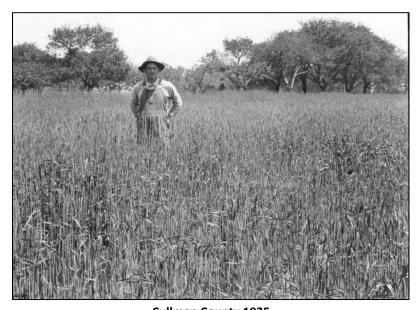
Performance of Wheat Varieties In Alabama, 2013-2014



Cullman County 1925
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Performance of Wheat Varieties in Alabama, 2014

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"The mission of the Alabama Variety Testing Program is to provide research-based, unbiased results on the performance of various crop hybrids, cultivars, and varieties to the agricultural community in our state. We are intent on conducting these trials in a manner that will result in maximum biological yield through methods common to the top-producing farms in Alabama. We are committed to providing this information in a rapid, timely manner for its use during the decision-making process. The success of the program rests upon our ability to help Alabama producers provide a safe, dependable source of food and fiber for all families as well as economic sustainability for theirs."

Methods

Planting dates for all trials in 2013-14 are shown in Table 1. Variety treatments were arranged in a randomized complete block experimental design with 3 replications. Fungicide treated seeds were drill planted to attain a population equivalent to local production practices. All tests were fertilized according to soil test recommendations, plus 20 lbs/acre N at planting. A top dressing of 60 lbs/acre N was made in late February or early March, just prior to "jointing".

Table 1. Wheat variety trial location, soil texture, planting date, and harvest date.				
Region	Ala. Exp. Station location and soil texture		3-2014 	
		Date planted	Date harvested	
North	Sand Mountain Research & Ext. Center Wynnville fine sandy loam	October 22	June 17	
	Tennessee Valley Research & Ext. Center Decatur silt loam	November 5	June 25	
Central	Black Belt Research & Ext. Center Vaiden clay	October 15	Not harvested	
	Plant Breeding Unit, E.V. Smith Res. Ctr. Cahaba fine sandy loam	October 30	June 16	
	Prattville Agricultural Research Unit Lucedale fine sandy loam	October 10	June 18	
Southern	Brewton Agricultural Research Unit Benndale fine sandy loam	November 20	June 12	
	Gulf Coast Research & Ext. Center Malbis fine sandy loam	November 12	May 28	
	Wiregrass Research & Ext. Center Dothan fine sandy loam	November 6	May 30	

In 2013-2014, wheat trials were not treated with foliar fungicides which allowed disease ratings to be recorded. These ratings reflect the natural resistance that each variety has to specific diseases. (Note: To obtain maximum biological yield, fungicide treatment for disease control will be included in the 2014-2015 protocols.) At maturity, grain was harvested using a small plot combine, cleaned, and weighed. Moisture and bushel test weight were also recorded unless otherwise noted.

2014 Wheat Variety Performance- Yield

Northern Region

- Table 2. Performance of wheat varieties in North Alabama, Tennessee Valley REC, Belle Mina
- Table 3. Performance of wheat varieties in Northeast Alabama, Sand Mountain REC Crossville

Central Region

- Table 4. Performance of wheat varieties in Central Alabama, Black Belt REC, Marion Junction

 Note: This location was not harvested in 2014; thus, there is no Table 4 in this publication.
- Table 5. Performance of wheat varieties in Central Alabama, Prattville ARU, Prattville
- Table 6. Performance of wheat varieties in Central Alabama, Plant Breeding Unit, Tallassee

Southern Region

- Table 7. Performance of wheat varieties in Southeast Alabama, Wiregrass REC, Headland
- Table 8. Performance of wheat varieties in South Alabama, Brewton ARU, Brewton
- Table 9. Performance of wheat varieties in Southwest Alabama, Gulf Coast REC, Fairhope

Wheat Variety Performance over Multiple Years (2012 to 2014)

Northern Region

- Table 10. Wheat variety performance over multiple years in North Alabama, Tennessee Valley REC, Belle Mina
- Table 11. Wheat variety performance over multiple years in Northeast Alabama, Sand Mountain REC Crossville

Central Region

- Table 12. Wheat variety performance over multiple years in Central Alabama, Black Belt REC, Marion Junction *Note: This location was not harvested in 2014; thus, there is no Table 12 in this publication.*
- Table 13. Wheat variety performance over multiple years in Central Alabama, Prattville ARU, Prattville
- Table 14. Wheat variety performance over multiple years in Central Alabama, Plant Breeding Unit, Tallassee

Southern Region

- Table 15. Wheat variety performance over multiple years in Southeast Alabama, Wiregrass REC, Headland
- Table 16. Wheat variety performance over multiple years in South Alabama, Brewton ARU, Brewton
- Table 17. Wheat variety performance over multiple years in Southwest Alabama, Gulf Coast REC, Fairhope

Wheat Response to Foliar Diseases

- Table 18. Average levels of disease in wheat varieties, North Alabama locations combined
- Table 19. Average levels of disease in wheat varieties, Central Alabama locations combined
- Table 20. Average levels of disease in wheat varieties, South Alabama locations combined

Disease ratings for the 2013-2014 variety trials for wheat and oats are summarized by region in Tables 18, 19, and 20. Diseases were rated by members of the Dept. of Entomology and Plant Pathology; specifically by Dr. K. L. Bowen, Professor of Plant Pathology, with help from Andrea Nelson. Rust diseases are rated on a severity scale ranging from 0 to 100, indicating the proportion of the flag leaves that are affected across the plot. All other diseases are rated on a scale of 0 to 9, where 0 indicates no disease, 4-5 reflects about half of the plants are moderately affected, and 9 = severe disease affecting all plants in plot. Diseases were rated as close to soft dough as could be scheduled.

Discussion on Disease Response

2014 was an interesting year for wheat diseases across Alabama. Unlike previous years, rust diseases were minimal; only leaf rust was found at any location and this disease reached moderate levels of intensity on some varieties only at Prattville. Powdery mildew was more readily found in 2014 than in previous years and was moderately severe on specific varieties at Headland and Crossville. Powdery mildew was not found at central Alabama locations. Increases in powdery mildew in recent years are likely attributable to both the cool, wet weather during wheat growth in late winter and early spring as well as increased virulence in the fungal pathogen population, such that some resistance genes have lost their effectiveness. Leaf and glume blotches were found on all varieties at all locations and were severe at northern locations. At all locations, leaf and glume blotches were more severe than in 2013. Scab (Fusarium head blight) was also found at higher levels than in previous years. On a few varieties, particularly at Crossville, scab intensity was severe. Varieties with the greatest intensity of scab at Crossville were flowering during a rainy period, April 22-26. Scab also developed late at Fairhope on the earlier maturing varieties. Higher scab intensity throughout the state in 2014 can be attributed to the wet weather that occurred through the spring season. (This report does not include observations on wheat at Marion Junction.)

Table 2. Performance of Wheat Varieties in North Alabama, 2013-2014.

Tennessee Valley Research and Extension Center, Belle Mina AL*

Variety	Test weight	Yield	Grain yield
	lbs/bushel	rank	bu/acre
Dyna Gro 9053	52.7	1	85
USG 3404	54.8	2	82
Dixie DXEX 13-3	54.4	3	78
Progeny 357	51.8	4	77
Terral TV 8861	54.6	5	77
Terral TV 8848	54.2	6	77
Dixie McAlister	53.3	7	77
USG 3201	56.4	8	76
Terral TV 8535	53.7	9	76
Progeny PGX 13-1	53.1	10	76
USG 3251	55.0	11	75
USG 3833	52.9	12	75
GA 04434-11E44	54.8	13	74
GA 041052-11E51	54.2	14	74
Terral TV 8525	55.6	15	73
Progeny 870	54.1	16	73
VA10W-123	55.2	17	73
Baldwin	56.0	18	73
USG 3438	53.2	19	73
Dixie DXEX 14-1	51.7	20	73
Terral LA 754	53.4	21	72
SY Harrison	54.0	22	72
Dixie Extreme	54.0	23	70
GA 041293-11E54	52.9	24	69
AGS 2038	56.4	25	69
L-Brand 343	52.9	26	69
GA 041293-11LE37	53.6	27	69
AGS 2035	54.8	28	68
AGS 2040	54.9	29	65
Jamestown	56.3	30	63
Progeny 185	55.2	31	63
Terral LA 841	51.2	32	60
Terral LA 821	51.1	33	60
AGS 2026	53.0	34	55
Oglethorpe	52.9	35	54
Progeny 125	53.6	36	54
Oakes	56.7	37	53
Trial mean			71
L.S.D. (0.10)**			11
C.V. (%)			11.4
Pr>F			0.0001

^{*}Varieties in italics are experimental lines that are not currently available for sale.

^{**}L.S.D, Least significant difference at the 10% level; C.V., coefficient of variation.

Sand Mountain Research and Extension Center, Crossville AL*

Variety	Test weight	Yield	Grain yield
	lbs/bushel	rank	bu/acre
Terral TV 8848	57.0	1	105
SY Harrison	54.7	2	102
USG 3251	56.1	3	101
Dixie Extreme	55.4	4	101
Oakes	59.8	5	100
Dixie McAlister	53.9	6	99
Terral TV 8861	56.0	7	98
GA 041052-11E51	55.8	8	98
GA 04434-11E44	54.6	9	98
Progeny 870	53.3	10	97
Progeny PGX 13-1	54.3	11	94
Dyna Gro 9053	52.1	12	94
Terral TV 8535	52.8	13	94
USG 3404	53.9	14	94
VA10W-123	55.2	15	93
Dixie DXEX 14-1	53.4	16	93
USG 3833	52.8	17	92
Progeny 357	53.0	18	92
GA 041293-11E54	56.0	19	91
Dixie DXEX 13-3	55.1	20	90
Progeny 125	55.3	21	90
Terral TV 8525	55.7	22	90
Progeny 185	56.4	23	89
USG 3201	57.0	24	89
Terral LA 754	54.2	25	88
L-Brand 343	55.2	26	87
AGS 2026	55.2	27	87
Oglethorpe	54.6	28	85
Baldwin	54.9	29	85
Jamestown	58.5	30	85
USG 3438	52.1	31	85
AGS 2040	56.5	32	82
AGS 2038	53.4	33	80
Terral LA 841	52.6	34	80
AGS 2035	55.0	35	75
GA 041293-11LE37	53.7	36	73
Terral LA 821	55.0	37	73
Trial mean			90
L.S.D. (0.10)**			9
C.V. (%)			7.5
Pr>F			0.0001

^{*}Varieties in italics are experimental lines that are not currently available for sale.

^{**}L.S.D, Least significant difference at the 10% level; C.V., coefficient of variation.

Table 5. Performance of Wheat Varieties in Central Alabama, 2013-2014.

Prattville Agricultural Research Unit, Prattville AL*

Variety	Test weight	Yield	Grain yield
	lbs/bushel	rank	bu/acre
Terral TV 8861	54.0	1	79
GA 041052-11E51	55.8	2	74
Terral TV 8848	53.6	3	73
AGS 2038	55.6	4	69
USG 3404	52.5	5	68
USG 3694	53.0	6	68
Terral LA 754	55.1	7	68
Terral TV 8525	54.5	8	67
AGS 2026	52.8	9	67
USG 3201	54.8	10	65
Progeny 870	50.1	11	65
Oglethorpe	53.7	12	64
Progeny 185	52.5	13	64
VA10W-123	53.6	14	64
Baldwin	54.8	15	62
Terral TV 8535	50.7	16	62
Progeny PGX 13-1	51.7	17	62
Progeny 125	51.4	18	62
GA 041293-11E54	54.6	19	61
L-Brand 343	55.8	20	60
GA 04434-11E44	54.2	21	60
AGS 2040	55.2	22	58
Terral LA 841	52.9	23	58
GA 041293-11LE37	54.9	24	58
Terral LA 821	54.5	25	56
Jamestown	55.8	26	56
AGS 2035	55.9	27	55
Progeny 357	49.6	28	54
Trial mean			63
L.S.D. (0.10)**			6
C.V. (%)			7.2
Pr>F			0.0001

^{*}Varieties in italics are experimental lines that are not currently available for sale.

^{**}L.S.D, Least significant difference at the 10% level; C.V., coefficient of variation.

Plant Breeding Unit, EV Smith Research Center, Shorter AL*

Variety	Test weight**	Yield	Grain yield
	lbs/bushel	rank	bu/acre
VA10W-123	NA	1	57
USG 3694	NA	2	56
Jamestown	NA	3	55
Progeny 870	NA	4	53
GA 041293-11LE37	NA	5	53
GA 041052-11E51	NA	6	51
Terral TV 8861	NA	7	51
L-Brand 343	NA	8	50
Progeny 357	NA	9	50
Terral TV 8535	NA	10	50
AGS 2026	NA	11	49
Progeny 185	NA	12	49
Oglethorpe	NA	13	48
Baldwin	NA	14	48
Terral LA 754	NA	15	48
Progeny 125	NA	16	47
Terral LA 821	NA	17	47
USG 3201	NA	18	47
AGS 2038	NA	19	46
AGS 2040	NA	20	46
Terral LA 841	NA	21	45
Terral TV 8848	NA	22	45
GA 04434-11E44	NA	23	44
Terral TV 8525	NA	24	44
USG 3404	NA	25	44
GA 041293-11E54	NA	26	42
AGS 2035	NA	27	41
Progeny PGX 13-1	NA	28	41
Trial mean			48
L.S.D. (0.10)***			NS (11.5)
C.V. (%)			14.8
Pr>F			0.7920

 $^{{}^*}$ Varieties in italics are experimental lines that are not currently available for sale.

^{**}Test weights were not recorded for this trial and are not available.

^{***}L.S.D, Least significant difference at the 10% level; C.V., coefficient of variation. NS indicates that there were no significant differences noted between varieties.

Table 7. Performance of Wheat Varieties in Southeast Alabama, 2013-2014.

Wiregrass Research & Extension Center, Headland AL*

Variety	Test weight	Yield	Grain yield
	lbs/bushel	rank	bu/acre
GA 041052-11E51	57.3	1	133
GA 041293-11LE37	56.7	2	125
AGS 2035	57.1	3	124
GA 04434-11E44	55.0	4	124
USG 3120	57.3	5	123
GA 041293-11E54	56.1	6	122
AGS 2038	56.0	7	122
AGS 2026	55.7	8	119
Oglethorpe	56.3	9	117
Terral LA 754	55.0	10	111
Baldwin	56.8	11	110
Terral LA 821	55.6	12	109
Terral LA 841	53.2	13	108
Jamestown	57.4	14	105
AGS 2040	56.4	15	104
Terral TV 8861	53.5	16	95
VA10W-123	54.0	17	94
Progeny 125	52.6	18	93
L-Brand 343	55.3	19	91
Terral TV 8848	52.1	20	91
Progeny PGX 13-1	53.7	21	89
Terral TV 8525	53.5	22	86
USG 3404	51.9	23	81
Terral TV 8535	51.5	24	79
Progeny 870	50.3	25	78
Progeny 185	53.3	26	76
Progeny 357	46.9	27	58
Trial mean			103
L.S.D. (0.10)**			12
C.V. (%)			8.8
Pr>F			0.0001

^{*}Varieties in italics are experimental lines that are not currently available for sale.

^{**}L.S.D, Least significant difference at the 10% level; C.V., coefficient of variation.

Brewton Agricultural Research Unit, Brewton AL*

Variety	Test weight	Yield	Grain yield
	lbs/bushel	rank	bu/acre
GA 04434-11E44	53.0	1	57
Terral LA 841	50.6	2	56
GA 041293-11LE37	53.9	3	55
USG 3404	50.6	4	54
Terral TV 8848	52.7	5	53
USG 3120	55.7	6	53
AGS 2038	53.4	7	52
Terral TV 8861	51.8	8	52
Terral LA 821	53.5	9	51
GA 041293-11E54	52.2	10	51
Terral TV 8525	51.1	11	51
AGS 2035	51.1	12	51
Jamestown	53.7	13	50
L-Brand 343	55.0	14	49
Terral LA 754	51.5	15	47
Baldwin	51.0	16	47
VA10W-123	50.4	17	46
Progeny 185	52.4	18	45
Progeny 357	47.6	19	45
Progeny 125	50.0	20	45
Terral TV 8535	48.3	21	44
GA 041052-11E51	52.2	22	43
Oglethorpe	51.8	23	42
Progeny 870	49.7	24	41
Progeny PGX 13-1	47.4	25	41
AGS 2040	52.8	26	41
AGS 2026	51.7	27	36
Trial mean			48
L.S.D. (0.10)**			8
C.V. (%)			12.0
Pr>F			0.0015

^{*}Varieties in italics are experimental lines that are not currently available for sale.

 $[\]hbox{**L.S.D, Least significant difference at the 10\% level; C.V., coefficient of variation.}$

Gulf Coast Research & Extension Center, Fairhope AL*

Variety	Test weight	Yield	Grain yield
	lbs/bushel	rank	bu/acre
GA 041052-11E51	57.3	1	103
GA 04434-11E44	56.0	2	96
GA 041293-11E54	57.1	3	95
Jamestown	60.9	4	95
Terral TV 8848	56.5	5	95
AGS 2040	55.7	6	94
AGS 2035	58.5	7	93
Terral TV 8861	56.9	8	93
L-Brand 343	57.4	9	92
Oglethorpe	55.3	10	91
USG 3120	58.0	11	91
Terral LA 754	57.2	12	91
Progeny 870	54.8	13	90
Progeny 125	55.1	14	89
Terral TV 8525	56.6	15	88
GA 041293-11LE37	56.7	16	87
Terral LA 821	55.7	17	86
Terral TV 8535	54.6	18	86
AGS 2026	55.8	19	86
USG 3404	54.7	20	82
AGS 2038	56.5	21	79
Baldwin	56.7	22	79
Progeny PGX 13-1	53.7	23	77
VA10W-123	54.0	24	75
Progeny 185	55.6	25	74
Terral LA 841	53.2	26	71
Progeny 357	51.7	27	69
Trial mean			87
L.S.D. (0.10)**			8
C.V. (%)			6.2
Pr>F			0.0001

^{*}Varieties in italics are experimental lines that are not currently available for sale.

^{**}L.S.D, Least significant difference at the 10% level; C.V., coefficient of variation.

Tennessee Valley Research & Extension Center, Belle Mina AL*

Average yield (bu/acre)

Variety	2014	2013-2014	2012-2014
	1-year	2-year	3-year
Terral TV 8861	77	93	83
Dyna Gro 9053	85	91	81
Terral TV 8848	77	90	80
Terral TV 8535	76	87	79
Terral TV 8525	73	88	78
USG 3438	73	89	78
Baldwin	73	85	76
AGS 2035	68	79	73
Jamestown	63	77	72
Progeny 125	54	76	70
Oglethorpe	54	79	70
Oakes	53	74	68
Progeny 185	63	75	68

^{*}Sorted by 3-year average.

Table 11. Wheat variety performance over multiple years in Northeast AL.

Sand Mountain Research & Extension Center, Crossville AL*

Variety	2013-2014	2012-2014	2011-2014
	1-year	2-year	3-year
Terral TV 8848	105	105	101
Progeny 870	97	94	96
Terral TV 8861	98	98	96
Progeny 357	92	96	93
Terral TV 8525	90	96	93
USG 3438	85	89	88
Terral TV 8535	94	93	87
Baldwin	85	83	87
AGS 2035	75	78	87
Jamestown	85	87	87
Progeny 185	89	89	84
Progeny 125	90	84	83
Oglethorpe	85	84	82

^{*}Sorted by 3-year average.

Table 13. Wheat variety performance over multiple years in Central Alabama.

Prattville Agricultural Research Unit, Prattville AL*

			· ·
Variety	2013-2014	2012-2014	2011-2014
	1-year	2-year	3-year
Oglethorpe	64	87	58
Baldwin	62	81	56
Terral LA 841	58	76	55
AGS 2035	55	72	54
Progeny 125	62	81	54
Jamestown	56	77	53
Progeny 357	54	72	39
Progeny 185	64	70	39
Progeny 870	65	69	38

^{*}Sorted by 3-year average.

Table 14. Wheat variety performance over multiple years in Central Alabama.

Plant Breeding Unit, EV Smith, Shorter AL*

Average yield (bu/acre)

Variety	2013-2014	2012-2014	2011-2014
	1-year	2-year	3-year
AGS 2038	46	83	NA
Jamestown	55	83	NA
Baldwin	48	78	NA
AGS 2035	41	77	NA
Terral LA 841	45	77	NA
Oglethorpe	48	75	NA
Progeny 125	47	74	NA
Terral TV 8525	44	73	NA
Progeny 870	53	70	NA
Terral TV 8535	50	68	NA
Progeny 357	50	65	NA
Progeny 185	49	64	NA

^{*}Sorted by 2-year average due to severe growing conditions in 2012.

Table 15. Wheat variety performance over multiple years in Southeast Alabama.

Wiregrass Research & Extension Center, Headland AL*

ritorage yield (our deley					
Variety	2013-2014	2012-2014	2011-2014		
	1-year	2-year	3-year		
AGS 2035	124	104	NA		
AGS 2038	122	102	NA		
USG 3120	123	99	NA		
AGS 2026	119	96	NA		
Baldwin	110	94	NA		
Jamestown	105	93	NA		
Oglethorpe	117	92	NA		
Terral LA 841	108	91	NA		
Progeny 125	93	67	NA		
Terral TV 8525	86	55	NA		
Progeny 185	76	47	NA		
Terral TV 8535	79	44	NA		
Progeny 870	78	44	NA		
Progeny 357	58	36	NA		

^{*}Sorted by 2-year average due to severe growing conditions in 2012.

Brewton Agricultural Research Unit, Brewton AL*

Average yield (bu/acre)

Variety	2014	2013-2014	2012-2014	
	1-year	2-year	3-year	
AGS 2038	52	68	NA	
AGS 2035	51	63	NA	
Terral LA 841	56	60	NA	
Oglethorpe	42	59	NA	
Jamestown	50	57	NA	
Baldwin	47	57	NA	
AGS 2026	36	54	NA	
Progeny 125	45	50	NA	
Terral TV 8525	51	40	NA	
Progeny 185	45	36	NA	
Progeny 357	45	34	NA	
Progeny 870	41	30	NA	
Terral TV 8535	44	28	NA	

^{*}Sorted by 2-year average due to severe growing conditions in 2012.

Table 17. Wheat variety performance over multiple years in Southwest Alabama.

Gulf Coast Research & Extension Center, Fairhope AL*

	Atterage yield (buy dere)					
Variety	2014	2013-2014	2012-2014			
	1-year	2-year	3-year			
AGS 2035	93	93	NA			
USG 3120	91	91	NA			
Jamestown	95	88	NA			
Baldwin	79	81	NA			
AGS 2026	86	78	NA			
Progeny 125	89	76	NA			
Terral LA 841	71	72	NA			
Terral TV 8525	88	56	NA			
Progeny 870	90	54	NA			
Progeny 185	74	47	NA			
Progeny 357	69	42	NA			

^{*}Sorted by 2-year average due to severe growing conditions in 2012.

Tennessee Valley and Sand Mountain Research & Extension Centers Combined

Termessee	Tennessee Valley and Sand Mountain Research & Extension Centers Combined Fusarium					
	Leaf	Powdery	Leaf	Glume	Head	Barley Yellow
Variety*	Rust**	Mildew***	Blotch***	Blotch***	Blight***	Dwarf***
AGS 2026	0.0	0.0	2.0	2.3	1.2	0
AGS 2035	0.0	0.0	2.6	2.1	0.8	0
AGS 2038	0.0	0.0	1.6	1.5	0.1	0
AGS 2040	0.0	0.1	2.8	1.7	0.8	0
Baldwin	0.0	0.0	2.4	1.3	0.0	0
Dixie DXEX 13-3	0.0	0.2	2.2	7.9	0.0	0
Dixie DXEX 14-1	0.0	1.4	2.0	1.4	0.2	0
Dixie Extreme	0.0	1.2	1.9	2.0	0.0	0
Dixie McAlister	3.9	0.2	3.1	1.9	0.2	0
Dyna Gro 9053	0.0	0.5	2.0	1.9	0.2	0.4
GA 041052-11E51	0.0	0.0	2.2	1.5	1.8	0.4
GA 041293-11E54	0.0	0.6	1.6	1.9	2.2	0
GA 041293-11LE37	0.0	0.0	1.8	3.3	4.0	0
GA 04434-11E44	0.0	0.0	2.6	2.1	0.6	0
Jamestown	0.0	0.0	3.2	2.1	0.8	0.2
L-Brand 343	0.0	0.0	1.9	2.7	3.2	0
Oakes	0.0	0.1	1.6	2.1	0.4	0
Oglethorpe	0.0	0.0	2.8	2.7	2.0	0.2
Progeny 125	0.0	0.0	4.5	4.5	0.4	0.2
Progeny 185	0.0	0.4	2.2	1.4	0.0	0
Progeny 357	0.0	2.6	1.6	1.7	0.4	0
Progeny 870	0.0	0.6	2.2	1.2	0.6	0
Progeny PGX 13-1	0.0	2.4	2.6	2.0	1.0	0
SY Harrison	0.0	0.2	1.6	1.7	0.2	0
Terral LA 754	0.0	0.2	2.0	1.5	1.2	0
Terral LA 821	0.0	0.0	3.9	1.9	1.4	0
Terral LA 841	0.0	0.2	3.2	3.7	2.4	0
Terral TV 8525	0.0	0.0	2.6	2.5	0.1	0
Terral TV 8535	0.0	0.0	3.2	2.6	0.2	0.2
Terral TV 8848	0.0	0.0	2.2	2.3	0.1	0
Terral TV 8861	0.0	0.0	2.0	2.5	0.3	0
USG 3201	0.0	0.4	2.2	4.2	0.1	0
USG 3251	0.0	0.4	1.8	1.6	0.0	0
USG 3404	1.2	0.0	1.8	1.5	0.4	0
USG 3438	0.0	0.0	2.8	1.6	0.0	0
USG 3833	0.0	0.8	1.6	1.5	0.0	0
VA10W-123	0.0	0.0	2.8	2.3	0.8	0.2
LSD (0.05)	1.5	1.1	5.1	2.0	0.3	1.0

^{*}Varieties in italics are experimental lines that are not currently available for sale.

^{**}Rust diseases are rated on the flag leaves as a proportion of affected leaf, 0 to 100%.

^{***}Disease rated on a scale of 0 to 9 where 0 = no disease, 9 = severe disease throughout the plot.

Table 19. Average levels of disease in wheat varieties, Central Alabama 2014

Prattville Agric. Research Unit and Plant Breeding Unit at Tallassee Combined

			Glume	Fusarium	Barley Yellow
Variety*	Leaf Rust	Leaf Blotch	Blotch	Head Blight	Dwarf
•	(0 to 100%)**	0 (none present) to 9 (highest)***			
AGS 2026	0.4	1.5	1.3	1.3	0.0
AGS 2035	0.8	1.3	1.5	0.8	0.3
AGS 2038	0.8	1.6	1.0	0.6	0.5
AGS 2040	0.6	2.3	1.1	0.5	0.3
Baldwin	1.6	1.5	1.1	0.6	0.3
GA 041052-11E51	0.5	1.3	1.0	0.8	0.0
GA 041293-11E54	0.6	1.8	1.6	0.9	0.0
GA 041293-11LE37	0.3	2.0	1.1	1.0	0.0
GA 04434-11E44	0.5	1.8	1.1	0.8	0.0
Jamestown	0.1	1.0	1.0	0.3	0.0
L-Brand 343	0.3	1.6	1.3	0.8	0.0
Oglethorpe	1.9	1.5	2.0	0.3	0.0
Progeny 125	2.3	2.5	1.8	0.8	0.0
Progeny 185	2.8	2.0	1.0	1.1	0.0
Progeny 357	12.0	2.0	1.1	0.3	0.0
Progeny 870	7.5	2.3	1.8	0.5	0.1
Progeny PGX 13-1	0.5	1.8	1.3	0.8	0.0
Terral LA 754	0.6	1.5	0.8	0.8	0.0
Terral LA 821	1.3	1.8	0.4	0.5	0.0
Terral LA 841	0.9	2.5	1.3	0.5	0.0
Terral TV 8525	2.3	2.0	1.3	0.5	0.0
Terral TV 8535	6.0	2.3	1.3	0.8	0.3
Terral TV 8848	2.5	1.0	1.0	0.6	0.3
Terral TV 8861	3.5	2.3	1.5	0.6	0.3
USG 3201	0.3	1.1	1.6	0.3	0.0
USG 3404	2.0	1.4	1.0	0.3	0.3
USG 3694	0.8	1.6	0.8	0.5	0.0
VA10W-123	1.0	1.8	0.8	0.6	0.8
LSD (0.05)	4.9	2.0	1.0	0.8	0.8

^{*}Varieties in italics are experimental lines that are not currently available for sale.

^{**}Rust diseases are rated on the flag leaves as a proportion of affected leaf, 0 to 100%.

^{***}Disease rated on a scale of 0 to 9 where 0 = no disease, 9 = severe disease throughout the plot.

Table 20. Average levels of disease in wheat varieties, South Alabama 2014

Wiregrass REC, Brewton Agric. Research Unit, and Gulf Coast REC Combined

	REC, BIEWIOII A	Powdery	Leaf	Glume	Fusarium	Barley Yellow
Variety*	Leaf Rust	Mildew	Blotch	Blotch	Head Blight	Dwarf
,	(0 to 100%)**					
AGS 2026	0.0	0.3	1.8	1.9	0.1	0.0
AGS 2035	0.0	1.0	1.2	1.1	0.3	0.0
AGS 2038	0.0	0.0	1.3	0.1	0.1	0.0
AGS 2040	0.0	0.3	2.3	0.2	0.2	0.2
Baldwin	0.0	0.7	1.3	0.2	0.0	0.3
GA 041052-11E51	0.0	0.0	1.9	0.4	0.7	0.2
GA 041293-11E54	0.0	0.0	1.7	0.7	0.2	0.0
GA 041293-11LE37	0.0	0.0	1.6	1.2	0.2	0.2
GA 04434-11E44	0.0	0.0	1.8	0.8	0.0	0.0
Jamestown	0.0	0.0	3.0	1.1	0.0	0.0
L-Brand 343	0.0	1.2	1.8	0.5	0.2	0.2
Oglethorpe	0.0	0.4	1.4	1.0	0.2	0.1
Progeny 125	0.5	0.3	2.6	1.5	0.0	0.0
Progeny 185	1.1	1.3	1.4	0.3	0.0	0.3
Progeny 357	8.0	2.0	1.2	0.3	0.0	0.0
Progeny 870	0.2	0.2	1.0	0.3	0.0	0.3
Progeny PGX 13-1	0.0	2.0	0.5	0.0	0.0	0.5
Terral LA 754	0.2	0.3	2.0	0.3	0.3	0.0
Terral LA 821	0.0	0.0	2.2	0.8	0.2	0.0
Terral LA 841	0.0	0.8	1.3	1.3	0.3	0.3
Terral TV 8525	0.8	1.7	1.0	0.9	0.0	0.0
Terral TV 8535	0.3	0.7	0.9	0.7	0.0	0.0
Terral TV 8848	0.3	1.2	0.8	0.3	0.0	0.2
Terral TV 8861	0.3	0.7	0.5	0.2	0.0	0.0
USG 3120	0.0	0.5	0.7	0.4	0.2	0.2
USG 3404	1.2	0.5	1.1	0.7	0.0	0.0
VA10W-123	0.0	0.0	0.6	1.3	0.0	0.5
LSD (0.05)	1.0	0.9	0.9	0.9	0.4	0.4

^{*}Varieties in italics are experimental lines that are not currently available for sale.

^{**}Rust diseases are rated on the flag leaves as a proportion of affected leaf, 0 to 100%.

^{***}Disease rated on a scale of 0 to 9 where 0 = no disease, 9 = severe disease throughout the plot.

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