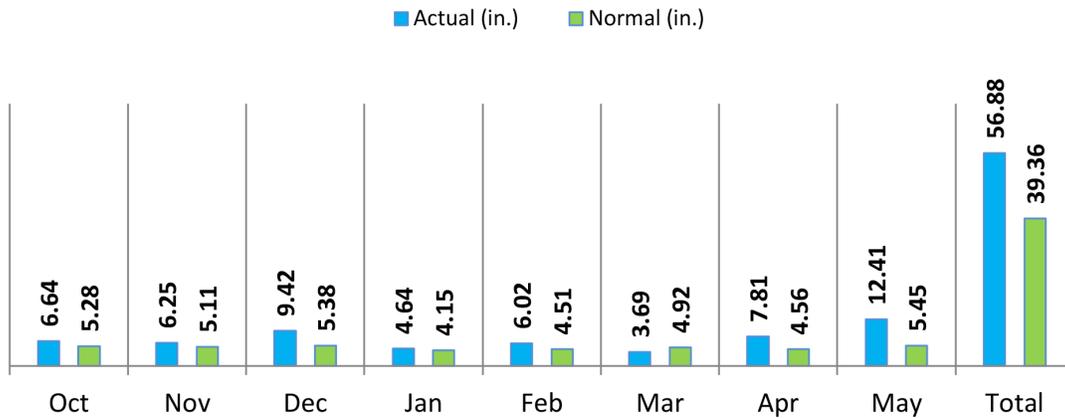
Entry name	Multi-year		2019 data						
	3-year avg. yield (bu/ac)	2-year avg. yield (bu/ac)	Yield (bu/ac)	Rank	Test weight (lb/bu)	Head date	Maturity date	Plant height (in.)	Lodging (0-9)
TX15D9579			66.2	65	52.9	4/26	6/3	32.0	2.3
USG 3539			65.5	67	54.1	4/30	6/3	32.5	2.8
Dyna-Gro WX19621			65.3	68	54.0	4/29	6/3	34.0	3.8
GA09436-16LE12			65.0	69	58.6	4/26	6/4	34.8	3.3
GA071518-16E39			64.8	71	50.4	4/24	6/3	33.3	5.3
PGX 16-4			64.1	72	52.6	4/25	5/30	33.0	5.5
GA09377-16LE18			63.4	74	54.7	4/26	6/3	33.5	1.3
PGX 18-11			63.3	76	50.5	4/25	5/30	30.3	1.8
LCS L11815			62.2	78	50.5	4/27	5/31	32.5	4.8
Dixie DXEX 19-1			62.0	80	54.9	4/30	6/1	34.0	3.8
LA10191C-1			62.0	81	56.2	4/25	5/31	33.0	4.5
TX15D9253			61.9	82	51.1	4/24	5/29	31.5	3.3
15MDX20			61.8	83	54.0	4/28	6/3	29.8	4.3
15MDX19			60.8	87	53.5	4/29	6/3	33.3	3.0
Armor Venom			60.1	89	52.2	5/1	6/2	32.5	2.3
LA13235DH-19			59.3	90	54.1	4/25	5/31	32.8	3.3
TX15D9608			57.9	92	51.9	4/26	5/30	32.5	1.3
15MDX18			53.5	94	51.2	4/30	6/2	27.5	2.3
15MX131			49.0	96	52.5	4/30	6/3	31.8	7.3
Mean	74.6	71.0	69.1		54.3	4/28	6/2	32.9	3.0
LSD (5%)			10.5		2.7	1.56	1.87	2.9	3.0
C.V. (%)			5.5		1.8	0	0	3.2	37.2

Hope: Southwest Research and Extension Center (SWREC)

Standard Input Test Summary



2018-2019 HOPE MONTHLY PRECIPITATION



Soil Series: Clay loam
Previous Crop: Southern peas
Planting Date: Nov. 29, 2018
Harvest Date(s): June 10, 2019

Fertilizer Application(s): 51 lb N/ac Feb. 18, 2019
 34 lb N/ac April 3, 2019
Herbicide Application(s): 1 qt/ac 2,4-D and Feb. 18, 2019
 4.75 oz/ac Osprey
Insecticide Application(s): 6 oz Karate (for
 stinkbug)

Table 3. Performance of wheat cultivars in the standard input test, Hope.

Entry name	Multi-year		2019 data							
	2-year avg. yield (bu/ac)	Yield (bu/ac)	Test Rank (lb/bu)	Plant height (in.)	Lodging (0-100)	<i>Septoria</i> severity (0-9)	Stripe rust severity (0-9)	Leaf rust severity (0-9)	Fusarium head blight severity (0-9)	
USG 3895	71.0	55.7	35	51.5	77	3.8	1.8	0	1	3
AR06146E-1-4	70.9	63.1	8	58.7	87	0.0	1.3	0	0	3
AGS 2024	70.4	73.1	3	55.9	89	0.0	1.5	0	0	3
AGS 2038	70.2	61.8	11	52.9	97	3.8	1.3	0	1	5
LA09225C-33-3	69.4	59.6	20	57.5	83	5.0	1.0	0	0	1
Dixie Bentley	68.0	82.4	1	56.0	94	3.8	1.0	0	2	1
Hilliard	67.7	60.2	17	55.2	84	2.5	1.0	0	1	1
AgriMAXX 473	66.9	50.6	59	55.7	87	2.5	1.0	0	2	1
#WARRIOR	66.8	57.1	33	51.3	79	2.5	1.3	0	8	1
Go Wheat 2058	66.8	56.0	34	53.8	76	43.8	1.0	1	1	1
AGS 2055	66.5	59.9	18	54.4	87	2.5	1.5	1	0	2
AR09137UC-17-2	66.3	60.9	14	52.6	77	3.8	1.0	0	2	3
Dyna-Gro 9701	66.0	60.2	15	53.7	86	10.0	1.0	0	3	2
Delta Grow 1000	65.6	48.9	66	52.7	84	43.8	1.0	0	1	1
Dixie Brown	65.4	45.6	79	54.4	84	32.5	1.0	0	2	1
AR09179UC-9-3	65.2	58.3	27	53.0	77	5.0	1.5	0	0	1
Delta Grow 3500	64.9	58.0	28	57.2	82	1.3	1.5	1	2	5
USG 3329	64.5	46.0	78	51.4	82	13.8	1.0	0	4	0
Armor Mayhem	64.0	52.7	49	53.4	77	11.3	1.0	0	2	1
AR07133C-19-4	64.0	53.2	46	53.3	84	33.8	1.8	1	0	1
LCS L11719	63.7	48.6	70	53.6	76	25.0	2.5	0	3	3
Croplan CP8550	63.6	48.9	67	54.1	87	3.8	1.0	0	1	1
Croplan CP9606	63.5	48.5	71	51.3	78	3.8	2.0	0	1	2
Pioneer 26R41	63.4	51.4	54	52.9	78	5.0	1.5	0	2	1
#BLAZE	62.6	48.8	68	50.4	82	26.3	1.0	1	6	1
Pioneer 26R59	62.0	48.1	73	51.4	77	5.0	1.3	0	6	3
USG 3536	61.9	40.1	90	54.9	84	0.0	1.5	0	0	1
LA08080C-31-1	61.5	58.6	26	49.8	86	6.3	1.3	0	1	3
PGX 17-16	61.5	49.3	64	51.6	85	10.0	1.3	0	6	1
AgriMAXX 475	61.4	45.4	81	53.2	83	2.5	1.0	0	5	1
AR06037-17-2	61.2	50.3	60	54.2	73	7.5	1.0	0	2	2
AgriMAXX 415	61.2	54.4	38	55.7	83	27.5	1.0	0	3	1
Dyna-Gro 9811	61.1	50.8	57	54.2	84	3.8	1.3	0	2	2
Dixie DEX 18-2	61.1	44.8	82	54.2	85	2.5	1.5	0	5	1
Dixie Jones	60.1	41.3	88	55.0	79	3.8	1.0	0	6	0
SY Viper	60.0	53.6	43	53.7	82	6.3	1.3	0	6	4
Pioneer 26R10	59.8	39.1	92	51.1	79	1.3	1.3	0	6	0

Table 3. Performance of wheat cultivars in the standard input test, Hope, Continued.

Entry name	Multi-year		2019 data							Fusarium head blight rating
	2-year avg. yield	Yield	Rank	Test weight	Plant height	Lodging	Septoria severity	Stripe rust severity	Leaf rust severity	
	(bu/ac)	(bu/ac)		(lb/bu)	(in.)	(0-100)	(0-9)	(0-9)	(0-9)	(0-9)
#BULLET	59.6	53.3	45	53.7	88	12.5	1.0	0	1	1
AR09179UC-1-1	59.3	61.2	13	57.7	82	6.7	2.0	0	1	0
Pioneer 26R36	59.3	45.5	80	52.4	79	1.3	1.5	0	1	1
Pioneer 26R45	59.0	49.2	65	50.2	83	25.0	2.0	0	3	0
#FURY	58.8	59.4	21	49.5	79	7.5	2.0	2	0	5
USG 3640	57.8	50.7	58	55.7	88	0.0	1.8	0	0	5
SY 547	57.1	52.1	53	52.5	81	7.5	1.3	0	2	2
NC13-21213	53.2	53.1	47	56.8	81	5.0	1.8	0	0	2
#TURBO	49.1	50.2	61	55.2	77	2.5	1.5	0	1	3
Dixie DXEX 18-1	45.5	37.4	94	53.6	71	37.5	1.5	0	7	2
Dyna-Gro 9862	43.6	43.6	85	53.5	77	28.8	2.0	0	9	1
Armor Velocity		73.6	2	55.3	89	0.0	1.3	1	2	1
VA09MAS1-12-5-1-1		71.6	4	57.8	88	0.0	1.8	0	0	2
PGX 18-7		64.8	5	55.1	83	2.5	2.3	1	1	1
PGX 16-4		64.6	6	56.1	83	2.5	1.5	1	0	3
Go Wheat 2032		64.1	7	54.7	86	10.0	1.0	1	1	5
GA09129-16E55		63.1	9	54.7	86	0.0	2.0	0	0	3
TX15D9253		62.6	10	54.0	83	15.0	1.8	0	0	2
Liberty 5658		61.4	12	56.3	88	1.3	1.5	0	1	2
TX15D9597		60.2	16	55.9	87	0.0	1.5	1	1	2
PGX 18-11		59.8	19	55.9	78	1.3	1.3	0	0	1
GA071518-16E39		59.2	22	55.3	82	5.0	1.0	1	1	4
AgriMAXX 481		59.2	23	56.0	81	1.3	1.0	1	0	4
GA09377-16LE18		58.8	24	54.1	84	2.5	1.3	0	1	4
TX15D9608		58.7	25	53.3	75	2.5	1.5	0	1	4
Dyna-Gro WX18416		58.0	29	54.5	84	10.0	1.3	0	6	1
TX15D9579		57.9	30	55.3	88	0.0	1.3	0	2	1
LA10191C-1		57.5	31	56.9	80	7.5	1.8	1	1	6
Dixie DXEX 19-1		57.1	32	56.3	83	0.0	1.3	0	2	2
LCS L11814		55.3	36	54.5	70	21.3	1.3	1	0	2
15MDX20		54.6	37	51.9	80	25.0	2.0	0	1	0
15MX131		54.4	39	55.9	82	35.0	1.3	0	0	0
LW 2848		54.2	40	53.3	85	2.5	1.0	0	3	2
GA09436-16LE12		54.1	41	58.9	90	0.0	1.3	0	0	3
AgriMAXX EXP 1902		54.1	42	55.1	78	6.3	1.0	0	8	0
Delta Grow Exp 1400		53.5	44	55.3	85	25.0	1.5	0	3	1
LCS L11718		52.9	48	51.2	79	5.0	1.0	0	2	0
PGX 18-2		52.7	50	55.4	73	12.5	1.3	0	1	2

Table 3. Performance of wheat cultivars in the standard input test, Hope, Continued.

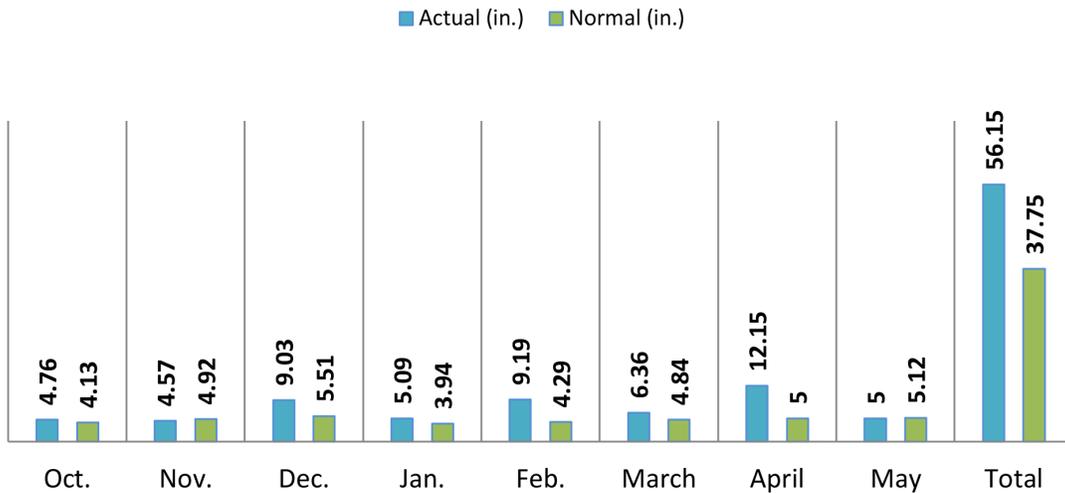
Entry name	Multi-year		2019 data							
	2-year avg. yield (bu/ac)	Yield (bu/ac)	Test Rank (lb/bu)	Plant height (in.)	Lodging (0-100)	Septoria severity (0-9)	Stripe rust severity (0-9)	Leaf rust severity (0-9)	Fusarium head blight severity (0-9)	
AgriMAXX EXP 1906		52.3	51	51.6	79	6.3	1.3	0	1	3
AgriMAXX EXP 1913		52.2	52	52.9	77	7.5	1.3	0	0	4
USG 3539		51.4	55	54.9	82	12.5	2.8	0	2	1
LCS L11815		50.8	56	49.1	81	72.5	1.8	1	2	1
LW Ex19B		50.2	62	55.8	85	1.3	1.0	0	5	1
Dyna-Gro WX19621		49.7	63	52.2	87	26.3	1.0	0	3	1
PGX 18-5		48.7	69	53.8	83	0.0	1.5	0	8	1
LA13235DH-19		48.5	72	55.2	80	2.5	3.0	0	0	3
15MDX19		48.1	74	52.9	73	8.8	3.0	0	0	2
15MDX18		47.6	75	51.8	68	1.3	1.0	0	2	2
Dyna-Gro TV8861		46.8	76	53.6	81	11.3	1.3	0	8	1
SY Richie		46.7	77	52.5	77	1.3	1.5	0	0	1
Armor ARW1819		44.7	83	53.6	80	50.0	1.5	0	8	4
PGX 18-8		43.8	84	51.8	79	37.5	1.8	0	7	1
Armor ARW1815		42.9	86	53.3	81	12.5	1.3	0	9	1
LW Ex19A		41.6	87	53.5	80	6.3	1.0	0	7	1
Dyna-Gro 9941		40.3	89	52.8	79	7.5	1.3	0	8	1
LWEx19D		39.6	91	52.8	74	17.5	1.8	0	7	2
USG 3458		38.9	93	52.1	75	5.0	1.0	0	7	2
LW Ex19C		32.6	95	53.5	76	32.5	1.8	0	7	0
Armor Venom		30.9	96	51.7	78	31.3	1.8	0	8	1
Mean	62.7	53.0		53.9	81	10.9	1.4	0.2	2.6	1.7
LSD (5%)		12.4		3.5	7	28.0	1.3	0.8	2.5	2.8
C.V. (%)		8.5		2.4	3	93.1	32.8	156.3	34.5	58.8

Marianna: Lon Mann Cotton Research Station (LMCRS)

Standard and Fungicide Treated Summary



2018-2019 MARIANNA MONTHLY PRECIPITATION



Soil Series: Loring silt loam
Previous Crop: Fallow
Planting Date(s): Oct. 29, 2018
Harvest Date(s): May 30, 2019

Fertilizer	90 lb N/ac + 24 lb S/ac	Feb. 26, 2019
Application(s):	60 lb N/ac	March 22, 2019
Herbicide	16.4 oz/ac Axial XL	March 20, 2019
Application(s):	0.75 oz/ac Harmony Extra	March 20, 2019
	4.75 oz/ac Osprey	March 20, 2019
Fungicide	4 oz/ac Tilt (REPS 3-4)	April 3, 2019
Application(s):		

Table 4. Performance of wheat cultivars, Marianna.^a

Entry name	Multi-year		2019 data						
	3-year avg. yield (bu/ac)	2-year avg. yield (bu/ac)	Yield (bu/ac)	Rank	Test weight (lb/bu)	Head date	Plant height (in.)	Leaf bacterial streak severity (0-9)	Fusarium Head blight rating (0-9)
Armor Mayhem	78.9	77.3	81.5	3	57.9	4/17	37	1.0	1.0
USG 3536	78.8	78.1	82.4	2	57.9	4/15	37	1.0	1.5
Delta Grow 1000	77.6	74.2	79.1	8	56.1	4/13	40	1.5	2.0
Pioneer 26R45	77.6	77.8	69.6	41	55.0	4/15	39	1.5	1.0
Dyna-Gro 9701	77.0	75.0	78.0	11	57.6	4/15	38	1.5	1.0
Dixie Brown	76.3	72.9	77.0	14	57.3	4/17	38	1.0	1.5
Pioneer 26R41	75.7	71.5	72.7	28	57.6	4/14	34	2.0	2.5
LA09225C-33-3	75.5	74.6	74.9	25	57.7	4/17	37	1.0	2.0
#BULLET	75.5	72.4	75.8	21	57.1	4/17	38	2.0	1.5
AgriMAXX 473	75.3	73.2	72.0	35	57.3	4/16	38	1.0	1.5
SY Viper	75.0	73.9	73.6	27	56.9	4/9	38	3.0	3.0
Hilliard	74.7	70.8	80.8	5	58.7	4/11	39	1.5	2.5
AR06037-17-2	74.3	73.7	68.9	44	55.8	4/11	33	3.5	2.5
Go Wheat 2058	73.3	68.1	76.1	18	57.6	4/11	34	3.0	3.0
AGS 2038	73.3	68.7	69.0	43	51.5	4/15	43	1.5	4.0
AGS 2055	73.2	66.7	65.8	57	55.3	4/11	37	3.5	5.0
#WARRIOR	73.0	78.1	76.0	19	55.4	4/16	34	2.0	3.0
Dyna-Gro 9811	72.1	66.3	75.3	22	57.9	4/11	39	2.5	3.0
SY 547	72.0	72.6	81.4	4	58.7	4/13	41	2.5	1.5
Pioneer 26R36	71.0	67.9	58.9	77	56.9	4/13	37	3.5	2.0
Pioneer 26R59	71.0	74.9	71.1	36	53.2	4/11	34	2.5	3.0
#TURBO	70.9	70.6	87.5	1	59.7	4/11	36	1.5	2.5
AR06146E-1-4	70.4	64.1	72.4	31	60.0	4/9	37	3.0	2.0
USG 3895	70.2	66.1	66.7	55	55.5	4/11	34	2.5	3.5
AgriMAXX 415	68.7	67.8	69.6	40	59.0	4/12	37	2.5	3.5
#FURY	68.5	66.2	60.5	73	49.6	4/10	34	4.0	5.5
AR07133C-19-4	66.4	59.6	58.3	79	56.2	4/12	38	3.5	2.0
AgriMAXX 475	65.2	63.0	58.8	78	54.3	4/15	35	2.5	2.0
#BLAZE	64.8	67.6	61.1	72	52.4	4/15	36	1.5	2.5
Dixie Jones	64.4	63.3	58.2	80	53.8	4/16	34	2.5	1.5
Pioneer 26R10	63.1	67.1	59.0	76	51.2	4/13	38	3.0	3.0
Dixie Bentley	62.5	50.8	64.4	62	59.2	4/10	37	2.5	2.5
Delta Grow 3500	57.8	46.6	57.4	83	55.6	4/7	32	4.0	6.5
Dixie DXEX 18-1		78.1	72.2	33	56.7	4/19	35	1.0	1.0
AR09137UC-17-2		74.5	78.8	9	58.1	4/11	40	2.0	2.5
Croplan CP8550		74.3	78.5	10	57.3	4/15	37	1.0	1.5
Dixie DXEX 18-2		72.8	72.0	34	57.6	4/16	39	1.5	1.0

Table 4. Performance of wheat cultivars, Marianna, Continued.¹

Entry name	Multi-year		2019 data						
	3-year avg. yield (bu/ac)	2-year avg. yield (bu/ac)	Yield (bu/ac)	Rank	Test weight (lb/bu)	Head date	Plant height (in.)	Leaf bacterial streak severity (0-9)	Fusarium head blight rating (0-9)
PGX 17-16		70.5	67.5	46	57.1	4/18	38	2.0	1.5
USG 3329		69.9	65.1	60	52.7	4/15	36	2.0	2.0
LCS L11719		68.6	64.0	65	55.0	4/13	33	2.5	4.5
NC13-21213		66.1	72.3	32	57.4	4/9	38	3.5	3.5
Dyna-Gro 9862		65.8	65.8	58	54.6	4/19	35	1.5	1.0
LA08080C-31-1		60.2	63.4	67	55.4	4/10	35	3.0	5.0
AR09179UC-9-3		59.1	63.6	66	58.8	4/11	36	3.0	3.0
Croplan CP9606		58.2	49.2	91	50.3	4/12	37	3.0	2.0
AGS 2024		53.0	67.6	45	54.1	4/11	36	3.0	5.0
AR09179UC-1-1		50.4	64.2	64	58.8	4/12	34	2.5	4.0
USG 3640		44.1	47.8	93	54.3	4/9	36	4.0	4.0
LW 2848			79.6	6	58.2	4/17	36	1.5	1.5
Dyna-Gro WX18416			79.4	7	58.1	4/13	38	2.0	2.0
Armor Velocity			77.7	12	56.8	4/13	38	2.0	2.0
Dyna-Gro 9941			77.3	13	55.7	4/17	36	1.0	1.0
15MX131			76.8	15	56.4	4/15	34	1.5	1.0
LW Ex19A			76.7	16	55.1	4/18	38	1.0	1.5
AgriMAXX EXP 1902			76.4	17	57.6	4/17	36	1.5	1.0
LCS L11814			75.9	20	54.0	4/9	33	2.5	4.0
Delta Grow Exp 1400			75.3	23	57.6	4/14	38	2.0	2.5
AgriMAXX EXP 1906			75.2	24	58.4	4/11	37	2.5	4.5
LCS L11718			74.6	26	54.5	4/12	37	1.0	2.0
Dixie DEX 19-1			72.6	29	56.7	4/14	36	2.5	2.5
USG 3458			72.4	30	55.1	4/14	35	1.5	3.0
SY Richie			71.0	37	56.9	4/7	34	3.5	2.5
15MDX19			70.4	38	57.1	4/11	33	2.5	2.5
15MDX20			70.3	39	56.3	4/11	34	3.5	3.5
Liberty 5658			69.5	42	57.5	4/11	38	3.5	3.0
Go Wheat 2032			67.4	47	56.0	4/9	36	3.0	5.5
VA09MAS1-12-5-1-1			67.4	48	57.8	4/11	38	3.0	3.5
Dyna-Gro TV8861			67.2	49	55.6	4/16	38	2.0	2.0
USG 3539			67.1	50	57.6	4/14	35	2.5	3.0
PGX 18-7			67.1	51	57.2	4/13	37	2.5	1.5
PGX 18-5			67.0	52	56.5	4/16	37	2.0	1.0
15MDX18			66.9	53	56.7	4/11	32	2.5	2.5
PGX 18-2			66.8	54	58.5	4/8	35	3.5	4.0
TX15D9597			66.5	56	58.2	4/8	35	2.5	6.0
AgriMAXX EXP 1913			65.6	59	57.5	4/7	36	4.0	3.0

Table 4. Performance of wheat cultivars, Marianna, Continued.^a

Entry name	Multi-year		2019 data						
	3-year avg. yield (bu/ac)	2-year avg. yield (bu/ac)	Yield (bu/ac)	Rank	Test weight (lb/bu)	Head date	Plant height (in.)	Leaf bacterial streak severity (0-9)	Fusarium head blight rating (0-9)
PGX 16-4			64.8	61	54.1	4/10	34	3.5	4.5
Dyna-Gro WX19621			64.3	63	55.4	4/15	37	2.5	1.0
Armor ARW1815			62.8	68	55.9	4/15	37	2.0	1.5
LW Ex19C			62.6	69	55.2	4/19	36	1.5	1.0
PGX 18-8			62.5	70	54.9	4/14	34	2.5	4.5
Armor ARW1819			61.8	71	54.2	4/15	35	3.0	4.5
LW Ex19B			60.4	74	58.4	4/17	38	2.0	1.0
PGX 18-11			60.4	75	54.7	4/9	34	3.0	3.0
TX15D9253			57.8	81	54.6	4/10	36	4.0	4.0
GA09377-16LE18			57.7	82	53.5	4/9	35	2.5	5.0
GA09129-16E55			56.9	84	56.9	4/5	37	3.0	5.0
LWEx19D			56.6	85	55.2	4/13	32	2.5	4.0
AgriMAXX 481			56.5	86	54.9	4/8	32	3.5	6.0
LCS L11815			55.9	87	50.5	4/14	40	3.5	3.5
GA071518-16E39			53.1	88	51.4	4/9	34	4.0	7.5
Armor Venom			51.5	89	55.3	4/15	38	2.0	1.5
LA10191C-1			50.1	90	57.6	4/6	33	4.0	5.0
GA09436-16LE12			48.6	92	56.7	4/11	37	2.5	3.5
TX15D9579			47.2	94	53.9	4/8	34	2.0	5.0
TX15D9608			45.2	95	52.3	4/9	31	4.0	7.0
LA13235DH-19			44.5	96	51.8	4/9	33	4.0	6.5
Mean	71.6	67.7	67.1		56.0	4/12	36	2.5	2.9
LSD (5%)			9.6		1.9	1	2	1.1	1.4
C.V. (%)			5.2		1.2	0.0	2	16.1	16.5

^a Mean across both the standard input and foliar fungicide treated tests. See Table 5 for fungicide efficacy.

Table 5. Comparison of wheat cultivars in standard input and foliar fungicide tests, Marianna.

Entry name	Grain yield			Test weight		
	Fungicide control	No control	Change	Fungicide control	No control	Change
	------(bu/ac)-----			------(lb/bu)-----		
AgriMAXX 415	78.4	60.9	17.5	60.2	57.8	2.4
AgriMAXX 473	71.3	72.7	-1.4	57.8	56.9	0.9
AgriMAXX 475	65.8	51.8	14.1	54.4	54.2	0.1
AgriMAXX 481	65.3	47.8	17.5	56.4	53.4	3.0
AgriMAXX EXP 1902	85.9	67.0	18.9	59.2	56.0	3.2
AgriMAXX EXP 1906	80.3	70.2	10.2	59.0	57.9	1.1
AgriMAXX EXP 1913	69.4	61.9	7.5	57.8	57.2	0.5
Armor ARW1815	65.7	60.0	5.7	57.6	54.2	3.3
Armor ARW1819	67.8	55.8	12.1	55.8	52.7	3.1
Armor Mayhem	86.6	76.4	10.2	58.5	57.3	1.2
Armor Venom	60.3	42.6	17.7	56.5	54.2	2.4
Armor Velocity	86.5	69.0	17.5	57.8	55.7	2.1
Dixie Bentley	69.9	58.8	11.1	60.1	58.3	1.8
Dixie Brown	76.8	77.2	-0.4	56.9	57.8	-0.9
Dixie Jones	64.6	51.9	12.7	55.2	52.5	2.8
Dixie DXEX 18-1	76.8	67.7	9.1	57.2	56.2	1.0
Dixie DXEX 18-2	77.2	66.9	10.3	58.8	56.4	2.4
Dixie DXEX 19-1	85.4	59.9	25.5	58.0	55.4	2.7
Pioneer 26R10	61.7	56.4	5.3	52.8	49.6	3.3
Pioneer 26R36	71.4	46.3	25.1	58.3	55.4	2.9
Pioneer 26R41	76.7	68.7	8.0	57.4	57.8	-0.4
Pioneer 26R45	76.1	63.1	13.1	54.4	55.6	-1.2
Pioneer 26R59	70.5	71.7	-1.2	53.6	52.8	0.8
Delta Grow 1000	85.0	73.3	11.7	57.8	54.5	3.3
Delta Grow 3500	61.1	53.8	7.3	56.4	54.8	1.6
Dyna-Gro 9701	81.8	74.3	7.5	58.1	57.1	1.0
Dyna-Gro 9811	78.5	72.1	6.5	58.1	57.8	0.4
Dyna-Gro 9862	68.4	63.2	5.3	56.3	52.9	3.4
Dyna-Gro 9941	78.5	76.2	2.3	56.6	54.9	1.7
Dyna-Gro TV8861	72.4	62.1	10.3	56.1	55.1	1.0
Dyna-Gro WX18416	81.7	77.2	4.5	58.1	58.1	0.1
Dyna-Gro WX19621	59.9	68.7	-8.8	55.4	55.5	-0.1
#BLAZE	64.5	57.8	6.8	53.1	51.8	1.3
#BULLET	82.2	69.4	12.8	58.2	56.1	2.1
#FURY	63.5	57.4	6.1	50.5	48.7	1.8
#TURBO	85.9	89.1	-3.2	59.6	59.9	-0.4
#WARRIOR	81.5	70.6	10.9	55.8	55.1	0.6
PGX 17-16	74.4	60.5	13.9	58.1	56.2	2.0
PGX 18-11	63.1	57.7	5.3	55.3	54.1	1.2

Table 5. Comparison of wheat cultivars in standard input and foliar fungicide tests, Marianna, Continued.

Entry name	Grain yield			Test weight		
	Fungicide control	No control	Change	Fungicide control	No control	Change
	------(bu/ac)-----			------(lb/bu)-----		
PGX 18-2	70.9	62.7	8.2	59.0	58.0	1.0
PGX 18-5	74.9	59.0	15.9	58.0	55.1	3.0
PGX 18-7	68.6	65.6	3.0	58.2	56.1	2.1
PGX 18-8	68.9	56.1	12.8	56.1	53.8	2.3
LCS L11718	76.8	72.3	4.5	54.2	54.9	-0.6
LCS L11719	70.7	57.4	13.3	56.4	53.5	2.9
LCS L11814	82.9	68.9	14.1	54.0	53.9	0.1
LCS L11815	63.9	47.9	16.1	52.8	48.2	4.6
LW 2848	86.1	73.0	13.1	59.0	57.5	1.5
LW Ex19A	74.2	79.3	-5.1	54.5	55.7	-1.2
LW Ex19B	78.2	42.7	35.5	58.4	58.4	0.0
LW Ex19C	72.5	52.6	19.9	57.4	53.1	4.3
LA08080C-31-1	68.7	58.1	10.7	56.0	54.7	1.3
LA09225C-33-3	79.3	70.4	8.9	58.0	57.4	0.6
LA10191C-1	55.3	44.9	10.5	57.9	57.4	0.5
LA13235DH-19	50.6	38.5	12.1	53.5	50.1	3.4
NC13-21213	75.5	69.2	6.3	58.1	56.8	1.4
AGS 2038	78.7	59.3	19.4	54.5	48.6	5.9
AGS 2024	76.9	58.4	18.5	55.7	52.5	3.2
AGS 2055	68.0	63.6	4.4	55.6	54.9	0.7
Go Wheat 2032	71.1	63.8	7.3	56.8	55.1	1.7
Go Wheat 2058	80.8	71.4	9.5	58.6	56.6	2.0
SY 547	85.3	77.6	7.7	59.4	57.9	1.5
SY Viper	77.5	69.6	7.9	57.2	56.6	0.5
SY Richie	73.1	68.9	4.2	57.3	56.5	0.8
TX15D9253	64.0	51.5	12.5	55.6	53.7	2.0
TX15D9579	48.5	45.9	2.7	53.7	54.1	-0.4
TX15D9597	73.7	59.3	14.4	59.6	56.9	2.7
TX15D9608	53.2	37.3	16.0	52.3	53.3	-1.1
USG 3329	73.7	56.6	17.2	54.3	51.1	3.3
USG 3458	84.7	60.2	24.6	55.3	55.0	0.3
USG 3536	83.2	81.7	1.6	58.5	57.3	1.3
USG 3539	80.7	53.6	27.1	58.8	56.1	2.6
USG 3895	72.3	61.0	11.3	57.1	54.0	3.2
AR06037-17-2	78.8	59.0	19.8	57.4	54.2	3.2
AR06146E-1-4	77.5	67.4	10.2	61.0	59.1	2.0
AR07133C-19-4	69.0	47.6	21.4	56.2	56.2	0.0
AR09137UC-17-2	81.5	76.2	5.3	58.8	57.4	1.4
AR09179UC-1-1	72.4	56.0	16.5	60.1	57.5	2.6
AR09179UC-9-3	75.0	52.2	22.9	60.3	57.2	3.1

Table 5. Comparison of wheat cultivars in standard input and foliar fungicide tests, Marianna, Continued.

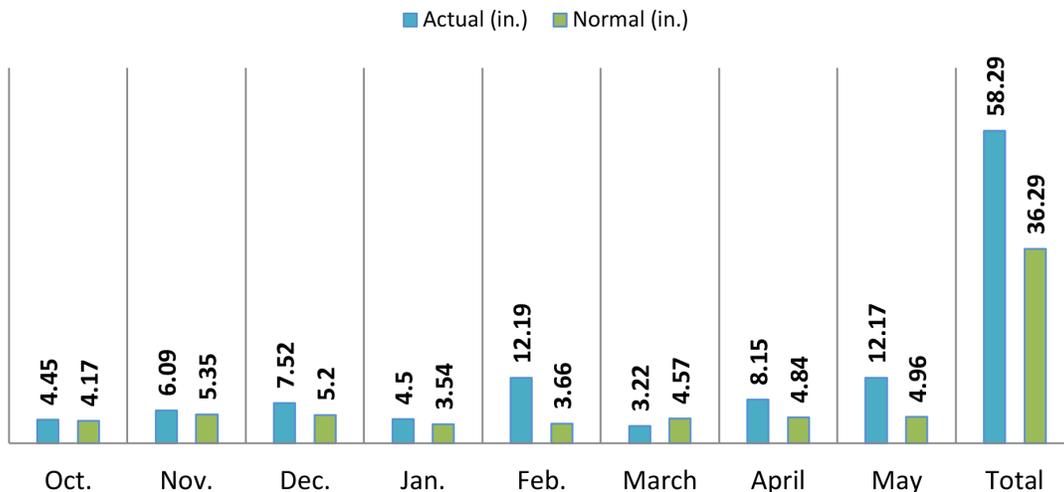
Entry name	Grain yield			Test weight		
	Fungicide control	No control	Change	Fungicide control	No control	Change
	------(bu/ac)-----			------(lb/bu)-----		
Delta Grow Exp 1400	76.2	74.4	1.9	58.2	57.0	1.2
PGX 16-4	65.3	64.3	1.0	55.8	52.4	3.4
LWEx19D	62.2	51.1	11.1	55.9	54.5	1.4
USG 3640	56.3	39.3	17.0	55.6	53.1	2.5
GA071518-16E39	59.6	46.6	13.0	52.6	50.2	2.4
GA09129-16E55	58.7	55.1	3.7	56.7	57.0	-0.3
GA09377-16LE18	61.9	53.5	8.4	54.1	53.0	1.2
GA09436-16LE12	54.8	42.5	12.3	58.1	55.3	2.9
15MDX18	72.3	61.5	10.9	58.5	54.9	3.6
15MDX19	72.7	68.1	4.6	58.1	56.1	2.1
15MDX20	72.7	67.9	4.8	57.7	54.9	2.8
15MX131	81.6	72.1	9.5	57.3	55.5	1.8
Liberty 5658	74.7	64.4	10.4	58.1	56.8	1.3
Hilliard	84.7	77.0	7.8	59.0	58.3	0.7
VA09MAS1-12-5-1-1	70.5	64.4	6.1	57.6	58.0	-0.4
Croplan CP8550	80.6	76.4	4.2	57.9	56.7	1.2
Croplan CP9606	54.2	44.2	10.0	47.9	52.7	-4.8
Mean	72.4	61.9	10.4	56.8	55.2	1.6
LSD (5%)	12.5	14.3		2.3	2.8	
C.V. (%)	6.2	8.3		1.5	1.8	

Newport: Newport Extension Center (NRC)

Standard and Fungicide Treated Summary



2018-2019 NEWPORT MONTHLY PRECIPITATION



Newport-Wheat

Soil Series:	Beulah fine sandy loam	Fertilizer Application(s):	90 lb N/ac + 24 lb S/ac 60 lb N/ac	Feb. 27, 2019 March 19, 2019
Previous Crop:	Fallow	Herbicide Application(s):	2 oz/ac Zidua 2.1 pt/ac Prowl H ₂ O 16.4 oz/ac Axial XL 0.75 oz/ac Harmony Extra	Nov. 29, 2018 Nov. 29, 2018 March 28, 2019 March 28, 2019
Planting Date:	Oct. 24, 2018	Fungicide Application(s):	4 oz/ac Tilt (REP 1-2)	April 3, 2019
Harvest Date(s):	June 11, 2019			

Table 6. Performance of wheat cultivars, Newport.^a

Entry name	Multi-year		2019 data					
	3-year avg. yield	2-year avg. yield	Yield	Rank	Test weight	Plant height	Leaf bacterial streak severity	Fusarium head blight rating
	----- (bu/ac) -----		(bu/ac)		(lb/bu)	(in.)	(0-9)	(0-9)
#TURBO	80.5	78.4	73.1	2	54.1	32	2	2
Dyna-Gro 9701	79.7	70.4	64.6	20	52.8	36	1	0
Dixie Brown	79.0	74.0	62.6	30	52.8	31	1	0
AR06146E-1-4	78.7	70.9	69.1	5	56.2	35	1	0
Go Wheat 2058	77.7	70.1	63.8	22	51.3	29	3	1
Armor Mayhem	77.2	73.3	59.3	46	52.4	33	1	1
USG 3536	77.2	68.3	57.5	55	52.1	33	1	1
AR06037-17-2	76.3	70.6	65.6	16	53.9	30	1	0
#FURY	76.2	61.8	53.2	68	41.9	28	2	3
Pioneer 26R59	76.2	74.3	60.5	41	46.6	28	1	1
Pioneer 26R41	74.7	65.8	56.6	57	49.1	30	1	0
Dixie Bentley	74.6	71.0	65.0	19	52.6	33	2	2
AgriMAXX 473	74.3	68.5	59.1	48	53.6	32	1	0
#WARRIOR	74.1	70.4	68.4	7	51.1	32	1	1
Delta Grow 1000	73.8	68.2	63.3	25	52.8	34	1	0
Dyna-Gro 9811	73.5	64.2	57.2	56	50.5	29	2	1
Pioneer 26R45	73.0	64.3	58.6	52	42.7	33	1	1
#BULLET	72.9	70.4	67.8	10	53.7	35	1	0
AGS 2055	72.5	64.7	58.5	53	49.0	33	2	3
LA09225C-33-3	71.8	64.6	59.0	49	55.7	34	1	1
Hilliard	71.3	67.7	59.2	47	49.5	33	2	1
Delta Grow 3500	70.6	68.6	55.9	60	48.4	30	3	2
AGS 2038	69.7	64.0	53.1	69	49.4	36	1	2
AgriMAXX 415	69.5	63.0	59.5	44	53.0	32	1	1
AR07133C-19-4	69.3	60.0	49.0	81	47.8	34	2	1
SY 547	68.8	66.1	51.2	74	52.5	34	3	0
SY Viper	67.1	64.4	60.0	43	52.9	32	1	1
USG 3895	66.0	58.6	49.0	80	48.8	27	2	1
#BLAZE	65.0	68.2	65.7	15	50.4	32	1	1
Pioneer 26R10	64.2	59.3	50.9	77	46.6	31	2	0
Pioneer 26R36	62.6	54.8	47.0	88	50.6	29	2	0
Dixie Jones	60.9	56.7	40.4	94	47.3	27	2	0
AgriMAXX 475	56.9	51.8	39.5	96	47.3	28	2	0
AGS 2024		75.7	65.2	18	51.0	31	2	2
AR09137UC-17-2		70.6	72.9	3	52.4	33	1	1
Croplan CP8550		68.5	62.8	29	52.7	34	1	0
NC13-21213		66.9	56.2	59	51.3	30	2	2

Table 6. Performance of wheat cultivars, Newport, Continued.^a

Entry name	Multi-year		2019 data					
	3-year avg. yield	2-year avg. yield	Yield	Rank	Test weight	Plant height	Leaf bacterial streak severity	Fusarium head blight rating
	----- (bu/ac) -----		(bu/ac)		(lb/bu)	(in.)	(0-9)	(0-9)
LA08080C-31-1		65.3	64.3	21	51.6	30	2	1
USG 3640		64.8	53.7	67	51.2	32	2	2
USG 3329		64.4	63.4	24	48.9	32	1	1
Dixie DXEX 18-1		64.2	56.4	58	52.8	30	1	0
AR09179UC-1-1		62.2	58.1	54	54.6	31	2	3
AR09179UC-9-3		60.9	53.1	70	50.9	32	2	3
LCS L11719		60.9	51.1	75	51.2	30	2	1
Dyna-Gro 9862		60.7	60.7	40	53.6	32	1	0
Dixie DXEX 18-2		60.6	49.1	79	51.1	33	2	0
PGX 17-16		59.2	48.2	86	50.3	32	2	1
Croplan CP9606		53.0	49.0	82	47.7	32	2	1
LCS L11814			75.6	1	52.0	30	2	1
PGX 18-11			69.5	4	49.6	31	2	2
TX15D9597			68.5	6	54.6	33	1	3
PGX 18-7			68.0	8	54.5	33	2	1
Dyna-Gro 9941			67.9	9	52.4	30	1	0
Dyna-Gro WX18416			67.2	11	52.8	32	2	1
AgriMAXX EXP 1906			67.1	12	52.1	35	2	1
Dixie DXEX 19-1			66.9	13	52.4	34	1	0
LCS L11718			66.5	14	49.7	32	1	0
AgriMAXX EXP 1913			65.3	17	52.4	33	2	1
TX15D9579			63.5	23	49.7	31	2	3
USG 3458			63.2	26	50.2	29	1	1
USG 3539			63.1	27	51.8	33	2	1
LW Ex19A			62.9	28	51.0	32	2	0
PGX 18-2			62.3	31	51.3	30	2	2
PGX 18-5			62.2	32	52.5	32	1	0
LW 2848			62.0	33	53.5	33	1	0
Delta Grow Exp 1400			61.7	34	52.7	32	1	0
PGX 16-4			61.3	35	46.5	31	2	4
VA09MAS1-12-5-1-1			61.3	36	54.0	31	2	1
Go Wheat 2032			61.2	37	51.4	29	2	4
Dyna-Gro TV8861			61.0	38	52.1	30	1	1
Liberty 5658			60.8	39	53.0	32	2	1
AgriMAXX EXP 1902			60.5	42	53.6	31	1	0
Armor Velocity			59.5	45	51.3	34	2	1
Armor ARW1815			59.0	50	52.7	34	2	1

Table 6. Performance of wheat cultivars, Newport, Continued.^a

Entry name	Multi-year		2019 Data					
	3-year avg. yield	2-year avg. yield	Yield	Rank	Test weight	Plant height	Leaf bacterial streak severity	Fusarium head blight rating
	----- (bu/ac) -----		(bu/ac)		(lb/bu)	(in.)	(0-9)	(0-9)
GA09129-16E55			58.8	51	53.0	32	2	2
LW Ex19C			55.9	61	51.9	31	1	0
SY Richie			54.7	62	48.8	30	2	2
AgriMAXX 481			54.6	63	47.5	27	3	4
15MX131			54.6	64	52.0	28	2	1
TX15D9253			54.4	65	50.0	32	2	4
Armor ARW1819			53.9	66	51.6	30	2	1
LWEx19D			53.0	71	51.1	30	2	1
PGX 18-8			52.6	72	51.4	32	3	1
GA071518-16E39			52.3	73	46.7	30	3	4
Dyna-Gro WX19621			50.9	76	48.5	34	2	0
GA09377-16LE18			50.8	78	48.7	32	2	3
15MDX20			48.9	83	47.9	29	3	1
LA10191C-1			48.8	84	52.4	28	3	3
GA09436-16LE12			48.7	85	54.5	32	2	1
Armor Venom			48.2	87	51.3	31	2	0
TX15D9608			46.4	89	46.2	27	3	2
LW Ex19B			46.2	90	49.4	32	2	0
LA13235DH-19			45.8	91	44.1	27	3	4
LCS L11815			44.3	92	43.4	32	4	0
15MDX19			41.8	93	50.2	28	2	0
15MDX18			39.9	95	50.7	27	2	0
Mean	72.0	65.6	57.9		50.8	31	2	1.1
LSD (5%)			9.8		2.0	3	1	1.1
C.V. (%)			6.1		1.4	3.4	14.3	33.3

^a Mean across both the standard input and foliar fungicide treated tests. See Table 7 for fungicide efficacy.

Table 7. Comparison of wheat cultivars in standard input and foliar fungicide tests, Newport.

Entry name	Grain yield			Test weight		
	Fungicide control	No control	Change	Fungicide control	No control	Change
	------(bu/ac)-----			------(lb/bu)-----		
AgriMAXX 415	68.6	50.5	18.1	54.5	51.5	3.0
AgriMAXX 473	63.2	55.0	8.2	53.2	54.0	-0.8
AgriMAXX 475	43.7	35.2	8.5	48.4	46.3	2.1
AgriMAXX 481	62.0	47.2	14.8	50.3	44.8	5.6
AgriMAXX EXP 1902	63.6	57.3	6.3	53.9	53.4	0.5
AgriMAXX EXP 1906	71.4	62.9	8.5	52.4	51.9	0.5
AgriMAXX EXP 1913	70.1	60.6	9.6	52.7	52.1	0.5
Armor ARW1815	68.3	49.7	18.6	53.4	52.0	1.4
Armor ARW1819	53.2	54.6	-1.4	52.8	50.5	2.3
Armor Mayhem	62.4	56.2	6.2	52.5	52.3	0.2
Armor Venom	52.4	44.0	8.4	52.3	50.2	2.1
Armor Velocity	67.3	51.8	15.5	52.3	50.4	1.9
Dixie Bentley	65.1	64.9	0.3	52.5	52.7	-0.1
Dixie Brown	69.2	56.0	13.2	53.3	52.3	1.1
Dixie Jones	40.7	40.2	0.5	46.2	48.3	-2.1
Dixie DEX 18-1	48.5	64.4	-16.0	51.8	53.8	-2.0
Dixie DEX 18-2	58.2	40.0	18.3	51.4	50.8	0.6
Dixie DEX 19-1	73.0	60.9	12.1	53.4	51.4	2.1
Pioneer 26R10	53.0	48.7	4.3	46.4	46.8	-0.4
Pioneer 26R36	46.1	47.9	-1.9	50.2	51.1	-0.9
Pioneer 26R41	61.7	51.4	10.3	51.0	47.3	3.7
Pioneer 26R45	67.1	50.2	16.9	43.2	42.3	0.9
Pioneer 26R59	67.0	54.1	12.9	46.6	46.6	0.1
Delta Grow 1000	68.8	57.8	11.0	53.2	52.4	0.8
Delta Grow 3500	70.9	40.9	30.1	51.6	45.1	6.5
Dyna-Gro 9701	68.0	61.2	6.8	53.2	52.4	0.8
Dyna-Gro 9811	62.8	51.6	11.2	50.7	50.3	0.4
Dyna-Gro 9862	62.3	59.1	3.2	53.9	53.4	0.5
Dyna-Gro 9941	67.4	68.5	-1.1	52.4	52.5	-0.1
Dyna-Gro TV8861	64.9	57.1	7.7	52.2	52.1	0.0
Dyna-Gro WX18416	70.2	64.3	5.9	53.2	52.4	0.8
Dyna-Gro WX19621	57.2	44.6	12.6	49.8	47.3	2.5
#BLAZE	70.1	61.4	8.7	50.4	50.4	0.0
#BULLET	76.0	59.6	16.4	54.4	53.0	1.4
#FURY	63.3	43.1	20.2	42.4	41.5	0.9
#TURBO	89.5	56.8	32.8	55.2	53.0	2.3
#WARRIOR	75.7	61.0	14.7	52.4	49.8	2.6
PGX 17-16	54.7	41.7	13.0	51.1	49.5	1.7
PGX 18-11	75.7	63.4	12.3	49.6	49.6	0.0

Table 7. Comparison of wheat cultivars in standard input and foliar fungicide tests, Newport, Continued.

Entry name	Grain yield			Test weight		
	Fungicide control	No control	Change	Fungicide control	No control	Change
	------(bu/ac)-----			------(lb/bu)-----		
PGX 18-2	70.5	54.1	16.4	53.3	49.4	3.9
PGX 18-5	69.9	54.4	15.5	53.3	51.7	1.6
PGX 18-7	67.2	68.8	-1.6	54.7	54.3	0.4
PGX 18-8	57.9	47.4	10.5	52.2	50.6	1.7
LCS L11718	73.7	59.4	14.4	49.4	50.1	-0.8
LCS L11719	47.4	54.9	-7.5	49.7	52.7	-3.0
LCS L11814	85.5	65.8	19.7	52.8	51.2	1.6
LCS L11815	56.6	31.9	24.7	47.3	39.4	7.9
LW 2848	63.3	60.7	2.6	53.8	53.2	0.6
LW Ex19A	76.9	48.9	28.0	52.5	49.5	3.1
LW Ex19B	48.0	44.5	3.6	50.3	48.5	1.8
LW Ex19C	63.5	48.3	15.2	52.5	51.4	1.1
LA08080C-31-1	73.7	54.9	18.8	51.9	51.3	0.6
LA09225C-33-3	66.7	51.3	15.5	56.3	55.2	1.1
LA10191C-1	50.8	46.8	4.0	52.2	52.7	-0.4
LA13235DH-19	52.3	39.4	12.9	45.6	42.6	3.0
NC13-21213	52.0	60.5	-8.5	51.9	50.6	1.3
AGS 2038	49.9	56.4	-6.6	49.0	49.9	-0.9
AGS 2024	68.2	62.3	5.9	51.6	50.4	1.3
AGS 2055	72.1	45.0	27.1	49.3	48.7	0.6
Go Wheat 2032	66.5	56.0	10.5	52.3	50.5	1.8
Go Wheat 2058	73.4	54.3	19.2	51.4	51.2	0.1
SY 547	57.6	44.7	12.9	54.8	50.3	4.5
SY Viper	63.8	56.2	7.6	54.3	51.6	2.8
SY Richie	59.1	50.3	8.8	49.1	48.5	0.6
TX15D9253	61.2	47.7	13.5	50.7	49.4	1.3
TX15D9579	71.2	55.8	15.4	50.7	48.7	2.0
TX15D9597	77.8	59.2	18.6	55.8	53.5	2.3
TX15D9608	45.7	47.1	-1.4	46.9	45.4	1.5
USG 3329	67.2	59.7	7.6	50.1	47.7	2.3
USG 3458	70.3	56.0	14.3	51.6	48.8	2.8
USG 3536	61.4	53.7	7.7	51.8	52.5	-0.8
USG 3539	71.8	54.4	17.5	52.9	50.7	2.3
USG 3895	53.2	44.9	8.3	49.8	47.9	1.9
AR06037-17-2	67.0	64.3	2.7	54.6	53.2	1.3
AR06146E-1-4	72.1	66.2	5.9	56.8	55.6	1.3
AR07133C-19-4	53.5	44.6	8.9	47.9	47.7	0.3
AR09137UC-17-2	75.8	70.1	5.7	52.7	52.2	0.4
AR09179UC-1-1	59.0	57.3	1.7	54.7	54.6	0.1

Table 7. Comparison of wheat cultivars in standard input and foliar fungicide tests, Newport, Continued.

Entry name	Grain yield			Test weight		
	Fungicide control	No control	Change	Fungicide control	No control	Change
	------(bu/ac)-----			------(lb/bu)-----		
AR09179UC-9-3	56.2	50.1	6.1	51.9	49.9	2.0
Delta Grow Exp 1400	64.5	58.8	5.7	53.6	51.8	1.9
PGX 16-4	68.5	54.1	14.4	48.8	44.2	4.6
LWEx19D	54.9	51.2	3.8	52.0	50.3	1.8
USG 3640	57.3	50.1	7.2	51.9	50.6	1.3
GA071518-16E39	58.9	45.7	13.2	47.3	46.1	1.2
GA09129-16E55	70.2	47.3	22.9	54.1	52.0	2.2
GA09377-16LE18	57.4	44.2	13.3	48.7	48.8	-0.1
GA09436-16LE12	50.5	47.0	3.5	53.7	55.4	-1.7
15MDX18	43.4	36.4	7.0	51.8	49.6	2.3
15MDX19	44.3	39.4	4.9	50.2	50.3	0.0
15MDX20	54.3	43.5	10.8	49.6	46.2	3.4
15MX131	61.3	47.9	13.4	53.5	50.5	3.0
Liberty 5658	68.1	53.5	14.6	54.0	52.0	2.0
Hilliard	71.4	47.1	24.3	51.9	47.1	4.8
VA09MAS1-12-5-1-1	69.7	52.8	16.9	55.0	52.9	2.1
Croplan CP8550	66.6	59.1	7.5	52.9	52.5	0.4
Croplan CP9606	57.7	40.4	17.3	48.0	47.5	0.5
Mean	63.1	52.7	10.4	51.5	50.2	1.3
LSD (5%)	14.8	10.2		2.4	2.7	
C.V. (%)	8.4	6.9		1.7	1.9	

Table 8. Disease reactions of wheat cultivars in inoculated nurseries.

Entry name	Fusarium head blight rating			Fusarium damaged kernels			DON ^a		Stripe rust severity
	2-yr avg.	2019 Newport	2019 Fayetteville	2-yr avg.	2019 Newport	2019 Fayetteville	2-yr avg.	2018 Newport	Fayetteville
	------(0-9)-----			------(%)-----			------(ppm)-----		------(%)-----
AgriMAXX 415	1	2	0	27	40	4	10	17	2
AgriMAXX 473	1	2	0	22	33	4	10	17	0
AgriMAXX 475	1	3	0	25	48	3	9	14	0
AgriMAXX 481		7	1		60	55			7
AgriMAXX EXP 1902		3	0		48	7			1
AgriMAXX EXP 1906		5	1		58	28			5
AgriMAXX EXP 1913		5	1		48	3			1
Armor ARW1815		3	1		40	3			2
Armor ARW1819		4	1		55	7			2
Armor Mayhem	1	3	0	21	38	3	9	15	0
Armor Venom		3	1		43	7			2
Armor Velocity		4	0		48	8			2
Dixie Bentley	2	4	1	21	40	6	6	9	1
Dixie Brown	1	3	0	21	25	3	11	19	0
Dixie Jones	1	3	0	27	40	2	12	18	1
Dixie DXEX 18-1	1	3	1	26	40	2		15	0
Dixie DXEX 18-2	1	3	1	25	40	4		16	5
Dixie DXEX 19-1		4	1		55	9			1
Pioneer 26R10	2	4	1	23	43	10	6	8	2
Pioneer 26R36	1	4	0	23	43	5	8	11	5
Pioneer 26R41	2	4	1	30	55	12	9	13	1
Pioneer 26R45	1	3	0	16	38	4	4	5	1
Pioneer 26R59	3	6	1	38	55	28	11	16	5
Delta Grow 1000	1	3	1	28	50	8	6	10	0
Delta Grow 3500	5	8	3	59	63	68	7	13	11
Dyna-Gro 9701	2	4	0	21	35	6	8	13	0
Dyna-Gro 9811	2	5	1	33	48	13	13	21	0
Dyna-Gro 9862	1	3	0	27	38	7		17	0
Dyna-Gro 9941		4	1		58	5			0
Dyna-Gro TV8861		7	1		55	13			5
Dyna-Gro WX18416		4	0		38	4			5
Dyna-Gro WX19621		3	1		48	7			5
#BLAZE	2	5	1	25	38	4	12	18	1
#BULLET	1	4	0	23	45	3	11	17	0
#FURY	6	9	4	83	90	88	19	30	9
#TURBO	2	4	1	21	33	3	10	17	2

Table 8. Disease reactions of wheat cultivars in inoculated nurseries, Continued.

Entry name	Fusarium head blight rating			Fusarium damaged kernels			DON ^a		Stripe rust severity
	2-yr avg.	2019 Newport	2019 Fayetteville	2-yr avg.	2019 Newport	2019 Fayetteville	2-yr avg.	2018 Newport	Fayetteville
	------(0-9)-----			------(%)-----			------(ppm)-----		------(%)-----
#WARRIOR	2	5	1	33	45	20	13	16	5
PGX 17-16	1	3	1	35	65	5		15	5
PGX 18-11		4	1		63	44			0
PGX 18-2		7	1		45	7			1
PGX 18-5		3	1		53	7			2
PGX 18-7		4	1		63	40			2
PGX 18-8		5	1		60	8			5
LCS L11718		4	1		48	9			0
LCS L11719	3	6	1	35	58	5		29	1
LCS L11814		4	1		35	10			23
LCS L11815		5	1		50	14			23
LW 2848		4	0		60	7			0
LW Ex19A		5	0		70	4			0
LW Ex19B		4	1		65	5			8
LW Ex19C		4	1		43	8			1
LA08080C-31-1	4	7	1	61	58	68		29	0
LA09225C-33-3	4	8	2	48	58	58	11	17	2
LA10191C-1		4	2		38	68			5
LA13235DH-19		8	2		80	93			2
NC13-21213	3	6	1	48	63	43		18	0
AGS 2038	6	9	3	66	63	78	21	32	5
AGS 2024	5	9	3	67	78	75		20	9
AGS 2055	6	9	4	79	95	73	19	32	1
Go Wheat 2032		9	3		85	80			2
Go Wheat 2058	2	4	1	35	40	43	8	14	5
SY 547	2	3	1	33	50	15	11	18	15
SY Viper	2	4	1	35	53	30	7	12	1
SY Richie		5	1		45	8			0
TX15D9253		9	3		90	75			0
TX15D9579		9	3		73	53			1
TX15D9597		9	2		68	30			2
TX15D9608		6	2		50	75			1
USG 3329	2	5	0	25	38	4		19	1
USG 3458		4	1		50	18			2
USG 3536	2	4	0	28	50	4	10	17	0
USG 3539		6	1		55	18			0
USG 3895	4	6	1	44	53	33	16		0

Table 8. Disease reactions of wheat cultivars in inoculated nurseries, Continued.

Entry name	Fusarium head blight rating			Fusarium damaged kernels			DON ^a		Stripe rust severity
	2-yr avg.	2019 Newport	2019 Fayetteville	2-yr avg.	2019 Newport	2019 Fayetteville	2-yr avg.	2018 Newport	Fayetteville
	------(0-9)-----			------(%)-----			------(ppm)-----		------(%)-----
AR06037-17-2	3	6	1	35	45	18	14	26	1
AR06146E-1-4	2	3	1	16	18	4	8	14	1
AR07133C-19-4	2	4	1	26	40	5	10	17	2
AR09137UC-17-2	3	4	1	32	48	7		19	0
AR09179UC-1-1	3	5	2	23	43	8		15	2
AR09179UC-9-3	3	6	1	30	55	8		19	2
Delta Grow Exp 1400		4	1		55	15			1
PGX 16-4		9	3		90	78			0
LWEx19D		5	1		50	5			0
USG 3640	4	7	1	58	68	73		20	15
GA071518-16E39		9	3		90	85			5
GA09129-16E55		4	1		43	38			5
GA09377-16LE18		8	3		95	85			11
GA09436-16LE12		8	3		58	63			11
15MDX18		6	1		48	10			2
15MDX19		6	1		38	10			5
15MDX20		6	1		35	7			2
15MX131		4	1		38	6			23
Liberty 5658		4	0		40	9			8
Hilliard	2	6	1	33	55	15	9	12	0
VA09MAS1-12-5-1-1		5	1		38	7			1
Croplan CP8550	2	5	0	25	38	6		24	0
Croplan CP9606	2	5	0	29	43	9		22	1
Mean	2	5	1	34	52	23	10	18	3
LSD (5%)		2	2		24	18		8	7
C.V. (%)		16.6	55.3		16.5	28.2		16.4	74.2

^a Deoxynivalenol (DON), commonly known as vomitoxin, data is reported for lines tested in 2017-2018 and earlier.

**Participants and Entries
2018-2019 Wheat Variety Test**

Company

AgriMaxx Wheat Company

7167 Highbanks Road
Mascoutah, IL 62258

Variety

AgriMAXX 415
AgriMAXX 473
AgriMAXX 475
AgriMAXX 481
AgriMAXX EXP 1902
AgriMAXX EXP 1906
AgriMAXX EXP 1913

Armor Seed

P.O. Box 178
Fisher, AR 72429

ARMOR ARW1815
ARMOR ARW1819
ARMOR Mayhem
ARMOR Velocity

Cache River Valley Seed, LLC

P.O. Box 10
Cash, AR 72421

Dixie Bentley
Dixie Brown
Dixie Jones
Dixie DXEX 18-1
Dixie DXEX 18-2
Dixie DXEX 19-1

Delta Grow Seed

220 NW 2nd Street
England, AR 72046

Delta Grow 1000
Delta Grow 3500
Delta Grow EXP 1400

**Corteva Agriscience – Ag. Div. of
DowDupont**

425 Abbeydale Way
Columbia, SC 29229

Pioneer 26R10
Pioneer 26R36
Pioneer 26R41
Pioneer 26R45
Pioneer 26R59

**Participants and Entries, Continued
2018-2019 Wheat Variety Test**

<u>Company</u>	<u>Variety</u>
Dyna-Gro Seed 6221 Riverside Dr. Suite One Dublin, OH 43017	Dyna-Gro 9701 Dyna-Gro 9811 Dyna-Gro 9862 Dyna-Gro 9941 Dyna-Gro TV8861 Dyna-Gro WX18416 Dyna-Gro WX19621
Limagrain Cereal Seeds 4846 E 450N Lafayette, IN 47905	LCS L11718 LCS L11719 LCS L11814 LCS L11815
Local Seed Company LLC 802 Rozelle St. Memphis, TN 38104	LW 2848 LW Ex19A LW Ex19B LW Ex19C LWEx19D
Erwin-Keith, Inc. / Progeny Ag 1529 Hwy 192 South Wynne, AR 72396	#BLAZE #BULLET #FURY #TURBO #WARRIOR PGX 16-4 PGX 17-16 PGX 18-2 PGX 18-5 PGX 18-7 PGX 18-8 PGX 18-11

Participants and Entries, Continued
2018-2019 Wheat Variety Test

<u>Company</u>	<u>Variety</u>
Stratton Seed 1530 HWY. 79 S Stuttgart, AR 72160	AGS 2024 AGS 2038 AGS 2055 Go Wheat 2032 Go Wheat 2058
Syngenta Seeds, Inc. 14031 Trestle Rd Highland, IL 62249	SY 547 SY Viper SY Richie
UniSouth Genetics, Inc. 2640-C Nolensville Road Nashville, TN 37211	USG 3329 USG 3458 USG 3536 USG 3539 USG 3895 USG 3640
Winfield United 1080 County Road F West, MS 5850 Shoreview MN 55126-2910	Croplan CP8550 Croplan CP9606
<u>Public Institutions</u>	<u>Variety</u>
Louisiana State University Agronomy Department 221 M.B. Sturgis Hall Baton Rouge, LA 70803-2110	LA08080C-31-1 LA09225C-33-3 LA10191C-1 LA13235DH-19
North Carolina State University 840 Unit Method Rd, Unit 3 Raleigh, NC 27606	NC13-21213

Participants and Entries
2018-2019 Wheat Variety Test

<u>Company</u>	<u>Variety</u>
Texas A&M University	TX15D9253
750 Agronomy Rd. STE 2701	TX15D9579
College Station, TX 77843-0001	TX15D9597
	TX15D9608
University of Arkansas	AR06037-17-2
115 Plant Sciences Building	AR06146E-1-4
Fayetteville, AR 72701	AR07133C-19-4
	AR09137UC-17-2
	AR09179UC-1-1
	AR09179UC-9-3
University of Georgia	GA071518-16E39
1109 Experiment St.	GA09129-16E55
Griffin, GA 30223	GA09377-16LE18
	GA09436-16LE12
University of Maryland	15MDX18
Bldg 398 Research Greenhouse	15MDX19
4252 Terrapin Trail	15MDX20
College Park, MO 20742	15MX131
VA Tech/EVAREC	Liberty 5658
2229 Menokin Road	DH12SRW056-058
Warsaw, VA 22572	VA09MAS1-12-5-1-1

Wheat Test Locations



- LMCRS** - Lon Mann Cotton Research Station, Marianna
- NEC** - Newport Extension Center, Newport
- NEREC** - Northeast Research and Extension Center, Keiser
- PTRS** - Pine Tree Research Station, Colt
- RRS** - Rohwer Research Station, Rohwer
- SWREC** - Southwest Research and Extension Center, Hope
- VRS** - Vegetable Research Station, Kibler

UofA

DIVISION OF AGRICULTURE
RESEARCH & EXTENSION

University of Arkansas System