

PERFORMANCE OF FIELD CORN HYBRIDS IN ALABAMA, 2021

DEPT. SERIES NO. CSES2021: CORN
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CROP, SOIL & ENVIRONMENTAL SCIENCES
AUBURN UNIVERSITY, AUBURN AL
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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.

Results do not imply endorsement or recommendation by the Auburn University Variety Testing Program



ACKNOWLEDGEMENT

**DR. PAUL PATTERSON, DEAN AND DIRECTOR
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SOUTH REGION

**BREWTON AGRICULTURAL RESEARCH UNIT
BREWTON, AL**

Malcomb Pegues, Director

Brad Miller, Associate Director

NON-IRRIGATED WEBSITE

**GULF COAST RESEARCH AND EXTENSION CENTER
FAIRHOPE, AL**

Malcomb Pegues, Director

Jarrod Jones, Associate Director

IRRIGATED NON-IRRIGATED WEBSITE

CENTRAL REGION

E.V. SMITH RESEARCH AND EXTENSION CENTER FIELD CROPS UNIT, SHORTER, AL

Shawn Scott, Associate Director

NON-IRRIGATED

WEBSITE

PRATTVILLE AGRICULTURAL RESEARCH UNIT PRATTVILLE, AL

Josh Canterbury, Associate Director

IRRIGATED

NON-IRRIGATED

WEBSITE

NORTH REGION

TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER BELLE MINA, AL

Chet Norris, Director

David Harkins, Associate Director

IRRIGATED

NON-IRRIGATED

WEBSITE

SAND MOUNTAIN RESEARCH AND EXTENSION CENTER CROSSVILLE, AL

Clint McElmoyl, Associate Director

NON-IRRIGATED

WEBSITE

MANAGEMENT

Irrigated trials are planted at 34,000 seed per acre and non-irrigated trials are planted at 27,000 seed per acre with the exception of the Gulf Coast location. The non-irrigated corn at the Gulf Coast location was planted at 26,000 seed per acre. Moisture is recorded at the time of harvest and yields are standardized to 15.5% moisture for head-to-head comparison.

TABLE 1 - LOCATION SPECIFIC INFORMATION

Research Center	Tennessee Valley	Sand Mountain	E.V. Smith	Prattville	Brewton	Gulf Coast
Location	Belle Mina	Crossville	Shorter	Prattville	Brewton	Fairhope
Region	North	North	Central	Central	South	South
Trial Types	Irrigated Non-Irrigated	Non-Irrigated	Non-Irrigated	Irrigated Non-Irrigated	Non-Irrigated	Irrigated Non-Irrigated
Plant Date	April 5	May 17	April 7	April 5	March 22	March 30
Harvest Date	September 9	October 14	August 26	Sept. 13 – Irr Sept 23 - Dry	August 25	August 19
Row Spacing	30	30	36	36	36	38
Soil Type	Decatur Silt Loam	Hartselle Fine Sandy Loam	Compass Sandy Loam	Lucedale Fine Sandy Loam	Benndale Fine Sandy Loam	Malbis Fine Sandy Loam
Tillage	No-Till	No-Till	Strip Till	Para Till	Strip Till	Strip Till
Fertilization Irrigated	268N-46P- 60K-45S	NA	NA	285N-37P- 37K	N/A	232N-114P- 131K
Fertilization Non- Irrigated	175N-40P- 40K-40S	300N-0P-0K	185N-73P- 60K	228N-37P- 37K	227N-58P- 156K	160N-104P- 120K
Herbicides	Gramoxone HarmonyExtra Haylex GT Roundup Sharpen	Atazine Dual	Atrazine Clarity Roundup Simazine 2,4-D	Atrazine Dual Magnum Roundup	Atrazine Dual Magnum Roundup	Atrazine Callisto Dual Makaze
Insecticides	None	None	Sniper	Tundra	Sniper	Sniper
Fungicides	None	None	None	None	Headline	Headline
Test Conducted By	B. Durham D. Harkins	C. McElmoyl	S. Scott H. Mote	J. Canterbury C. Henderson	B. Miller	M. Pegues J. Jones

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TABLE 2 – RAINFALL AND IRRIGATION IN INCHES

Research Center	Tennessee Valley	Sand Mountain	E.V. Smith	Prattville	Brewton	Gulf Coast
Season Total Irrigation	2.40	0.00	0.00	7.24	0.00	1.50
Season Total Rainfall	29.43	35.33	28.24	31.49	49.04	35.83

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SEED SOURCES

TABLE 3 – SEED SOURCE, VARIETY NAME, MATURITY, SEED PER POUND, AND REGIONS TESTED

Source	Source Location	Variety	Maturity (Days)	North Region	Central Region	South Region
AgriGold	St. Francisville, IL	A6572VT2RIB	114	Yes	No	Yes
		A6544VT2RIB	113	Yes	No	Yes
		A645-16VT2RIB	115	Yes	No	Yes
		A6659VT2RIB	116	Yes	No	Yes
		A647-42TRC	117	Yes	No	Yes
Dyna-Gro	Kinston, AL	D51VC41	111	No	Yes	Yes
		D51VC67	111	No	Yes	Yes
		D53TC19	113	Yes	Yes	Yes
		D53VC33	113	Yes	Yes	Yes
		D52VC63	112	Yes	Yes	Yes
		D54VC34	114	Yes	Yes	Yes
		D54VC14	114	Yes	Yes	Yes
		D55VC80	115	Yes	Yes	Yes
		D57TC29	117	Yes	Yes	Yes
		D57VC51	117	Yes	Yes	Yes
		D57RR51	117	Yes	Yes	Yes
D58VC65	118	Yes	Yes	Yes		
Bayer Crop Science	St. Louis, MO	DLC 62-70 GENVT2P	112	Yes	Yes	Yes
		DKC 65-84 GENNSS	115	Yes	Yes	Yes
		DKC 68-48 GENNSS	118	Yes	Yes	Yes
		DKC 68-95 GENNSS	118	Yes	Yes	Yes
		DKC 70-25	120	Yes	Yes	Yes
Local Seed Company	Memphis, TN	LC1307 TC	113	Yes	Yes	Yes
		LC1407 VT2P	114	Yes	Yes	Yes
		LC1506 VT2P	115	Yes	Yes	Yes
		LC1616 TC	116	Yes	Yes	Yes
		LC1707 VT2P	117	Yes	Yes	Yes
		LC1898 TC	118	Yes	Yes	Yes
		LC1987 VT2P	119	Yes	Yes	Yes
		LC1919 VT2P	119	Yes	Yes	Yes
Pioneer Seed	Dothan, AL	P1847VYHR	118	No	Yes	Yes
		P1870YHR	118	No	Yes	Yes

Source	Source Location	Variety	Maturity (Days)	North Region	Central Region	South Region
Winfield United	Kinsley, AL	Croplan 5497 VT2P	114	Yes	Yes	Yes
		Croplan 5550 VT2P	115	Yes	Yes	Yes
		Croplan 5678 VT2P	115	Yes	Yes	Yes

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SEED PER POUND

TABLE 4 – SEED PER POUND

Variety	Seed per Pound
LC1707 VT2P	2342
DKC 70-25	2213
DKC 68-95 GENNSS	2207
D54VC34	2191
D57VC51	2077
LC1616 TC	2073
P1847VYHR	2072
Croplan 5497 VT2P	2061
D51VC41	2040
D53TC19	2039
D54VC14	1999
D58VC65	1974
D52VC63	1960
DKC 65-84 GENNSS	1916
A645-16VT2RIB	1883
Croplan 5678 VT2P	1867
D51VC67	1865
D57RR51	1858
P1870YHRCC	1821
DLC 62-70 GENVT2P	1773
DKC 68-48 GENNSS	1754
D53VC33	1718
A6659VT2RIB	1717
A6572VT2RIB	1702
D55VC80	1681
A6544VT2RIB	1681
LC1919 VT2P	1670
A647-42TRC	1662
Croplan 5550 VT2P	1654
D57TC29	1635
LC1987 VT2P	1532
LC1506 VT2P	1505
LC1898 TC	1489
LC1407 VT2P	1436
LC1307 TC	1427
Average	1843
LSD @ 10% level	56
CV	13
Model R-Square	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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NON-IRRIGATED
BREWTON AGRICULTURAL RESEARCH UNIT
BREWTON, AL

TABLE 5 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel
D57VC51	228	57.4
P1870YHR	215	57.9
D58VC65	214	58.4
D53TC19	212	59.5
LC1307 TC	212	57.9
D53VC33	211	57.9
Croplan 5678 VT2P	211	59.7
Croplan 5497 VT2P	211	57.7
D55VC80	210	57.4
DLC 62-70 GENVT2P	210	58.1
D54VC34	209	59.1
D57TC29	209	57.4
LC1707 VT2P	208	59.2
A647-42TRC	208	57.1
Croplan 5550 VT2P	206	56.7
A6659VT2RIB	206	58.6
LC1616 TC	205	58.3
D51VC41	205	57.0
D54VC14	204	58.7
LC1898 TC	204	57.8
P1847VYHR	203	59.6
LC1919 VT2P	202	58.1
DKC 68-48 GENNSS	200	57.9
D52VC63	200	58.0
A6544VT2RIB	199	58.7
DKC 70-25	199	58.6
LC1987 VT2P	199	57.9
D51VC67	198	57.2
A6572VT2RIB	198	58.5
D57RR51	197	57.7
DKC 68-95 GENNSS	193	58.7
LC1407 VT2P	190	58.8
A645-16VT2RIB	185	57.2
DKC 65-84 GENNSS	185	57.4
LC1506 VT2P	175	57.7
Average	203	58.1
LSD @ 10% level	N.S.	N.S.
CV	10	2
Model R-Square	0.28	0.32

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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IRRIGATED
GULF COAST RESEARCH AND EXTENSION CENTER
FAIRHOPE, AL

TABLE 6 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel
DKC 70-25	238	57.2
P1847VYHR	233	57.7
DKC 68-48 GENNSS	232	57.6
LC1919 VT2P	228	56.9
LC1898 TC	227	57.6
D57RR51	226	56.3
D57VC51	225	56.9
LC1307 TC	224	55.6
LC1616 TC	224	58.5
LC1987 VT2P	221	57.4
D54VC14	219	57.3
A647-42TRC	218	55.2
LC1506 VT2P	218	57.2
A6544VT2RIB	218	56.0
DKC 68-95 GENNSS	218	57.8
Croplan 5497 VT2P	217	56.6
LC1407 VT2P	217	56.7
D53TC19	217	56.4
Croplan 5550 VT2P	215	55.5
A6572VT2RIB	215	59.0
D54VC34	215	56.7
A645-16VT2RIB	215	56.5
LC1707 VT2P	214	58.6
DKC 65-84 GENNSS	213	57.2
D57TC29	213	55.0
D55VC80	213	56.1
A6659VT2RIB	213	57.2
P1870YHR	212	58.8
D53VC33	212	56.2
D58VC65	210	57.4
DLC 62-70 GENVT2P	208	57.0
D52VC63	207	55.8
Croplan 5678 VT2P	204	57.4
D51VC67	193	54.4
D51VC41	189	55.5
Average	217	56.8
LSD @ 10% level	14	0.7
CV	7	2
Model R-Square	0.49	0.83

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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NON-IRRIGATED
GULF COAST RESEARCH AND EXTENSION CENTER
FAIRHOPE, AL

TABLE 7 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel
A6659VT2RIB	213	56.0
D57VC51	205	55.5
Croplan 5678 VT2P	201	56.0
Croplan 5497 VT2P	198	55.7
D54VC14	195	56.6
LC1407 VT2P	194	56.4
DLC 62-70 GENVT2P	194	56.0
D57TC29	192	54.7
DKC 68-48 GENNSS	192	56.2
D53VC33	190	56.3
D54VC34	190	55.8
A6544VT2RIB	188	55.1
D57RR51	187	55.9
D58VC65	186	56.4
LC1919 VT2P	186	56.3
LC1898 TC	185	56.4
LC1707 VT2P	184	57.1
DKC 65-84 GENNSS	184	55.8
D53TC19	181	55.6
A6572VT2RIB	179	58.0
P1870YHR	179	57.2
A647-42TRC	179	54.7
D52VC63	178	54.6
LC1506 VT2P	178	56.1
DKC 70-25	178	55.2
D51VC41	175	55.3
Croplan 5550 VT2P	173	54.9
A645-16VT2RIB	173	55.0
D55VC80	173	55.9
LC1616 TC	167	57.6
LC1307 TC	167	55.1
D51VC67	165	54.8
P1847VYHR	165	57.1
DKC 68-95 GENNSS	162	55.2
LC1987 VT2P	157	54.7
Average	183	55.9
LSD @ 10% level	22	0.8
CV	13	2
Model R-Square	0.51	0.68

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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NON-IRRIGATED
E.V. SMITH RESEARCH AND EXTENSION CENTER
FIELD CROPS UNIT - SHORTER, AL

This trial experienced exceptionally high stink bug and disease pressure resulting in abnormally low yields. The yields represented do not reflect the variety's true potential.

TABLE 8 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel
LC1616 TC	112	54.0
DKC 68-95 GENNSS	99	50.1
D57TC29	97	43.4
DKC 68-48 GENNSS	94	56.6
LC1919 VT2P	85	50.6
P1870YHR	84	52.2
D53VC33	78	46.1
LC1407 VT2P	77	45.6
D53TC19	77	45.2
DKC 65-84 GENNSS	75	51.3
P1847VYHR	70	53.6
D52VC63	63	50.3
Croplan 5497 VT2P	61	45.6
LC1898 TC	55	49.3
DKC 62-70 GENVT2P	54	48.4
D54VC34	54	48.1
D54VC14	53	41.2
D55VC80	53	48.0
Croplan 5550 VT2P	51	48.8
D58VC65	50	44.9
D57RR51	50	56.0
LC1987 VT2P	50	50.1
D57VC51	48	48.3
D51VC41	43	40.4
LC1307 TC	41	41.4
Croplan 5678 VT2P	38	55.3
LC1506 VT2P	33	44.7
D51VC67	27	38.4
DKC 70-25	20	35.5
LC1707 VT2P	15	17.7
Average	60	46.7
LSD @ 10% level	36	10.4
CV	65	23
Model R-Square	0.55	0.50

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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IRRIGATED
PRATTVILLE AGRICULTURAL RESEARCH UNIT
PRATTVILLE, AL

TABLE 9 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel
P1870YHR	228	58.7
D57VC51	214	57.9
D57RR51	213	58.4
D54VC14	212	57.0
LC1616 TC	205	59.2
D57TC29	203	56.6
D58VC65	198	57.5
Croplan 5678 VT2P	197	57.5
LC1307 TC	196	55.9
D53TC19	195	54.6
D55VC80	191	56.2
D53VC33	189	56.4
D54VC34	189	55.5
DKC 68-95 GENNSS	187	58.3
LC1919 VT2P	187	58.3
DKC 68-48 GENNSS	186	57.3
DKC 65-84 GENNSS	186	56.0
LC1898 TC	184	56.6
D51VC67	183	54.8
D52VC63	180	55.0
Croplan 5497 VT2P	177	54.2
LC1407 VT2P	176	56.3
Croplan 5550 VT2P	175	54.9
LC1707 VT2P	172	55.2
LC1987 VT2P	170	55.3
LC1506 VT2P	169	54.8
DKC 62-70 GENVT2P	168	54.4
P1847VYHR	165	57.8
D51VC41	164	53.1
DKC 70-25	158	54.1
Average	187	56.2
LSD @ 10% level	28	1.5
CV	19	4
Model R-Square	0.66	0.75

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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NON-IRRIGATED
PRATTVILLE AGRICULTURAL RESEARCH UNIT
PRATTVILLE, AL

TABLE 10 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel
D57RR51	196	56.7
Croplan 5678 VT2P	196	55.6
DKC 68-95 GENNSS	193	54.1
Croplan 5497 VT2P	192	54.3
D54VC14	187	55.6
D54VC34	187	52.4
D58VC65	186	54.6
LC1307 TC	184	52.6
D57TC29	182	55.1
D57VC51	180	54.9
D52VC63	179	54.7
LC1616 TC	179	56.7
DKC 62-70 GENVT2P	179	52.9
Croplan 5550 VT2P	175	51.3
DKC 68-48 GENNSS	174	54.1
LC1707 VT2P	172	53.7
DKC 65-84 GENNSS	172	52.1
DKC 70-25	171	52.8
D53TC19	171	53.0
LC1919 VT2P	167	54.1
P1870YHR	166	56.1
D53VC33	166	51.2
D51VC41	162	50.5
LC1506 VT2P	159	53.6
LC1898 TC	157	52.6
P1847VYHR	154	54.8
D55VC80	153	54.2
LC1407 VT2P	152	53.7
LC1987 VT2P	151	51.3
D51VC67	144	51.4
Average	173	53.7
LSD @ 10% level	23	2.3
CV	14	5
Model R-Square	0.52	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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IRRIGATED

TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER

BELLE MINA, AL

TABLE 11 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel
DKC 70-25	239	57.7
A6544VT2RIB	238	57.7
D55VC80	230	57.7
A645-16VT2RIB	230	57.7
LC1987 VT2P	230	58.4
D57VC51	229	58.5
Croplan 5678 VT2P	229	59.6
LC1898 TC	228	57.8
Croplan 5497 VT2P	227	57.7
D58VC65	226	57.0
DKC 68-48 GENNSS	225	56.0
A6572VT2RIB	223	58.4
Croplan 5550 VT2P	223	56.9
DKC 62-70 GENVT2P	223	58.7
A6659VT2RIB	223	59.1
D57TC29	223	55.7
D57RR51	222	57.8
D54VC34	222	59.5
LC1919 VT2P	221	58.1
D53TC19	220	54.9
LC1407 VT2P	220	58.6
LC1307 TC	219	56.7
D52VC63	219	56.9
LC1506 VT2P	218	59.1
DKC 68-95 GENNSS	217	56.1
LC1707 VT2P	216	58.8
D54VC14	214	59.3
LC1616 TC	213	58.3
D53VC33	204	56.7
A647-42TRC	203	56.3
DKC 65-84 GENNSS	198	57.2
Average	222	58
LSD @ 10% level	15	2.2
CV	7	5
Model R-Square	0.40	0.65

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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NON-IRRIGATED
TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER
BELLE MINA, AL

TABLE 12 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel
D53TC19	198	59.4
D54VC14	197	58.8
LC1307 TC	197	57.6
D58VC65	190	58.2
A6544VT2RIB	190	57.9
D54VC34	189	57.1
D57VC51	187	57.6
A6659VT2RIB	186	57.9
Croplan 5678 VT2P	185	59.5
D55VC80	185	57.1
Croplan 5497 VT2P	183	58.0
D53VC33	183	57.7
D57TC29	183	56.8
D52VC63	182	57.8
Croplan 5550 VT2P	181	56.8
A6572VT2RIB	181	60.0
DKC 62-70 GENVT2P	181	58.8
A645-16VT2RIB	180	69.9
LC1707 VT2P	178	59.3
DKC 68-48 GENNSS	178	58.7
DKC 65-84 GENNSS	177	58.2
LC1506 VT2P	177	60.3
DKC 68-95 GENNSS	177	58.0
LC1898 TC	176	59.0
LC1407 VT2P	175	59.3
A647-42TRC	175	56.8
LC1919 VT2P	174	57.6
D57RR51	174	58.1
DKC 70-25	173	57.3
LC1616 TC	172	59.1
LC1987 VT2P	171	57.9
Average	182	58.6
LSD @ 10% level	N.S.	N.S.
CV	8	8
Model R-Square	0.38	0.36

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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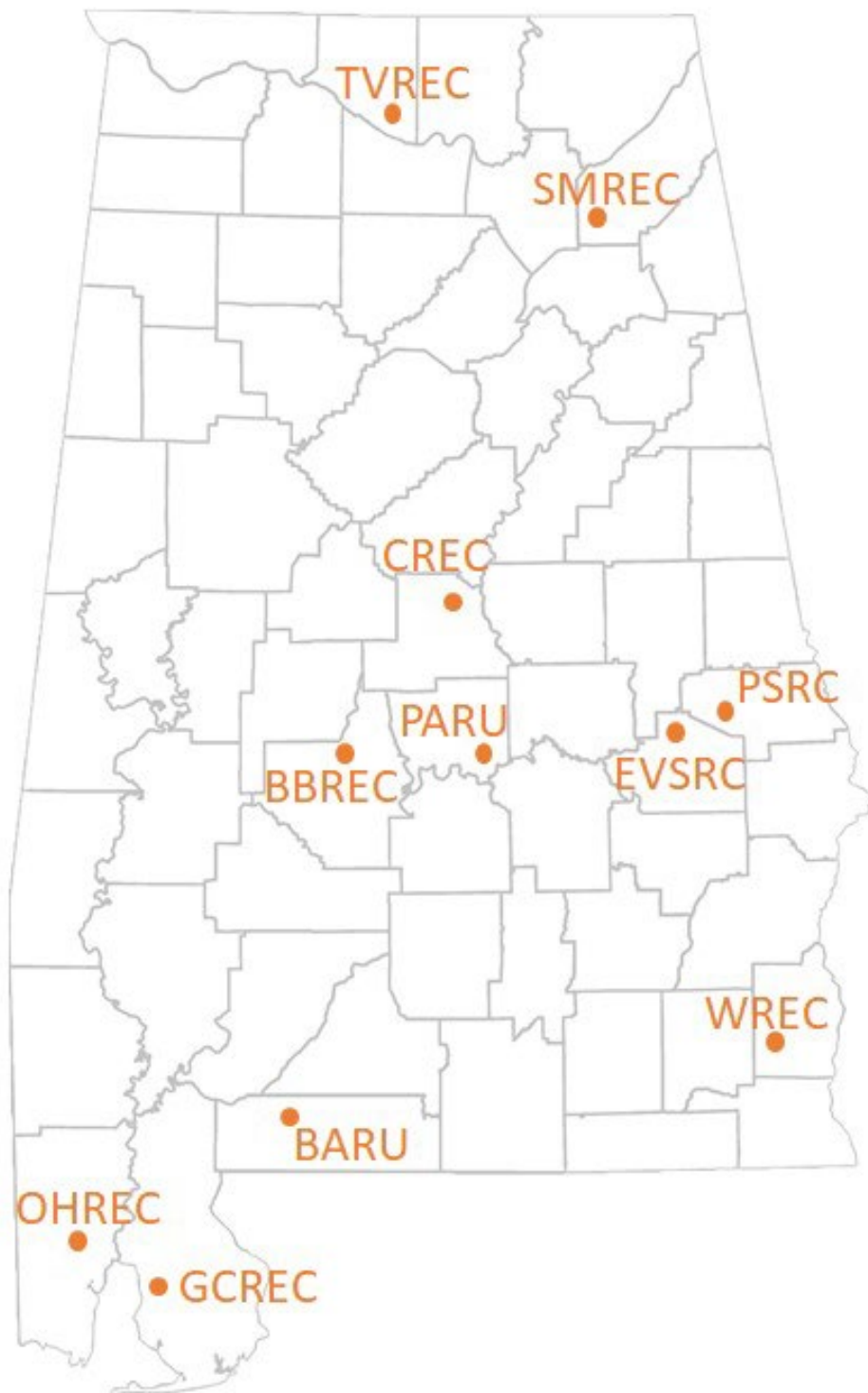
NON-IRRIGATED
SAND MOUNTAIN RESEARCH AND EXTENSION CENTER
CROSSVILLE, AL

TABLE 13 - LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel
LC1898 TC	129	58.5
D55VC80	128	54.5
LC1987 VT2P	128	56.7
LC1307 TC	126	54.1
DKC 68-48 GENNSS	126	53.2
DKC 68-95 GENNSS	124	55.4
A645-16VT2RIB	124	55.2
LC1707 VT2P	123	55.5
D54VC34	123	51.1
DKC 62-70 GENVT2P	121	51.0
LC1919 VT2P	120	63.5
A6572VT2RIB	120	50.9
LC1616 TC	120	55.1
D53TC19	120	51.0
D57TC29	119	49.0
D58VC65	118	53.0
DKC 70-25	116	52.1
D57VC51	115	53.3
D53VC33	114	47.7
Croplan 5497 VT2P	113	52.5
DKC 65-84 GENNSS	112	50.2
D52VC63	112	51.0
D54VC14	112	49.0
Croplan 5678 VT2P	111	50.3
A6659VT2RIB	108	59.0
A647-42TRC	106	48.8
LC1407 VT2P	104	44.7
D57RR51	99	49.1
Croplan 5550 VT2P	96	43.0
LC1506 VT2P	95	42.9
A6544VT2RIB	89	41.1
Average	115	51.7
LSD @ 10% level	12	7.6
CV	12	14
Model R-Square	0.60	0.43

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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