

2018 Wheat Crop Performance Tests

PREFACE

Our motto is “We test the best” and that is exactly what we do. Each year, the best seed companies and organizations select several of their best varieties for evaluation by the MU Variety Testing Program. We use the latest scientific principles and procedures to provide farmers and others with an interest in wheat variety performance with accurate and unbiased information.

We respect the seed companies and organizations that put their varieties to the test. We are honored that they entrust us with their valuable products. It takes courage to allow their varieties to be compared with all of the others. Not every company participates in our program for various reasons. Those companies that do participate deserve your consideration when purchasing seed for the next growing season. Please view the table at the back of our book for names and addresses of participating seed companies. Thank them for their courage and tell them you saw their variety in our program.

The MU Variety Testing Program has provided Missouri farmers with unbiased variety comparisons for more than 75 years, first with corn, then soybean and wheat. Staff members are experienced veterans with testing crop yield performance. Our plots are placed where you farm. They have the soils and weather conditions your fields have. The MU Variety Testing Program is on-farm research in the truest sense of the word. Eight of our wheat locations are on farmer fields in your communities. The other two locations are MU farms. These CAFNR owned and operated research centers combined with the private farm locations provide you with the diversity of environments you need to select the best varieties for your farm. View the map in our procedures section to see the placement of our locations and the cooperators that are so important to the quality of our information.

Evaluating yield and making decisions based on that evaluation are difficult because yield is highly affected by environment – even the small differences that exist across a field. We use replication, plot size, and plot placement to minimize the “noise”. Please read the procedures section to better understand what we do and the tools we provide you to make variety selection decisions. Our data tables are arranged to help you quickly see how varieties compare. We strongly suggest that you use information from more than one location. Our tables of “region means” provide comparisons across multiple locations. If varieties are entered by companies in more than one year, we provide you with 2-year means increasing the number of environments for your observation. Finally, although yield is extremely important please see our variety characteristics table to view additional information that you might find helpful during variety selection.

Thank you for your interest and support. Please support the companies that participate in our program. If you have suggestions on how we can improve our program please contact me directly (wieboldw@missouri.edu; 573-882-0621). The MU Variety Testing Program exists to serve your needs. We want to provide you with the best information possible.



William “Bill” Wiebold

PROCEDURES

Regions and Locations

The MU Variety Testing Program divides the wheat growing area of Missouri into three regions: North, Southwest, and Southeast. The North region contains four locations. The Southwest and Southeast regions contain three locations, each. The same varieties were tested in all locations within a region. Locations for 2018 were:

North

1. Trenton (Grundy County); Peter Brewer Farm
2. Novelty (Knox County); Greenley Memorial Research Center
3. Columbia (Boone County); Bradford Research Center
4. Martinsburg (Callaway County); Warren Hale Farm

Southwest

5. Garden City (Cass County); Bill Cook Farm
6. Montrose (Henry County); Jeff Nold Farm
7. Lamar (Barton County); Walley Norton Farm

Southeast

8. Charleston (Mississippi County); Don Deline Farm
9. Fisk (Butler County); Nathan Goldschmidt Farm
10. Portageville (Pemiscot County); Fisher Delta Research Center



Entries

All seed companies were eligible to enter varieties in the Soft Red Winter Wheat Test. Participation was voluntary and the MU Variety Testing Program exercised no control over which or how many varieties were entered. The MU Variety Testing Program receives no Missouri tax dollars, so a fee was collected for each entry to fund the program.

Field Plot Design and Plot Management

Varieties were randomly arranged in the field according to a lattice design with three replications. Plots were six rows wide and 25 feet long. Row spacing was 7.5 inches. Planting rate was 1,500,000 seeds/acre. All six rows were harvested with a combine designed for small-plot work.

Fertilizer was applied at each location at the discretion of the farmer or research station manager. Herbicides were used to control weeds. Fungicides and insecticides were applied as needed for disease and insect management. Management details varied among locations and are specified in individual region crop management summaries.

Data Recorded

Plant height was measured at maturity. Lodging was rated immediately before harvest using a scale of 1 to 5 where 1 = less than 20% plants lodged and 5 = more than 80% plants lodged. During harvest, plot grain weights and test weights were measured and an electronic moisture tester was used to determine the moisture content of the grain. Yields were corrected to a moisture content of 13% and expressed as bushels/acre.

Comparing Varieties

The performance of a variety cannot be measured with absolute precision. Uncontrolled variability is involved in the determination of each plot's yield. This variability exists in all field experiments and in farmer fields. Statistics are used to account for this variability and to assist farmers in selecting superior varieties. The statistical tool used by the MU Variety Testing Program is called "least significant difference" (LSD). The LSD is simple to use. When two varieties are compared and the difference between them is greater than the LSD, the varieties are considered to be significantly different. Differences between two varieties smaller than the LSD may have occurred by chance and are considered to be not significant. The LSD can be found at the bottom of each table.

The MU Variety Testing Program arranges varieties within each table from highest yield to lowest yield. The "top yielding" variety in each table has been identified by a double asterisk (**). Varieties that did not yield significantly less than the highest yielding variety in the table are denoted by a single asterisk (*). Thus, by reading down the yield column, readers can readily identify the highest yielding varieties in a location.

Variety performance may seem inconsistent from location to location and from year to year. These differences are caused by differences among environments for rainfall, temperatures, soil fertility, diseases, insects, and many other factors. To obtain an improved estimate of relative variety performance, readers should consider results from more than one environment (locations and/or years). The vast majority of varieties are entered into our tests for only one year, so comparing varieties across multiple locations becomes even more important. The MU Variety Testing Program facilitates variety comparisons across locations by publishing Region Means. Region Means tables contain yield data from all individual locations in the region and yields averaged across all of the locations. The variety with the highest average yield and varieties that do not differ for yield from that variety are designated with double (**) and single (*) asterisks.

Although yield usually receives first consideration, other agronomic characteristics may be equally important when selecting a wheat variety. The MU Variety Testing Program measures test weight and plant height and rates plant lodging. These data are presented in each location table. Winter hardiness, maturity, resistance to Hessian fly, and resistance to several diseases are among the variety characteristics that deserve careful consideration. We provide a table that contains several important characteristics of varieties entered into the MU Variety Testing Program. This information was provided by seed companies. Please contact seed company representatives for the latest information. Seed entered into the MU Variety Testing Program is usually treated with one or more seed treatments. These seed treatments are identified in the table listing the variety characteristics.

Accessibility of Data

Results of the Soft Red Winter Wheat Test are available online at "varietytesting.missouri.edu". If you need assistance in accessing the web site please call 573-882-2307. You may print tables from the online version.

Authors

William J. Wiebold is a Professor of Plant Sciences and State Extension Specialist; Delbert Knerr, Michael Grissum, Chris Cravens, and Jarrod Nichols are Senior Research Specialists.

Acknowledgments

The MU Variety Testing Program recognizes and expresses appreciation to the following individuals for their part in making the Soft Red Winter Wheat Test possible: Peter Brewer, Trenton; Dana Harder,

Superintendent, Greenley Memorial Research Center, Novelty; Andrew Biggs, Superintendent, Bradford Research Center, Columbia; Warren Hale, Martinsburg; Bill Cook, Garden City; Jeff Nold, Montrose; Walley Norton, Lamar; Nathan Goldschmidt, Fisk; Don Deline, Charleston; Trent Haggard, Superintendent, Fisher Delta Research Center.

North Region Crop Management Summary

The wheat test was conducted at four locations in the North Region. Quality of the data from the Martinsburg location was insufficient to use because of planter irregularities.

Characteristics of Wheat Test Locations - North Region

Location	Soil Type	pH	Soil Test			Precipitation			
			OM %	P pounds/acre	K	March	April	May	Total
Columbia	Mexico silt loam	6.6	2.0	15	144	3.9	1.0	3.2	8.1
Novelty	Putnam silt loam	6.5	3.1	40	272	2.0	0.4	2.6	5.0
Trenton	Lagonda silty clay loam	6.4	3.4	120	421	1.6	0.5	3.2	5.3

Crop Management Practices at the Wheat Test Locations - North Region

Location	Dates		Fertilizer			Tillage	Herbicides		Fungicides/ Insecticides
	Planting	Harvest	N	P ₂ O ₅	K ₂ O		Pre	Post	
Columbia	Oct 14	July 3	120	0	0	No Till	Harmony, Roundup	None	Headline
Novelty	Oct 27	June 29	120	60	100	No Till	None	None	None
Trenton	Oct 13	July 2	150	0	0	No Till	Harmony	None	None

2018 Missouri Soft Red Winter Wheat North Region: Columbia

Brand/Variety	Yield (bu/ac)	2-year Mean (bu/ac)	Test Weight (lb/bu)	Lodging ~	Height (inches)
Green Valley Seed GV 668	69.8**		52.5	1	28
AgriMAXX 486	68.3*		50.8	1	30
Limagrain L11719	68.3*		51.1	1	25
Dyna-Gro WX18724	67.6*		51.9	2	27
Pioneer 25R74	66.5*	72.4	50.5	1	25
AgriMAXX 475	65.5*	89.5*	51.6	2	23
Green Valley Seed GV 65X	65.4*		49.9	2	25
AgriMAXX 444	64.9*	85.3	50.0	2	26
MOMEX 4861	64.9*		49.1	2	25
Syngenta SY 547	64.5*	75.1	51.4	2	28
Syngenta SY 100	64.1	75.2	47.8	3	25
Pioneer 25R40	64.1	79.6	53.0	2	25
Pioneer 25R61	63.9	90.9**	50.1	1	27
Dyna-Gro 9522	62.9	84.0	50.8	1	27
Dyna-Gro WX17775	62.9		48.6	3	27
AgriMAXX EXP 1884	62.8		48.7	4	24
Go Wheat 2058	62.7		50.5	1	24
Lewis Hybrids 839	62.2		50.0	2	31
Limagrain L11548	62.1		48.8	1	27
Green Valley Seed GV 66X	61.7		50.2	1	26
Limagrain L11549	61.4		52.6	3	26
VCIA VA12W-68	61.3		50.0	2	25
MFA 2449	61.1	84.5	50.9	2	28
Hilliard	61.1		34.1	4	27
Krause K-7102 SRW	60.9	82.5	52.3	2	25
Dyna-Gro 9811	60.0		50.7	2	27
AgriMAXX 415	59.8	77.8	51.6	2	24
Beck 726	59.4		49.4	3	26
Pioneer 25R50	59.3	73.3	51.4	1	27
Limagrain L11713	59.1		51.2	1	25
Vantage EXP 832	59.1		52.7	2	28
AgriMAXX 480	58.9		54.7	2	26
MOMEX 4943	58.9		51.0	2	28
Frontier Magnus 1061	58.7		50.7	2	28
AgriMAXX 463	58.6	82.1	33.7	2	28
AgriMAXX EXP 1892	57.8		53.7	2	24
Go Wheat 2059	57.8		50.5	2	25
MFA 2654	57.5		53.0	4	36
XL 348	57.2		50.6	2	25
Croplan SRW 8550	57.1		49.8	2	29
Lewis Hybrids 833	56.7		52.1	2	29
Green Valley Seed GV 628	56.6		50.3	2	25
Lewis Hybrids 828	56.6		49.7	2	28
MFA 2633	56.6		48.1	3	27
AgriMAXX 473	56.5	78.9	50.0	2	27
Beck 721	56.5		50.2	2	28

Momentum 304	55.7	73.5	53.3	1	29
Croplan SRW 9606	55.6		49.4	2	26
XL 297	55.3	84.4	49.4	3	27
Vantage EXP 822	55.2		51.8	2	26
MFA 2542	54.6		53.4	2	25
Momentum 106	53.9	75.5	51.9	2	26
Dyna-Gro 9862	53.6		51.9	3	25
Dyna-Gro 9701	53.1	74.0	50.4	1	30
MFA 2622	53.1		53.0	2	22
Limagrain LCS Ammo	52.7		50.0	2	26
Lewis Hybrids 851	52.2		49.1	3	27
Green Valley Seed GV 658	52.0		51.4	2	26
Lewis Hybrids 829	50.9		51.2	2	31
Krause K-8102 SRW	49.6		53.6	3	24
XL 268	47.6		50.8	3	26
Pioneer 25R77	45.1	67.8	51.5	4	27
Dyna-Gro 9750	45.1	79.3	50.0	2	26
Momentum 104	44.6	80.4	51.3	3	27
MEAN	59.3	79.3	50.4	2	27
LSD (10%)	5.5	4.6	5.2		
CV (%)	8.7	9.0	9.7		

**Highest yielding variety in test

*Yield not significantly less than the highest yielding variety in the test

~Lodging rated on a 1 to 5 scale where 1 = fewer than 20% plants lodged and 5 = more than 80% plants lodged

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**2018 Missouri Soft Red Winter Wheat
North Region: Novelty**

Brand/Variety	Yield (bu/ac)	2-year Mean (bu/ac)	Test Weight (lb/bu)	Lodging ~	Height (inches)
Dyna-Gro WX17775	61.9**		49.4	1	30
MFA 2449	60.6*	75.5	54.0	1	27
XL 297	59.4*	73.8	53.3	1	28
MFA 2622	59.0*		55.7	1	24
AgriMAXX EXP 1884	58.4*		50.5	1	26
VCIA VA12W-68	58.4*		52.0	1	26
Limagrain L11719	58.1*		52.9	1	27
Croplan SRW 8550	57.5*		54.2	1	31
Lewis Hybrids 833	56.7		53.1	1	29
Pioneer 25R74	56.5	76.1*	52.7	1	26
Beck 721	56.5		53.4	1	31
MOMEX 4861	56.1		52.1	1	26
Go Wheat 2058	55.7		55.3	1	28
Green Valley Seed GV 668	55.6		55.8	1	28
XL 348	55.2		54.8	1	27
Limagrain L11713	54.9		52.5	1	25
AgriMaxx 444	54.2	77.4*	52.8	1	26
Pioneer 25R40	54.2	78.0*	55.1	1	25
Croplan SRW 9606	54.0		54.1	1	27
Lewis Hybrids 839	54.0		54.0	1	30
Dyna-Gro 9701	53.8	74.4	54.1	1	30
AgriMaxx 415	53.4	68.1	56.5	1	25
Hilliard	53.4		54.1	1	28
Beck 726	53.2		50.2	1	27
AgriMAXX 475	53.0	81.8**	55.0	1	26
Limagrain LCS Ammo	52.8		53.9	1	26
Dyna-Gro 9862	52.7		54.0	1	25
Dyna-Gro 9522	52.3	73.4	53.9	1	27
Lewis Hybrids 828	51.7		49.3	1	30
Momentum 304	51.3	72.3	56.7	1	31
Vantage EXP 822	51.2		56.0	1	30
Krause K-8102 SRW	50.7		55.7	1	24
Syngenta SY 100	50.1	79.4*	52.1	1	27
MFA 2633	50.0		50.0	1	28
Lewis Hybrids 851	49.9		52.6	1	28
Dyna-Gro 9811	49.7		54.6	1	27
Frontier Magnus 1061	49.6		53.1	1	28
Pioneer 25R61	49.5	77.8*	52.6	1	30
Green Valley Seed GV 65X	49.4		55.1	1	25
Limagrain L11548	49.2		51.4	1	28
Green Valley Seed GV 628	49.1		54.3	1	26
AgriMAXX 473	48.7	71.1	55.3	1	30
Dyna-Gro WX18724	48.6		53.6	1	27
Syngenta SY 547	48.3	64.4	57.0	1	27
Lewis Hybrids 829	47.9		52.3	1	33
Pioneer 25R77	47.7	77.0*	54.8	1	26
Dyna-Gro 9750	47.0	70.7	52.5	1	27
Krause K-7102 SRW	46.8	79.2*	56.4	1	24
AgriMAXX 486	46.6		53.9	1	31
Green Valley Seed GV 66X	46.0		55.3	1	26
Go Wheat 2059	45.6		52.1	1	27
Momentum 106	45.3	69.3	53.4	1	26
Green Valley Seed GV 658	44.8		52.0	1	26
AgriMAXX EXP 1892	43.8		55.1	1	23
AgriMaxx 463	43.7	64.9	52.9	1	28
Momentum 104	43.2	68.9	52.5	1	28
Vantage EXP 832	42.9		56.0	1	28

Pioneer 25R50	41.7	67.6	55.1	1	26
Limagrain L11549	41.3		56.7	1	26
MOMEX 4943	41.2		53.6	1	28
MFA 2542	40.0		54.9	1	26
MFA 2654	39.5		54.4	1	26
AgriMAXX 480	38.7		57.5	1	28
XL 268	37.9		53.6	1	27
MEAN	50.7	73.4	53.8	1	27
LSD (10%)	5.1	5.7	1.0		
CV (%)	9.5	12.6	1.8		

**Highest yielding variety in test

*Yield not significantly less than the highest yielding variety in the test

~Lodging rated on a 1 to 5 scale where 1 = fewer than 20% plants lodged and 5 = more than 80% plants lodged

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2018 Missouri Soft Red Winter Wheat North Region: Trenton

Brand/Variety	Yield (bu/ac)	2-year Mean (bu/ac)	Test Weight (lb/bu)	Lodging ~	Height (inches)
Green Valley Seed GV 65X	72.5**		53.9	1	25
Green Valley Seed GV 668	71.8*		53.5	1	29
Beck 726	70.7*		50.3	1	27
Croplan SRW 9606	68.8*		52.8	1	27
Dyna-Gro 9701	68.7*	75.3*	52.2	1	29
Hilliard	67.9*		53.2	1	28
VCIA VA12W-68	67.8*		52.2	1	25
Beck 721	67.5*		52.6	1	28
Krause K-7102 SRW	67.0*	79.8**	54.4	2	23
AgriMAXX 486	67.0*		52.5	2	29
Limagrain L11719	66.2		52.9	3	28
AgriMAXX 473	65.8	76.7*	52.3	2	31
AgriMAXX 415	65.6	73.7	55.2	2	26
Dyna-Gro WX17775	65.3		49.8	1	26
Dyna-Gro WX18724	65.2		53.4	1	27
Green Valley Seed GV 658	64.5		53.1	2	29
AgriMAXX 475	64.4	73.1	53.2	2	24
Dyna-Gro 9750	64.0	76.4*	36.9	2	28
MFA 2633	63.4		51.3	2	28
Limagrain L11713	63.3		53.7	1	26
Dyna-Gro 9811	63.0		52.1	1	26
Pioneer 25R61	62.5	76.5*	51.6	2	30
AgriMAXX 480	62.0		55.3	2	30
AgriMAXX EXP 1892	61.7		52.5	1	26
Pioneer 25R74	61.4	70.8	52.0	1	24
Croplan SRW 8550	61.3		52.3	2	28
Dyna-Gro 9862	61.3		52.0	2	25
AgriMAXX EXP 1884	61.2		48.9	1	25
Green Valley Seed GV 66X	61.2		52.9	1	26
Limagrain L11548	60.9		52.2	2	27
Dyna-Gro 9522	60.6	71.4	52.2	1	26
MFA 2449	60.5	75.8*	52.4	2	26
AgriMAXX 444	60.3	76.6*	51.9	2	25
MFA 2654	60.3		53.0	1	28
Momentum 304	60.2	69.9	54.7	1	34
Lewis Hybrids 851	60.2		53.1	2	29
XL 348	60.0		51.9	2	25
Lewis Hybrids 839	59.9		52.3	2	30
Momentum 104	58.3	69.9	51.9	3	30
Krause K-8102 SRW	58.3		54.8	1	24
Pioneer 25R50	58.2	68.1	52.7	1	25
Lewis Hybrids 828	57.4		50.8	2	28
MFA 2622	57.0		52.9	3	23
Go Wheat 2058	56.6		53.4	2	25
Vantage EXP 822	56.3		54.0	3	28
Frontier Magnus 1061	55.9		50.6	1	29

Pioneer 25R77	55.7	70.4	51.9	2	24
XL 297	55.5	68.9	51.5	2	27
Syngenta SY 547	55.4	69.0	53.5	2	29
Limagrain LCS Ammo	54.5		52.2	2	25
Momentum 106	54.1	68.4	52.8	2	25
Syngenta SY 100	54.1	75.9*	49.4	2	26
XL 268	53.5		51.2	1	28
MOMEX 4861	53.4		49.1	2	27
Pioneer 25R40	52.9	69.2	53.1	1	24
MOMEX 4943	51.8		52.1	2	29
Green Valley Seed GV 628	51.7		51.0	2	26
Limagrain L11549	51.5		53.6	2	28
Lewis Hybrids 829	50.9		52.2	3	30
MFA 2542	50.6		55.4	1	27
Vantage EXP 832	50.2		52.7	2	27
Go Wheat 2059	49.2		50.9	2	27
Lewis Hybrids 833	48.7		52.6	2	28
AgriMAXX 463	48.2	67.5	50.4	1	28
MEAN	60.1	72.5	52.2	2	27
LSD (10%)	6.0	4.9	3.3		
CV (%)	9.5	10.1	6.1		

**Highest yielding variety in test

*Yield not significantly less than the highest yielding variety in the test

~Lodging rated on a 1 to 5 scale where 1 = fewer than 20% plants lodged and 5 = more than 80% plants lodged

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2018 Missouri Soft Red Winter Wheat North Region: Summary

Brand/Variety	Columbia (bu/ac)	Novelty (bu/ac)	Trenton (bu/ac)	Mean (bu/ac)
Green Valley Seed GV 668	69.8**	55.6	71.8*	65.7**
Limagrain L11719	68.3*	58.1*	66.2	64.2*
Dyna-Gro WX17775	62.9	61.9**	65.3	63.4*
VCIA VA12W-68	61.3	58.4*	67.8*	62.5*
Green Valley Seed GV 65X	65.4*	49.4	72.5**	62.4*
Pioneer 25R74	66.5*	56.5	61.4	61.5
Beck 726	59.4	53.2	70.7*	61.1
AgriMAXX 475	65.5*	53.0	64.4	61.0
Hilliard	61.1	53.4	67.9*	60.8
AgriMAXX EXP 1884	62.8	58.4*	61.2	60.8
MFA 2449	61.1	60.6*	60.5	60.7
AgriMAXX 486	68.3*	46.6	67.0*	60.6
Dyna-Gro WX18724	67.6*	48.6	65.2	60.5
Beck 721	56.5	56.5	67.5*	60.2
AgriMAXX 444	64.9*	54.2	60.3	59.8
AgriMAXX 415	59.8	53.4	65.6	59.6
Croplan SRW 9606	55.6	54.0	68.8*	59.5
Limagrain L11713	59.1	54.9	63.3	59.1
Lewis Hybrids 839	62.2	54.0	59.9	58.7
Pioneer 25R61	63.9	49.5	62.5	58.6
Croplan SRW 8550	57.1	57.5*	61.3	58.6
Dyna-Gro 9522	62.9	52.3	60.6	58.6
Dyna-Gro 9701	53.1	53.8	68.7*	58.5
Go Wheat 2058	62.7	55.7	56.6	58.3
Krause K-7102 SRW	60.9	46.8	67.0*	58.2
MOMEX 4861	64.9*	56.1	53.4	58.1
Dyna-Gro 9811	60.0	49.7	63.0	57.6
XL 348	57.2	55.2	60.0	57.5
Limagrain L11548	62.1	49.2	60.9	57.4
Pioneer 25R40	64.1	54.2	52.9	57.1
AgriMAXX 473	56.5	48.7	65.8	57.0
XL 297	55.3	59.4*	55.5	56.7
MFA 2633	56.6	50.0	63.4	56.7
MFA 2622	53.1	59.0*	57.0	56.4
Green Valley Seed GV 66X	61.7	46.0	61.2	56.3
Syngenta SY 100	64.1	50.1	54.1	56.1
Syngenta SY 547	64.5*	48.3	55.4	56.1
Dyna-Gro 9862	53.6	52.7	61.3	55.9
Momentum 304	55.7	51.3	60.2	55.7
Lewis Hybrids 828	56.6	51.7	57.4	55.2
Frontier Magnus 1061	58.7	49.6	55.9	54.7
AgriMAXX EXP 1892	57.8	43.8	61.7	54.4
Vantage EXP 822	55.2	51.2	56.3	54.2
Lewis Hybrids 851	52.2	49.9	60.2	54.1
Lewis Hybrids 833	56.7	56.7	48.7	54.0
Green Valley Seed GV 658	52.0	44.8	64.5	53.8
Limagrain LCS Ammo	52.7	52.8	54.5	53.3
AgriMAXX 480	58.9	38.7	62.0	53.2

Pioneer 25R50	59.3	41.7	58.2	53.1
Krause K-8102 SRW	49.6	50.7	58.3	52.9
Green Valley Seed GV 628	56.6	49.1	51.7	52.5
MFA 2654	57.5	39.5	60.3	52.4
Dyna-Gro 9750	45.1	47.0	64.0	52.0
Limagrain L11549	61.4	41.3	51.5	51.4
Momentum 106	53.9	45.3	54.1	51.1
Go Wheat 2059	57.8	45.6	49.2	50.9
Vantage EXP 832	59.1	42.9	50.2	50.7
MOMEX 4943	58.9	41.2	51.8	50.6
AgriMAXX 463	58.6	43.7	48.2	50.2
Lewis Hybrids 829	50.9	47.9	50.9	49.9
Pioneer 25R77	45.1	47.7	55.7	49.5
Momentum 104	44.6	43.2	58.3	48.7
MFA 2542	54.6	40.0	50.6	48.4
XL 268	47.6	37.9	53.5	46.3
MEAN	59.3	50.7	60.1	56.7
LSD (10%)	5.5	5.1	6.0	3.9
CV (%)	8.7	9.5	9.5	8.9

**Highest yielding variety in test

*Yield not significantly less than the highest yielding variety in the test

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Southeast Region Crop Management Summary

The Wheat Test was conducted at three locations in the Southeast Region (Charleston, Fisk, and Portageville).

Characteristics of Wheat Test Locations – Southeast Region

Location	Soil Type	Soil Test				Precipitation			
		pH	OM %	P pounds/acre	K pounds/acre	March	April	May	Total
Charleston	Dundee silt loam	5.0	1.6	37	296	5.0	5.2	5.7	15.9
Fisk	Calhoun silt loam	6.1	2.1	99	291	3.9	5.4	4.8	14.1
Portageville	Askew silt loam	6.5	0.7	120	311	4.3	4.5	4.5	13.3

Crop Management Practices at the Wheat Test Locations - Southeast Region

Location	Dates		Fertilizer			Tillage	Herbicides		Fungicide/ Insecticides
	Planting	Harvest	N	P ₂ O ₅	K ₂ O		Pre	Post	
Charleston	Oct 18	June 11	123	46	150	Conv.	None	Harmony, 2,4-D	Propiconazole Lambda-Cy
Fisk	Oct 17	June 11	96	41	100	Conv.	None	Quelex	Quilt Xcel
Portageville	Oct 18	June 13	90	0	0	Conv.	None	None	None

2018 Missouri Soft Red Winter Wheat Southeast Region: Charleston

Brand/Variety	Yield (bu/ac)	2-year Mean (bu/ac)	Test Weight (lb/bu)	Lodging ~	Height (inches)
MOMEX 4943	91.1**		51.3	1	32
Armor Rage	90.7*		51.5	1	36
Pioneer 26R41	90.3*	86.6*	51.8	1	31
Armor ARW1726	89.5*		52.1	1	38
Dyna-Gro WX17775	89.1*		50.6	1	35
Pioneer 26R36	88.5*	85.4*	51.9	1	32
Go Wheat 2058	88.0*	88.4*	51.1	1	28
Syngenta SY Viper	87.8*	86.4*	51.6	1	34
Pioneer 26R59	87.7*	86.8*	50.4	1	33
Progeny PGX17-16	87.7*		52.1	1	36
AgriMAXX EXP 1884	87.6*		50.3	1	33
MFA 2633	87.2*		50.0	3	33
DXEX 18-2	87.1*		52.2	1	37
Limagrain L11719	86.4*		51.9	1	36
AgriMaxx 463	86.2*	84.8*	50.0	3	30
USG 3228	86.1*		50.0	1	33
Dyna-Gro 9522	86.0*	88.2*	51.9	1	33
Delta Grow 1000	85.9*	86.5*	49.1	1	36
MFA 2622	85.1*		52.8	2	30
Dyna-Gro WX18724	85.0*		52.2	1	35
MFA 2542	84.8*		53.9	2	33
Dyna-Gro 9750	84.7*	82.0	49.8	1	32
Dyna-Gro 9862	83.4*		50.5	3	31
Hilliard	83.4*		51.6	1	33
Syngenta SY 547	83.2*	79.5	51.4	2	36
Progeny #Warrior	83.2*		49.2	1	29
Croplan SRW 9606	82.9*		50.0	1	33
Pioneer 26R10	82.8*	87.6*	51.1	1	36
Armor ARW1719	82.8*		50.7	3	36
DXEX 18-1	82.7*		50.9	1	32
Dixie Brown	82.4*	89.3**	50.8	2	36
Armor Mayhem	82.1		50.2	2	36
Syngenta SY 100	82.0	80.6	50.2	2	31
Dixie Bentley	81.3	70.1	52.9	2	36
AgriMaxx 444	80.9	84.4*	51.3	1	34
Pioneer 26R45	80.1		49.6	1	32
Krause K-8102 SRW	79.8		52.5	1	31
Beck 721	79.7		50.7	1	36
AgriMaxx 415	79.6	83.2	52.0	1	33
Limagrain L11548	79.6		49.5	1	34
Dyna-Gro 9701	79.3	86.3*	49.9	2	37
Progeny #Bullet	79.2		49.9	1	36
Armor ARW1729	78.5		51.0	1	30
USG 3438	77.8	85.3*	49.4	1	30
Armor ARW1718	77.8		50.1	1	35
Limagrain L11551	77.8		51.6	2	30

AgriMAXX 473	77.6	84.1*	50.1	1	36
Limagrain L11538	76.8		49.8	2	36
MFA 2654	76.1		51.4	3	31
MOMEX 4861	75.9		49.9	1	35
Progeny #Boss	75.8	83.9*	50.1	1	30
OSU OCW04S405S-11F	75.6		51.0	1	36
Momentum 304	74.5	77.0	53.4	1	36
Delta Grow 3500	74.3	78.3	52.2	1	31
Progeny PGX16-7	73.9		50.2	2	33
Dyna-Gro 9811	73.8		51.1	1	32
Limagrain L11713	73.7		53.1	1	32
Dixie McAlister	73.5	78.7	49.7	1	28
Momentum 106	73.1	70.3	51.5	3	34
Armor ARW1727	73.1		51.5	3	30
Dixie Jones	72.3		51.9	1	30
AgriMAXX 475	71.5	80.0	51.6	1	34
VCIA VA12W-68	71.4		50.5	1	32
MFA 2449	71.3	80.3	51.2	1	31
Go Wheat 2059	70.8	75.0	49.9	3	33
Progeny PGX17-20	70.8		52.1	1	36
Syngenta Miskin	70.8		51.6	1	33
Krause K-7102 SRW	70.6	82.0	52.2	1	32
AgriMAXX EXP 1892	70.6		52.2	1	36
Limagrain LCS Ammo	69.8		50.0	2	29
OSU OCW03S580S-8WF	69.7		50.9	2	36
AGS 2055	69.1	76.8	49.2	1	34
USG 3329	68.9		51.8	2	32
USG 3118	67.6		51.3	4	31
Momentum 104	66.8	74.1	49.4	1	34
USG 3536	66.7	81.2	50.1	1	35
Croplan SRW 8550	66.2		50.1	2	35
Armor ARW1716	65.2		52.4	1	26
AgriMAXX 480	65.1		51.2	2	35
Armor ARW1778	55.0		52.5	1	28
MEAN	78.7	82.0	50.8	1	33
LSD (10%)	8.9	5.7	3.5		
CV (%)	10.7	9.5	6.6		

**Highest yielding variety in test

*Yield not significantly less than the highest yielding variety in the test

~Lodging rated on a 1 to 5 scale where 1 = fewer than 20% plants lodged and 5 = more than 80% plants lodged

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2018 Missouri Soft Red Winter Wheat Southeast Region: Fisk

Brand/Variety	Yield (bu/ac)	2-year Mean (bu/ac)	Test Weight (lb/bu)	Lodging ~	Height (inches)
AgriMAXX EXP 1884	82.5**		52.2	1	36
Syngenta SY Viper	81.8*	84.0	53.7	1	40
Pioneer 26R45	81.0*		52.1	1	37
Armor ARW1719	80.9*		51.8	1	37
DXEX 18-2	79.0*		55.0	1	36
AGS 2055	78.6*	91.7*	52.8	1	40
Delta Grow 3500	78.4*	83.3	54.2	1	35
Momentum 106	78.1*	69.4	53.0	1	36
Armor Mayhem	77.7*		53.5	1	39
Limagrain L11713	77.7*		56.1	1	35
VCIA VA12W-68	77.6*		54.4	1	35
Syngenta SY 547	77.0	79.2	53.4	1	40
Progeny PGX16-7	76.8		54.5	1	36
MFA 2654	76.6		54.3	1	36
MFA 2633	76.5		51.9	1	36
Dixie Brown	76.0	91.5*	53.4	1	40
Progeny #Bullet	75.9		53.5	1	37
Syngenta Miskin	75.9		54.0	1	36
AgriMaxx 463	75.7	84.3	52.6	1	34
Armor ARW1729	75.1		52.5	1	32
Dyna-Gro 9701	75.1	90.2*	53.6	1	41
MOMEX 4943	74.2		54.2	1	35
Armor Rage	73.9		51.9	1	33
USG 3228	73.8		52.3	1	31
AgriMAXX 473	73.7	90.4*	53.4	1	36
Progeny PGX17-16	73.6		53.9	1	37
USG 3536	73.4	92.5**	53.4	1	37
OSU OCW04S405S-11F	73.0		53.9	1	40
AgriMAXX 480	72.8		54.4	1	37
Armor ARW1726	72.7		53.7	1	36
Momentum 104	72.7	68.1	50.9	1	36
Dyna-Gro WX17775	72.1		52.0	1	36
Pioneer 26R10	72.1	89.1*	53.1	1	34
Dixie Bentley	72.1	82.0	54.7	1	40
AgriMAXX EXP 1892	71.9		54.6	1	32
Pioneer 26R59	71.9	83.9	52.3	1	31
Progeny #Warrior	71.6		52.7	1	30
Armor ARW1727	71.5		53.8	1	34
Delta Grow 1000	71.5	86.0	53.2	1	37
Dyna-Gro 9862	71.4		53.2	1	32
USG 3329	71.4		52.9	1	36
Dyna-Gro 9522	71.3	84.5	52.0	1	34
MFA 2449	71.1	90.3*	52.4	1	37
Pioneer 26R41	71.1	85.4	52.8	1	34
Beck 721	71.0		53.3	1	40
Progeny PGX17-20	70.8		54.1	1	34
USG 3118	70.8		54.1	1	34
Dyna-Gro 9750	70.7	81.3	52.1	1	36

Croplan SRW 8550	70.6		53.3	1	38
Croplan SRW 9606	70.6		49.5	1	33
DXEX 18-1	70.6		53.6	1	31
Go Wheat 2059	70.5	81.7	52.4	1	34
AgriMAXX 475	70.2	84.8	53.6	1	35
Limagrain L11719	69.8		55.4	1	33
Hilliard	69.5		52.9	1	38
Dixie Jones	69.4		53.7	1	35
Dyna-Gro WX18724	69.2		54.1	1	35
Limagrain LCS Ammo	69.2		54.4	1	35
AgriMaxx 444	69.2	88.4*	51.8	1	33
Armor ARW1716	69.1		54.5	1	32
Armor ARW1778	68.4		53.7	1	31
Pioneer 26R36	68.4	86.6*	53.3	1	35
Limagrain L11538	68.0		50.7	1	40
Krause K-7102 SRW	67.9	84.3	53.4	1	34
Go Wheat 2058	67.8	87.3*	53.2	1	33
Limagrain L11551	67.7		55.2	1	33
Dyna-Gro 9811	67.4		53.3	1	39
Dixie McAlister	67.3	85.3	51.3	1	31
Krause K-8102 SRW	67.1		54.0	1	33
Progeny #Boss	67.0	86.1	51.2	1	32
USG 3438	66.9	82.8	51.4	1	32
Syngenta SY 100	66.7	79.6	48.9	1	37
Limagrain L11548	65.8		50.2	1	36
Momentum 304	65.7	73.9	54.7	1	39
AgriMaxx 415	65.4	81.5	54.1	1	33
OSU OCW03S580S-8WF	64.6		53.8	1	35
Armor ARW1718	63.1		49.7	1	40
MFA 2622	63.0		53.6	1	31
MFA 2542	60.9		54.7	1	33
MOMEX 4861	60.4		50.3	1	36
MEAN	71.8	84.2	53.1	1	35
LSD (10%)	5.2	6.2	0.5		
CV (%)	7.0	10.5	1.0		

**Highest yielding variety in test

*Yield not significantly less than the highest yielding variety in the test

~Lodging rated on a 1 to 5 scale where 1 = fewer than 20% plants lodged and 5 = more than 80% plants lodged

2018 Missouri Soft Red Winter Wheat Southeast Region: Portageville

Brand/Variety	Yield (bu/ac)	2-Year Mean (bu/ac)	Test Weight (lb/bu)	Lodging ~	Height (inches)
Croplan SRW 8550	74.7**		51.1	1	36
Dixie Bentley	73.3*	72.3*	54.9	1	35
AgriMAXX 473	72.4*	76.7**	51.7	1	34
Beck 721	71.3*		51.8	1	37
Hilliard	70.2*		50.6	1	34
Dixie Brown	70.1*	74.4*	51.8	1	35
Limagrain L11538	69.6*		50.8	1	35
Dyna-Gro WX17775	69.3*		50.5	2	32
Delta Grow 1000	69.1*	69.9	50.4	1	36
Dyna-Gro 9701	68.9*	74.6*	51.8	1	36
AGS 2055	68.8*	72.4*	51.0	2	37
Progeny #Bullet	67.9		51.3	1	37
Armor Mayhem	67.5		51.2	1	35
AgriMAXX EXP 1884	66.9		49.6	2	33
Armor ARW1718	66.5		51.5	3	35
USG 3536	66.3	68.9	51.0	1	34
Pioneer 26R59	66.0	67.3	49.9	1	31
MOMEX 4861	65.7		50.3	2	33
Limagrain L11548	65.6		50.4	2	35
USG 3329	65.6		49.9	2	34
Dyna-Gro 9811	65.3		50.1	1	33
Go Wheat 2058	65.2	69.2	50.4	1	29
Progeny #Warrior	65.1		49.3	2	31
Delta Grow 3500	65.0	61.0	53.1	1	32
Armor ARW1729	64.9		51.1	3	30
Dyna-Gro 9862	64.6		51.0	2	31
Pioneer 26R45	63.0		50.1	3	34
Armor ARW1719	62.5		50.9	2	31
AgriMaxx 415	62.0	63.9	52.9	2	29
Limagrain L11713	62.0		53.0	2	30
AgriMaxx 444	61.6	64.0	50.2	1	32
Pioneer 26R41	61.6	65.8	50.6	1	31
DXEX 18-1	60.7		50.3	3	31
MFA 2633	60.3		50.7	2	31
Krause K-8102 SRW	60.0		53.4	2	31
Dixie McAlister	59.1	63.8	47.8	1	29
Pioneer 26R36	59.1	65.9	51.7	1	33
DXEX 18-2	59.0		54.3	3	34
Momentum 304	58.9	59.0	53.4	3	36
Dyna-Gro 9522	58.9	63.1	50.2	1	31
Dixie Jones	58.9		51.8	3	33
Go Wheat 2059	58.7	55.6	49.4	1	32
MFA 2449	58.6	64.7	50.8	2	33
Progeny PGX17-20	58.5		51.2	2	35
MFA 2542	58.4		53.6	2	33
Progeny PGX17-16	57.9		52.4	2	34
USG 3228	56.9		49.8	2	33
AgriMAXX EXP 1892	56.8		53.6	2	29
MFA 2622	56.8		53.7	2	29
Syngenta SY 547	56.4	56.0	51.4	3	32
Progeny #Boss	56.3	62.5	48.5	2	31
Armor Rage	56.3		50.7	2	31
OSU OCW03S580S-8WF	56.3		50.0	1	32
USG 3438	56.2	63.2	48.3	2	29

Armor ARW1727	56.2		51.0	1	34
Armor ARW1726	56.1		53.9	1	34
OSU OCW04S405S-11F	56.0		50.3	1	35
MOMEX 4943	55.8		50.8	2	33
AgriMaxx 463	55.4	59.0	49.3	2	28
Limagrain LCS Ammo	54.7		50.2	2	31
Syngenta SY Viper	54.6	63.2	50.5	2	34
Dyna-Gro WX18724	54.3		51.7	2	33
AgriMAXX 480	54.2		53.9	2	31
USG 3118	54.1		52.1	2	32
Progeny PGX16-7	53.9		50.7	2	31
Pioneer 26R10	53.6	53.0	49.2	1	33
Limagrain L11551	52.8		51.8	1	30
Armor ARW1716	52.3		53.3	3	31
Dyna-Gro 9750	52.0	56.8	48.3	1	30
Limagrain L11719	51.7		49.6	1	31
VCIA VA12W-68	51.3		49.4	1	30
MFA 2654	51.2		50.7	2	30
AgriMAXX 475	50.2	60.4	51.1	2	32
Croplan SRW 9606	48.6		47.6	1	31
Krause K-7102 SRW	48.4	51.9	51.1	2	29
Syngenta Miskin	46.9		50.5	1	34
Momentum 104	45.2	48.5	48.8	3	30
Momentum 106	42.1	40.3	49.8	3	32
Syngenta SY 100	41.5	43.3	45.6	2	30
Armor ARW1778	§		45.8	1	27
MEAN	59.0	62.3	50.8	2	32
LSD (10%)	6.3	5.0	1.0		
CV (%)	10.1	11.1	1.8		

**Highest yielding variety in test

*Yield not significantly less than the highest yielding variety in the test

-Lodging rated on a 1 to 5 scale where 1 = fewer than 20% plants lodged and 5 = more than 80% plants lodged

§ yield data not available because of sparse stand

2018 Soft Red Winter Wheat Southeast Region: Summary

Brand/Variety	Charleston (bu/ac)	Fisk (bu/ac)	Portageville (bu/ac)	Mean (bu/ac)
AgriMAXX EXP 1884	87.6*	82.5**	66.9	79.0**
Dyna-Gro WX17775	89.1*	72.1	69.3*	76.8*
Dixie Brown	82.4*	76.0	70.1*	76.2*
Armor Mayhem	82.1	77.7*	67.5	75.8*
Dixie Bentley	81.3	72.1	73.3*	75.6*
Delta Grow 1000	85.9*	71.5	69.1*	75.5*
Armor ARW1719	82.8*	80.9*	62.5	75.4*
Pioneer 26R59	87.7*	71.9	66.0	75.2*
DXEX 18-2	87.1*	79.0*	59.0	75.0*
Syngenta SY Viper	87.8*	81.8*	54.6	74.7*
Pioneer 26R45	80.1	81.0*	63.0	74.7*
MFA 2633	87.2*	76.5	60.3	74.7*
AgriMAXX 473	77.6	73.7	72.4*	74.6*
Dyna-Gro 9701	79.3	75.1	68.9*	74.4*
Hilliard	83.4*	69.5	70.2*	74.4*
Progeny #Bullet	79.2	75.9	67.9	74.3*
Pioneer 26R41	90.3*	71.1	61.6	74.3*
Beck 721	79.7	71.0	71.3*	74.0
MOMEX 4943	91.1**	74.2	55.8	73.7
Go Wheat 2058	88.0*	67.8	65.2	73.7
Armor Rage	90.7*	73.9	56.3	73.6
Progeny #Warrior	83.2*	71.6	65.1	73.3
Dyna-Gro 9862	83.4*	71.4	64.6	73.1
Progeny PGX17-16	87.7*	73.6	57.9	73.1
Armor ARW1729	78.5	75.1	64.9	72.8
Armor ARW1726	89.5*	72.7	56.1	72.8
Delta Grow 3500	74.3	78.4*	65.0	72.6
AgriMaxx 463	86.2*	75.7	55.4	72.4
USG 3228	86.1*	73.8	56.9	72.3
Syngenta SY 547	83.2*	77.0	56.4	72.2
AGS 2055	69.1	78.6*	68.8*	72.2
Dyna-Gro 9522	86.0*	71.3	58.9	72.1
Pioneer 26R36	88.5*	68.4	59.1	72.0
Limagrain L11538	76.8	68.0	69.6*	71.5
DXEX 18-1	82.7*	70.6	60.7	71.3
Limagrain L11713	73.7	77.7*	62.0	71.1
AgriMaxx 444	80.9	69.2	61.6	70.6
Croplan SRW 8550	66.2	70.6	74.7**	70.5
Limagrain L11548	79.6	65.8	65.6	70.3
Dyna-Gro WX18724	85.0*	69.2	54.3	69.5
Pioneer 26R10	82.8*	72.1	53.6	69.5
Limagrain L11719	86.4*	69.8	51.7	69.3
Armor ARW1718	77.8	63.1	66.5	69.1
Dyna-Gro 9750	84.7*	70.7	52.0	69.1
AgriMaxx 415	79.6	65.4	62.0	69.0
Krause K-8102 SRW	79.8	67.1	60.0	69.0
Dyna-Gro 9811	73.8	67.4	65.3	68.8
USG 3536	66.7	73.4	66.3	68.8
USG 3329	68.9	71.4	65.6	68.6

MFA 2622	85.1*	63.0	56.8	68.3
OSU OCW04S405S-11F	75.6	73.0	56.0	68.2
Progeny PGX16-7	73.9	76.8	53.9	68.2
MFA 2542	84.8*	60.9	58.4	68.0
MFA 2654	76.1	76.6	51.2	68.0
Croplan SRW 9606	82.9*	70.6	48.6	67.4
MOMEX 4861	75.9	60.4	65.7	67.3
MFA 2449	71.3	71.1	58.6	67.0
USG 3438	77.8	66.9	56.2	67.0
Armor ARW1727	73.1	71.5	56.2	66.9
Dixie Jones	72.3	69.4	58.9	66.9
VCIA VA12W-68	71.4	77.6*	51.3	66.8
Progeny PGX17-20	70.8	70.8	58.5	66.7
Go Wheat 2059	70.8	70.5	58.7	66.7
Dixie McAlister	73.5	67.3	59.1	66.6
AgriMAXX EXP 1892	70.6	71.9	56.8	66.4
Progeny #Boss	75.8	67.0	56.3	66.4
Momentum 304	74.5	65.7	58.9	66.4
Limagrain L11551	77.8	67.7	52.8	66.1
Limagrain LCS Ammo	69.8	69.2	54.7	64.6
Syngenta Miskin	70.8	75.9	46.9	64.5
Momentum 106	73.1	78.1*	42.1	64.4
USG 3118	67.6	70.8	54.1	64.2
AgriMAXX 480	65.1	72.8	54.2	64.0
AgriMAXX 475	71.5	70.2	50.2	64.0
OSU OCW03S580S-8WF	69.7	64.6	56.3	63.5
Syngenta SY 100	82.0	66.7	41.5	63.4
Krause K-7102 SRW	70.6	67.9	48.4	62.3
Armor ARW1716	65.2	69.1	52.3	62.2
Momentum 104	66.8	72.7	45.2	61.6
Armor ARW1778	55.0	68.4	§	§
MEAN	78.7	71.8	59.0	69.8
LSD (10%)	8.9	6.2	6.3	4.9
CV (%)	10.7	7.0	10.1	9.2

**Highest yielding variety in test

*Yield not significantly less than the highest yielding variety in the test

§ yield data not available because of sparse stand at Portageville

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Southwest Region Crop Management Summary

The wheat test was conducted at two locations in the Southwest Region.

Characteristics of Wheat Test Locations – Southwest Region

Location	Soil Type	Soil Test				Precipitation			
		pH	OM %	P pounds/acre	K pounds/acre	March	April	May	Total
Garden City	Haig silt loam	5.4	2.3	48	341	1.5	1.28	4.97	7.75
Lamar	Parsons silt loam	6.5	2.6	58	231	2.17	1.9	4.76	8.83

Crop Management Practices at the Wheat Test Locations – Southwest Region

Location	Dates		Fertilizer				Herbicides		Fungicide/ Insecticides
	Planting	Harvest	N	P ₂ O ₅	K ₂ O	Tillage	Pre	Post	
Garden City	Nov 8	July 5	100	80	50	No Till	Harmony	None	None
Lamar	Oct 26	June 26	100	40	90	Conv.	Harmony	None	None

2018 Missouri Soft Red Winter Wheat Southwest Region: Garden City

Brand/Variety	Yield (bu/ac)	2-year Mean (bu/ac)	Test Weight (lb/bu)	Lodging ~	Height (inches)
MFA 2449	60.9**	74.7*	55.3	1	23
Limagrain L11538	59.3*		53.8	1	22
Pioneer 25R61	58.6*	67.8	54.6	1	24
MFA 2633	58.5*		53.5	1	24
Dyna-Gro 9862	58.4*		52.3	1	21
AgriMAXX 475	57.7*	74.8**	55.3	1	22
Beck 726	57.1		52.8	1	25
Limagrain L11719	56.8		54.5	1	21
Momentum 106	56.7	56.8	55.2	1	24
AgriMaxx 444	56.5	58.9	54.4	1	24
Dyna-Gro 9522	56.1	72.6*	53.9	1	22
Krause K-7102 SRW	55.4	67.2	55.7	1	21
Lewis Hybrids 829	54.9		54.5	1	26
VCIA VA12W-68	54.7		54.1	1	22
AgriMaxx 415	54.6	48.7	56.7	1	23
AgriMAXX EXP 1892	54.4		56.6	1	22
Dyna-Gro WX17775	54.3		53.2	1	26
AgriMAXX 473	54.0	72.1*	54.6	1	26
MOMEX 4861	54.0		52.4	1	22
Dyna-Gro 9811	53.7		55.6	1	22
Lewis Hybrids 828	53.6		52.5	1	24
Beck 721	53.5		55.7	1	26
Krause K-8102 SRW	53.5		56.8	1	20
Pioneer 25R77	53.4	65.3	55.2	1	25
AGS 2055	53.3	60.9	55.1	1	26
Dyna-Gro WX18724	52.7		56.5	1	23
Go Wheat 2058	51.9		55.4	1	21
OSU OCW03S580S-8WF	51.3		55.5	1	23
MOMEX 4943	50.8		53.3	1	25
Limagrain LCS Ammo	50.7		52.9	1	21
Lewis Hybrids 833	50.1		55.2	1	24
Pioneer 25R50	50.0	61.3	55.0	1	21
AgriMAXX EXP 1884	49.8		52.9	1	24
Dyna-Gro 9701	49.7	51.4	55.2	1	26
Go Wheat 2059	49.6	64.5	54.4	1	24
Momentum 104	49.1	50.3	54.3	1	23
Pioneer 25R74	49.0	54.6	54.8	1	21
Pioneer 25R40	47.6	68.7	55.2	1	21
MFA 2622	47.5		56.4	1	20
Hilliard	47.1		55.3	1	23
Lewis Hybrids 851	46.3		53.9	1	23
Dyna-Gro 9750	45.9	56.3	53.6	1	24
OSU OCW04S405S-11F	44.7		54.8	1	26
Lewis Hybrids 839	44.1		51.7	1	26
Momentum 304	43.9	61.4	56.1	1	24
AgriMaxx 463	43.7	56.2	52.7	1	23

MFA 2654	43.2		53.7	1	21
MFA 2542	42.0		55.4	1	23
MEAN	52.2	62.2	54.5	1	23
LSD (10%)	3.7	5.3	0.9		
CV (%)	6.7	12.2	1.6		

**Highest yielding variety in test

*Yield not significantly less than the highest yielding variety in the test

~Lodging rated on a 1 to 5 scale where 1 = fewer than 20% plants lodged and 5 = more than 80% plants lodged

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2018 Missouri Soft Red Winter Wheat Southwest Region: Lamar

Brand/Variety	Yield (bu/ac)	2-year Mean (bu/ac)	Test Weight (lb/bu)	Lodging ~	Height (inches)
Beck 726	58.6**		49.1	1	29
Pioneer 25R74	57.7*	65.5	49.4	1	25
Pioneer 25R40	56.3*	63.9	49.3	1	25
Dyna-Gro WX17775	56.1*		48.6	1	30
Limagrain LCS Ammo	55.8*		49.3	1	25
Go Wheat 2058	55.6*		52.2	1	25
AGS 2055	55.1*	66.7*	50.4	1	31
OSU OCW03S580S-8WF	54.7*		52.0	1	27
AgriMaxx 444	54.2*	70.4**	51.3	1	28
Dyna-Gro WX18724	54.2*		52.2	1	27
AgriMAXX EXP 1884	53.8*		49.1	1	28
MOMEX 4943	53.6*		49.6	1	29
Hilliard	53.1		52.4	1	27
Lewis Hybrids 839	52.9		52.5	1	30
Limagrain L11538	51.9		50.3	1	26
MFA 2449	51.7	64.8	51.0	1	27
MFA 2633	51.5		46.5	1	28
AgriMaxx 415	51.2	63.7	53.5	1	27
Beck 721	50.9		51.9	1	30
Dyna-Gro 9811	49.6		50.5	1	26
Dyna-Gro 9522	49.3	67.7*	50.9	1	26
Pioneer 25R77	48.6	55.2	53.5	1	29
Lewis Hybrids 833	48.4		52.0	1	28
Krause K-7102 SRW	47.8	61.6	52.9	1	25
Krause K-8102 SRW	47.7		53.1	1	24
AgriMaxx 463	47.6	63.1	52.2	1	27
Momentum 304	46.9	58.2	54.6	1	28
Dyna-Gro 9701	46.7	64.7	51.8	1	31
AgriMAXX 473	46.6	62.3	52.0	1	30
Lewis Hybrids 851	46.6		51.8	1	27
MOMEX 4861	46.1		50.4	1	26
VCIA VA12W-68	46.1		53.4	1	26
Limagrain L11719	45.5		49.2	1	25
Lewis Hybrids 828	45.0		47.5	1	28
Pioneer 25R50	44.5	60.9	50.7	1	25
AgriMAXX EXP 1892	44.5		52.9	1	26
Pioneer 25R61	43.1	63.4	49.9	1	28
OSU OCW04S405S-11F	42.7		49.4	1	31
AgriMAXX 475	42.6	64.8	52.6	1	26
Lewis Hybrids 829	42.3		54.8	1	30
Momentum 106	42.2	42.7	52.9	1	28
Dyna-Gro 9750	40.0	50.9	50.8	1	28
MFA 2622	39.6		49.4	1	24
Dyna-Gro 9862	38.8		49.8	1	25
Momentum 104	37.7	53.2	50.9	1	27
MFA 2654	37.6		52.0	1	25

Go Wheat 2059	36.2	53.8	50.0	1	28
MFA 2542	33.4		55.1	1	27
MEAN	48.3	60.9	51.2	1	27
LSD (10%)	5.1	4.7	1.5		
CV (%)	9.9	11.3	2.8		

**Highest yielding variety in test

*Yield not significantly less than the highest yielding variety in the test

~Lodging rated on a 1 to 5 scale where 1 = fewer than 20% plants lodged and 5 = more than 80% plants lodged

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2018 Missouri Soft Red Winter Wheat Southwest Region: Summary

Brand/Variety	Garden City (bu/ac)	Lamar (bu/ac)	Mean (bu/ac)
Beck 726	57.1	58.6**	57.9**
MFA 2449	60.9**	51.7	56.3*
Limagrain L11538	59.3*	51.9	55.6*
AgriMaxx 444	56.5	54.2*	55.4*
Dyna-Gro WX17775	54.3	56.1*	55.2*
MFA 2633	58.5*	51.5	55.0*
AGS 2055	53.3	55.1*	54.2*
Go Wheat 2058	51.9	55.6*	53.8
Dyna-Gro WX18724	52.7	54.2*	53.5
Pioneer 25R74	49.0	57.7*	53.4
Limagrain LCS Ammo	50.7	55.8*	53.3
OSU OCW03S580S-8WF	51.3	54.7*	53.0
AgriMaxx 415	54.6	51.2	52.9
Dyna-Gro 9522	56.1	49.3	52.7
Beck 721	53.5	50.9	52.2
MOMEX 4943	50.8	53.6*	52.2
Pioneer 25R40	47.6	56.3*	52.0
AgriMAXX EXP 1884	49.8	53.8*	51.8
Dyna-Gro 9811	53.7	49.6	51.7
Krause K-7102 SRW	55.4	47.8	51.6
Limagrain L11719	56.8	45.5	51.2
Pioneer 25R77	53.4	48.6	51.0
Pioneer 25R61	58.6*	43.1	50.9
Krause K-8102 SRW	53.5	47.7	50.6
VCIA VA12W-68	54.7	46.1	50.4
AgriMAXX 473	54.0	46.6	50.3
AgriMAXX 475	57.7*	42.6	50.2
Hilliard	47.1	53.1	50.1
MOMEX 4861	54.0	46.1	50.1
AgriMAXX EXP 1892	54.4	44.5	49.5
Momentum 106	56.7	42.2	49.5
Lewis Hybrids 828	53.6	45.0	49.3
Lewis Hybrids 833	50.1	48.4	49.3
Dyna-Gro 9862	58.4*	38.8	48.6
Lewis Hybrids 829	54.9	42.3	48.6
Lewis Hybrids 839	44.1	52.9	48.5
Dyna-Gro 9701	49.7	46.7	48.2
Pioneer 25R50	50.0	44.5	47.3
Lewis Hybrids 851	46.3	46.6	46.5
AgriMaxx 463	43.7	47.6	45.7
Momentum 304	43.9	46.9	45.4

OSU OCW04S405S-11F	44.7	42.7	43.7
MFA 2622	47.5	39.6	43.6
Momentum 104	49.1	37.7	43.4
Dyna-Gro 9750	45.9	40.0	43.0
Go Wheat 2059	49.6	36.2	42.9
MFA 2654	43.2	37.6	40.4
MFA 2542	42.0	33.4	37.7
MEAN	52.2	48.3	50.2
LSD (10%)	3.7	5.1	3.8
CV (%)	6.7	9.9	7.9

**Highest yielding variety in test

*Yield not significantly less than the highest yielding variety in the test

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Characteristics of Soft Red Winter Wheat Varieties

All information in this table was provided by seed companies. The MU Variety Testing Program does not guarantee accuracy. Please contact seed dealers for latest information.

Entry Name	Maturity ¹	Head type ²	Winter hardy ³	Hessian fly ⁴	FHB ⁵	Stem rust ⁶	Leaf rust ⁷	BYDV ⁸	Seed treatments ⁹
AgriMAXX 415	M	A	E	S	2	3	2	2	13
AgriMAXX 444	M	A	E	S	1	3	2	2	13
AgriMAXX 463	E	U	E	S	1	1	1	N/I	13
AgriMAXX 473	E	A	E	R	1	N/I	2	2	13
AgriMAXX 475	M	A	E	R	1	N/I	3	2	13
AgriMAXX 480	E	A	E	S	4	4	1	1	13
AgriMAXX 486	M	A	E	R	1	N/I	4	2	13
AgriMAXX EXP 1884	E	A	E	R	2	N/I	3	2	13
AgriMAXX EXP 1892	E	A	E	R	3	N/I	2	1	13
AGS 2055	M	A	E	S	7	2	2	5	2, 17
Armor ARW1716	E	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I
Armor ARW1718	M	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I
Armor ARW1719	ME	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I
Armor ARW1726	M	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I
Armor ARW1727	M	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I
Armor ARW1729	ML	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I
Armor ARW1778	E	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I
Armor Mayhem	ME	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I
Armor Rage	M	N/I	N/I	S	N/I	N/I	N/I	N/I	N/I
Beck 721	ME	A	E	R	1	3	2	3	6
Beck 726	M	A	E	R	1	4	3	3	6
Croplan SRW 8550	M	A	E	R	2	N/I	3	3	12, 18
Croplan SRW 9606	M	A	E	R	3	N/I	4	4	12, 18
Delta Grow 1000	M	A	G	N/I	2	2	2	3	5
Delta Grow 3500	E	A	G	N/I	4	2	2	4	5
Dixie Bentley	M	A	E	N/I	3	2	2	4	3, 16
Dixie Brown	M	A	E	R	2	2	2	2	3, 16
Dixie Jones	M	A	E	S	2	3	2	2	3, 16
Dixie McAlister	M	A	E	N/I	N/I	N/I	2	3	3, 16
DXEX 18-1	M	U	E	R	2	3	4	3	3, 16
DXEX 18-2	M	A	E	R	N/I	3	3	3	3, 16
Dyna-Gro 9522	M	A	E	S	4	3	3	3	8, 10
Dyna-Gro 9701	M	A	E	R	2	3	2	3	8, 10
Dyna-Gro 9750	E	U	G	S	1	2	2	3	8, 10
Dyna-Gro 9811	M	A	E	I	5	1	1	3	8, 10
Dyna-Gro 9862	M	U	E	R	2	3	3	3	8, 10
Dyna-Gro WX17775	M	A	E	R	2	4	3	3	8, 10
Dyna-Gro WX18724	M	A	E	R	2	4	3	3	8, 10
Frontier Magnus 1061	E	N/I	E	S	2	2	2	3	2, 16
Go Wheat 2058	ME	A	E	S	3	2	4	5	2, 17
Go Wheat 2059	ME	U	E	S	2	2	2	5	2, 17
Green Valley Seed GV 628	E	U	E	S	3	3	3	3	2, 4
Green Valley Seed GV 658	M	A	E	S	2	2	3	3	2, 4
Green Valley Seed GV 65X	M	A	G	S	3	3	4	3	2, 4
Green Valley Seed GV 668	M	A	E	S	3	3	2	3	2, 4
Green Valley Seed GV 66X	M	A	G	S	3	3	2	3	2, 4
Hilliard	M	A	N/I	N/I	2	N/I	1	2	14, 15
Krause K-7102 SRW	ME	A	E	R	1	N/I	2	1	2, 16
Krause K-8102 SRW	E	A	E	R	2	N/I	2	1	2, 16
Lewis Hybrids 828	E	U	E	N/I	4	N/I	N/I	N/I	3, 17
Lewis Hybrids 829	E	U	E	N/I	4	N/I	N/I	N/I	3, 17
Lewis Hybrids 833	E	U	E	N/I	N/I	N/I	N/I	N/I	3, 17
Lewis Hybrids 839	M	U	E	N/I	4	N/I	N/I	N/I	3, 17
Lewis Hybrids 851	L	U	E	N/I	1	N/I	N/I	N/I	3, 17
Limagrain L11538	M	A	E	I	2	N/I	2	4	7, 9
Limagrain L11548	M	A	E	I	2	N/I	2	3	1, 2
Limagrain L11549	E	U	E	I	2	N/I	2	2	10, 11
Limagrain L11551	E	A	E	I	2	N/I	1	3	2, 17
Limagrain L11713	E	A	E	I	2	N/I	1	4	10, 11
Limagrain L11719	M	U	E	I	2	N/I	3	3	10, 11
Limagrain LCS Ammo	ME	A	E	I	2	N/I	1	3	2, 17
MFA 2449	M	A	E	I	3	3	4	4	3, 16
MFA 2542	E	U	G	S	5	5	4	5	3, 16
MFA 2622	E	A	E	R	3	4	3	3	3, 16
MFA 2633	E	A	E	R	2	4	3	3	3, 16
MFA 2654	E	U	E	S	2	2	6	2	3, 16
Momentum 104	E	U	G	N/I	1	3	3	3	3, 16

Momentum 106	E	U	G	N/I	3	5	5	3	3, 16
Momentum 304	M	U	G	N/I	3	3	3	3	3, 16
MOMEX 4861	M	A	G	N/I	1	1	2	3	3, 16
MOMEX 4943	E	U	G	N/I	1	1	1	N/I	3, 16
OSU OCV03S580S-8WF	M	A	G	I	7	5	3	5	2, 17
OSU OCV04S405S-11F	M	A	G	I	7	4	3	5	2, 17
Pioneer 25R40	M	A	G	S	6	N/I	5	N/I	2, 5, 16
Pioneer 25R50	M	A	E	R	3	N/I	3	N/I	2, 5, 16
Pioneer 25R61	M	A	E	S	3	N/I	3	N/I	2, 5, 16
Pioneer 25R74	E	A	E	R	4	N/I	5	N/I	2, 5, 16
Pioneer 25R77	E	A	E	R	6	N/I	7	N/I	2, 5, 16
Pioneer 26R10	L	A	G	R	5	N/I	3	N/I	5, 9
Pioneer 26R36	E	A	G	I	N/I	N/I	7	N/I	5, 9
Pioneer 26R41	M	A	G	R	6	N/I	3	N/I	5, 9
Pioneer 26R45	M	U	G	R	N/I	N/I	7	N/I	5, 9
Pioneer 26R59	M	U	G	S	N/I	N/I	6	N/I	5, 9
Progeny #Boss	ME	A	E	N/I	2	2	1	2	7, 9
Progeny #Bullet	ME	A	E	R	1	1	2	2	7, 9
Progeny #Warrior	ME	U	E	R	N/I	1	3	N/I	7, 9
Progeny PGX16-7	M	A	E	N/I	N/I	N/I	N/I	N/I	7, 9
Progeny PGX17-16	M	A	E	N/I	N/I	N/I	N/I	N/I	7, 9
Progeny PGX17-20	M	A	E	N/I	N/I	N/I	N/I	N/I	7, 9
Syngenta SY 100	L	U	E	N/I	3	N/I	6	N/I	3, 16
Syngenta SY 547	E	A	G	N/I	3	N/I	3	N/I	3, 16
Syngenta SY Viper	E	U	G	S	5	N/I	6	N/I	3, 7
USG 3118	E	A	G	R	5	8	1	3	2, 17
USG 3228	E	U	E	S	1	2	3	2	2, 17
USG 3329	ME	A	E	S	2	4	4	3	2, 17
USG 3438	ME	A	E	S	4	8	3	9	2, 17
USG 3536	ME	A	G	R	2	8	3	3	2, 17
VCIA VA12W-68	M	A	N/I	N/I	1	N/I	2	1	14, 15
Weber Vantage EXP 822	E	U	E	N/I	2	2	3	3	2, 16
Weber Vantage EXP 832	E	U	E	N/I	2	2	3	3	2, 16
XL 268	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I
XL 297	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I
XL 348	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I	N/I

1: E = Early, M = Medium, L = Late

2: A = Awnead, U = Unawnead

3: E = Excellent, G = Good, F = Fair; N/I = company did not provide information

4: S = Susceptible, R = Resistant, I = Intermediate; N/I = company did not provide information

5 FHB = fusarium head blight; 1 to 9 rating, 1 = excellent 9 = poor; N/I = company did not provide information

6: 1 to 9 rating, 1 = excellent 9 = poor; N/I = company did not provide information

7: 1 to 9 rating, 1 = excellent 9 = poor; N/I = company did not provide information

8 BYDV = barley yellow dwarf virus; 1 to 9 rating, 1 = excellent 9 = poor; N/I = company did not provide information

9: 1=Cereus Trio, 2=Cruiser, 3=CruiserMax, 4=Dividend, 5=Dividend Extreme, 6=Escalate, 7=Evergol,

9: (contd) 8=Foothold Virock, 9=Gaucho, 10=Imidacloprid, 11=Metalaxyl, 12=Nitro Shield IV, 13=Prime ST,

9: (contd) 14=Provoke ST, 15=Raxil MD Pro, 16=Vibrance, 17=Vibrance Extreme, 18=Warden Cereals II

Sources of Varieties Entered in the Soft Red Winter Wheat Test

Brand	Company and Address	Phone	URL
AgriMaxx	AgriMaxx Wheat Co. 7167 Highbanks Road Mascoutah, IL 62258	855-629-9432	agrimaxxwheat.com
AGS	Stratton Seed Co. 1530 HWY 79 South Stuttgart, AR 72160	800-264-4433	gostrattonseed.com
Armor	Armor Seed, LLC 183 Pennsylvania Ave Waldenburg, AR 72475	462-719-3157	armorseed.com
Beck	Beck's Hybrids 6767 E. 276 th Street Atlanta, IN 46031	800-937-2325	beckshybrids.com
Croplan	Winfield United 1080 Cnty Rd F West Shoreview, MN 55126		winfieldunited.com
Delta Grow	Delta Grow Seed Co. 220 NW 2 nd Street England, AR 72046	800-530-7933	deltagrow.com
Dixie	Cache River Valley Seed HWY 226, PO Box 10 Cash, AR 72421	800-477-5427	Crvseed.com
Dyna-Gro	Dyna-Gro Seed 17410 Pike 291 Bowling Green, MO 63334	573-324-2423	dyna-groseed.com
Frontier	Frontier Seed PO Box 781 Concordia, MO		newfrontierseedgenetics.com
GoWheat	Stratton Seed Co. 1530 HWY 79 South Stuttgart, AR 72160	800-264-4433	gostrattonseed.com
Green Valley	Green Valley Seed 121 W College Street Kahoka, MO 63445	800-748-7943	gvseed.com
Hilliard	Missouri Crop Improvement Columbia, MO 65201	573-449-0586	moseed.org
Krause	Krause Seeds, Inc. PO Box 688 Concordia, MO 64020	800-622-1150	
Lewis	Lewis Hybrids 530 W Maple Ave Ursa, IL 62376	217-964-2131	lewishybrids.com
Limagrain	Limagrain Cereal Seeds 257 E. Hail Bushnell, IL 61422	309-569-0008	limagraincerealseeds.com

MFA	MFA Incorporated 201 Ray Young Drive Columbia, MO 65201	573-876-5363	mfaseed.com
Momentum	Missouri Crop Improvement Association 3211 Lemone Industrial Blvd Columbia, MO 65201	573-449-0586	moseed.org
MOMEX	Missouri Crop Improvement Association 3211 Lemone Industrial Blvd Columbia, MO 65201	573-449-0586	moseed.org
Oklahoma State University	Oklahoma State University 371 Ag Hall Stillwater, OK 74078	405-744-9580	
Pioneer	DuPont Pioneer 425 Abbeydale Way Columbia, SC 29229	803-308-1003	pioneer.com
Pioneer	DuPont Pioneer PO Box 1000 Johnston, IA 50121	515-535-3200	pioneer.com
Progeny	Progeny Ag Products 1529 HWY 193 Wynne, AR 72396	870-238-2079	progenyag.com
Syngenta SY	Syngenta – Agripro 14031 Trestle Rd Highland IL 62249	815-953-2041	agriprowheat.com
USG	UniSouth Genetics, Inc. 3205 C HWY 46 South Dickson, TN 37055	800-505-3133	usgseed.com
VA (Hilliard)	Virginia Crop Improvement Association Mechanicsville, VA 23116	804-746-4884	virginiacrop.org
Vantage	Weber Seeds, Inc 29761 E HWY 41 Marshall, MO 65340	660-866-9998	weberseeds.com
XL	Service and Supply Coop 22 Coop Avbe New Florence, MO 63363	573-835-2485	ssco-op.com
