VARIETY REPORT

PERFORMANCE OF SMALL GRAIN VARIETIES IN ALABAMA, 2020-2021

DEPT. SERIES NO. CSES2021: SMALL GRAIN
HENRY G. JORDAN JR., VARIETY TESTING MANAGER
CROP, SOIL & ENVIRONMENTAL SCIENCES
AUBURN UNIVERSITY, AUBURN AL
JUNE 30, 2021

MISSION

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.

HOW TO INTERPRET RESULTS

The purpose of the variety trial data is to determine whether differences are due to genetic performance. These differences cannot be measured absolutely due to environmental field conditions (rainfall, temperatures, soil fertility, soil type, disease, insects, etc.). Yields may differ between plots of the same entry. This variation is accounted for using experimental design and statistics.

The least significant difference (LSD) is used to determine whether the observed differences between entries are real or are caused by random variation. When using the LSD, two entries may have numerically different values, but the values are not statistically different. When two entries are compared and the observed difference is larger than the LSD, the entries are considered statistically different. An alpha level of 0.10 is used, meaning that the differences observed are expected to be real 90% of the time.

The coefficient of variation (CV) is a measure used to compare the amount of random variation within a data set. The lower the CV, the more precise the data set.

Each table is organized in a manner that it is easy to read. The data is sorted from highest yielding to lowest. The bolded values are not statistically different from the highest yielding value.

A dark line in the table visually represents the test average. Any value above the line is equal to or greater than the test average. The numeric value for the test average is at the bottom of the tables.

Test results do not imply recommendation or endorsement by the Auburn University Variety Testing Program.

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AGRICULTURE

ACKNOWLEDGEMENT

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CENTRAL REGION

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BLACK BELT RESEARCH AND EXTENSION CENTER
MARION JUNCTION, AL

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E.V. SMITH RESEARCH AND EXTENSION CENTER
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WHEAT OAT BARLEY WEBSITE

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WHEAT OAT WEBSITE

NORTH REGION

WHEAT SUMMARY OAT SUMMARY TRITICALE SUMMARY

TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER
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David Harkins, Associate Director

WHEAT OAT TRITICALE BARLEY WEBSITE

SAND MOUNTAIN RESEARCH AND EXTENSION CENTER
CROSSVILLE, AL

Chet Norris, Interim Director

Clint McElmoyl, Associate Director

WHEAT OAT TRITICALE WEBSITE

MANAGEMENT INFORMATION

Moisture is recorded at the time of harvest and yields are standardized to 13.5% moisture for head-to-head comparison.

TABLE 1 - AGRONOMIC INFORMATION

Crop	Seeding Rate	Row Spacing	Plot Size	Number of Replications
Wheat Barley	26.4 seed/ft^2 or 1.2 million seed/acre	7 inch	5 x 20 ft	3-4
Oat Triticale	75 lb/ac	7 inch	5 x 20 ft	3-4

TABLE 2 - LOCATION SPECIFIC INFORMATION

Research Center	Tennessee Valley	Sand Mountain	Black Belt	E.V. Smith	Prattville	Wiregrass	Brewton	Gulf Coast
Location	Belle Mina	Crossville	Marion Junction	Tallassee	Prattville	Headland	Brewton	Fairhope
Region	North	North	Central	Central	Central	South	South	South
Crops	Wheat Oat Triticale Barley	Wheat Oat Triticale	Wheat Oat	Wheat Oat Barley	Wheat Oat	Wheat Oat Triticale	Wheat Oat	Wheat Oat
Plant Date	Nov. 4 - 5	November 5	N/A	November 3	November 9	November 18	November 16	December 10
Harvest Date	Jun 16-18	June 15	N/A	June 15-17	June 5	May 27-28	May 26	June 2-3
Soil Type	Decatur Silt Loam	Hartselle Fine Sandy Loam	Vaiden Clay	Kalmia Loamy Sand	Lucedale Fine Sandy Loam	Dothan Sandy Loam	Benndale Fine Sandy Loam	Malbis Fine Sandy Loam
Tillage	Conventional	Conventional	Conventional	Conventional	Conventional	Conventional	Conventional	No-Till
Fertilization	100N-40P-40K Wheat & Triticale 80N-40P-40K Barley & Oat	80N-0P-0K Wheat & Triticale 70N-0P-0K Oat	N/A	90N-0P-0K Wheat & Oat 60N-0P-0K Barley	95N-0P-0K Wheat 85N-0P-0K Oat	115N-0P-45K Wheat & Triticale 105N-0P-45K Oat	90N-40P-60K Wheat 80N-40P-60K Oat	120N-100P-60K Wheat 80N-100P-60K Oat
Herbicides	HarmonyExtra Zidua (not on oats)	None	N/A	HarmonyExtra	HarmonyExtra	HarmonyExtra	2,4-D Amine HarmonyExtra	HarmonyExtra Salvo
Insecticides	Warrior II	None	N/A	None	None	None	None	Sniper
Fungicides	Prosaro Stratego Non on Barley	None	N/A	None	None	Priaxor	Monsoon Stratego Quadris	Headline Quilt Xcel

Research Center	Tennessee Valley	Sand Mountain	Black Belt	E.V. Smith	Prattville	Wiregrass	Brewton	Gulf Coast
Test Conducted By	B. Durham D. Harkins	C. McElmoyl J. Bloodworth J. Clayton	J. Yeager A. Harrison J. Westbrook J. Holbrook	J. Burkett N. Stockdale F. Jackson	D. Moore C. Henderson	C. Parker C. Thomas E. Richards H. McDaniel J. Greene J. Mullen J.D. Galloway K. Hodges M. Davis	B. Miller B. Thompson J. Wyatt	M. Pegues J. Jones

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SEED SOURCES - WHEAT

TABLE 3 – SEED SOURCE, VARIETY NAME, AND REGIONS TESTED

Source	Source Location	Variety	Released or Experimental	North Region	Central Region	South Region
AgriMAXX Wheat Company	Mascoutah, Illinois	AgriMAXX 473	Released	Yes	No	No
		AgriMAXX 481	Released	No	Yes	Yes
		AgriMAXX 492	Released	Yes	Yes	No
		AgriMAXX 503	Released	Yes	No	No
		AgriMAXX 505	Released	Yes	No	No
		AgriMAXX 513	Released	Yes	No	No
		AgriMAXX 514	Released	Yes	Yes	No
AgriPro		SREXP0119	Experimental	Yes	Yes	Yes
		SY 547	Released	Yes	Yes	Yes
		SY Richie	Released	Yes	Yes	Yes
		SY Viper	Released	Yes	Yes	Yes
AGSouth Genetics	Newton, Georgia	AGS 2021	Experimental	Yes	Yes	Yes
		AGS 2024	Released	Yes	Yes	Yes
		AGS 3015	Released	Yes	Yes	Yes
		AGS 3040	Released	Yes	No	No
Dyna-Gro Seed	Bloomfield, Ohio	Dyna-Gro 9002	Released	Yes	No	No
		Dyna-Gro 9120	Released	Yes	No	No
		Dyna-Gro 9172	Released	Yes	No	No
		Dyna-Gro 9811	Released	Yes	No	No
		Dyna-Gro Blanton	Released	Yes	Yes	Yes
		Dyna-Gro Plantation	Released	Yes	Yes	Yes
		Dyna-Gro Riverland	Released	Yes	Yes	Yes
		Dyna-Gro Rutledge	Released	Yes	Yes	Yes
		Dyna-Gro WX20738	Experimental	Yes	Yes	Yes
KWS Cereals	Champaign, Illinois	KWS263	Experimental	Yes	Yes	Yes
		KWS291	Experimental	Yes	Yes	Yes
		KWS338	Experimental	Yes	Yes	Yes
		KWS369	Experimental	Yes	Yes	Yes
Local Seed Company	Memphis, Tennessee	LW2026	Released	Yes	Yes	Yes
		LW2068	Released	Yes	No	No
		LW2148	Released	Yes	No	No
		LW2169	Released	Yes	No	No
		LW2848	Released	Yes	Yes	No
Louisiana State University	Baton Rouge, Louisiana	LA12080LDH-72	Experimental	Yes	Yes	Yes
		LA12275LDH-56	Experimental	Yes	Yes	Yes
		LA15166-LDH272	Experimental	Yes	Yes	Yes
		LA15203-LDH112	Experimental	Yes	Yes	Yes
		LA15203-LDH274	Experimental	Yes	Yes	Yes
Progeny Ag	Wynne, Arkansas	PGX 20-15	Experimental	Yes	Yes	Yes

Source	Source Location	Variety	Released or Experimental	North Region	Central Region	South Region
Stratton Seed	Stuttgart, Arkansas	AGS 2055	Released	Yes	Yes	Yes
		Go Wheat 2032	Released	Yes	Yes	Yes
		Go Wheat 6000	Released	Yes	Yes	Yes
		Go Wheat LA 754	Released	Yes	Yes	Yes
UniSouth Genetics	Dickson, Tennessee	USG 3329	Released	Yes	No	No
		USG 3352	Released	Yes	No	No
		USG 3472	Released	Yes	Yes	No
		USG 3536	Released	Yes	Yes	No
		USG 3539	Released	Yes	Yes	No
		USG 3562	Released	Yes	No	No
		USG 3640	Released	Yes	Yes	Yes
University of Arkansas Division of Agriculture	Stuttgart, Arkansas	AR09137UC-17-2	Experimental	Yes	Yes	Yes
		AR11051-15-3	Experimental	Yes	Yes	Yes
		AR15V31-26-2285N	Experimental	Yes	Yes	Yes
University of Georgia	Griffin, Georgia	GA-18E26	Experimental	Yes	Yes	Yes
		GA-18LE23F	Experimental	Yes	Yes	Yes
		GA-18E35	Experimental	Yes	Yes	Yes
		GA-18LE43F	Experimental	Yes	Yes	Yes
		GA-18ESc43F	Experimental	Yes	Yes	Yes
Virginia Crop Improvement Association	Warsaw, Virginia	13VTK428-3	Released	Yes	Yes	Yes
		Liberty 5658	Released	Yes	Yes	Yes

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SEED SOURCES - OATS

TABLE 4 - SEED SOURCE, VARIETY NAME, AND REGIONS TESTED

Source	Source Location	Variety	Released or Experimental	North Region	Central Region	South Region
AGSouth Genetics	Newton, Georgia	Horizon 306	Released	No	Yes	Yes
		Horizon 720	Released	No	Yes	Yes
Angelina Grain CO, LLC	Vidalia, Louisiana	FL 0720	Released	No	Yes	Yes
University of Florida	Quincy, Florida	UF1	Experimental	Yes	No	No
		UF10	Experimental	Yes	No	No

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SEED SOURCES - TRITICALE

TABLE 5- SEED SOURCE, VARIETY NAME, AND REGIONS TESTED

Source	Source Location	Variety	Released or Experimental	North Region	Central Region	South Region
TriCal Superior Forage	Vernon, Texas	TriCal 342	Released	Yes	No	No
		TriCal 344	Released	Yes	No	No
		TriCal Flex 719	Released	Yes	No	No
		TriCal Merlin Max	Released	Yes	No	No
		TriCal Surge	Released	Yes	No	No
		TriCal Thor	Released	Yes	No	No
University of Florida	Quincy, Florida	FL08128	Released	Yes	No	No

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SEED SOURCES - BARLEY

TABLE 6- SEED SOURCE, VARIETY NAME

Source	Source Location	Variety	Released or Experimental
KWS Cereals	Champaign, Illinois	KWS Donau	Released
		KWS Faro	Released
		KWS Joyau	Released
		KWS Scala	Released
		KWS Somerset	Released
Limagrain	Fort Collins, Colorado	BC Clementine	Experimental
		BC Fay	Experimental
		LCS Calypso	Released
		LCS Violetta	Released
North Dakota State University	Fargo, North Dakota	2ND32184	Released
		2ND32529	Released
		2ND36638	Released
		2ND36642	Released
		2ND37111	Released
		2ND37130	Released
		2ND37568	Released
		AAC Connect	Released
		AAC Synergy	Released
		Barbarella	Released
		Brunilda	Released
		Conlon	Released
		Eifel	Released
		Esma	Released
		Explorer	Released
		Focus	Released
		Klarinette	Released
		KWS Fantex	Released
		KWS Jessie	Released
		KWS Willis	Released
		ND Genesis	Released
		Newdale	Released
		Pinnacle	Released
		Sangria	Released
		Tradition	Released
Ohio Crafted Malt House	Marysville, Ohio	OMP2	Released
		OMR20	Released
		OMZ20	Released
Oregon State University	Corvallis, Oregon	Lightning	Released
		Thunder	Released

Source	Source Location	Variety	Released or Experimental
USDA-ARS	Raleigh, North Carolina	12W587-n-28	Experimental
		12W595-n-02	Experimental
		ARS15B12	Experimental
		ARS16B06	Experimental
Virginia Tech	Warsaw, Virginia	Amaze 10	Released
		Avalon	Released
		Flavia	Released
		Hirondella	Released
		Nomini	Released
		Secretariat	Released
		Thoroughbred	Released
		VA15H-73 2R	Experimental
		VA16BFHB-268 NA	Experimental
		VA16M-84 2R	Experimental

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SEED PER POUND - WHEAT

TABLE 7 – NUMBER OF SEED PER POUND UPON RECEIPT

Variety	Seed per Pound
Dyna-Gro 9120	15500
AGS 3015	15091
LA15166-LDH272	14979
AGS 2024	14921
GA-18LE43F	14872
GA-18E26	14750
KWS291	14731
KWS338	14699
LA12080LDH-72	14659
LW2148	14325
KWS369	13886
Dyna-Gro 9172	13802
GA-18ESc43F	13478
GA-18LE23F	13441
AGS 2055	13407
AGS 3040	12963
LA15203-LDH112	12850
AgriMAXX 503	12814
AgriMAXX 473	12790
LW2026	12784
AR09137UC-17-2	12636
USG 3562	12572
SY 547	12490
Dyna-Gro Riverland	12373
LW2169	12349
Dyna-Gro WX20738	12187
USG 3352	12150
AgriMAXX 513	12139
LW2848	12067
GA-18E35	11992
AR15V31-26-2285N	11969
Liberty 5658	11919
USG 3536	11890
13VTK428-3	11855
LA12275LDH-56	11854
AgriMAXX 514	11844
USG 3640	11659
LA15203-LDH274	11582
SY Richie	11559
Go Wheat 6000	11534
SY Viper	11487
Dyna-Gro 9811	11474
USG 3329	11450

Variety	Seed per Pound
AgriMAXX 505	11397
AgriMAXX 492	11312
Dyna-Gro Rutledge	11181
USG 3472	11065
LW2068	10923
KWS263	10922
USG 3539	10878
Dyna-Gro Plantation	10872
PGX 20-15	10865
Go Wheat 2032	10786
AR11051-15-3	10740
SREXP0119	10516
AGS 2021	10429
Dyna-Gro Blanton	10140
Go Wheat LA 754	10098
Dyna-Gro 9002	9800
AgriMAXX 481	9631
Average	12289
LSD @ 10% level	324
CV	12

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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SEED PER POUND - TRITICALE

TABLE 8 – NUMBER OF SEED PER POUND UPON RECEIPT

Variety	Seed per Pound
TriCal 344	15275
TriCal 342	14588
TriCal Merlin Max	13569
TriCal Flex 719	13446
FL08128	11867
TriCal Surge	10377
TriCal Thor	10070
Average	12742
LSD @ 10% level	425
CV	16

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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SEED PER POUND - BARLEY

TABLE 9 – NUMBER OF SEED PER POUND UPON RECEIPT

Variety	Seed per Pound
Nomini	14665
Amaze 10	14526
Newdale	14370
Thunder	14325
12W587-n-28	13896
KWS Fantex	13596
ARS16B06	13347
OMP2	13149
Focus	13135
Tradition	13010
Sangria	12827
Conlon	12813
Pinnacle	12719
AAC Synergy	12440
ND Genesis	12393
Esma	12362
Eifel	12360
Barbarella	12331
KWS Jessie	12326
Brunilda	12089
Secretariat	12002
KWS Willis	11940
Thoroughbred	11888
OMZ20	11672
Klarinette	11455
VA16BFHB-268 NA	11218
AAC Connect	11028
2ND32184	10751
Explorer	10650
12W595-n-02	10602
2ND37111	10517
2ND32529	10468
2ND37568	10186
VA15H-73 2R	10165
2ND36638	10095
2ND37130	10051
OMR20	9966
BC Fay	9955
LCS Violetta	9847
Hirondella	9693
KWS Faro	9637
Lightning	9620
Flavia	9310

Variety	Seed per Pound
2ND36642	9197
KWS Donau	9158
ARS15B12	9033
Avalon	8696
KWS Somerset	8526
KWS Scala	8526
BC Clementine	8497
LCS Calypso	8260
KWS Joyau	7839
VA16M-84 2R	7685
Average	11147
LSD @ 10% level	298
CV	17

Bolded yields are NOT statistically different from the highest yielding entry.
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N.S. –differences are statistically non-significant.

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WHEAT STATEWIDE SUMMARY

TABLE 10 - YIELD IN BUSHELS PER ACRE

Variety	2021	North	Central	South
Dyna-Gro Blanton	**82**	**100**	**89**	**66**
Dyna-Gro Plantation	**81**	90	**88**	**70**
Go Wheat 2032	**80**	90	**90**	**67**
LA15203-LDH274	77	91	77	**67**
SY Viper	76	89	**87**	60
USG 3640	76	89	**84**	62
Go Wheat 6000	76	**99**	**82**	55
Dyna-Gro Riverland	76	91	77	**64**
KWS263	**76**	93	**84**	58
SY Richie	**75**	89	78	**64**
GA-18LE43F	74	90	68	**67**
LW2026	74	94	72	62
GA-18ESc43F	74	89	73	**64**
Liberty 5658	73	84	79	**63**
PGX 20-15	73	90	79	58
13VTK428-3	73	88	78	60
AGS 2055	73	87	**84**	57
Go Wheat LA 754	73	86	**81**	58
LA15166-LDH272	72	80	79	**62**
LA12080LDH-72	72	92	77	56
LA15203-LDH112	72	86	75	61
GA-18E35	72	86	77	59
Dyna-Gro WX20738	72	87	**83**	54
AGS 3015	72	82	**81**	58
AGS 2021	71	91	70	58
Dyna-Gro Rutledge	71	91	71	57
AR09137UC-17-2	70	89	75	55
AGS 2024	70	83	80	55
GA-18E26	70	**97**	68	53
KWS291	69	88	76	52
SREXP0119	68	84	74	54
SY 547	68	87	**81**	46
AR15V31-26-2285N	68	88	67	54
LA12275LDH-56	67	81	72	55
KWS338	67	94	69	48
GA-18LE23F	67	87	63	56
KWS369	66	**94**	70	44
AR11051-15-3	66	83	71	51
AgriMAXX 473	.	88	.	.
AgriMAXX 481	.	.	**91**	**67**
AgriMAXX 492	.	93	78	**.**
AgriMAXX 503	.	**102**	.	**.**
AgriMAXX 505	.	89	.	**.**
AgriMAXX 513	.	90	.	**.**

Variety	2021	North	Central	South
AgriMAXX 514	.	**100**	78	**.**
AGS 3040	.	92	**.**	.
Dyna-Gro 9002	.	90	.	.
Dyna-Gro 9120	.	91	.	.
Dyna-Gro 9172	.	**97**	.	.
Dyna-Gro 9811	.	87	.	.
LW2068	.	93	.	.
LW2148	.	**100**	.	.
LW2169	.	90	.	.
LW2848	.	88	76	.
USG 3329	.	**98**	**.**	.
USG 3352	.	**95**	**.**	.
USG 3472	.	92	**85**	.
USG 3536	.	88	75	.
USG 3539	.	83	79	.
USG 3562	.	84	.	.
Average	72	89	77	58
LSD @ 10%	5	8	11	8
CV	26	12	20	22
Model R-Square	0.70	0.47	0.55	0.46

Bolded yields are NOT statistically different from the highest yielding entry.
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N.S. –differences are statistically non-significant.

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TRITICALE STATEWIDE SUMMARY

TABLE 11 - YIELD IN BUSHELS PER ACRE

Variety	2021	TVREC	SMREC	WREC
TriCal 342	**81**	76	111	**57**
TriCal 344	**73**	69	92	**58**
TriCal Surge	**72**	68	107	41
FL08128	69	65	93	49
TriCal Thor	63	69	107	14
TriCal Merlin Max	60	62	106	13
TriCal Flex 719	58	57	106	10
Average	68	67	103	35
LSD @ 10%	10	N.S.	N.S.	4
CV	46	12	10	60
Model R-Square	0.86	0.50	0.56	0.98

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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SOUTH REGION WHEAT SUMMARY

TABLE 12 – YIELD IN BUSHELS PER ACRE

Variety	2021	GCREC	BARU	WGREC
Dyna-Gro Plantation	**70**	**84**	61	65
Go Wheat 2032	**67**	**74**	68	59
LA15203-LDH274	**67**	**81**	67	53
GA-18LE43F	**67**	**75**	59	64
AgriMAXX 481	**67**	**78**	**71**	52
Dyna-Gro Blanton	**66**	65	**77**	56
SY Richie	**64**	**76**	56	61
GA-18ESc43F	**64**	**79**	59	56
Dyna-Gro Riverland	**64**	67	66	59
Liberty 5658	**63**	**82**	49	57
LA15166-LDH272	**62**	73	55	58
USG 3640	62	69	64	54
LW2026	62	65	63	58
LA15203-LDH112	61	67	55	61
SY Viper	60	69	58	54
13VTK428-3	60	71	55	53
GA-18E35	59	70	55	52
AGS 3015	58	74	60	41
PGX 20-15	58	61	61	53
KWS263	58	70	51	52
Go Wheat LA 754	58	65	51	57
AGS 2021	58	60	56	57
Dyna-Gro Rutledge	57	66	61	44
AGS 2055	57	59	55	57
LA12080LDH-72	56	63	56	49
GA-18LE23F	56	59	62	56
Go Wheat 6000	55	59	57	50
LA12275LDH-56	55	64	50	52
AR09137UC-17-2	55	74	48	43
AGS 2024	55	64	51	50
AR15V31-26-2285N	54	64	49	49
SREXP0119	54	71	54	37
Dyna-Gro WX20738	54	71	43	47
GA-18E26	53	62	50	46
KWS291	52	55	48	52
AR11051-15-3	51	59	45	47
KWS338	48	58	36	51
SY 547	46	61	34	44
KWS369	44	43	36	52
Average	58	67	55	53
LSD @ 10%	8	10	8	N.S.
CV	22	16	19	25
Model R-Square	0.46	0.68	0.80	0.24

Bolded yields are NOT statistically different from the highest yielding entry.
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SOUTH REGION OAT SUMMARY

The oat trial at the Gulf Coast Research and Extension Center received herbicide damage which resulted in reduced yields. Therefore, yield data has been omitted from this table since it does not accurately reflect the true yield potential of the varieties.

TABLE 13 - YIELD IN BUSHELS PER ACRE

Variety	2021	GCREC	BARU	WREC
FL 0720	81	.	79	84
Horizon 306	80	.	85	75
Horizon 720	70	.	61	79
Average	77	.	75	79
LSD @ 10%	N.S.	.	N.S.	N.S.
CV	30	.	40	18
Model R-Square	0.06	.	0.65	0.24

Bolded yields are NOT statistically different from the highest yielding entry.
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N.S. –differences are statistically non-significant.

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WHEAT

BREWTON AGRICULTURAL RESEARCH UNIT

BREWTON, AL

TABLE 14 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Lodging %	Head Date Day-Month
Dyna-Gro Blanton	**77**	61.4	33	**5**	31-Mar
AgriMAXX 481	**71**	60.2	36	28	29-Mar
Go Wheat 2032	68	60.2	32	**12**	29-Mar
LA15203-LDH274	67	60.2	38	**13**	30-Mar
Dyna-Gro Riverland	66	60.2	42	**7**	2-Apr
USG 3640	64	60.2	40	**7**	30-Mar
LW2026	63	60.2	38	**5**	30-Mar
GA-18LE43F	62	60.2	34	**8**	8-Apr
Dyna-Gro Plantation	61	60.2	35	**15**	29-Mar
PGX 20-15	61	60.2	40	25	7-Apr
Dyna-Gro Rutledge	61	60.2	38	**8**	29-Mar
AGS 3015	60	60.3	38	**10**	29-Mar
GA-18ESc43F	59	60.1	33	**5**	31-Mar
SY Viper	58	60.1	42	33	5-Apr
Go Wheat 6000	57	60.1	39	**17**	2-Apr
SY Richie	56	60.1	37	27	31-Mar
AGS 2021	56	60.2	40	**8**	2-Apr
LA12080LDH-72	56	60.2	41	27	31-Mar
LA15203-LDH112	55	60.1	35	**7**	12-Apr
LA15166-LDH272	55	60.1	35	**7**	5-Apr
AGS 2055	55	60.0	37	**7**	8-Apr
GA-18E35	55	60.1	37	**13**	7-Apr
13VTK428-3	55	60.1	39	**10**	12-Apr
SREXP0119	54	60.1	36	**10**	8-Apr
GA-18LE23F	53	60.3	38	**7**	29-Mar
KWS263	51	60.1	39	**5**	12-Apr
Go Wheat LA 754	51	60.1	39	22	31-Mar
AGS 2024	51	60.2	35	33	5-Apr
GA-18E26	50	60.1	38	**18**	3-Apr
LA12275LDH-56	50	60.3	42	**18**	7-Apr
Liberty 5658	49	60.2	36	**12**	2-Apr
AR15V31-26-2285N	49	60.2	43	**10**	10-Apr
AR09137UC-17-2	48	60.2	39	38	5-Apr
KWS291	48	60.0	37	**17**	17-Apr
AR11051-15-3	45	60.2	38	37	7-Apr
Dyna-Gro WX20738	43	60.1	38	35	7-Apr
KWS369	36	59.9	37	20	22-Apr
KWS338	36	60.0	38	23	18-Apr
SY 547	34	59.9	38	48	16-Apr
Average	55	60.2	38	17	4-Apr
LSD @ 10%	8	N.S.	3	14	2 days
CV	19	0.6	8	90	6
Model R-Square	0.80	0.41	0.62	0.71	0.95

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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OAT
BREWTON AGRICULTURAL RESEARCH UNIT
BREWTON, AL

TABLE 15 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Lodging %	Head Date Day-Month
Horizon 306	85	30.3	50	67	16-Apr
FL 0720	79	30.2	50	87	16-Apr
Horizon 720	61	30.2	53	82	16-Apr
Average	75	30.2	51	79	16-Apr
LSD @ 10%	N.S.	N.S.	N.S.	N.S.	N.S.
CV	40	0.1	6	17	0
Model R-Square	0.65	0.5	0.36	0.5	1.0

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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WHEAT

WIREGRASS RESEARCH AND EXTENSION CENTER

HEADLAND, AL

TABLE 16 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Head Date Day-Month
Dyna-Gro Plantation	65	52.6	29	23-Mar
GA-18LE43F	64	57.3	33	1-Apr
SY Richie	61	55.8	30	1-Apr
LA15203-LDH112	61	54.5	31	9-Apr
Dyna-Gro Riverland	59	54.7	31	26-Mar
Go Wheat 2032	59	54.5	31	23-Mar
LA15166-LDH272	58	57.3	31	3-Apr
LW2026	58	53.6	27	23-Mar
Liberty 5658	57	53.7	34	1-Apr
Go Wheat LA 754	57	53.9	33	29-Mar
AGS 2021	57	59.4	36	29-Mar
AGS 2055	57	55.5	33	3-Apr
Dyna-Gro Blanton	56	54.5	26	23-Mar
GA-18ESc43F	56	54.4	32	3-Apr
GA-18LE23F	56	55.0	30	3-Apr
SY Viper	54	56.6	32	3-Apr
USG 3640	54	54.5	29	23-Mar
LA15203-LDH274	53	54.1	25	23-Mar
13VTK428-3	53	56.2	31	12-Apr
PGX 20-15	53	53.3	35	9-Apr
KWS263	52	54.7	32	9-Apr
KWS369	52	54.5	33	20-Apr
KWS291	52	48.7	32	20-Apr
AgriMAXX 481	52	54.7	29	23-Mar
LA12275LDH-56	52	56.4	33	1-Apr
GA-18E35	52	56.7	29	29-Mar
KWS338	51	55.7	35	20-Apr
AGS 2024	50	53.3	32	29-Mar
Go Wheat 6000	50	55.4	34	1-Apr
LA12080LDH-72	49	53.6	33	29-Mar
AR15V31-26-2285N	49	55.4	31	6-Apr
AR11051-15-3	47	54.9	30	3-Apr
Dyna-Gro WX20738	47	52.2	34	1-Apr
GA-18E26	46	53.1	33	29-Mar
Dyna-Gro Rutledge	44	55.2	27	23-Mar
SY 547	44	54.8	33	9-Apr
AR09137UC-17-2	43	52.6	35	1-Apr
AGS 3015	41	54.7	26	23-Mar
SREXP0119	37	54.4	29	1-Apr
Average	53	54.7	31	1-Apr
LSD @ 10%	N.S.	N.S.	4	4 days
CV	25	5	12	9
Model R-Square	0.24	0.38	0.58	0.91

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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OAT

WIREGRASS RESEARCH AND EXTENSION CENTER

HEADLAND, AL

TABLE 17 – LOCATON SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Lodging %	Head Date Day-Month
FL 0720	84	29	35	77	3-Apr
Horizon 720	79	30	36	42	1-Apr
Horizon 306	75	30	36	67	6-Apr
Average	79	36	35.7	62	3-Apr
LSD @ 10%	N.S.	N.S.	N.S.	N.S.	N.S.
CV	18	6	6	31	4 days
Model R-Square	0.24	0.38	0.74	0.66	0.67

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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TRITICALE

WIREGRASS RESEARCH AND EXTENSION CENTER

HEADLAND, AL

TABLE 18 – LOCATON SPECIFIC DATA

Variety	Yield bushels per acre	Height inches	Lodging %	Head Date Day-Month
TriCal 344	**58**	39	**8**	19-Mar
TriCal 342	**57**	45	**17**	19-Mar
FL08128	49	48	**15**	19-Mar
TriCal Surge	41	46	**18**	9-Apr
TriCal Thor	14	51	67	20-Apr
TriCal Merlin Max	13	37	**13**	9-Apr
TriCal Flex 719	10	48	65	20-Apr
Average	35	45	29	3-Apr
LSD @ 10%	4	3	16	1 day
CV	60	12	88	15
Model R-Square	0.98	0.92	0.89	1.00

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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WHEAT

GULF COAST RESEARCH AND EXTENSION CENTER

FAIRHOPE, AL

TABLE 19 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Lodging %	Head Date Day-Month
Dyna-Gro Plantation	**84**	**56.8**	32	47	31-Mar
Liberty 5658	**82**	55.4	36	45	2-Apr
LA15203-LDH274	**81**	**56.1**	36	45	28-Mar
GA-18ESc43F	**79**	54.0	33	35	31-Mar
AgriMAXX 481	**78**	54.7	34	70	30-Mar
SY Richie	**76**	53.4	35	**23**	1-Apr
GA-18LE43F	**75**	54.7	33	65	4-Apr
Go Wheat 2032	**74**	54.4	33	**27**	30-Mar
AR09137UC-17-2	74	53.3	37	**23**	3-Apr
AGS 3015	74	**55.7**	36	**27**	28-Mar
LA15166-LDH272	73	54.1	35	**17**	8-Apr
13VTK428-3	71	53.1	35	**13**	14-Apr
SREXP0119	71	53.8	33	**30**	4-Apr
Dyna-Gro WX20738	71	50.9	36	37	6-Apr
KWS263	70	50.2	33	**27**	13-Apr
GA-18E35	70	**56.8**	34	57	4-Apr
USG 3640	69	**55.7**	35	52	31-Mar
SY Viper	69	52.6	36	**28**	9-Apr
Dyna-Gro Riverland	67	54.3	36	40	1-Apr
LA15203-LDH112	67	51.7	35	**22**	14-Apr
Dyna-Gro Rutledge	66	52.5	36	**27**	31-Mar
Go Wheat LA 754	65	53.2	33	42	31-Mar
Dyna-Gro Blanton	65	52.6	34	60	31-Mar
LW2026	65	52.8	33	37	31-Mar
AR15V31-26-2285N	64	55.1	36	**17**	5-Apr
LA12275LDH-56	64	53.6	36	**32**	3-Apr
AGS 2024	64	51.3	33	72	4-Apr
LA12080LDH-72	63	52.5	36	68	2-Apr
GA-18E26	62	51.4	29	42	1-Apr
SY 547	61	51.3	34	45	14-Apr
PGX 20-15	61	52.3	36	52	3-Apr
AGS 2021	60	53.3	34	47	1-Apr
Go Wheat 6000	59	50.6	34	70	4-Apr
AR11051-15-3	59	52.4	37	**32**	5-Apr
AGS 2055	59	48.4	36	**10**	5-Apr
GA-18LE23F	59	53.5	33	75	30-Mar
KWS338	58	52.7	35	50	21-Apr
KWS291	55	47.2	31	43	16-Apr
KWS369	43	47.2	32	**15**	27-Apr
Average	67	53.0	34	40	4-Apr
LSD @ 10%	10	1.2	3	23	2 days
CV	16	5	7	61	7
Model R-Square	0.68	0.90	0.52	0.67	0.96

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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OAT

GULF COAST RESEARCH AND EXTENSION CENTER

FAIRHOPE, AL

The oat trial at the Gulf Coast Research and Extension Center received herbicide damage which resulted in reduced yields. Therefore, yield data has been omitted from this table since it does not accurately reflect the true yield potential of the varieties.

TABLE 20 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Lodging %	Head Date Day-Month
Horizon 720	.	.	52	43	3-Apr
FL 0720	.	.	48	42	2-Apr
Horizon 306	.	.	44	35	3-Apr
Average	.	.	48	40	3-Apr
LSD @ 10%	.	.	N.S.	N.S.	N.S.
CV	.	.	13	35	1
Model R-Square	.	.	0.84	0.73	0.84

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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CENTRAL REGION WHEAT SUMMARY

TABLE 21 – YIELD IN BUSHELS PER ACRE

Variety	2021	PARU	EVS-PBU	BBREC
AgriMAXX 481	**91**	**94**	**87**	.
Go Wheat 2032	**90**	**93**	**87**	.
Dyna-Gro Blanton	**89**	**102**	**75**	.
Dyna-Gro Plantation	**88**	**96**	**80**	.
SY Viper	**87**	**97**	**78**	.
USG 3472	**85**	**95**	**75**	.
KWS263	**84**	**97**	72	.
USG 3640	**84**	**95**	72	.
AGS 2055	**84**	89	**78**	.
Dyna-Gro WX20738	**83**	**93**	**73**	.
Go Wheat 6000	**82**	**92**	73	.
Go Wheat LA 754	**81**	**92**	71	.
SY 547	**81**	**90**	72	.
AGS 3015	**81**	**92**	70	.
AGS 2024	80	**94**	66	.
LA15166-LDH272	79	**90**	68	.
USG 3539	79	**90**	68	.
Liberty 5658	79	74	**83**	.
PGX 20-15	79	**90**	67	.
13VTK428-3	78	80	**76**	.
AgriMAXX 514	78	**90**	66	.
AgriMAXX 492	78	84	72	.
SY Richie	78	87	68	.
Dyna-Gro Riverland	77	84	71	.
LA15203-LDH274	77	87	67	.
GA-18E35	77	85	69	.
LA12080LDH-72	77	86	67	.
LW2848	76	86	65	.
KWS291	76	**95**	57	.
AR09137UC-17-2	75	86	65	.
USG 3536	75	83	66	.
LA15203-LDH112	75	83	66	.
SREXP0119	74	78	70	.
GA-18ESc43F	73	86	61	.
LW2026	72	88	57	.
LA12275LDH-56	72	87	56	.
AR11051-15-3	71	84	59	.
Dyna-Gro Rutledge	71	83	59	.
KWS369	70	79	61	.
AGS 2021	70	81	60	.
KWS338	69	85	53	.
GA-18LE43F	68	83	54	.
GA-18E26	68	73	63	.
AR15V31-26-2285N	67	64	71	.
GA-18LE23F	63	76	51	.

Variety	2021	PARU	EVS-PBU	BBREC
Average	78	87	68	.
LSD @ 10%	11	13	14	.
CV	20	13	19	.
Model R-Square	0.55	0.51	0.57	.

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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CENTRAL REGION OAT SUMMARY

TABLE 22 – YIELD IN BUSHELS PER ACRE

Variety	2021	PARU	EVS	BBREC
Horizon 306	.	92	.	.
Horizon 720	.	78	.	.
FL 0720	.	69	.	.
Average	.	80	.	.
LSD @ 10%	.	N.S.	.	.
CV	.	19	.	.
Model R-Square	.	0.44	.	.

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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WHEAT

BLACK BELT RESEARCH AND EXTENSION CENTER

MARION JUNCTION, AL

Excessive soil moisture coupled with continued rain events prevented the Black Belt small grain trials from being planted within the normal planting window. No data is available for the 2020-2021 season.

TABLE 23 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Head Date Day-Month

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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OAT

BLACK BELT RESEARCH AND EXTENSION CENTER

MARION JUNCTION, AL

Excessive soil moisture coupled with continued rain events prevented the Black Belt small grain trials from being planted within the normal planting window. No data is available for the 2020-2021 season.

TABLE 24 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Lodging %	Head Date Day-Month

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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WHEAT

E.V. SMITH RESEARCH AND EXTENSION CENTER

PLANT BREEDING UNIT - TALLASSEE, AL

TABLE 25 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Head Date Day-Month
AgriMAXX 481	**87**	48.3	37	1-Apr
Go Wheat 2032	**87**	52.4	36	1-Apr
Liberty 5658	**83**	57.1	34	1-Apr
Dyna-Gro Plantation	**80**	45.1	37	1-Apr
SY Viper	**78**	48.6	40	3-Apr
AGS 2055	**78**	48.3	39	5-Apr
13VTK428-3	**76**	47.0	38	8-Apr
USG 3472	**75**	55.6	34	8-Apr
Dyna-Gro Blanton	**75**	43.4	36	1-Apr
Dyna-Gro WX20738	**73**	53.5	36	5-Apr
Go Wheat 6000	73	49.8	36	1-Apr
SY 547	72	42.5	40	3-Apr
USG 3640	72	50.2	38	1-Apr
AgriMAXX 492	72	50.7	36	3-Apr
KWS263	72	50.4	37	8-Apr
Go Wheat LA 754	71	44.9	38	1-Apr
AR11051-15-3	71	50.1	39	8-Apr
Dyna-Gro Riverland	71	48.4	40	1-Apr
AGS 3015	70	51.3	38	1-Apr
SREXP0119	70	51.7	34	1-Apr
GA-18E26	69	48.8	34	8-Apr
SY Richie	68	48.7	34	1-Apr
LA15166-LDH272	68	51.9	35	1-Apr
USG 3539	68	46.5	36	8-Apr
PGX 20-15	67	47.2	39	8-Apr
LA12080LDH-72	67	45.5	37	1-Apr
LA15203-LDH274	67	46.2	37	1-Apr
USG 3536	66	48.6	37	10-Apr
AgriMAXX 514	66	53.0	32	8-Apr
AGS 2024	66	44.1	35	1-Apr
LA15203-LDH112	66	48.2	36	8-Apr
LW2848	65	44.6	36	8-Apr
AR09137UC-17-2	65	50.3	39	3-Apr
GA-18LE43F	63	49.6	35	5-Apr
KWS369	61	52.0	36	8-Apr
GA-18E35	61	48.0	34	1-Apr
AGS 2021	60	49.8	34	1-Apr
Dyna-Gro Rutledge	59	49.5	37	1-Apr
AR15V31-26-2285N	59	55.4	40	5-Apr

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Head Date Day-Month
LW2026	57	44.7	36	1-Apr
KWS291	57	43.2	33	15-Apr
LA12275LDH-56	56	52.6	35	8-Apr
GA-18LE23F	54	52.3	32	5-Apr
KWS338	53	43.6	36	8-Apr
GA-18ESc43F	51	55.3	35	1-Apr
Average	68	49.1	36	4-Apr
LSD @ 10%	14	4.4	3	2 days
CV	19	9	8	4
Model R-Square	0.57	0.67	0.53	0.86

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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OAT

E.V. SMITH RESEARCH AND EXTENSION CENTER

PLANT BREEDING UNIT - TALLASSEE, AL

The oat trial at the E.V. Smith Research and Extension Center yields were exceptionally low. Therefore, yield data has been omitted from this table since it does not accurately reflect the true yield potential of the varieties.

TABLE 26 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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BARLEY

E.V. SMITH RESEARCH AND EXTENSION CENTER

PLANT BREEDING UNIT - TALLASSEE, AL

High weed pressure at harvest coupled with rain resulted in high variation in the barley yield data. Therefore, yield data has been omitted from this table since it does not accurately reflect the true yield potential of the varieties.

TABLE 27 – LOCATION SPECIFIC DATA

Variety	Height inches	Head Date Day-Month	%Cold Damage 1/28/21
12W587-n-28	27	15-Apr	14
12W595-n-02	31	9-Apr	15
2ND32184	27	23-Mar	**9**
2ND32529	29	23-Mar	**5**
2ND36638	24	23-Mar	11
2ND36642	26	23-Mar	11
2ND37111	26	23-Mar	10
2ND37130	25	23-Mar	14
2ND37568	32	23-Mar	11
AAC Connect	22	23-Mar	18
AAC Synergy	25	23-Mar	11
Amaze 10	32	1-Apr	11
ARS15B12	34	29-Mar	**5**
ARS16B06	28	23-Mar	13
Avalon	36	1-Apr	20
Barbarella	27	23-Mar	**6**
BC Clementine	24	9-Apr	31
BC Fay	26	1-Apr	15
Brunilda	27	23-Mar	**9**
Conlon	21	23-Mar	11
Eifel	21	23-Mar	**9**
Esma	23	23-Mar	11
Explorer	24	23-Mar	**9**
Flavia	26	13-Apr	16
Focus	27	23-Mar	**6**
Hirondella	31	8-Apr	21
Klarinette	27	23-Mar	**9**
KWS Donau	27	8-Apr	20
KWS Fantex	24	23-Mar	10
KWS Faro	26	9-Apr	14
KWS Jessie	23	23-Mar	**6**
KWS Joyau	26	8-Apr	21
KWS Scala	28	6-Apr	23
KWS Somerset	27	13-Apr	26
KWS Willis	28	23-Mar	**6**
LCS Calypso	33	8-Apr	15
LCS Violetta	28	1-Apr	20

Variety	Height inches	Head Date Day-Month	%Cold Damage 1/28/21
Lightning	29	11-Apr	34
ND Genesis	27	23-Mar	**6**
Newdale	25	23-Mar	13
Nomini	31	1-Apr	11
OMP2	30	15-Apr	24
OMR20	28	13-Apr	23
OMZ20	27	11-Apr	18
Pinnacle	26	23-Mar	10
Sangria	25	23-Mar	10
Secretariat	26	1-Apr	14
Thoroughbred	31	1-Apr	10
Thunder	25	1-Apr	18
Tradition	29	23-Mar	11
VA15H-73 2R	37	1-Apr	10
VA16BFHB-268 NA	33	4-Apr	13
VA16M-84 2R	38	1-Apr	10
Average	28	30-Mar	14
LSD @ 10%	4	2.5 days	5
CV	18	9	53
Model R-Square	0.60	0.95	0.77

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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WHEAT
PRATTVILLE AGRICULTURAL RESEARCH UNIT
PRATTVILLE, AL

TABLE 28 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel
Dyna-Gro Blanton	**102**	50.4
SY Viper	**97**	49.3
KWS263	**97**	55.9
Dyna-Gro Plantation	**96**	48.7
USG 3640	**95**	55.6
USG 3472	**95**	**57.4**
KWS291	**95**	42.3
AgriMAXX 481	**94**	51.6
AGS 2024	**94**	48.2
Dyna-Gro WX20738	**93**	55.5
Go Wheat 2032	**93**	**57.4**
AGS 3015	**92**	**56.7**
Go Wheat LA 754	**92**	50.5
Go Wheat 6000	**92**	56.4
AgriMAXX 514	**90**	54.7
SY 547	**90**	44.0
USG 3539	**90**	50.8
LA15166-LDH272	**90**	49.9
PGX 20-15	**90**	55.0
AGS 2055	89	56.3
LW2026	88	**57.0**
LA12275LDH-56	87	55.7
LA15203-LDH274	87	52.8
SY Richie	87	52.1
LW2848	86	49.5
LA12080LDH-72	86	49.2
GA-18ESc43F	86	56.4
AR09137UC-17-2	86	53.0
KWS338	85	44.5
GA-18E35	85	**59.4**
Dyna-Gro Riverland	84	56.2
AgriMAXX 492	84	55.7
AR11051-15-3	84	**56.6**
LA15203-LDH112	83	**59.0**
GA-18LE43F	83	54.7
USG 3536	83	49.7
Dyna-Gro Rutledge	83	55.5
AGS 2021	81	55.1

Variety	Yield bushels per acre	Test Weight pounds per bushel
13VTK428-3	80	54.4
KWS369	79	48.7
SREXP0119	78	50.7
GA-18LE23F	76	49.6
Liberty 5658	74	**57.7**
GA-18E26	73	54.2
AR15V31-26-2285N	64	52.5
Average	87	53.0
LSD @ 10%	13	3
CV	13	8
Model R-Square	0.51	0.84

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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OAT

PRATTVILLE AGRICULTURAL RESEARCH UNIT
PRATTVILLE, AL

TABLE 29 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel
Horizon 306	92	**34.3**
Horizon 720	78	30.6
FL 0720	69	31.1
Average	80	32.0
LSD @ 10%	N.S.	1.6
CV	19	6
Model R-Square	0.44	0.89

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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NORTH REGION WHEAT SUMMARY

TABLE 30 – YIELD IN BUSHELS PER ACRE

Variety	2021	TVREC	SMREC
AgriMAXX 503	**102**	**111**	**93**
Dyna-Gro Blanton	**100**	**110**	**91**
LW2148	**100**	**112**	**88**
AgriMAXX 514	**100**	**107**	**94**
Go Wheat 6000	**99**	**106**	**93**
USG 3329	**98**	**109**	**87**
Dyna-Gro 9172	**97**	**104**	**89**
GA-18E26	**97**	**102**	**92**
USG 3352	**95**	**101**	**89**
KWS369	**94**	100	**89**
LW2026	94	**101**	**86**
KWS338	94	95	**92**
KWS263	93	**101**	85
AgriMAXX 492	93	100	85
LW2068	93	98	**87**
USG 3472	92	93	**91**
AGS 3040	92	97	**87**
LA12080LDH-72	92	93	**90**
LA15203-LDH274	91	99	83
AGS 2021	91	99	82
Dyna-Gro Riverland	91	**101**	81
Dyna-Gro Rutledge	91	**106**	76
Dyna-Gro 9120	91	94	**87**
AgriMAXX 513	90	92	**89**
PGX 20-15	90	98	82
GA-18LE43F	90	98	82
Dyna-Gro Plantation	90	99	82
LW2169	90	87	**93**
Dyna-Gro 9002	90	97	83
Go Wheat 2032	90	99	80
USG 3640	89	92	**87**
SY Richie	89	91	**87**
AgriMAXX 505	89	90	**88**
GA-18ESc43F	89	99	79
SY Viper	89	93	84
AR09137UC-17-2	89	**100**	77
13VTK428-3	88	92	85
USG 3536	88	93	84
KWS291	88	87	**89**
AgriMAXX 473	88	95	81
AR15V31-26-2285N	88	94	82
LW2848	88	97	79
Dyna-Gro 9811	87	91	84
Dyna-Gro WX20738	87	94	80

Variety	2021	TVREC	SMREC
AGS 2055	87	90	84
SY 547	87	85	**89**
GA-18LE23F	87	94	79
GA-18E35	86	86	**87**
LA15203-LDH112	86	94	78
Go Wheat LA 754	86	94	78
USG 3562	84	86	83
SREXP0119	84	93	75
Liberty 5658	84	82	85
AGS 2024	83	87	80
USG 3539	83	82	84
AR11051-15-3	83	84	81
AGS 3015	82	87	77
LA12275LDH-56	81	86	76
LA15166-LDH272	80	84	76
Average	90	95	85
LSD @ 10%	8	12	8
CV	12	11	9
Model R-Square	0.47	0.54	0.61

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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NORTH REGION TRITICALE SUMMARY

TABLE 31 – YIELD IN BUSHELS PER ACRE

Variety	2021	TVREC	SMREC
TriCal 342	**93**	76	111
TriCal Thor	**88**	69	107
TriCal Surge	**87**	68	107
TriCal Merlin Max	84	62	106
TriCal Flex 719	82	57	106
TriCal 344	81	69	92
FL08128	79	65	93
Average	85	67	103
LSD @ 10%	8	N.S.	N.S.
CV	24	12	10
Model R-Square	0.85	0.50	0.56

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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WHEAT

TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER

BELLE MINA, AL

TABLE 32 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Head Date Day-Month
LW2148	**112**	58.1	38	17-Apr
AgriMAXX 503	**111**	57.6	39	17-Apr
Dyna-Gro Blanton	**110**	58.9	35	12-Apr
USG 3329	**109**	57.2	37	15-Apr
AgriMAXX 514	**107**	57.1	37	15-Apr
Go Wheat 6000	**106**	57.7	36	12-Apr
Dyna-Gro Rutledge	**106**	58.1	40	11-Apr
Dyna-Gro 9172	**104**	56.6	37	16-Apr
GA-18E26	**102**	58.1	34	14-Apr
KWS263	**101**	56.4	38	16-Apr
LW2026	**101**	58.1	38	11-Apr
USG 3352	**101**	56.1	37	17-Apr
Dyna-Gro Riverland	**101**	58.9	39	12-Apr
AR09137UC-17-2	**100**	57.1	40	13-Apr
AgriMAXX 492	100	58.4	35	13-Apr
KWS369	100	56.1	36	16-Apr
AGS 2021	99	59.9	39	13-Apr
Go Wheat 2032	99	58.1	35	12-Apr
LA15203-LDH274	99	58.1	37	10-Apr
Dyna-Gro Plantation	99	60.1	36	12-Apr
GA-18ESc43F	99	57.7	36	13-Apr
PGX 20-15	98	57.1	39	18-Apr
LW2068	98	55.7	37	15-Apr
GA-18LE43F	98	59.6	38	13-Apr
Dyna-Gro 9002	97	56.5	37	15-Apr
LW2848	97	56.8	38	14-Apr
AGS 3040	97	57.8	39	12-Apr
AgriMAXX 473	95	57.5	40	15-Apr
KWS338	95	57.3	36	15-Apr
Dyna-Gro 9120	94	58.1	35	15-Apr
Dyna-Gro WX20738	94	57.5	37	14-Apr
AR15V31-26-2285N	94	58.4	37	15-Apr
GA-18LE23F	94	57.0	35	11-Apr
Go Wheat LA 754	94	54.7	39	12-Apr
LA15203-LDH112	94	58.1	37	13-Apr
USG 3472	93	57.1	36	17-Apr
SY Viper	93	57.4	37	12-Apr
SREXP0119	93	56.0	35	12-Apr
LA12080LDH-72	93	56.1	38	12-Apr
USG 3536	93	56.5	38	16-Apr

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Head Date Day-Month
AgriMAXX 513	92	57.4	37	15-Apr
USG 3640	92	59.3	38	12-Apr
13VTK428	92	59.0	37	15-Apr
SY Richie	91	55.6	34	12-Apr
Dyna-Gro 9811	91	57.0	36	14-Apr
AGS 2055	90	58.3	41	15-Apr
AgriMAXX 505	90	57.8	35	16-Apr
KWS291	87	56.5	36	19-Apr
AGS 2024	87	57.9	36	14-Apr
LW2169	87	55.7	35	17-Apr
AGS 3015	87	57.9	37	9-Apr
LA12275LDH-56	86	58.1	42	14-Apr
GA-18E35	86	59.3	37	14-Apr
USG 3562	86	57.2	38	18-Apr
SY 547	85	57.5	38	15-Apr
AR11051-15-3	84	59.2	40	13-Apr
LA15166-LDH272	84	58.5	37	13-Apr
Liberty 5658	82	57.2	37	12-Apr
USG 3539	82	58.0	36	16-Apr
Average	95	58	37	14-Apr
LSD @ 10%	12	1.1	2	1 day
CV	11	2	6	2
Model R-Square	0.54	0.77	0.70	0.88

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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OAT

TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER

BELLE MINA, AL

High amounts of rainfall prior to harvest caused excessive lodging. This lodging prevented the TVREC oat trial from being harvested.

TABLE 33 - LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Lodging %	Head Date Day-Month
UF1	.	.	63	.	18-Apr
UF10	.	.	63	.	16-Apr
Average	.	.	63	.	17-Apr
LSD @ 10%	.	.	N.S.	.	N.S.
CV	.	.	2	.	1
Model R-Square	.	.	0.46	.	1.0

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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BARLEY

TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER

BELLE MINA, AL

TABLE 34 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Lodging %	Head Date Day-Month	Cold Damage % (2/12/21)	Stand %
Secretariat	**114**	44.4	35	0	9-Apr	22	100
BC Clementine	**104**	44.5	34	0	13-Apr	40	100
Thoroughbred	**103**	43.8	34	0	12-Apr	28	100
BC Fay	**102**	41.9	33	0	12-Apr	37	100
KWS Faro	**102**	42.5	33	0	15-Apr	38	100
KWS Somerset	99	41.7	35	0	16-Apr	55	100
Flavia	99	41.2	29	0	16-Apr	40	100
LCS Calypso	96	42.7	34	0	16-Apr	35	100
OMZ20	95	42.1	33	3	17-Apr	33	100
KWS Donau	94	41.7	34	0	7-Apr	43	100
KWS Scala	93	39.0	32	7	14-Apr	53	100
Nomini	93	38.9	37	0	7-Apr	28	100
Sangria	92	42.3	25	0	4-Apr	12	93
ARS15B12	91	44.5	37	0	11-Apr	25	100
12W587-n-28	91	45.0	36	7	17-Apr	30	100
KWS Joyau	90	41.2	26	7	16-Apr	52	100
Klarinette	90	43.6	25	3	28-Mar	8	97
Hirondella	89	44.2	34	0	16-Apr	33	100
Lightning	89	42.5	34	0	16-Apr	62	100
Barbarella	89	41.7	23	0	28-Mar	10	97
ARS16B06	88	41.5	33	0	7-Apr	35	100
Avalon	88	46.2	39	0	12-Apr	38	100
OMP2	87	44.4	31	0	17-Apr	47	100
Explorer	86	41.4	21	13	31-Mar	13	100
KWS Willis	86	44.0	25	3	4-Apr	15	80
2ND32184	85	39.7	27	17	27-Mar	10	100
VA16BFHB-268 NA	85	41.3	41	0	5-Apr	30	100
Thunder	82	37.8	30	23	7-Apr	35	100
KWS Fantex	82	42.4	22	0	5-Apr	18	87
VA15H-73 2R	82	**52.4**	39	0	14-Apr	30	100
Tradition	82	39.8	32	0	29-Mar	7	100
Amaze 10	81	**54.6**	36	0	5-Apr	33	100
AAC Synergy	80	37.2	29	13	28-Mar	25	100
KWS Jessie	80	41.9	21	0	27-Mar	18	100
2ND37130	80	38.3	31	3	26-Mar	23	100
LCS Violetta	80	42.5	35	0	12-Apr	35	100
Esma	78	41.5	23	13	4-Apr	17	80
2ND37568	77	35.1	30	7	26-Mar	25	100
12W595-n-02	77	40.6	28	80	16-Apr	32	100

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Lodging %	Head Date Day-Month	Cold Damage % (2/12/21)	Stand %
Brunilda	77	42.1	26	3	4-Apr	10	87
Pinnacle	76	33.8	31	17	26-Mar	18	100
VA16M-84 2R	75	46.5	38	3	9-Apr	28	100
Focus	75	39.0	27	7	27-Mar	18	90
2ND32529	75	35.9	34	3	26-Mar	15	100
AAC Connect	75	33.9	29	17	28-Mar	27	100
OMR20	74	42.3	31	0	18-Apr	58	100
Eifel	74	42.2	25	0	4-Apr	15	77
ND Genesis	73	39.2	32	10	28-Mar	12	100
2ND37111	73	37.2	31	3	27-Mar	22	100
Newdale	72	39.4	30	0	5-Apr	23	97
2ND36642	72	39.9	29	0	30-Mar	20	100
2ND36638	66	39.5	28	3	29-Mar	18	100
Conlon	63	39.7	26	30	26-Mar	20	100
Average	85	41.6	31	6	6-Apr	28	98
LSD @ 10%	14	2.6	4	8	3 days	9	6
CV	16	10	17	235	8	53	7
Model R-Square	0.61	0.85	0.83	0.87	0.95	0.85	0.72

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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TRITICALE

TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER

BELLE MINA, AL

TABLE 35 - LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel	Height inches	Head Date Day-Month
TriCal 342	76	48.3	50	9-Apr
TriCal Thor	69	45.5	63	23-Apr
TriCal 344	69	50.8	40	6-Apr
TriCal Surge	68	45.4	62	20-Apr
FL08128	65	49.5	50	7-Apr
TriCal Merlin Max	62	44.6	52	23-Apr
TriCal Flex 719	57	45.3	65	23-Apr
Average	67	47.1	55	15-Apr
LSD @ 10%	N.S.	2.9	3	1 day
CV	12	6	16	7
Model R-Square	0.50	0.70	0.97	0.99

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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WHEAT
SAND MOUNTAIN RESEARCH AND EXTENSION CENTER
CROSSVILLE, AL

TABLE 36 - LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Head Date Day-Month
AgriMAXX 514	**94**	20-Apr
AgriMAXX 503	**93**	22-Apr
Go Wheat 6000	**93**	15-Apr
LW2169	**93**	21-Apr
KWS338	**92**	19-Apr
GA-18E26	**92**	18-Apr
USG 3472	**91**	20-Apr
Dyna-Gro Blanton	**91**	14-Apr
LA12080LDH-72	**90**	14-Apr
Dyna-Gro 9172	**89**	20-Apr
KWS369	**89**	20-Apr
AgriMAXX 513	**89**	20-Apr
KWS291	**89**	22-Apr
USG 3352	**89**	21-Apr
SY 547	**89**	18-Apr
LW2148	**88**	22-Apr
AgriMAXX 505	**88**	21-Apr
USG 3329	**87**	19-Apr
SY Richie	**87**	17-Apr
GA-18E35	**87**	16-Apr
AGS 3040	**87**	14-Apr
LW2068	**87**	19-Apr
USG 3640	**87**	12-Apr
Dyna-Gro 9120	**87**	17-Apr
LW2026	**86**	11-Apr
AgriMAXX 492	85	13-Apr
13VTK428-3	85	21-Apr
KWS263	85	20-Apr
Liberty 5658	85	13-Apr
USG 3539	84	22-Apr
USG 3536	84	20-Apr
SY Viper	84	14-Apr
AGS 2055	84	18-Apr
Dyna-Gro 9811	84	16-Apr
LA15203-LDH274	83	15-Apr
USG 3562	83	12-Apr
Dyna-Gro 9002	83	20-Apr
PGX 20-15	82	22-Apr
AGS 2021	82	15-Apr
GA-18LE43F	82	18-Apr

Variety	Yield bushels per acre	Head Date Day-Month
Dyna-Gro Plantation	82	10-Apr
AR15V31-26-2285N	82	15-Apr
AR11051-15-3	81	19-Apr
Dyna-Gro Riverland	81	12-Apr
AgriMAXX 473	81	17-Apr
Go Wheat 2032	80	10-Apr
Dyna-Gro WX20738	80	16-Apr
AGS 2024	80	18-Apr
GA-18LE23F	79	17-Apr
LW2848	79	20-Apr
GA-18ESc43F	79	14-Apr
LA15203-LDH112	78	20-Apr
Go Wheat LA 754	78	13-Apr
AR09137UC-17-2	77	16-Apr
AGS 3015	77	10-Apr
LA15166-LDH272	76	15-Apr
Dyna-Gro Rutledge	76	11-Apr
LA12275LDH-56	76	21-Apr
SREXP0119	75	14-Apr
Average	85	16-Apr
LSD @ 10%	8	2 days
CV	9	4
Model R-Square	0.61	0.85

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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OAT

SAND MOUNTAIN RESEARCH AND EXTENSION CENTER

CROSSVILLE, AL

TABLE 37 - LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Head Date Day-Month
UF1	63	
UF10	61	
Average	62	
LSD @ 10%	N.S.	
CV	6	
Model R-Square	0.61	

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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TRITICALE

SAND MOUNTAIN RESEARCH AND EXTENSION CENTER

CROSSVILLE, AL

TABLE 38 - LOCATION SPECIFIC DATA

Variety	Yield bushels per acre
TriCal 342	111
TriCal Surge	107
TriCal Thor	107
TriCal Flex 719	106
TriCal Merlin Max	106
FL08128	93
TriCal 344	92
Average	103
LSD @ 10%	N.S.
CV	10
Model R-Square	0.56

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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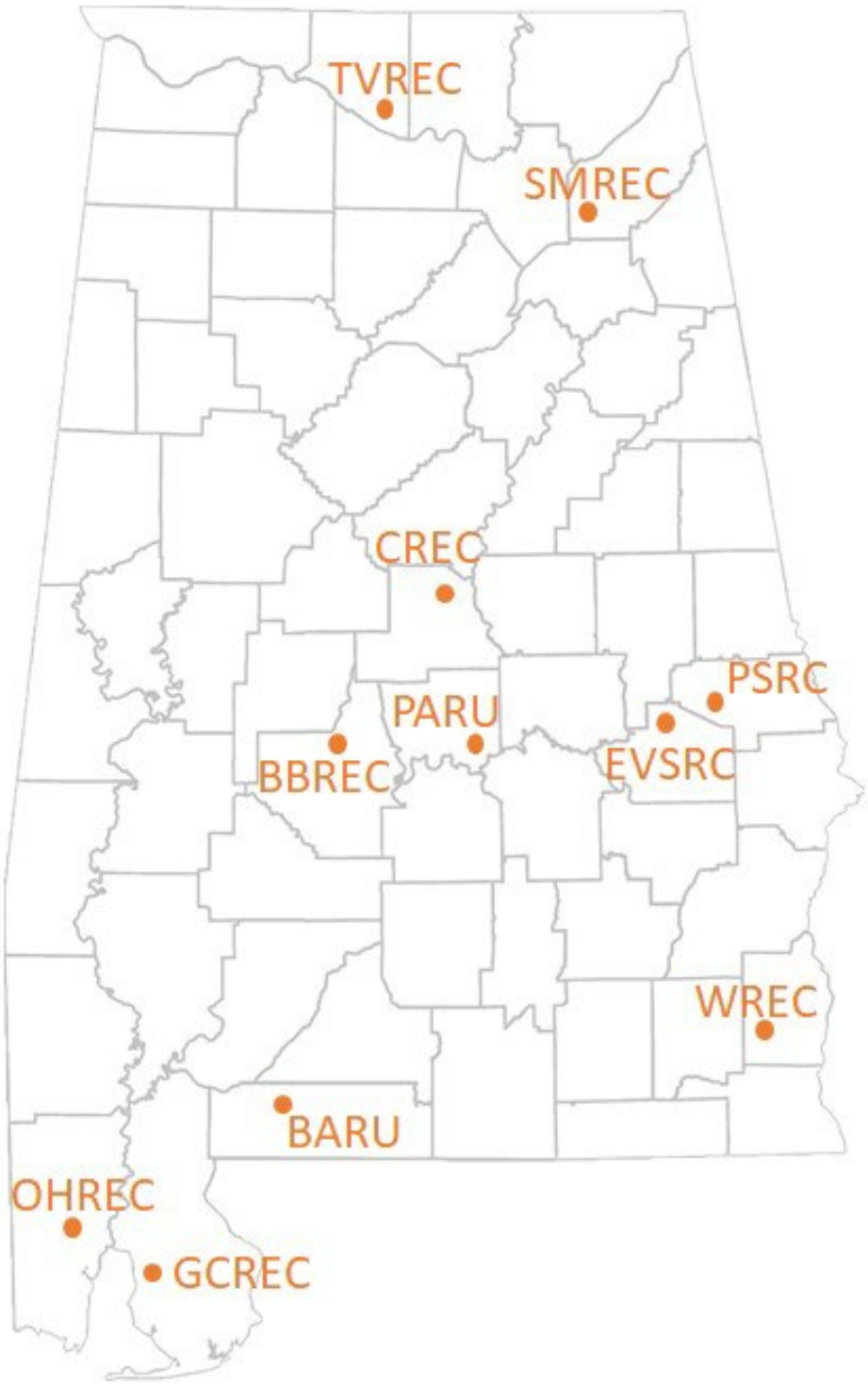

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