

8-1-2018

Arkansas Wheat Cultivar Performance Tests 2017-2018

R. E. Mason

University of Arkansas, Fayetteville

R. G. Miller

University of Arkansas, Fayetteville

D. E. Moon

University of Arkansas, Fayetteville

J. P. Kelley

University of Arkansas, Fayetteville

Follow this and additional works at: <https://scholarworks.uark.edu/aaesser>

 Part of the [Agricultural Science Commons](#), [Agronomy and Crop Sciences Commons](#), [Botany Commons](#), and the [Horticulture Commons](#)

Recommended Citation

Mason, R. E.; Miller, R. G.; Moon, D. E.; and Kelley, J. P., "Arkansas Wheat Cultivar Performance Tests 2017-2018" (2018). *Research Series*. 1.

<https://scholarworks.uark.edu/aaesser/1>

This Report is brought to you for free and open access by the Arkansas Agricultural Experiment Station at ScholarWorks@UARK. It has been accepted for inclusion in Research Series by an authorized administrator of ScholarWorks@UARK. For more information, please contact scholar@uark.edu, ccmiddle@uark.edu.



Arkansas

Wheat Cultivar Performance Tests 2017-2018

**R.E. Mason • R.G. Miller
D.E. Moon • J.P. Kelley**

UofA
DIVISION OF AGRICULTURE
RESEARCH & EXTENSION
University of Arkansas System

ARKANSAS AGRICULTURAL EXPERIMENT STATION

August 2018

Research Series 653

This publication is available on the internet at: <http://arkansas-ag-news.uark.edu/research-series.aspx> and at www.arkansasvarietytesting.com

Technical editing and cover design by Gail Halleck.

Photo Credit: This image of University of Arkansas System Division of Agriculture wheat breeding lines was taken during the early grain-filling stage in May, 2017 at the Arkansas Agricultural Research and Extension Center, Fayetteville, Ark., 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.

The University of Arkansas System Division of Agriculture offers all its Extension and Research programs and services without regard to race, color, sex, gender identity, sexual orientation, national origin, religion, age, disability, marital or veteran status, genetic information, or any other legally protected status, and is an Affirmative Action/Equal Opportunity Employer.

ISSN: 1941-1596 CODEN: AKAMA6

Arkansas Wheat Cultivar Performance Tests

2017-2018

R.E. Mason

R.G. Miller

D.E. Moon

J.P. Kelley



**Arkansas Agricultural Experiment Station
University of Arkansas System
Division of Agriculture
Fayetteville, Arkansas 72704**

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

University of Arkansas, Fayetteville

Peter Rohman, Program Technician

Andrea Acuna, Graduate Student

Dennis Lozada, Graduate Student

Habibullah Hayat, Graduate Student

Dylan Larkin, Graduate Student

Zachary Winn, Graduate Student

Jamison Murry, Graduate Student

Arkansas Agricultural Research and Extension Center

Vaughn Skinner, Center Director

Ronald Cox, Program Technician

Northeast Research and Extension Center, Keiser

Charles "Chuck" Wilson, Center Director

Mike Duren, Resident Director

Vegetable Substation, Kibler

Dennis Motes, Resident Director

Steven Eaton, Program Associate

Lon Mann Cotton Research Station, Marianna

Claude Kennedy, Resident Director

Newport Extension Center, Newport

Bob Scott, Center Director

Nathan Pearrow, Program Technician

Rohwer Research Station, Rohwer

Larry Earnest, Resident Director

Linda Martin, Program Technician

Pine Tree Research Station, Colt

Shawn Clark, Resident Director

Contents

	Page
Introduction.....	4
Methods.....	4
Weather Summary.....	5
Results.....	5
Map of Testing Sites	6
Table 1. Summary of statewide and Delta wheat yields and test weights in Arkansas.....	7
Table 2. Performance of wheat cultivars in the standard input test, Keiser.....	11
Table 3. Performance of wheat cultivars in the standard input test, Kibler.....	15
Table 4. Performance of wheat cultivars in the standard input test, Hope.....	19
Table 5. Performance of wheat cultivars in the standard input test, Marianna.....	23
Table 6. Performance of wheat cultivars in the standard input test, Newport.....	27
Table 7. Performance of wheat cultivars in the standard input test, Rohwer.....	30
Table 8. Disease reactions of wheat cultivars in inoculated nurseries.....	31
Participants and Entries (companies).....	34
Participants and Entries (public institutions).....	36
Map of Testing Sites	(inside back cover)

Arkansas Wheat Cultivar Performance Tests¹ 2017-2018

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. 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/acre was used to establish plots 20 feet in length and 49 inches in width (7 rows, 7 inches apart). The tests at Rohwer and Pine Tree were planted using a grain drill with 9 rows, 6 inches apart. Due to the larger area planted (plot width), the effective seeding rate was reduced to 82 lb/acre. All sites used

conventional seedbed preparation, with the exception of Rohwer where raised beds were used. 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 ArkansasVarietyTesting.com. 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.

²Associate Professor, Program Associate II, Program Associate II, and Associate Professor, respectively, Department of Crop, Soil and Environmental Sciences, University of Arkansas, Fayetteville, Ark. 72701.

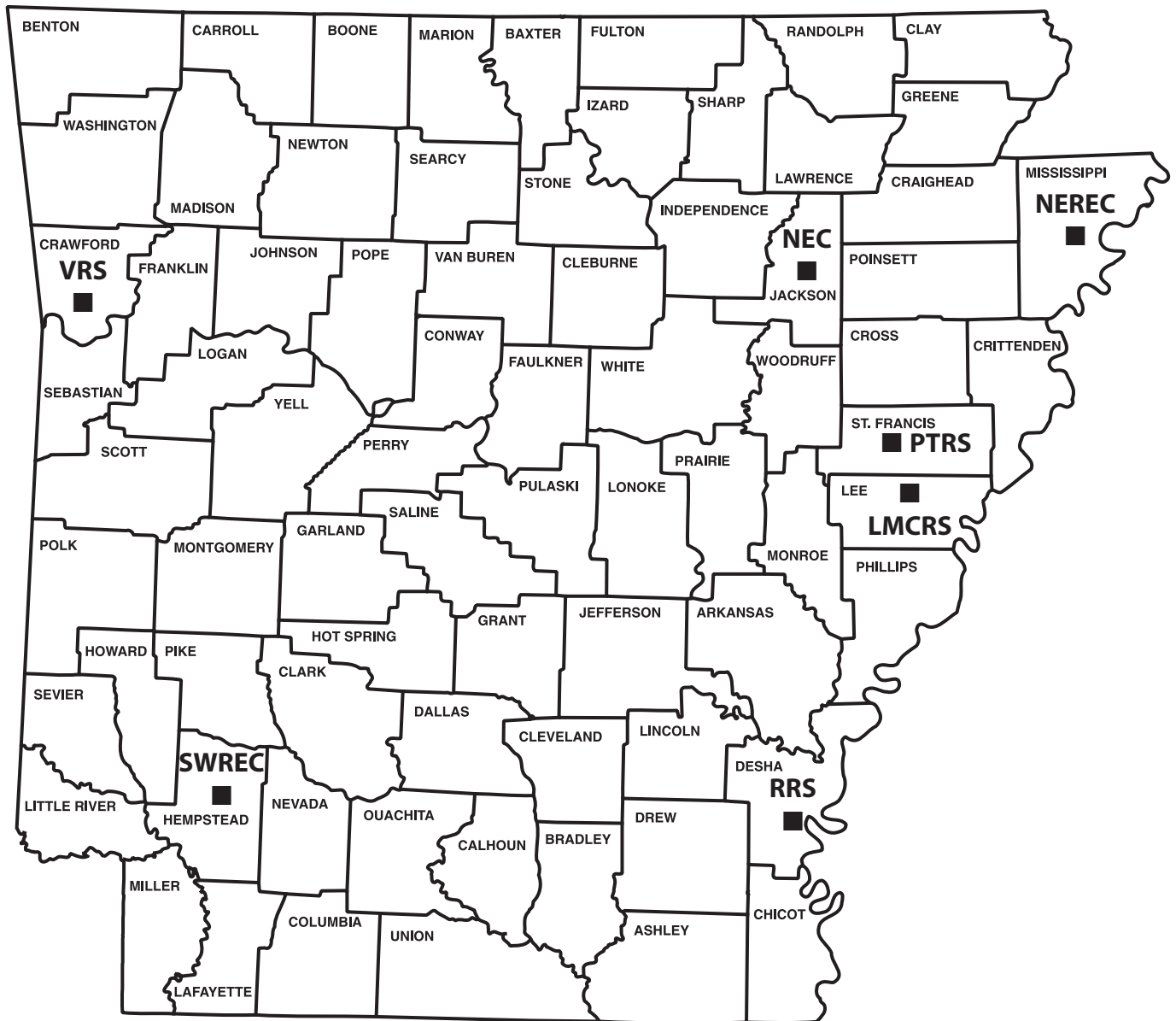
Weather Summary

Overall planting conditions were favorable for plot establishment. Total rainfall was above average for the winter and below average for the spring. Freezing temperatures (28–32 °C) in early to mid-April significantly affected grain yield in most locations, particularly for early lines. The most significant visual effects of freeze were observed in Marianna.

Results

Variety testing plots were established in 7 Arkansas locations, including Hope, Keiser, Kibler, Marianna, Newport, Pine Tree and Rohwer. Yields and test weights were generally below average across locations, due to excessive late winter rainfall, a late spring freeze and a shortened growing season resulting from high May temperatures. The highest average grain yield was observed in Newport (71.5 bu/ac) and the lowest in Keiser (47.9 bu/ac). There were very low levels of stripe rust and leaf rust observed across locations. Data from Pine Tree were not reported due to excessive wildlife feeding on awnless varieties. Data from Rohwer were not reported due to significant herbicide damage. Disease and damage ratings were taken by Esten Mason, David Moon and Randy Miller.

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

Table 1. Summary of statewide and Delta wheat yields and test weights in Arkansas.

Entry Name	Statewide					Delta					
	Yield				Test Weight	Yield				Test Weight	
	2-Year	3-Year	2018	2018	2018	2-Year	3-Year	2018	2018	2018	
	Average	Average	Average	Rank	Average	Average	Average	Average	Rank	Average	
------(bu/ac)-----					(lb/bu)	------(bu/ac)-----					(lb/bu)
AgriMAXX 415	71.6	70.4	64.7	50	57.3	70.5	70.1	61.7	47	57.6	
AgriMAXX 446	70.7	69.7	73.1	6	55.8	66.3	67.3	63.9	35	55.3	
AgriMAXX 463	57.5	61.4	51.2	85	52.9	58.8	62.7	52.1	80	52.5	
AgriMAXX 473	78.4	78.0	75.6	2	55.6	75.8	77.4	69.5	9	55.8	
AgriMAXX 475	70.2	71.0	65.4	46	56.0	66.7	69.4	58.0	58	55.9	
AgriMAXX 474	71.4	71.7	68.4	34	53.8	70.4	71.9	67.3	14	53.4	
AgriMAXX Exp 1884			75.1	3	53.5			72.7	2	53.3	
Armor MAYHEM	77.1	77.4	73.3	5	55.8	74.9	77.0	70.0	6	56.2	
Armor LOCKDOWN	70.6		54.0	78	58.3	71.5		50.7	85	58.4	
Armor ARW1719			73.0	7	53.5			70.7	5	53.6	
Armor ARW1766			64.6	51	56.0			57.4	60	56.4	
Armor ARW1729			71.2	19	54.7			66.5	19	55.2	
Armor ARW1726			71.6	16	56.1			67.3	15	56.4	
Armor ARW1727			68.7	31	54.9			61.0	49	54.6	
Armor ARW1718			66.4	43	55.7			64.5	33	55.7	
Dixie Bell 700			66.7	41	55.4			62.9	39	55.1	
Dixie McAlister	70.4	70.2	62.9	57	54.8	68.0	69.1	57.0	62	54.8	
Dixie Bentley	69.1	70.5	54.0	79	58.5	71.3	73.0	52.3	79	58.8	
Dixie Brown	78.3	77.5	74.5	4	55.7	76.4	77.1	68.4	12	56.4	
Dixie Jones	69.6	69.0	68.8	30	56.2	66.1	66.8	62.4	41	56.4	
DXEX 18-1			68.5	33	54.4			70.9	3	54.0	
DXEX 18-2			72.6	10	55.8			65.4	26	55.7	
Delta Grow 1000	75.3	75.8	72.6	9	54.9	73.1	75.4	65.6	24	55.4	
Delta Grow 3500	64.7	66.1	56.2	72	57.8	67.0	68.8	54.4	72	58.0	
Pioneer 26R10	68.2	66.9	71.2	20	54.3	63.6	63.8	65.6	23	53.7	
Pioneer 26R36	75.8	74.4	66.8	39	56.0	73.3	73.2	59.6	51	56.3	
Pioneer 26R41	78.1	77.9	71.5	17	56.2	76.9	77.9	66.7	18	56.5	
Pioneer 26R45	75.1		71.8	15	50.2	73.9		70.8	4	50.6	
Pioneer 26R59	76.5	75.0	76.6	1	53.9	74.2	73.4	73.9	1	54.2	
Dyna-Gro WX17775			70.7	22	53.0			69.0	10	53.0	
Dyna-Gro 9750	60.3		52.8	80	53.1	62.4		54.2	73	52.7	
Dyna-Gro 9701	75.5	76.2	69.3	26	55.2	74.7	76.8	65.0	30	55.7	
Dyna-Gro 9862			72.4	12	54.9			69.8	7	54.6	
Dyna-Gro 9811	74.8		63.9	53	56.0	75.7		61.6	48	56.0	
Dyna-Gro 9012	72.7	72.0	69.8	23	57.4	72.0	72.6	69.0	11	58.0	
Dyna-Gro 9171	73.7	73.3	66.5	42	54.1	70.6	71.7	59.3	53	54.6	
L11719			69.3	27	55.4			65.5	25	55.5	

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

Entry Name	Statewide					Delta					
	Yield				Test Weight	Yield				Test Weight	
	2-Year	3-Year	2018	2018	2018	2-Year	3-Year	2018	2018	2018	
	Average	Average	Average	Rank	Average	Average	Average	Rank	Average		
------(bu/ac)-----					(lb/bu)	------(bu/ac)-----					(lb/bu)
L11538	73.2		64.9	48	55.8	74.2		63.8	37	55.5	
LCS Ammo			60.6	62	55.7			58.9	55	56.0	
L11713			56.7	70	57.9			53.0	78	58.2	
LA08080C-31-1			57.3	68	56.1			54.8	70	55.8	
LA09225C-33-3	69.5		66.8	38	56.6	70.4		65.2	28	57.5	
NC14-23372			57.3	69	58.4			53.6	74	59.1	
NC13-21213			60.0	63	57.7			61.8	45	58.3	
NC13-20076			47.7	91	58.4			48.9	90	58.7	
OCW03S580S-8WF			64.7	49	54.9			56.6	64	55.2	
OCW04S405S-11F			65.5	45	55.1			58.0	59	54.6	
Progeny #Boss	74.5		65.1	47	54.5	73.0		59.7	50	55.0	
Progeny #Bullet	74.7	75.1	67.7	37	55.4	73.6	76.1	65.2	29	55.7	
Progeny #Turbo	65.6	66.4	54.1	77	55.0	68.0	68.5	58.8	56	55.5	
Progeny #Warrior	71.2	68.3	71.0	21	53.8	69.3	68.0	69.7	8	53.3	
Progeny #Fury	67.0		59.7	64	55.0	70.3		61.8	46	54.5	
Progeny #Blaze	67.2		69.5	24	52.1	63.0		64.6	32	51.1	
PGX16-4	61.6		55.9	75	56.3	65.2		63.3	38	56.8	
PGX16-7			51.2	86	56.2			50.1	86	56.8	
PGX17-16			72.3	13	56.0			66.7	16	55.7	
PGX17-20			68.9	28	55.1			62.3	43	54.6	
PGX17-28			54.1	76	55.4			55.7	68	54.7	
AGS 2055	75.5	76.5	66.7	40	55.4	76.5	77.6	64.1	34	55.5	
AGS 2038	70.2	70.5	63.3	55	56.7	69.9	71.8	59.5	52	56.9	
AGS 2024			62.1	59	56.0			56.7	63	56.0	
Go Wheat LA754			46.0	93	54.8			48.0	91	53.7	
Go Wheat 2058	73.8	72.7	68.8	29	56.3	73.5	74.1	65.4	27	57.1	
Go Wheat 2059	58.4	61.0	51.0	87	52.8	58.6	61.1	49.5	88	51.8	
SY Viper	64.0	64.7	66.4	44	56.5	59.8	61.8	64.7	31	56.0	
SY Miskin			59.2	65	56.1			56.0	67	56.0	
SY 547	64.0		64.0	52	55.2	64.3		66.2	20	55.8	
SY Collins			56.0	73	58.0			50.8	84	58.1	
Hilliard	72.6	73.1	68.3	35	56.5	70.7	72.8	63.8	36	56.7	
USG 3404	70.2	68.8	68.1	36	54.9	67.5	67.3	62.4	42	54.9	
USG 3536	78.1	78.2	72.6	8	55.8	75.8	78.1	66.7	17	56.2	
USG3895	78.7		72.2	14	55.7	75.0		62.5	40	55.8	
USG 3448	70.8		68.6	32	55.6	69.0		65.7	22	56.4	
USG 3118			58.6	66	55.6			51.9	81	54.8	
USG 3329			69.5	25	52.5			62.2	44	51.1	

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

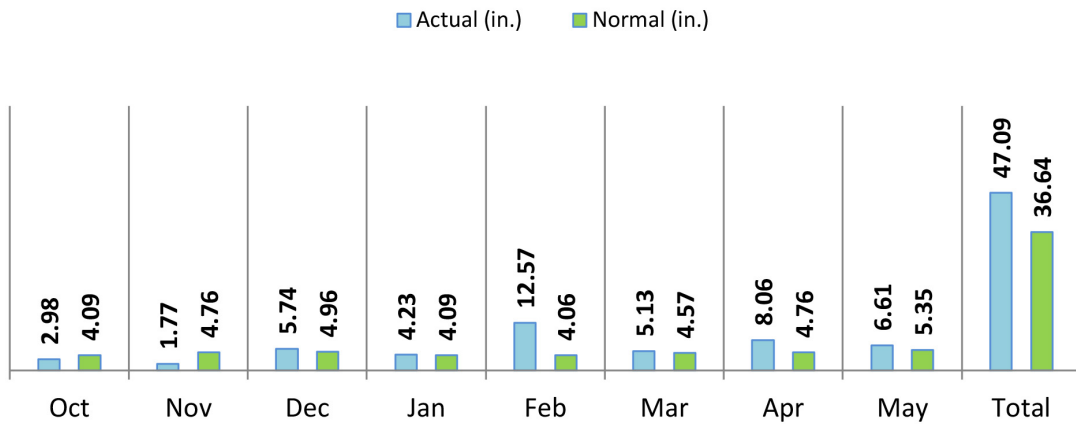
Entry Name	Statewide					Delta				
	Yield				Test Weight	Yield				Test Weight
	2-Year	3-Year	2018	2018	2018	2-Year	3-Year	2018	2018	2018
	Average	Average	Average	Rank	Average	Average	Average	Rank	Average	
----- (bu/ac) -----				(lb/bu)	----- (bu/ac) -----				(lb/bu)	
ARW1790			50.8	88	56.1			53.4	75	56.3
AR06037-17-2	75.9	74.9	71.4	18	55.1	75.1	74.9	67.5	13	55.6
AR06146E-1-4	73.3		63.3	56	57.1	72.2		56.6	65	57.5
AR07084C-10-1	68.4		58.3	67	55.0	68.2		54.6	71	55.0
AR071333C-19-4	73.7		61.4	60	55.1	74.3		55.5	69	55.4
AR07133C-3-4			52.6	81	56.2			49.8	87	56.1
AR09137UC-17-2			62.1	58	55.4			58.5	57	55.0
AR09179UC-1-1			52.5	82	57.8			49.4	89	57.7
AR09179UC-9-3			63.4	54	58.4			56.4	66	58.1
AR08005D-11-4			56.6	71	57.8			57.2	61	58.3
GW EXP14E19			49.9	90	56.6			47.2	92	55.7
AGS EXP14E53			56.0	74	55.0			58.9	54	55.0
FLLA10033C-6			52.4	83	54.4			51.8	82	54.9
FLLA10191C-13			38.3	95	57.8			40.1	95	59.1
FLLA10204C-4			46.2	92	56.2			53.2	76	56.9
GA061471-15LE38			51.8	84	56.9			51.5	83	57.1
GA08535-15LEL29			50.1	89	56.9			47.2	93	57.7
GA081113-15EL8			44.6	94	56.3			45.4	94	55.9
CROPLAN SRW 9606			61.3	61	53.9			53.1	77	53.6
CROPLAN SRW 8550			72.4	11	55.8			66.2	21	56.0
Mean	71.2	71.7	62.6		55.4	70.2	71.5	59.7		55.4
LSD (5%)			10.6		1.8			14.9		2.9
C.V. (%)			6.2		1			9.1		2
No. locations	11	15	5		5	8	11	3		3

Keiser: Northeast Research and Extension Center (NEREC)

Standard Input Test Summary



2017-2018 KEISER MONTHLY PRECIPITATION



Soil Series:	Sharkey silty clay	Fertilizer	90 lb N/ac + 24 lb S/ac	March 8, 2018
Previous Crop:	Fallow	Application(s):	60 lb N/ac	
Planting Date:	Oct. 18, 2018	Herbicide	2 oz/ac Zidua	Nov. 14, 2017
Harvest Date(s):	June 11, 2018	Application(s):	2.1 pt./ac Prowl H ₂ O	Nov. 14, 2017
		Fungicide	None	July 14
		Application(s):		August 2

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

Entry Name	Multi-Year		2017-2018 Data			
	2-Year Average Yield	3-Year Average Yield	Yield	Rank	Test Weight	Plant Height
	----- (bu/ac) -----		(bu/ac)		(lb/bu)	(in.)
L11538	65.4		56.9	7	53.3	33
Go Wheat 2058	65.0	60.5	59.7	3	57.0	28
Progeny #Warrior	64.2		56.3	10	50.9	30
AGS 2055	63.8	63.2	53.7	23	56.3	31
Progeny #Bullet	63.4		53.3	25	55.6	33
Pioneer 26R41	63.3	64.7	54.6	16	56.0	30
Delta Grow 1000	63.0	61.8	54.3	20	54.8	32
Dyna-Gro 9012	62.9	57.1	60.2	1	58.5	30
Pioneer 26R45	62.7		56.1	13	49.5	33
AgriMAXX 473	62.6		56.0	14	56.0	33
Dixie Brown	62.4		50.8	37	56.1	32
Dyna-Gro 9811	62.2		56.7	8	56.7	30
Hilliard	62.1	60.4	54.7	15	56.5	31
USG3895	60.9		54.0	21	56.7	29
Armor MAYHEM	60.3		49.5	48	55.9	32
Pioneer 26R59	59.6	54.2	54.5	17	50.9	28
Dyna-Gro 9171	59.5	55.6	51.4	36	53.3	30
AgriMAXX 474	59.4		52.0	32	50.5	28
USG 3536	59.3		47.1	54	56.0	33
Dyna-Gro 9701	59.2		46.5	58	55.5	31
AgriMAXX 415	59.1	60.4	52.5	28	57.9	30
Progeny #Boss	57.6		51.8	34	54.1	27
Dixie Bentley	57.0		43.2	72	58.6	33
PGX16-4	56.9		49.3	49	55.7	30
SY Viper	56.8	54.2	50.6	43	55.2	33
USG 3448	56.8		53.2	26	56.0	30
AR06037-17-2	56.5		48.1	52	53.2	29
LA09225C-33-3	56.5		50.8	39	57.9	34
Armor LOCKDOWN	55.8		42.0	78	58.2	33
AR06146E-1-4	55.6		41.4	79	55.3	34
Progeny #Turbo	55.5		39.3	85	52.8	25
Pioneer 26R36	54.5	59.2	38.6	86	56.5	30
Dixie McAlister	54.4	56.7	46.0	63	52.9	28
Progeny #Fury	53.2		42.6	75	51.2	28
AR071333C-19-4	53.1		34.4	93	54.4	30
AgriMAXX 446	53.0	53.0	50.6	42	54.6	30
Progeny #Blaze	52.6		48.8	51	48.7	32
AgriMAXX 475	52.5		42.3	77	56.2	28
USG 3404	51.9	49.1	46.3	60	54.5	31

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

Entry Name	Multi-Year		2017-2018 Data			
	2-Year Average Yield	3-Year Average Yield	Yield	Rank	Test Weight	Plant Height
	----- (bu/ac) -----		(bu/ac)		(lb/bu)	(in.)
Dixie Jones	51.0		45.7	64	56.5	28
Pioneer 26R10	50.7	49.5	53.6	24	52.8	30
Dyna-Gro 9750	50.0		42.6	76	51.0	29
SY 547	49.5		53.9	22	54.7	33
Delta Grow 3500	49.3	46.6	46.9	57	55.8	26
Go Wheat 2059	49.0		44.2	69	50.8	27
AGS 2038	47.8	50.3	34.7	92	56.6	34
AR07084C-10-1	45.7		30.2	94	54.9	31
AgriMAXX 463	45.4		39.6	84	52.4	28
AgriMAXX Exp 1884			57.8	5	52.5	31
Armor ARW1719			57.2	6	51.8	31
Armor ARW1766			42.7	74	54.2	29
Armor ARW1729			50.6	41	55.4	31
Armor ARW1726			52.5	30	55.9	32
Armor ARW1727			51.9	33	54.1	30
Armor ARW1718			56.3	11	53.5	31
Dixie Bell 700			58.9	4	53.2	34
DXEX 18-1			56.5	9	52.3	31
DXEX 18-2			50.3	44	56.0	30
Dyna-Gro WX17775			50.2	45	51.2	31
Dyna-Gro 9862			51.4	35	52.2	29
L11719			52.5	29	54.6	28
LCS Ammo			50.7	40	55.4	26
L11713			49.7	47	57.4	29
LA08080C-31-1			40.9	82	56.1	29
NC14-23372			49.2	50	59.9	31
NC13-21213			48.0	53	56.9	30
NC13-20076			46.9	55	59.6	34
OCW03S580S-8WF			43.0	73	58.7	31
OCW04S405S-11F			45.0	68	55.9	33
PGX16-7			46.9	56	57.1	30
PGX17-16			56.2	12	55.7	33
PGX17-20			50.8	38	54.8	31
PGX17-28			54.3	18	54.8	31
AGS 2024			46.2	62	55.4	29
Go Wheat LA754			50.2	46	57.7	31
SY Miskin			52.9	27	54.8	32
SY Collins			37.9	87	56.2	31

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

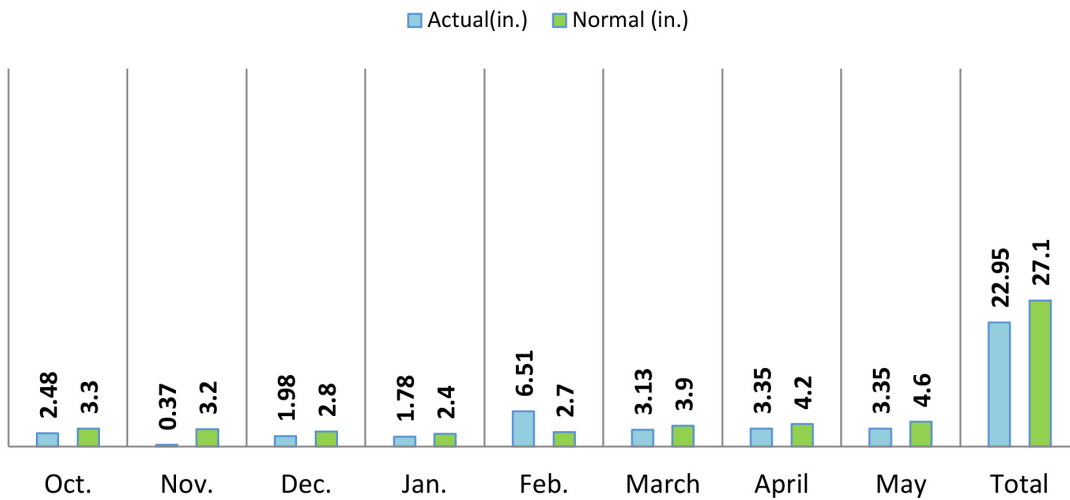
Entry Name	Multi-Year		2017-2018 Data			
	2-Year Average Yield	3-Year Average Yield	Yield	Rank	Test Weight	Plant Height
	------(bu/ac)-----		(bu/ac)		(lb/bu)	(in.)
USG 3118			52.4	31	55.0	29
USG 3329			46.2	61	49.1	31
ARW1790			37.9	88	54.6	28
AR07133C-3-4			46.3	59	56.1	33
AR09137UC-17-2			36.8	90	53.5	31
AR09179UC-1-1			45.6	67	58.6	31
AR09179UC-9-3			45.7	65	57.0	31
AR08005D-11-4			43.7	71	57.5	27
GW EXP14E19			44.1	70	58.8	30
AGS EXP14E53			60.2	2	54.1	32
FLLA10033C-6			37.2	89	53.8	31
FLLA10191C-13			41.2	81	59.9	27
FLLA10204C-4			45.7	66	55.4	30
GA061471-15LE38			40.7	83	55.7	33
GA08535-15LEL29			25.7	95	56.3	28
GA081113-15EL8			41.3	80	58.2	29
CROPLAN SRW 9606			34.9	91	53.2	30
CROPLAN SRW 8550			54.3	19	55.5	32
Mean	56.9	56.3	47.9		55.1	30
LSD (5%)			8.0		1.9	3
C.V. (%)			6.0		1.3	3.5

Kibler: Vegetable Research Station (VRS)

Standard Input Test Summary



2017-2018 KIBLER MONTHLY PRECIPITATION



Soil Series: Roxanna silt loam

Previous Crop: Fallow

Planting Date: Oct. 30, 2017

Harvest Date(s): June 12, 2018

Fertilizer Application(s): 89 lb N/ac + 100 lb S/ac March 8, 2018

Herbicide Application(s): None

Fungicide Application(s): None

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

Entry Name	Multi-Year		2017-2018 Data							
	2-Year	3-Year	Yield	Rank	Test Weight	Head Date	Freeze Damage	Plant Height	Lodging at Maturity	Stripe Rust Severity
	Average Yield	Average Yield								
	-----	(bu/ac)	(bu/ac)		(lb/bu)		(0-9)	(in.)	(0-9)	(%)
USG3895	89.9		87.2	4	54.8	4/27	0	34	0	0
Dyna-Gro 9171	87.8	80.2	84.3	9	53.9	4/26	0	34	0	0
Pioneer 26R36	87.3	78.9	82.2	13	54.6	4/28	0	35	0	1
Armor MAYHEM	86.8	79.4	81.5	16	55.1	4/27	0	37	0	0
AgriMAXX 473	86.1	78.7	86.5	5	55.9	4/27	0	36	1	0
Pioneer 26R59	85.9	80.3	86.0	6	53.6	4/26	1	33	0	0
USG 3536	84.7	76.9	78.9	20	54.7	4/27	0	36	0	0
AgriMAXX 446	84.6	75.6	95.4	1	56.0	4/29	0	36	1	6
Pioneer 26R41	83.9	78.8	82.2	14	55.3	4/26	0	35	2	0
Progeny #Bullet	83.4	74.4	77.5	25	54.2	4/25	0	36	2	1
Pioneer 26R45	82.8		77.8	24	51.8	4/27	0	35	0	0
Progeny #Boss	82.5		75.7	33	53.9	4/26	0	32	0	1
Dixie Brown	82.3	76.2	81.9	15	54.5	4/25	0	36	0	0
Dixie McAlister	82.1	75.6	78.1	23	54.1	4/24	0	34	0	0
AR06037-17-2	81.0	75.4	82.7	12	54.6	4/26	0	32	1	1
AgriMAXX 475	80.8	74.9	75.3	34	56.1	4/23	1	34	0	1
Pioneer 26R10	80.7	73.7	78.5	21	54.9	4/28	0	35	0	1
Delta Grow 1000	80.6	74.9	83.6	11	54.1	4/27	0	36	2	1
Dyna-Gro 9701	80.3	75.4	80.1	19	53.4	4/27	0	36	3	0
SY Viper	79.6	74.5	71.3	41	57.4	4/23	2	39	0	0
Progeny #Blaze	79.5		77.4	27	51.5	4/26	2	35	2	1
Hilliard	78.9	73.6	74.7	35	55.2	4/25	2	39	1	1
Dixie Jones	78.7	73.7	77.5	26	55.7	4/26	0	34	2	6
AgriMAXX 415	78.3	72.2	70.4	45	56.0	4/26	1	35	0	0
Dyna-Gro 9012	77.8	70.9	74.5	36	56.0	4/28	0	34	0	0
USG 3404	76.3	70.7	73.6	37	53.1	4/29	0	35	0	1
AgriMAXX 474	76.2	71.7	69.5	48	54.2	4/23	0	32	0	1
Progeny #Warrior	75.7	66.9	69.0	50	54.1	4/25	1	32	0	2
AR06146E-1-4	75.3		67.5	56	56.4	4/23	0	40	0	0
USG 3448	75.1		68.4	51	55.3	4/24	2	33	1	0
Armor LOCKDOWN	73.3		59.9	67	58.0	4/24	1	42	1	0
Go Wheat 2058	73.1	65.7	70.6	44	53.5	4/26	1	31	0	4
Dyna-Gro 9811	72.7		63.3	60	54.9	4/25	1	38	1	0
AGS 2055	72.6	73.4	68.2	54	55.0	4/26	0	38	0	2
L11538	71.7		64.5	58	55.0	4/27	2	39	0	0
AR071333C-19-4	70.7		65.6	57	56.1	4/23	1	36	2	4
Dixie Bentley	68.1	66.9	59.6	70	58.9	4/24	2	42	2	0
AR07084C-10-1	68.0		56.7	77	54.1	4/23	2	38	0	0
AGS 2038	67.6	63.2	58.8	73	56.1	4/26	3	40	2	4

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

Entry Name	Multi-Year		2017-2018 Data							
	2-Year	3-Year	Yield	Rank	Test Weight	Head Date	Freeze Damage	Plant Height	Lodging at Maturity	Stripe Rust Severity
	Average Yield	Average Yield								
	-----	(bu/ac)	(bu/ac)		(lb/bu)		(0-9)	(in.)	(0-9)	(%)
Progeny #Turbo	64.8	64.9	46.2	86	54.8	4/23	5	36	0	1
SY 547	63.7		59.5	71	54.4	4/24	1	37	2	42
Go Wheat 2059	63.5	64.9	59.7	69	53.4	4/24	1	34	1	6
Dyna-Gro 9750	62.9		63.8	59	53.4	4/24	2	35	0	6
AgriMAXX 463	60.9	63.7	60.4	65	53.5	4/23	2	34	0	4
LA09225C-33-3	60.8		58.7	74	55.4	4/30	0	34	0	0
Progeny #Fury	58.2		54.8	78	54.4	4/23	4	29	1	25
PGX16-4	57.1		48.0	84	55.3	4/24	4	37	2	6
Delta Grow 3500	52.0	54.4	45.4	87	57.2	4/23	4	34	2	25
AgriMAXX Exp 1884			78.3	22	53.2	4/28	0	34	0	1
Armor ARW1719			76.9	30	53.0	4/28	0	33	0	0
Armor ARW1766			77.2	29	55.7	4/24	0	35	0	4
Armor ARW1729			71.5	40	53.1	4/29	0	33	2	2
Armor ARW1726			80.6	17	54.9	4/29	0	37	1	1
Armor ARW1727			80.6	18	55.6	4/28	0	35	0	1
Armor ARW1718			71.3	42	54.9	4/26	3	40	0	1
Dixie Bell 700			69.9	46	55.1	4/26	2	40	0	1
DXEX 18-1			76.8	31	53.9	4/29	0	33	1	0
DXEX 18-2			89.6	2	55.6	4/28	0	37	0	2
Dyna-Gro WX17775			68.3	53	52.5	4/29	0	33	0	1
Dyna-Gro 9862			83.9	10	55.1	4/30	2	34	0	0
L11719			70.9	43	54.4	4/30	1	33	0	0
LCS Ammo			62.1	62	54.5	4/25	3	34	1	0
L11713			60.4	66	57.6	4/22	3	35	0	0
LA08080C-31-1			57.8	75	55.9	4/25	1	34	2	0
NC14-23372			61.4	64	57.0	4/27	0	37	1	17
NC13-21213			61.8	63	56.3	4/27	2	37	0	0
NC13-20076			44.2	88	57.3	4/24	4	39	0	1
OCW03S580S-8WF			71.9	39	52.8	4/24	0	35	2	4
OCW04S405S-11F			68.4	52	55.6	4/26	0	37	0	0
PGX16-7			37.9	93	55.3	4/24	4	36	0	0
PGX17-16			87.9	3	55.9	4/28	0	37	0	0
PGX17-20			85.8	7	56.4	4/26	0	37	0	0
PGX17-28			40.5	91	55.6	4/25	5	37	0	0
AGS 2024			72.9	38	54.5	4/28	1	34	0	13
Go Wheat LA754			40.8	90	55.8	4/20	6	39	2	40
SY Miskin			59.1	72	54.8	4/24	4	37	0	6
SY Collins			69.8	47	58.4	4/23	0	39	0	0

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

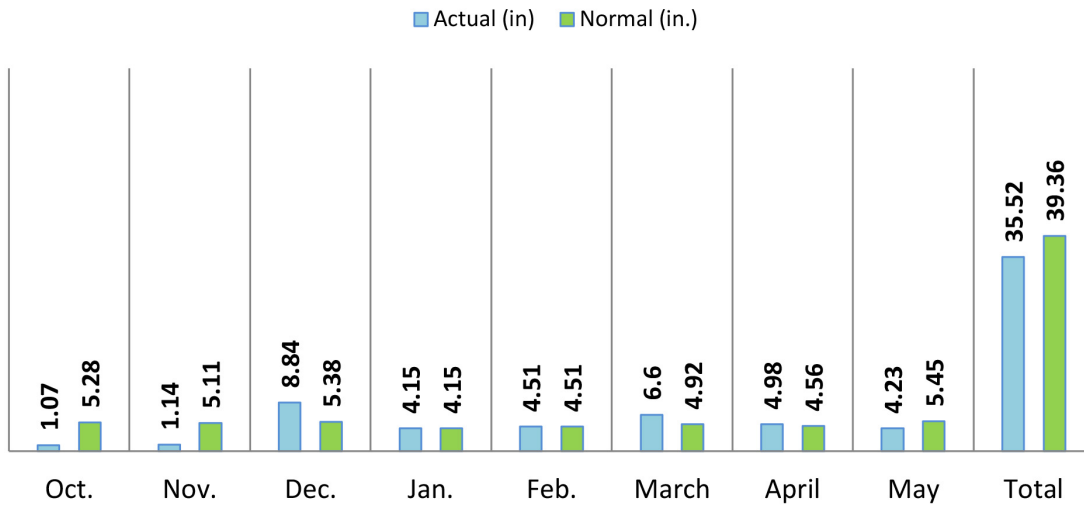
Entry Name	Multi-Year		2017-2018 Data							
	2-Year Average Yield	3-Year Average Yield	Yield (bu/ac)	Rank	Test Weight (lb/bu)	Head Date	Freeze Damage (0-9)	Plant Height (in.)	Lodging at Maturity (0-9)	Stripe Rust Severity (%)
	-----	-----								
USG 3118			69.4	49	57.3	4/23	2	34	0	19
USG 3329			77.4	28	52.5	4/26	0	36	0	0
ARW1790			38.0	92	54.5	4/23	5	34	0	0
AR07133C-3-4			49.4	80	56.4	4/24	4	40	0	1
AR09137UC-17-2			63.2	61	55.6	4/24	1	39	1	0
AR09179UC-1-1			57.0	76	57.0	4/23	2	36	0	1
AR09179UC-9-3			75.8	32	57.5	4/23	1	36	0	0
AR08005D-11-4			59.8	68	56.7	4/23	3	36	3	8
GW EXP14E19			46.5	85	57.0	4/23	4	34	0	22
AGS EXP14E53			48.5	82	54.2	4/23	4	36	1	38
FLLA10033C-6			51.3	79	50.4	4/26	1	37	2	7
FLLA10191C-13			25.4	95	56.3	4/24	8	38	0	6
FLLA10204C-4			48.7	81	56.0	4/23	2	37	0	2
GA061471-15LE38			48.1	83	55.9	4/25	3	35	2	20
GA08535-15LEL29			43.6	89	54.3	4/25	2	35	1	26
GA081113-15EL8			30.7	94	56.3	4/24	7	36	0	13
CROPLAN SRW 9606			68.0	55	53.9	4/26	1	35	3	0
CROPLAN SRW 8550			85.4	8	54.7	4/27	0	36	2	2
Mean	75.6	72.5	66.6		54.9	4/25	1	35	1	4
LSD (5%)			10.7		1.9	3	2	3	2	15
C.V. (%)			5.8		1.3	4.5	53	3.0	146.3	133.3

Hope: Southwest Research and Extension Center (SWREC)

Standard Input Test Summary



2017-2018 HOPE MONTHLY PRECIPITATION



Soil Series: Clay loam
Previous Crop: Fallow
Planting Date(s): Oct. 26, 2017
 Oct. 27, 2017
Harvest Date(s): June 11, 2018
 June 12, 2018

Fertilizer Application(s): 67 lb N/ac March 6, 2018
 83 lb N/ac March 19, 2018
Herbicide Application(s): 1 qt/ac 2,4-D March 8, 2018
 4.75 oz/ac Osprey March 8, 2018
Fungicide Application(s): None

Table 4. Performance of wheat cultivars in the standard input test, Hope.

Entry Name	2017-2018 Data	
	Yield (bu/ac)	Test Weight (lb/bu)
USG3895	86.3	56.2
Dixie Brown	85.2	54.8
OCW04S405S-11F	84.8	56.3
Armor ARW1729	84.7	54.7
USG 3536	83.7	55.8
AgriMAXX 473	83.1	54.9
USG 3329	83.0	56.7
Delta Grow 1000	82.4	54.2
OCW03S580S-8WF	81.3	56.3
Pioneer 26R10	80.4	55.6
Armor ARW1727	79.9	55.2
USG 3404	79.6	56.6
LA09225C-33-3	79.2	54.9
AgriMAXX Exp 1884	79.0	54.5
Dixie Jones	78.9	56.1
L11719	78.8	56.0
AgriMAXX 446	78.8	57.1
AR06146E-1-4	78.7	56.8
AGS 2038	78.6	56.7
CROPLAN SRW 9606	78.5	54.6
CROPLAN SRW 8550	78.4	56.2
Dyna-Gro WX17775	78.0	53.3
Go Wheat 2058	77.6	56.7
USG 3448	77.5	53.5
AgriMAXX 475	77.4	56.0
DXEX 18-2	77.4	56.2
Progeny #Warrior	76.6	55.0
Progeny #Blaze	76.3	55.5
Pioneer 26R59	75.8	53.2
Armor ARW1719	75.7	54.0
Armor ARW1726	75.6	56.4
Pioneer 26R41	75.4	56.3
Hilliard	75.3	57.5
Armor MAYHEM	75.3	55.3
Dixie Bell 700	75.0	56.8
AR071333C-19-4	74.7	53.4
PGX17-16	73.7	57.2
Armor ARW1766	73.7	55.0

Table 4. Performance of wheat cultivars in the standard input test, Hope, Continued.

Entry Name	2017-2018 Data	
	Yield (bu/ac)	Test Weight (lb/bu)
Pioneer 26R36	73.0	56.7
AGS 2055	73.0	55.8
PGX17-20	72.2	55.3
AR06037-17-2	72.2	54.2
AR09179UC-9-3	72.0	60.1
Delta Grow 3500	71.8	58.0
Dyna-Gro 9701	71.8	55.6
AR09137UC-17-2	71.7	56.3
Dyna-Gro 9811	71.4	57.1
Dyna-Gro 9171	70.7	52.8
Progeny #Boss	70.5	53.8
AR07084C-10-1	70.5	55.7
AgriMAXX 474	70.4	54.5
Dyna-Gro 9862	69.2	55.6
SY Miskin	69.1	57.6
Pioneer 26R45	68.9	47.5
L11538	68.4	57.4
USG 3118	68.0	56.0
AgriMAXX 415	67.9	57.5
Dyna-Gro 9012	67.7	56.7
AGS 2024	67.6	57.5
PGX16-7	67.6	55.0
Armor ARW1718	67.4	56.4
SY Viper	66.5	57.1
Progeny #Bullet	66.0	55.7
Dixie McAlister	65.8	55.8
GA08535-15LEL29	64.8	57.8
LCS Ammo	64.5	55.8
LA08080C-31-1	64.4	57.2
NC14-23372	64.4	57.7
L11713	64.1	57.5
AR07133C-3-4	63.8	56.5
PGX17-28	62.6	57.3
SY 547	62.1	54.3
GW EXP14E19	61.8	58.9
SY Collins	58.3	57.5
Armor LOCKDOWN	58.1	58.1
Progeny #Fury	58.1	57.0

Table 4. Performance of wheat cultivars in the standard input test, Hope, Continued.

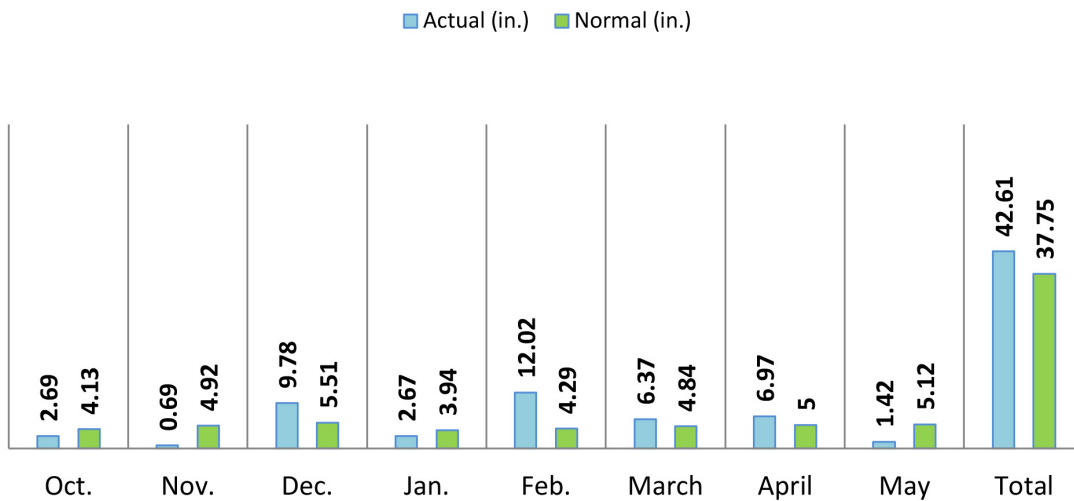
Entry Name	2017-2018 Data	
	Yield (bu/ac)	Test Weight (lb/bu)
AR09179UC-1-1	57.5	59.1
GA061471-15LE38	56.4	57.3
GA081113-15EL8	56.0	57.6
ARW1790	55.6	57.1
FLLA10033C-6	55.5	57.0
AGS EXP14E53	54.7	55.7
Dixie Bentley	53.6	57.2
DXEX 18-1	53.6	56.3
NC13-21213	53.3	57.4
AR08005D-11-4	52.0	57.6
Progeny #Turbo	48.0	54.0
NC13-20076	47.8	58.9
Go Wheat 2059	47.3	55.1
FLLA10191C-13	45.5	55.4
Go Wheat LA754	45.5	56.5
PGX16-4	41.7	56.0
AgriMAXX 463	40.2	53.6
Dyna-Gro 9750	38.4	54.1
FLLA10204C-4	23.6	54.0
Mean	67.6	55.9
LSD (5%)	10.7	2.6
C.V. (%)	5.7	1.7

Marianna: Lon Mann Cotton Research Station (LMCRS)

Standard Input Test Summary



2017-2018 MARIANNA MONTHLY PRECIPITATION



Soil Series: Loring silt loam

Previous Crop: Soybean

Planting Date: Oct. 16, 2017

Harvest Date(s): June 4, 2018
June 5, 2018

Fertilizer Application(s): 90 lb N/ac + 24 lb S/ac Feb. 27, 2018
60 lb N/ac March 16, 2018

Herbicide Application(s): 2.1 pt/ac Prowl H₂O Nov. 9, 2017
2 oz/ac Zidua Nov. 9, 2017

Fungicide Application(s): none

Table 5. Performance of wheat cultivars in the standard input test, Marianna.

Entry Name	Multi-Year		2017-2018 Data							
	2-Year Average Yield	3-Year Average Yield	Yield	Rank	Test Weight	Head Date	Maturity Date	Plant Height	Leaf Blotch	Freeze Damage
	----- (bu/ac) -----		(bu/ac)		(lb/bu)			(in.)	(0-9)	(0-9)
Pioneer 26R45	81.5		86.0	1	56.4	4/16	5/14	37	2	1
Armor MAYHEM	77.6	82.1	73.1	25	57.8	4/17	5/15	35	1	3
Pioneer 26R41	77.3	79.9	70.3	31	61.0	4/16	5/16	35	3	4
Pioneer 26R36	77.0	77.0	76.9	11	59.2	4/16	5/17	37	4	2
AR06037-17-2	77.0	77.6	78.5	8	60.4	4/15	5/16	31	4	1
AgriMAXX 473	77.0	79.3	74.5	15	58.8	4/16	5/16	27	2	3
USG 3536	77.0	81.8	73.8	20	59.1	4/16	5/15	37	3	4
AGS 2055	76.9	80.2	67.7	40	58.9	4/14	5/16	36	5	2
Delta Grow 1000	76.8	79.2	69.3	35	59.2	4/16	5/15	36	2	3
Dyna-Gro 9701	76.4	80.1	72.0	27	59.3	4/16	5/15	38	2	3
Dixie Brown	76.0	79.9	68.9	37	59.3	4/16	5/15	36	2	4
LA09225C-33-3	75.9		74.4	16	60.2	4/16	5/18	37	2	3
SY Viper	75.7	77.1	74.3	17	59.7	4/11	5/14	38	3	2
AGS 2038	75.5	78.2	68.5	38	61.6	4/16	5/18	44	2	2
Progeny #Bullet	75.4	78.4	69.1	36	59.1	4/15	5/14	37	1	4
AR07084C-10-1	73.8		64.5	48	59.3	4/10	5/16	38	3	3
Progeny #Fury	72.5		72.0	28	60.5	4/12	5/14	34	4	1
Go Wheat 2058	72.0	75.2	60.2	56	59.6	4/15	5/16	31	6	2
USG3895	71.9		65.5	45	58.4	4/16	5/16	30	4	4
Hilliard	71.6	77.1	60.7	54	59.6	4/13	5/14	36	3	4
Progeny #Warrior	71.5	73.7	80.2	5	58.5	4/14	5/15	33	1	1
Dyna-Gro 9012	71.2	74.8	72.7	26	60.8	4/15	5/16	34	3	2
Pioneer 26R59	70.9	74.1	78.8	7	57.8	4/14	5/16	31	1	2
Dyna-Gro 9811	70.5		57.2	60	59.3	4/10	5/14	36	4	4
AR071333C-19-4	70.5		61.0	52	59.9	4/12	5/14	36	6	4
AgriMAXX 474	70.4	73.4	77.0	10	58.7	4/14	5/16	33	2	1
L11538	69.8		62.4	50	60.4	4/15	5/15	36	3	4
AR06146E-1-4	69.4		55.8	63	61.6	4/11	5/13	37	4	5
PGX16-4	69.4		60.5	55	60.0	4/10	5/13	36	4	3
AgriMAXX 475	68.4	71.9	67.2	41	59.6	4/14	5/16	32	4	4
USG 3404	68.3	69.1	73.1	24	59.4	4/16	5/16	36	2	2
AgriMAXX 415	68.2	71.6	65.9	43	60.4	4/14	5/15	34	3	3
Dixie Jones	67.5	70.1	68.4	39	59.3	4/13	5/17	34	5	4
SY 547	67.3		63.9	49	59.1	4/10	5/14	38	5	2
Progeny #Blaze	66.6		74.1	18	58.4	4/15	5/15	36	2	3
USG 3448	65.8		65.1	46	58.9	4/13	5/16	32	4	2
Dixie McAlister	65.7	70.2	56.0	62	60.3	4/15	5/14	32	6	5
Pioneer 26R10	65.1	65.9	75.2	13	58.4	4/16	5/17	36	3	1
Progeny #Boss	64.8		55.2	64	59.3	4/12	5/14	31	4	3

Table 5. Performance of wheat cultivars in the standard input test, Marianna, Continued.

Entry Name	Multi-Year		2017-2018 Data							
	2-Year	3-Year	Yield	Rank	Test Weight	Head Date	Maturity Date	Plant Height	Leaf Blotch	Freeze Damage
	Average Yield	Average Yield								
	(bu/ac)	(bu/ac)	(bu/ac)		(lb/bu)			(in.)	(0-9)	(0-9)
AgriMAXX 446	64.7	68.4	70.6	29	58.2	4/17	5/16	37	4	1
Progeny #Turbo	62.6	69.6	53.8	68	58.6	4/11	5/15	30	4	4
Dyna-Gro 9171	61.8	69.3	54.5	67	58.4	4/14	5/15	33	5	4
Dyna-Gro 9750	61.8		54.5	66	58.1	4/12	5/15	31	2	4
Dixie Bentley	61.5	69.6	37.2	86	59.3	4/11	5/13	38	5	5
Armor LOCKDOWN	60.2		35.7	89	59.1	4/11	5/13	37	5	5
AgriMAXX 463	58.4	65.5	50.1	71	57.1	4/11	5/14	31	3	3
Delta Grow 3500	58.0	65.0	35.8	88	61.3	4/9	5/13	33	4	3
Go Wheat 2059	55.6	64.1	45.7	74	57.0	4/11	5/14	31	6	4
AgriMAXX Exp 1884			78.0	9	57.8	4/17	5/17	34	2	1
Armor ARW1719			76.6	12	57.7	4/16	5/17	33	3	1
Armor ARW1766			64.8	47	62.0	4/11	5/16	37	5	4
Armor ARW1729			82.1	3	58.5	4/18	5/18	34	2	1
Armor ARW1726			73.8	19	59.5	4/17	5/16	35	2	1
Armor ARW1727			70.3	32	59.5	4/17	5/16	34	3	2
Armor ARW1718			61.1	51	59.8	4/13	5/15	36	4	2
Dixie Bell 700			58.4	58	58.7	4/13	5/15	37	4	7
DXEX 18-1			84.0	2	58.6	4/17	5/17	37	2	1
DXEX 18-2			73.5	21	58.8	4/19	5/16	37	3	1
Dyna-Gro WX17775			80.6	4	57.7	4/17	5/16	33	2	1
Dyna-Gro 9862			79.8	6	59.5	4/17	5/17	34	1	1
L11719			73.3	23	59.0	4/15	5/17	34	6	1
LCS Ammo			57.7	59	59.5	4/11	5/13	31	5	2
L11713			40.9	81	60.5	4/9	5/14	32	6	3
LA08080C-31-1			57.0	61	58.2	4/13	5/15	34	4	5
NC14-23372			49.3	72	60.9	4/15	5/16	38	4	5
NC13-21213			60.0	57	61.7	4/10	5/14	36	3	3
NC13-20076			31.7	90	59.1	4/10	5/13	35	4	5
OCW03S580S-8WF			65.5	44	59.2	4/15	5/17	35	5	3
OCW04S405S-11F			60.8	53	59.5	4/12	5/16	36	6	3
PGX16-7			44.5	75	58.5	4/12	5/14	33	5	4
PGX17-16			73.5	22	58.6	4/18	5/16	35	2	1
PGX17-20			70.5	30	59.3	4/17	5/16	36	2	2
PGX17-28			39.4	84	55.2	4/8	5/13	31	8	6
AGS 2024			38.5	85	57.7	4/10	5/14	33	6	4
Go Wheat LA754			21.9	95	43.3	4/9	5/13	34	6	5
SY Miskin			41.4	78	59.5	4/11	5/14	35	6	6
SY Collins			40.3	83	60.7	4/10	5/15	34	7	3

Table 5. Performance of wheat cultivars in the standard input test, Marianna, Continued.

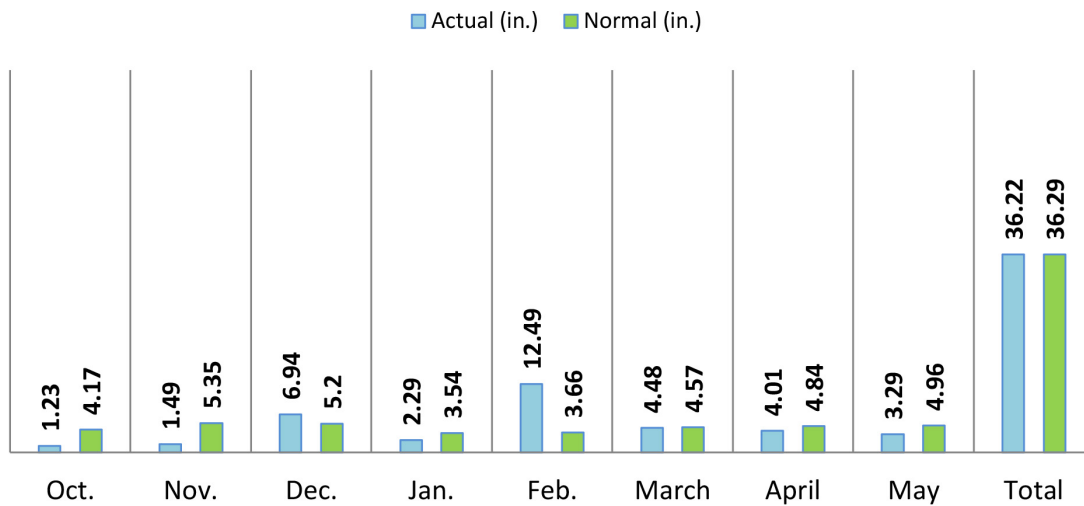
Entry Name	Multi-Year		2017-2018 Data							
	2-Year Average Yield (bu/ac)	3-Year Average Yield (bu/ac)	Yield (bu/ac)	Rank	Test Weight (lb/bu)	Head Date	Maturity Date	Plant Height (in.)	Leaf Blotch (0-9)	Freeze Damage (0-9)
USG 3118			30.1	91	54.5	4/8	5/12	30	6	4
USG 3329			74.6	14	58.1	4/15	5/16	35	2	4
ARW1790			41.1	80	59.0	4/10	5/13	33	6	4
AR07133C-3-4			41.2	79	59.5	4/9	5/13	38	8	8
AR09137UC-17-2			70.2	33	59.8	4/14	5/13	38	4	2
AR09179UC-1-1			36.7	87	58.2	4/9	5/15	35	6	6
AR09179UC-9-3			54.7	65	62.6	4/12	5/16	34	3	4
AR08005D-11-4			51.0	69	60.6	4/10	5/14	32	3	3
GW EXP14E19			25.6	92	52.0	4/8	5/17	32	5	6
AGS EXP14E53			50.9	70	59.1	4/9	5/16	34	4	3
FLLA10033C-6			41.8	77	58.0	4/10	5/13	36	5	6
FLLA10191C-13			25.2	93	60.0	4/8	5/12	29	9	9
FLLA10204C-4			47.0	73	59.7	4/10	5/13	36	5	4
GA061471-15LE38			43.7	76	60.7	4/12	5/15	35	5	4
GA08535-15LEL29			40.4	82	60.4	4/9	5/16	33	7	5
GA081113-15EL8			23.4	94	45.9	4/8	5/13	33	9	8
CROPLAN SRW 9606			67.2	42	58.5	4/15	5/16	33	8	3
CROPLAN SRW 8550			70.0	34	59.6	4/16	5/15	37	2	4
Mean	70.0	74.0	59.6		58.7	4/13	5/15	34	4	3
LSD (5%)			8.1		2.5	2	2	4	2	2
C.V. (%)			4.9		1.5	1.0	1.0	4.4	17.6	25.8

Newport: Newport Extension Center (NRC)

Irrigated Grain Sorghum (GS) Hybrids Trial Summary, 2017



2017-2018 NEWPORT MONTHLY PRECIPITATION



Soil Series:	Beulah fine sandy loam	Fertilizer Application(s):	90 lb N/ac + 24 lb S/ac 60 lb N/ac	March 9, 2018 March 22, 2018
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. 13, 2017 Nov. 13, 2017 March 16, 2018 March 16, 2018
Planting Date:	Oct. 16, 2017	Fungicide Application(s):	None	
Harvest Date(s):	June 7, 2018			

Table 6. Performance of wheat cultivars in the standard input test, Newport.

Entry Name	Multi-Year		2017-2018 Data			
	2-Year Average Yield	3-Year Average Yield	Yield	Rank	Test Weight	Plant Height
	----- (bu/ac) -----		(bu/ac)		(lb/bu)	(in.)
Progeny #Fury	87.7		70.4	58	51.6	30
Dyna-Gro 9701	87.3	82.5	76.2	22	52.3	35
Dixie Brown	87.2	78.4	85.4	4	53.9	35
USG 3536	87.1	81.3	79.1	11	53.6	35
Armor MAYHEM	86.2	80.9	87.3	2	54.9	36
PGX16-4	85.9		80.4	10	54.7	34
Go Wheat 2058	84.7	77.6	76.4	20	54.7	29
Progeny #Turbo	84.2	73.2	83.7	5	54.4	33
Pioneer 26R59	84.0	76.3	88.1	1	53.8	31
Pioneer 26R41	83.8	79.9	75.1	29	52.6	33
AR06146E-1-4	83.4		72.7	41	55.6	33
AgriMAXX 473	82.0	77.4	77.9	14	52.6	36
Dyna-Gro 9811	81.7		71.2	52	52.1	33
AR06037-17-2	81.6	78.2	75.5	26	53.3	32
AgriMAXX 474	81.4	78.6	72.7	42	50.9	31
L11538	80.4		72.4	47	52.7	36
Pioneer 26R45	80.2		70.0	62	45.9	36
Dyna-Gro 9171	80.1	73.0	72.4	46	52.2	33
AR071333C-19-4	79.5		70.9	54	51.8	35
AGS 2055	79.4	76.0	70.9	53	51.2	32
Dixie Bentley	79.4	72.5	77.0	17	58.2	37
Delta Grow 1000	79.0	77.4	73.1	37	52.3	33
Armor LOCKDOWN	78.8		75.1	28	58.1	38
Progeny #Boss	78.6		72.4	45	51.7	31
LA09225C-33-3	78.2		70.3	59	54.5	36
Delta Grow 3500	78.0	70.4	81.4	8	56.9	31
AGS 2038	77.9	74.4	74.8	30	52.5	39
Dyna-Gro 9012	77.7	72.1	74.0	35	54.9	33
SY 547	77.7		81.0	9	53.7	37
Hilliard	77.4	71.0	76.3	21	53.9	35
Progeny #Warrior	77.0	64.2	72.4	44	50.6	33
Progeny #Bullet	75.4	74.5	73.1	39	52.3	34
AgriMAXX 463	74.6	67.9	66.6	76	48.1	32
USG3895	74.5		68.1	71	52.6	32
AgriMAXX 415	74.4	68.4	66.5	77	54.7	33
USG 3448	73.0		78.7	12	54.3	32
Dyna-Gro 9750	72.9		65.5	82	49.0	30
AgriMAXX 446	72.7	70.2	70.2	61	53.0	34
USG 3404	72.7	65.8	67.3	74	50.9	33

Table 6. Performance of wheat cultivars in the standard input, Newport test, Continued.

Entry Name	Multi-Year		2017-2018 Data			
	2-Year Average Yield	3-Year Average Yield	Yield	Rank	Test Weight	Plant Height
	----- (bu/ac) -----		(bu/ac)		(lb/bu)	(in.)
AR07084C-10-1	72.6		68.8	67	51.1	36
Dixie McAlister	71.3	67.6	68.9	64	51.2	33
Dixie Jones	71.2	67.7	73.1	38	53.6	33
Pioneer 26R10	70.9	68.3	67.8	73	49.9	33
SY Viper	70.7	63.2	68.9	65	53.3	36
Pioneer 26R36	70.3	68.1	62.5	87	53.4	34
Go Wheat 2059	65.8	59.8	58.6	93	47.4	28
AgriMAXX 475	65.7	67.5	64.1	86	52.2	32
Progeny #Blaze	64.7		70.6	55	46.4	37
AgriMAXX Exp 1884			82.2	6	49.7	33
Armor ARW1719			78.3	13	51.3	33
Armor ARW1766			64.6	85	52.8	34
Armor ARW1729			66.3	80	51.7	32
Armor ARW1726			75.5	27	53.7	35
Armor ARW1727			60.4	91	50.2	32
Armor ARW1718			76.1	23	53.8	37
Dixie Bell 700			71.5	51	53.5	37
DXEX 18-1			71.9	50	51.2	32
DXEX 18-2			72.1	49	52.2	35
Dyna-Gro WX17775			75.8	25	50.2	33
Dyna-Gro 9862			77.8	15	52.2	33
L11719			70.6	56	53.0	32
LCS Ammo			68.3	69	53.1	31
L11713			69.0	63	56.7	33
LA08080C-31-1			66.4	78	53.2	34
NC14-23372			62.5	88	56.7	37
NC13-21213			77.5	16	56.2	34
NC13-20076			68.8	66	56.4	37
OCW03S580S-8WF			61.1	90	47.7	33
OCW04S405S-11F			68.1	72	48.4	34
PGX16-7			59.1	92	54.9	31
PGX17-16			70.3	60	52.9	32
PGX17-20			65.4	83	49.8	33
PGX17-28			74.0	34	54.1	33
AGS 2024			86.1	3	54.9	33
Go Wheat LA754			73.0	40	56.1	34
SY Miskin			74.5	32	53.7	36
SY Collins			74.6	31	57.3	35

Table 6. Performance of wheat cultivars in the standard input, Newport, Continued.

Entry Name	Multi-Year		2017-2018 Data			
	2-Year Average Yield	3-Year Average Yield	Yield	Rank	Test Weight	Plant Height
	----- (bu/ac) -----		(bu/ac)		(lb/bu)	(in.)
USG 3118			74.0	36	53.8	30
USG 3329			65.4	84	46.3	34
ARW1790			81.6	7	55.2	34
AR07133C-3-4			62.4	89	52.6	36
AR09137UC-17-2			68.3	70	51.6	38
AR09179UC-1-1			66.4	79	55.9	34
AR09179UC-9-3			68.7	68	54.5	33
AR08005D-11-4			77.0	19	56.6	31
GW EXP14E19			72.7	43	54.3	30
AGS EXP14E53			66.1	81	52.0	32
FLLA10033C-6			77.0	18	53.0	35
FLLA10191C-13			54.5	95	56.2	28
FLLA10204C-4			67.1	75	55.7	34
GA061471-15LE38			70.5	57	54.8	37
GA08535-15LEL29			75.9	24	55.9	35
GA081113-15EL8			72.3	48	56.1	32
CROPLAN SRW 9606			57.0	94	49.2	33
CROPLAN SRW 8550			74.2	33	52.9	33
Mean	77.9	72.6	71.5		52.7	34
LSD (5%)			9.7		4.9	3
C.V. (%)			4.9		3.4	3.0

Table 7. Performance of wheat cultivars in the standard input test, Rohwer.¹

Entry Name	Yield	
	2-Year Average ² (bu/ac)	3-Year Average ³ (bu/ac)
Delta Grow 3500	91.3	81.9
Hilliard	85.5	86.3
Dixie Bentley	85.4	
Pioneer 26R36	85.4	91.3
AGS 2055	83.9	86.9
AgriMAXX 473	83.3	
Dyna-Gro 9701	82.5	
Delta Grow 1000	82.1	84.7
Pioneer 26R41	81.8	83.9
USG 3536	80.9	
Dixie Brown	80.6	
AGS 2038	80.2	79.2
Progeny #Bullet	79.3	
Pioneer 26R59	77.2	83.1
Progeny #Turbo	76.7	
AgriMAXX 475	76.2	
Armor MAYHEM	75.9	
Dyna-Gro 9171	75.8	81.3
USG 3404	75.6	77.6
AR06037-17-2	74.1	
Dixie Jones	73.9	
AgriMAXX 415	73.7	78.9
Dixie McAlister	72.6	78.8
SY Viper	72.5	78.3
AgriMAXX 474	72.4	
Dyna-Gro 9012	72.3	78.8
Progeny #Warrior	70.7	
AgriMAXX 463	70.0	
Go Wheat 2058	68.6	78.1
Go Wheat 2059	67.8	
AgriMAXX 446	64.0	71.3
Pioneer 26R10	58.3	68.3
Mean	76.6	80.5

¹2017-2018 data not reported due to herbicide damage.

²2015-2016 and 2016-2017 data.

³2013-2014, 2015-2016 and 2016-2017 data.

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

Entry Name	<i>Fusarium</i> Head Blight Severity Newport May 14	<i>Fusarium</i> Damaged Kernels Newport	Stripe Rust Severity Fayetteville May 8	Powdery Mildew May 8	2-Year Average <i>Fusarium</i> Head Blight Severity Newport	2-Year Average <i>Fusarium</i> Damaged Kernels Newport	2017 DON Newport
	------(%)-----			(0-3)	(%)	(%)	(ppm)
AgriMAXX 415	5	38	5	1	3.8	26.3	3.5
AgriMAXX 446	8	58	7	2	6.3	36.3	3.2
AgriMAXX 463	0	23	23	2	0.0	15.0	2.0
AgriMAXX 473	3	30	0	1	1.3	26.3	2.4
AgriMAXX 475	0	25	2	3	2.5	32.5	3.6
AgriMAXX 474	10	45	0	2	7.5	33.8	3.2
AgriMAXX Exp 1884	5	38	0	2			
Armor MAYHEM	0	23	0	2	1.3	16.3	2.8
Armor LOCKDOWN	13	17	0	3	12.5	29.5	3.6
Armor ARW1719	5	45	0	2			
Armor ARW1766	18	40	11	1			
Armor ARW1729	10	48	0	2			
Armor ARW1726	3	33	0	1			
Armor ARW1727	5	45	0	2			
Armor ARW1718	15	38	0	1			
Armor ARW1778	3	63	0	1			
Dixie Bell 700	18	40	1	1			
Dixie McAlister	15	53	0	2	10.0	47.5	6.0
Dixie Bentley	23	18	0	3	26.3	20.0	4.2
Dixie Brown	8	35	1	1	3.8	20.0	2.0
Dixie Jones	5	40	2	3	3.8	43.8	5.3
DXEX 18-1	8	35	0	2			
DXEX 18-2	5	30	0	1			
Delta Grow 1000	0	25	0	1	0.0	15.0	2.6
Delta Grow 3500	48	48	30	0	33.8	37.5	2.1
Pioneer 26R10	5	18	2	2	7.5	20.0	4.4
Pioneer 26R36	0	20	1	3	5.0	25.0	6.3
Pioneer 26R41	8	24	0	1	10.0	29.3	5.1
Pioneer 26R45	8	6	1	1	5.0	4.0	2.4
Pioneer 26R59	8	33	0	1	8.8	37.5	5.2
Dyna-Gro WX17775	5	20	1	2			
Dyna-Gro 9750	3	28	9	2	2.5	27.5	3.2
Dyna-Gro 9701	5	23	0	1	2.5	33.8	2.5
Dyna-Gro 9862	5	38	0	2			
Dyna-Gro 9811	15	40	0	0	12.5	32.5	4.6
Dyna-Gro 9012	8	48	0	2	5.0	41.3	3.5

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

Entry Name	<i>Fusarium</i> Head Blight Severity Newport May 14	<i>Fusarium</i> Damaged Kernels Newport	Stripe Rust Severity Fayetteville May 8	Powdery Mildew May 8	2-Year Average <i>Fusarium</i> Head Blight Severity Newport	2-Year Average <i>Fusarium</i> Damaged Kernels Newport	2017 DON Newport
	------(%)-----			(0-3)	(%)	(%)	(ppm)
Dyna-Gro 9171	10	45	1	1	6.3	51.3	4.9
L11719	15	43	0	1			
L11538	15	38	0	1	12.5	33.8	4.5
LCS Ammo	10	38	1	0			
L11713	15	33	0	0			
LA08080C-31-1	28	58	1	1			
LA09225C-33-3	13	30	2	1	13.8	27.5	4.0
NC14-23372	8	30	2	0			
NC13-21213	20	40	0	1			
NC13-20076	5	13	0	1			
OCW03S580S-8WF	8	53	1	3			
OCW04S405S-11F	13	50	0	3			
Progeny #Boss	5	50	0	2	5.0	42.5	3.7
Progeny #Bullet	5	22	0	2	2.5	25.8	3.8
Progeny #Turbo	15	28	7	1	18.8	17.0	2.5
Progeny #Warrior	10	33	0	1	21.3	47.5	9.8
Progeny #Fury	25	70	15	1	36.3	62.5	8.2
Progeny #Blaze	5	33	0	1	6.3	35.0	5.2
PGX16-4	33	58	9	0	35.0	42.0	4.6
PGX16-7	20	60	0	0			
PGX17-16	5	35	0	1			
PGX17-20	5	30	0	1			
PGX17-28	30	40	0	1			
AGS 2055	38	70	1	2	7.0	62.5	7.0
AGS 2038	40	58	1	1	32.5	58.8	9.4
AGS 2024	28	48	15	0			
Go Wheat LA754	38	58	30	0			
Go Wheat 2058	8	23	4	2	6.3	13.0	1.6
Go Wheat 2059	0	15	9	2	0.0	11.8	1.9
SY Viper	18	23	1	1	13.8	17.5	2.9
SY Miskin	10	20	1	2			
SY 547	8	33	50	1	5.0	26.3	4.5
SY Collins	15	23	7	1			
Hilliard	10	30	0	1	10.0	31.3	5.2
USG 3404	5	30	4	1	5.0	33.8	5.3
USG 3536	0	30	0	1	1.3	17.5	2.3
USG3895	5	48	0	2	15.0	51.3	8.4

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

Entry Name	<i>Fusarium</i> Head Blight Severity Newport May 14	<i>Fusarium</i> Damaged Kernels Newport	Stripe Rust Severity Fayetteville May 8	Powdery Mildew May 8	2-Year Average <i>Fusarium</i> Head Blight Severity Newport	2-Year Average <i>Fusarium</i> Damaged Kernels Newport	2017 DON Newport
	-----(%)-----			(0-3)	(%)	(%)	(ppm)
USG 3448	3	28	1	3	3.8	26.3	4.9
USG 3118	18	28	1	0			
USG 3329	3	33	0	1			
ARW1790	18	45	0	1			
AR06037-17-2	15	43	0	0	12.5	26.3	2.4
AR06146E-1-4	8	28	0	2	6.3	19.5	1.7
AR07084C-10-1	8	28	0	2	5.0	19.5	1.6
AR071333C-19-4	8	33	5	1	6.3	22.0	2.3
AR07133C-3-4	28	43	1	0			
AR09137UC-17-2	23	43	0	1			
AR09179UC-1-1	25	20	0	1			
AR09179UC-9-3	28	28	0	0			
AR08005D-11-4	53	63	7	1			
GW EXP14E19	50	45	7	3			
AGS EXP14E53	20	40	30	3			
FLLA10033C-6	20	50	11	0			
FLLA10191C-13	25	35	15	1			
FLLA10204C-4	30	60	2	2			
GA061471-15LE38	33	33	16	1			
GA08535-15LEL29	30	33	33	0			
GA081113-15EL8	48	55	19	2			
CROPLAN SRW 9606	13	35	0	2			
CROPLAN SRW 8550	0	33	0	1			
Mean	14	37	4.2	1	9.5	30.7	4.1
LSD (5%)	18	18	10	1			
C.V. (%)	46	18	86	24			

^a Stripe rust and *Fusarium* head blight (FHB) inoculated nurseries in Newport and Fayetteville, respectively. Deoxynivalenol (DON) commonly known as vomitoxin data is reported for lines tested in 2016-2017.

**Participants and Entries
2017-2018 Wheat Variety Test**

<u>Company</u>	<u>Variety</u>
AgriMaxx Wheat Company 7167 Highbanks Road Mascoutah, IL 62258	AgriMAXX 415 AgriMAXX 446 AgriMAXX 463 AgriMAXX 473 AgriMAXX 474 AgriMAXX 475 AgriMAXX Exp. 1884
AG South Genetics P.O. Box 72246 Albany, GA 31708-2246	AGS 2024 AGS 2038 AGS 2055 AGS EXP14E53
Armor Seed P.O. Box 178 Fisher, AR 72429	Armor ARW1718 Armor ARW1719 Armor ARW1726 Armor ARW1727 Armor ARW1729 Armor ARW1766 Armor ARW1790 Armor Mayhem Armor Lockdown
B & S Seed Company, Inc. 1283 HWY. 444 Duncan, MS 38740	Dixie Bell 700
Cache River Valley Seed, LLC P.O. Box 10 Cash, AR 72421	Dixie Bentley Dixie Brown Dixie Jones Dixie McAlister Dixie DXEX 18-1 Dixie DXEX 18-2

Participants and Entries, Continued.
2017-2018 Wheat Variety Test

<u>Company</u>	<u>Variety</u>
Delta Grow Seed 220 NW 2nd Street England, AR 72046	Delta Grow 1000 Delta Grow 3500
Dupont Pioneer 425 Abbeydale Way Columbia, SC 29229	Pioneer 26R10 Pioneer 26R36 Pioneer 26R41 Pioneer 26R45 Pioneer 26R59
Dyna-Gro Seed 6221 Riverside Dr. Suite One Dublin, OH 43017	Dyna-Gro 9012 Dyna-Gro 9171 Dyna-Gro 9701 Dyna-Gro 9750 Dyna-Gro 9811 Dyna-Gro 9862 Dyna-Gro WX17775
Limagrain Cereal Seeds 4846 E 450N Lafayette, IN 47905	L11538 L11713 L11719 LCS Ammo
Progeny Ag Products 1529 Hwy 192 South Wynne, AR 72396	Progeny #Boss Progeny #Bullet Progeny #Turbo Progeny #Warrior Progeny #Fury Progeny #Blaze PGX16-4 PGX16-7 PGX17-16 PGX17-20 PGX17-28

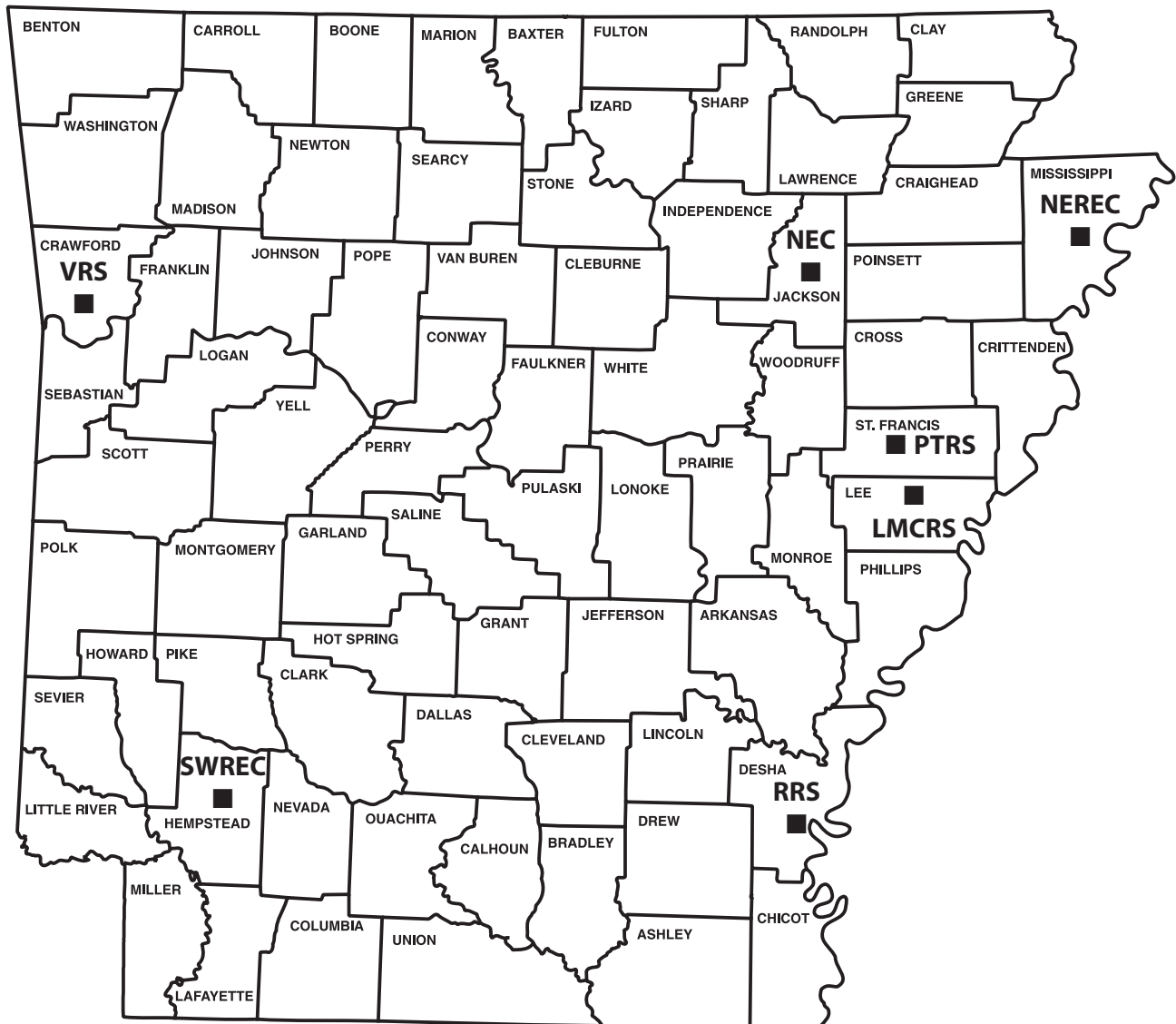
**Participants and Entries, Continued.
2017-2018 Wheat Variety Test**

<u>Company</u>	<u>Variety</u>
Stratton Seed 1530 HWY. 79 S Stuttgart, AR 72160	GO Wheat 2058 GO Wheat 2059 GO Wheat LA754 GW EXP14E19
Syngenta Cereals 14031 Trestle Rd Highland, IL 62249	SY 547 SY Miskin SY Viper SY Collins
UniSouth Genetics, Inc. 2640-C Nolensville Road Nashville, TN 37211	USG 3118 USG 3329 USG 3404 USG 3448 USG 3536 USG 3895
Winfield United 1080 County Road F West, MS 5850 Shoreview MN 55126-2910	CROPLAN SRW 8550 CROPLAN SRW 9606
<u>Public Institution</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
North Carolina State University 840 Unit Method Rd, Unit 3 Raleigh, NC 27606	NC14-23372 NC13-21213 NC13-20076

**Participants and Entries, Continued.
2017-2018 Wheat Variety Test**

<u>Public Institution</u>	<u>Variety</u>
Oklahoma State University 371 Ag Hall Dep. of Plant and Soil Sciences Stillwater, OK74078	OCW03S580S-8WF OCW04S405S-11F
University of Arkansas 115 Plant Sciences Building Fayetteville, AR 72701	AR06037-17-2 AR06146E-1-4 AR07084C-10-1 AR071333C-19-4 AR07133C-3-4 AR08005D-11-4 AR09137UC-17-2 AR09179UC-1-1 AR09179UC-9-3
University of Florida 3105 McCarty Hall B PO Box 110500 Gainesville, FL 32611	FLLA10033C-6 FLLA10191C-13 FLLA10204C-4
University of Georgia 1109 Experiment St. Griffin, GA 30223	GA061471-15LE38 GA08535-15LEL29 GA081113-15EL8
VA Tech EVAREC 2229 Menokin Road Warsaw, VA 22572	Hilliard

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