

PERFORMANCE OF FIELD CORN HYBRIDS IN ALABAMA, 2020

DEPT. SERIES NO. CSES2020: CORN
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CROP, SOIL & ENVIRONMENTAL SCIENCES
AUBURN UNIVERSITY, AUBURN AL
OCTOBER 9, 2020

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 endorsement or recommendation by the Auburn University Variety Testing Program



ACKNOWLEDGEMENT

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MANAGEMENT

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 6	May 4	April 6	March 24	March 24	March 12
Harvest Date	September 10	October 8	August 18	Irr – Sept. 2 Non – Sept. 15	August 17	August 7
Average Yield (bu/ac)	Irr – 235 Non - 157	145	195	Irr – 220 Non - 114	158	Irr – 211 Non - 169
Max Yield (b/ac)	Irr – 253 Non – 169	168	248	Irr – 244 Non – 144	174	Irr – 232 Non – 186
Min Yield (bu/ac)	Irr – 214 Non - 139	97	172	Irr – 181 Non - 86	140	Irr – 193 Non - 155
Row Spacing	30 inches	30 inches	36 inches	36 inches	36 inches	38 inches
Number of Replications	4	4	4	4	4	4
Irrigated Population	25,118	N/A	N/A	32,128	N/A	31,083
Non-Irrigated Population	35,495	28,408	29,320	24,006	24,698	23,583
Plot Length In feet	25	20	25	20	20	20
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
Irrigation	5.00 inches	N/A	N/A	1.50 inches	N/A	1.75 inches
Season Total Rainfall	22.18 inches	23.09 inches	20.43 inches	32.58 inches	36.44 inches	29.61 inches
March Rainfall	N/A	N/A	N/A	4.78 inches	2.29 inches	0.4 inches

Research Center	Tennessee Valley	Sand Mountain	E.V. Smith	Prattville	Brewton	Gulf Coast
April Rainfall	7.08 inches	N/A	7.01 inches	5.70 inches	10.59 inches	2.78 inches
May Rainfall	4.35 inches	6.34 inches	3.22 inches	3.38 inches	3.92 inches	4.01 inches
June Rainfall	3.52 inches	4.43 inches	4.91 inches	5.14 inches	6.61 inches	8.59 inches
July Rainfall	2.90 inches	2.74 inches	4.39 inches	6.36 inches	10.97 inches	13.78 inches
August Rainfall	3.92 inches	5.81 inches	0.9 inches by harvest	7.22 inches	2.06 inches by harvest	0.05 inches by harvest
September Rainfall	.41 inches by harvest	3.7 inches	N/A	6.05 by Irrigated test harvest	N/A	N/A
October Rainfall	N/A	0 inches by harvest	N/A	N/A	N/A	N/A
Fertilization Irrigated	268N-45P-60K	N/A	N/A	320N	N/A	247N-101P-132K
Fertilization Non-Irrigated	175N-40P-40K	292N	210N-50P-50K	130N	301N-61P-211K	177N-101P-132K
Herbicides	Atrazine Halex GT Roundup	Atrazine Dual Halex Roundup	Aim Atrazine Buctril Dual Magnum Liberty Roundup	Atrazine Dual Gramozone Valor	Atrazine Dual Magnum	Atrazine Callisto Dual Magnum Roundup
Insecticides	None	None	Counter 20G	Bifenthrin	Brigade	Brigade
Fungicides	None	None	None	None	HeadlineAMP	Trivapro
Test Conducted By	B. Durham D. Harkins	C. McElmoyl J. Bloodworth J. Clayton	S. Scott	D. Moore C. Henderson	B. Miller	M. Pegues J. Jones

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SEED SOURCES

TABLE 2 – SEED SOURCE, VARIETY NAME, AND REGIONS TESTED

Source	Source Location	Variety	Maturity (Days)	North Region	Central Region	South Region
AgriGold	St. Francisville, IL	A6544VT2RIB	113	Yes	Yes	Yes
		A645-16VT2PRO	115	Yes	Yes	Yes
		A6659VT2RIB	116	Yes	Yes	No
		A647-35-3330	117	Yes	Yes	No
Dyna-Gro	Kinston, AL	DG54VC14	114	Yes	Yes	Yes
		DG55VC80	115	Yes	Yes	Yes
		DG58VC65	118	Yes	Yes	Yes
Bayer Crop Science	St. Louis, MO	DKC 64-64RIB	114	Yes	Yes	Yes
		DKC67-37 GEN SS	117	Yes	Yes	Yes
		DKC68-69 VT2P	117	Yes	Yes	Yes
		DKC69-99 TRECEPTA	119	Yes	Yes	Yes
Local Seed Company	Memphis, TN	LC1307 TC	113	Yes	Yes	Yes
		LC1289 VT2P	112	Yes	Yes	Yes
		LC1398 VT2P	113	Yes	Yes	Yes
		LC1497 DGVT2P	114	Yes	Yes	Yes
		LC1407 VT2P	114	Yes	Yes	Yes
		LC1577 VT2P	115	Yes	Yes	Yes
		LC1506 VT2P	115	Yes	Yes	Yes
		LC1697 VT2P	116	Yes	Yes	Yes
		LC1707 VT2P	117	Yes	Yes	Yes
		LC1806 VT2P	118	Yes	Yes	Yes
		LC1898 TC	118	Yes	Yes	Yes
		LC1987 VT2P	119	Yes	Yes	Yes

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2020 STATEWIDE IRRIGATED SUMMARY

TABLE 3 - YIELD IN BUSHELS PER ACRE

Variety	Statewide	TVREC	PARU	GREC
LC1898 TC	235.9	252	224	232
DKC69-99 TRECEPTA	232.3	247	242	207
DG55VC80	231.0	242	230	222
LC1307 TC	230.8	253	218	221
LC1577 VT2P	227.6	237	226	220
LC1407 VT2P	227.1	240	221	220
LC1707 VT2P	226.7	241	227	212
DKC68-69 VT2P	226.0	237	227	213
A645-16VT2PRO	224.2	239	222	211
A6544VT2RIB	224.0	214	236	222
LC1987 VT2P	223.4	237	211	222
LC1506 VT2P	221.3	239	207	218
DG54VC14	220.5	228	226	208
DG58VC65	220.4	235	221	205
LC1806 VT2P	217.8	239	210	203
DKC67-37 GEN SS	216.7	230	215	205
LC1697 VT2P	212.9	218	214	207
LC1289 VT2P	209.1	227	196	204
LC1398 VT2P	208.8	229	204	193
DKC 64-64RIB	208.0	218	211	194
LC1497 DGVT2P	206.0	236	181	201
A647-35-3330	.	225	240	.
A6659VT2RIB	.	237	244	.
Average	221.5	235	220	211
LSD @ 10% Level	10.2	15	14	13
CV	9	8	8	7

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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2020 STATEWIDE NON-IRRIGATED SUMMARY

TABLE 4 - YIELD IN BUSHELS PER ACRE

Variety	Statewide Dryland	North Region Dryland	Central Region Dryland	South Region Dryland
DKC69-99 TRECEPTA	177	164	187	180
LC1577 VT2P	168	161	167	175
LC1898 TC	164	165	160	169
LC1707 VT2P	164	165	162	165
DG55VC80	163	155	161	172
DKC68-69 VT2P	162	161	161	166
LC1307 TC	160	148	157	174
DG58VC65	159	148	159	170
LC1987 VT2P	158	160	154	161
A6544VT2RIB	157	149	150	173
LC1506 VT2P	157	147	160	163
DG54VC14	156	155	150	164
DKC67-37 GEN SS	155	153	148	162
LC1398 VT2P	154	152	150	160
A645-16VT2PRO	152	146	144	165
LC1497 DGVT2P	151	161	142	149
LC1806 VT2P	149	142	148	158
LC1289 VT2P	148	151	137	157
LC1407 VT2P	145	138	148	150
LC1697 VT2P	142	135	136	153
DKC 64-64RIB	139	121	140	157
A647-35-3330	.	144	163	.
A6659VT2RIB	.	155	171	.
Average	156	151	153	164
LSD @ 10% Level	8	14	15	12
CV	20	13	29	10

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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
DKC69-99 TRECEPTA	174	57.7
LC1577 VT2P	172	59.9
A645-16VT2PRO	171	58.8
DG55VC80	170	58.3
LC1307 TC	166	59.5
DG58VC65	164	59.5
A6544VT2RIB	164	59.7
LC1707 VT2P	163	58.2
DG54VC14	163	59.8
LC1506 VT2P	160	58.2
LC1987 VT2P	160	57.8
LC1898 TC	159	57.2
DKC67-37 GEN SS	159	58.1
DKC68-69 VT2P	157	58.6
LC1398 VT2P	156	59.0
LC1289 VT2P	150	59.1
LC1806 VT2P	148	58.5
DKC 64-64RIB	145	58.5
LC1497 DGVT2P	144	58.8
LC1697 VT2P	142	58.6
LC1407 VT2P	140	59.1
Average	158	59
LSD @ 10% Level	18	N.S.
CV	10	3

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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
LC1898 TC	232	55.5
DG55VC80	222	55.2
A6544VT2RIB	222	56.0
LC1987 VT2P	222	55.6
LC1307 TC	221	55.7
LC1577 VT2P	220	57.3
LC1407 VT2P	220	56.8
LC1506 VT2P	218	57.7
DKC68-69 VT2P	213	55.6
LC1707 VT2P	212	56.1
A645-16VT2PRO	211	54.9
DG54VC14	208	56.8
DKC69-99 TRECEPTA	207	56.4
LC1697 VT2P	207	56.6
DG58VC65	205	56.3
DKC67-37 GEN SS	205	55.9
LC1289 VT2P	204	54.6
LC1806 VT2P	203	57.2
LC1497 DGVT2P	201	53.2
DKC 64-64RIB	194	54.3
LC1398 VT2P	193	53.9
Average	211	55.8
LSD @ 10% Level	13	0.8
CV	7	2

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
DKC69-99 TRECEPTA	186	56.8
LC1307 TC	183	55.2
A6544VT2RIB	183	56.1
LC1898 TC	178	57.2
LC1577 VT2P	178	57.3
DG58VC65	175	56.1
DG55VC80	175	56.2
DKC68-69 VT2P	174	55.3
DKC 64-64RIB	169	55.8
LC1806 VT2P	167	57.4
LC1707 VT2P	166	57.2
DKC67-37 GEN SS	166	57.4
LC1506 VT2P	166	58.1
DG54VC14	165	56.1
LC1289 VT2P	164	56.2
LC1697 VT2P	164	57.0
LC1398 VT2P	164	55.1
LC1987 VT2P	162	55.7
A645-16VT2PRO	160	56.0
LC1407 VT2P	160	57.2
LC1497 DGVT2P	155	55.5
Average	169	56.4
LSD @ 10% Level	15	0.8
CV	8	2

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

TABLE 8 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel
DKC69-99 TRECEPTA	248	58
LC1707 VT2P	219	58
LC1506 VT2P	210	58
DKC68-69 VT2P	205	58
A647-35-3330	203	58
LC1898 TC	201	57
DG55VC80	199	57
LC1577 VT2P	198	58
A6659VT2RIB	197	59
LC1987 VT2P	196	58
A6544VT2RIB	194	57
DG58VC65	192	58
LC1806 VT2P	189	57
LC1697 VT2P	187	58
DG54VC14	187	58
LC1307 TC	186	59
DKC 64-64RIB	185	58
LC1398 VT2P	185	58
A645-16VT2PRO	185	58
DKC67-37 GEN SS	184	58
LC1497 DGVT2P	179	58
LC1407 VT2P	179	58
LC1289 VT2P	172	58
Average	195	58
LSD @ 10% Level	13	N.S.
CV	9	2

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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IRRIGATED
PRATTVILLE AGRICULTURAL RESEARCH UNIT
PRATTVILLE, AL

TABLE 9 – LOCATION SPECIFIC DATA

Variety	Yield bushels per acre	Test Weight pounds per bushel
A6659VT2RIB	244	57.4
DKC69-99 TRECEPTA	242	56.8
A647-35-3330	240	55.1
A6544VT2RIB	236	54.8
DG55VC80	230	54.8
LC1707 VT2P	227	55.3
DKC68-69 VT2P	227	57.0
LC1577 VT2P	226	56.8
DG54VC14	226	56.0
LC1898 TC	224	55.9
A645-16VT2PRO	222	53.6
DG58VC65	221	57.2
LC1407 VT2P	221	56.5
LC1307 TC	218	54.3
DKC67-37 GEN SS	215	55.3
LC1697 VT2P	214	55.3
DKC 64-64RIB	211	54.1
LC1987 VT2P	211	54.0
LC1806 VT2P	210	57.6
LC1506 VT2P	207	52.5
LC1398 VT2P	204	52.2
LC1289 VT2P	196	53.6
LC1497 DGVT2P	181	48.9
Average	220	55.0
LSD @ 10% Level	14	2.0
CV	8	4

Bolded yields are NOT statistically different from the highest yielding entry.

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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
A6659VT2RIB	144	57.5
LC1577 VT2P	137	57.9
LC1307 TC	128	55.9
DKC69-99 TRECEPTA	126	58.4
DG58VC65	126	58.6
DG55VC80	123	56.5
A647-35-3330	122	56.5
LC1898 TC	118	57.7
LC1407 VT2P	117	57.2
DKC68-69 VT2P	117	59.3
LC1398 VT2P	115	54.9
DKC67-37 GEN SS	112	58.2
DG54VC14	112	57.2
LC1987 VT2P	112	57.4
LC1506 VT2P	111	56.5
A6544VT2RIB	107	56.7
LC1806 VT2P	106	57.8
LC1707 VT2P	106	58.6
LC1497 DGVT2P	106	53.5
A645-16VT2PRO	102	56.8
LC1289 VT2P	102	56.1
DKC 64-64RIB	95	55.0
LC1697 VT2P	86	57.3
Average	114	57.0
LSD @ 10% Level	25	1.3
CV	20	3

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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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
LC1307 TC	253	56.3
LC1898 TC	252	57.1
DKC69-99 TRECEPTA	247	57.3
DG55VC80	242	55.6
LC1707 VT2P	241	56.9
LC1407 VT2P	240	56.5
A645-16VT2PRO	239	54.7
LC1806 VT2P	239	57.4
LC1506 VT2P	239	57.7
DKC68-69 VT2P	237	56.3
LC1987 VT2P	237	56.2
LC1577 VT2P	237	57.3
A6659VT2RIB	237	55.8
LC1497 DGVT2P	236	56.4
DG58VC65	235	57.1
DKC67-37 GEN SS	230	56.7
LC1398 VT2P	229	55.7
DG54VC14	228	57.0
LC1289 VT2P	227	55.5
A647-35-3330	225	54.6
DKC 64-64RIB	218	55.1
LC1697 VT2P	218	56.9
A6544VT2RIB	214	55.4
Average	235	56.3
LSD @ 10% Level	15	0.9
CV	8	2

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
DG54VC14	169	57.9
LC1497 DGVT2P	167	57.8
A6544VT2RIB	166	58.1
LC1398 VT2P	165	57.6
A645-16VT2PRO	165	57.2
LC1707 VT2P	164	58.4
DG55VC80	164	57.1
LC1898 TC	163	58.1
DKC69-99 TRECEPTA	163	58.8
LC1577 VT2P	161	58.4
DKC67-37 GEN SS	161	58.2
A6659VT2RIB	160	56.5
LC1289 VT2P	159	56.1
DKC68-69 VT2P	158	59.2
LC1506 VT2P	158	60.0
DG58VC65	158	58.7
LC1987 VT2P	156	58.9
LC1307 TC	149	56.9
LC1407 VT2P	147	58.0
DKC 64-64RIB	144	56.3
A647-35-3330	141	55.9
LC1697 VT2P	141	59.0
LC1806 VT2P	139	59.4
Average	157	58.0
LSD @ 10% Level	17	1.4
CV	10	3

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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

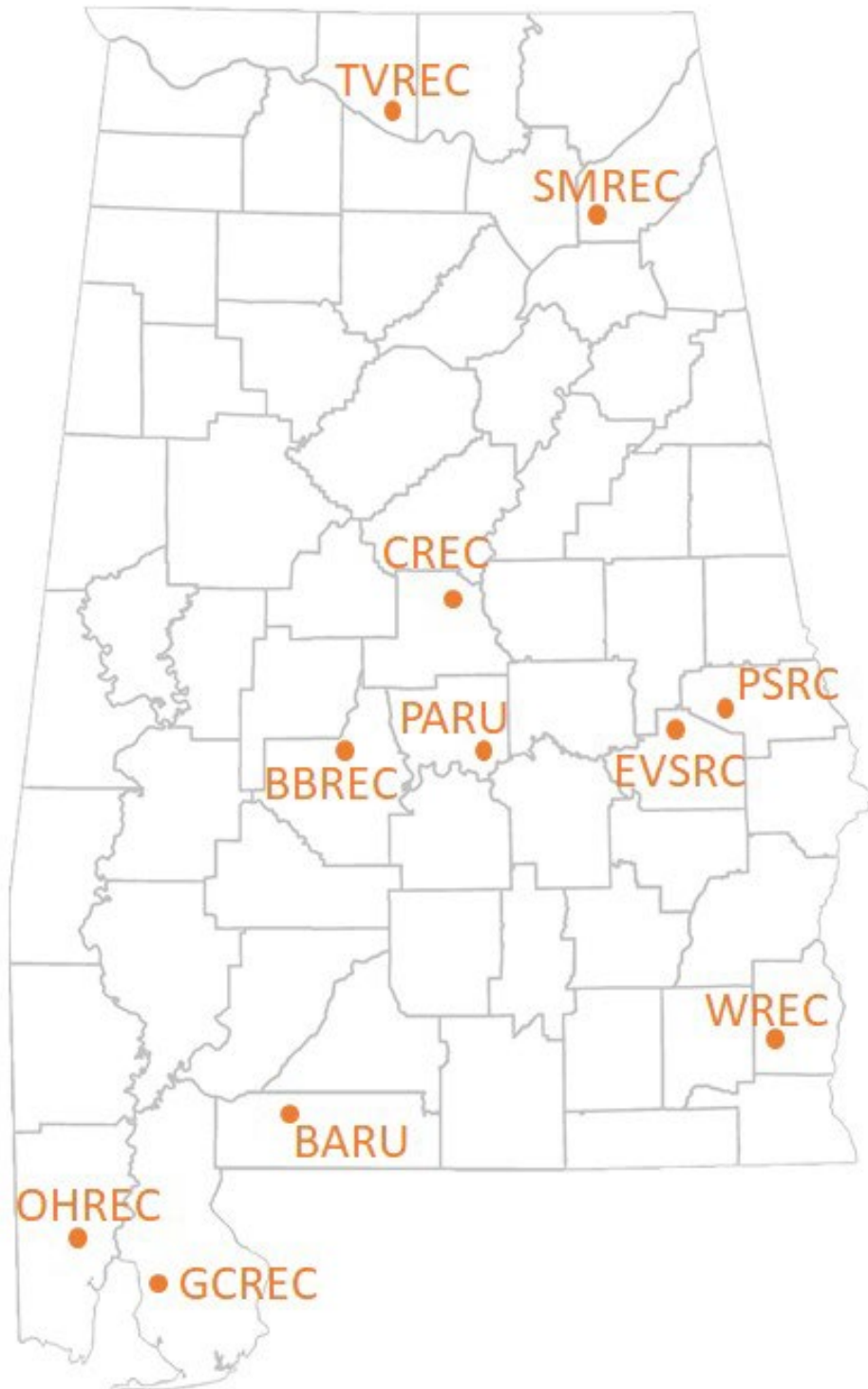
Variety	Yield bushels per acre
LC1898 TC	168
DKC69-99 TRECEPTA	165
LC1707 VT2P	165
LC1987 VT2P	164
DKC68-69 VT2P	163
LC1577 VT2P	161
LC1497 DGVT2P	156
A6659VT2RIB	149
LC1307 TC	147
DG55VC80	147
A647-35-3330	147
DKC67-37 GEN SS	146
LC1806 VT2P	145
LC1289 VT2P	143
DG54VC14	141
LC1398 VT2P	139
DG58VC65	139
LC1506 VT2P	136
A6544VT2RIB	131
LC1697 VT2P	130
LC1407 VT2P	130
A645-16VT2PRO	128
DKC 64-64RIB	97
Average	145
LSD @ 10% level	19
CV	15

Bolded yields are NOT statistically different from the highest yielding entry.

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