

2006
Project Report
Alabama Wheat and Feed Grain Committee

TITLE: *Alabama On-Farm Corn Hybrid Performance Tests*

INVESTIGATORS:

Rudy Yates, Regional Extension Agent-Agronomy, West Alabama-Black Belt Region
Warren Griffith, Regional Extension Agent-Agronomy, Clanton-Upper Coastal Plains Region
Richard Petcher, Regional Extension Agent-Agronomy, Southeast Alabama-Wiregrass Region
Leonard Kuykendall, Regional Extension Agent-Agronomy, East Alabama-Piedmont Region
Kathy Glass, Agricultural Program Associate

OBJECTIVES:

To help growers in the Black Belt and Coastal Plain regions of the state evaluate corn hybrids that are best suited for their conditions on a large scale, on-farm production system.

RESULTS:

West Alabama-Black Belt Region

Four on-farm corn hybrid performance tests were coordinated by Rudy Yates. Seventeen hybrids from six seed companies were planted by Sam Givhan in Dallas County, Langston Enterprises in Hale County, James Avery in Perry County, and Sumter Farm & Stock Company in Sumter County. All four locations weathered drought. Sam Givhan's test averaged 66.39 bushels per acre (bu/a) with a range of 33.48 to 106.85 bu/a. The test at Langston Enterprises averaged 34.31 bu/a with a range of 23.53 to 46.80 bu/a. The test at Sumter Farm averaged 40.39 bu/a with a range of 20.39 to 54.47 bu/a. The test at the Avery farm was not harvested because of drought damage. Results were provided to farmers at a December 2006 corn meeting in Autaugaville and distributed by Yates.

Clanton-Upper Coastal Plains Region

One on-farm corn hybrid performance test was coordinated by Warren Griffith. Seventeen hybrids from six seed companies were planted by Chris Gary of Fayette County on the Upper Coastal Plain Substation. The test was affected by drought. The test averaged 30.46 bu/a with a range of 17.69 to 44.05 bu/a. Results were provided to farmers at a September 2006 corn meeting in Fayette and distributed by Griffith.

Southeast Alabama-Wiregrass Region

One on-farm corn hybrid performance test was coordinated by Richard Petcher. Twelve varieties from six seed companies were planted by Rod Richardson in Washington County. The test was affected by drought. The test averaged 79.63 bu/a with a range of 67.95 to 88.48 bu/a. Results were provided to farmers by Petcher.

East Alabama-Piedmont Region

Two on-farm corn hybrid performance tests were coordinated by Leonard Kuykendall. Seventeen hybrids from six seed companies were planted at the farm of Todd Cosby and Tommy and L.A. Wisener in Elmore County and the farm of Scott and Mack Pruitt in Talladega County. Both tests weathered drought. The Pruitt test averaged 87.74 bu/a with a range of 59.81 to 109.43 bu/a. The Cosby and Wisener test was not harvested for reporting purposes because of drought damage. Results were provided to farmers at a December 2006 corn meeting in Autaugaville and distributed by Kuykendall.

Field tours were not conducted because of the drought. Yield results of each harvested test were placed on the Alabama variety testing website at www.ag.auburn.edu/agrn/alabamavarietytesting// by Kathy Glass.

2006 Alabama On-Farm Corn Hybrid Variety Test

Test Location: Dallas County
Farmer Cooperator: Sam Givhan
Givhan Land & Cattle Company
Regional Extension Agent: Rudy Yates
Alabama Cooperative Extension System

Planted: March 27, 2006

Harvested: August 19, 2006

Row Spacing: 38 inches

Number of Rows Harvested: 6

Tillage: No-Till

Previous Crop: Soybeans

Each variety was planted in a single strip the length of the field.

Variety	Tech Trait ^a	Advertised maturity (days)	Seed treatment ^a	Harvest moisture (%)	Yield @ 15.5% moisture (bushels/acre)
Pioneer 31R87	RR2	120	P	14.3	106.85
Vigoro V62R66	RR2	121	C	13.4	83.04
Dyna-Gro 58K40	RR2	117	P	13.2	81.47
Dekalb DKC69-72	RR2	119	P	14.2	81.03
Pioneer 31G97	RR2	117	P	11.4	77.76
Garst 8287RR	RR2	116	C	12.7	69.43
Garst 8248RR	RR2	117	C	12.1	67.33
Pioneer 33M53	RR2	115	P	12.0	65.81
Croplan 751RR2	RR2	115	C	12.1	63.17
Dekalb DKC66-23	YG Corn Borer/RR2	116	P	11.7	62.21
Garst 8295YG1/RR	YG Corn Borer/RR2	118	C	13.9	61.11
Dyna-Gro 58K02	RR2	119	--	12.5	57.84
Dyna-Gro 58K15	RR2	117	P	11.8	56.91
Croplan 851RR2	RR2	117	C	13.8	54.37
Croplan 799RR2	RR2	117	C	12.5	54.14
Dekalb DKC69-68	YG Rootworm/RR2	119	P	13.6	52.62
Vigoro V58YR2	YG Corn Borer/RR2	118	C	13.3	33.48
Yield Average					66.39

^a Abbreviations: RR, Roundup Ready; YG, YieldGard; C, Cruiser; P, Poncho 250.

Note: Test weathered a drought.

Appreciation is expressed to Sam Givhan, the Alabama Wheat and Feed Grain Commission, and the participating seed companies for supporting this test. Appreciation is also expressed to Kathy Glass, Agriculture Program Associate, Dennis Delaney, Extension Specialist, and Dale Monks, Extension Specialist, for their assistance.

Producers are encouraged to consider several sources of information when making variety selections.



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2006 Alabama On-Farm Corn Hybrid Variety Test
Test Location: Hale County
Farmer Cooperator: Gary Elliott, Langston Farms Inc.
Regional Extension Agent: Rudy Yates
Alabama Cooperative Extension System

Planted: March 31, 2006 Harvested: August 03-04, 2006
Row Spacing: 30 inches Number of Rows Harvested: 10
Tillage: Stale Seedbed (Bedded) Previous Crop: Soybeans
Each variety was planted in a single strip the length of the field.

Variety	Tech Trait ^a	Advertised maturity (days)	Seed treatment ^a	Harvest moisture (%)	Yield @ 15.5% moisture (bushels/acre)
Garst 8287RR	RR2	116	C	19.2	46.80
Dekalb DKC66-23	YG Corn Borer/RR2	116	P	11.5	44.74
Croplan 751RR2	RR2	115	C	13.8	41.16
Vigoro V58YR2	YG Corn Borer/RR2	118	C	15.0	39.92
Pioneer 31G97	RR2	117	P	17.9	38.84
Garst 8295YG1/RR	YG Corn Borer/RR2	118	C	20.4	37.31
Dyna-Gro 58K02	RR2	119	--	18.8	36.36
Vigoro V62R66	RR2	121	C	15.5	33.72
Dyna-Gro 58K40	RR2	117	P	16.4	33.54
Dyna-Gro 58K15	RR2	117	P	16.6	32.74
Croplan 799RR2	RR2	117	C	17.2	31.67
Garst 8248RR	RR2	117	C	19.1	31.44
Croplan 851RR2	RR2	117	C	14.2	29.52
Pioneer 31R87	RR2	120	P	14.1	28.75
Dekalb DKC69-68	YG Rootworm/RR2	119	P	21.3	27.53
Pioneer 33M53	RR2	115	P	16.5	25.63
Dekalb DKC69-72	RR2	119	P	16.3	23.53
Yield Average					34.31

^a Abbreviations: RR, Roundup Ready; YG, YieldGard; C, Cruiser; P, Poncho 250.
Note: Test weathered a drought.

Appreciation is expressed to Gary Elliott, Chris Elliott, Langston Enterprises Inc., the Alabama Wheat and Feed Grain Commission and the participating seed companies for supporting this test. Appreciation is also expressed to Kathy Glass, Agriculture Program Associate, Dennis Delaney, Extension Specialist, and Dale Monks, Extension Specialist, for their assistance.

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2006 Alabama On-Farm Corn Hybrid Variety Test
Test Location: Fayette County
Farmer Cooperator: Chris Gary
Regional Extension Agent: Warren Griffith
Alabama Cooperative Extension System

Planted: April 1, 2006
 Row Spacing: 30 inches
 Tillage: Conventional

Harvested: August 18, 2006
 Number of Rows Harvested: 8
 Previous Crop: Pasture

Each variety was planted in a single strip the length of the field.

Variety	Tech Trait ^a	Advertised maturity (days)	Seed treatment ^a	Harvest moisture (%)	Yield @ 15.5% moisture (bushels/acre)
Vigoro V58YR2	YG Corn Borer/RR2	118	C	11.4	44.05
Dekalb DKC66-23	YG Corn Borer/RR2	116	P	11.5	41.08
Garst 8295YG1/RR	YG Corn Borer/RR2	118	C	12.6	37.76
Croplan 751RR2	RR2	115	C	11.1	35.50
Garst 8248RR	RR2	117	C	13.8	33.74
Dyna-Gro 58K40	RR2	117	P	11.3	33.71
Vigoro V62R66	RR2	121	C	12.2	31.18
Pioneer 33M53	RR2	115	P	11.5	30.44
Pioneer 31R87	RR2	120	P	13.1	30.30
Pioneer 31G97	RR2	117	P	12.1	29.38
Croplan 799RR2	RR2	117	C	12.0	29.28
Garst 8246	--	117	C	14.2	28.21
Dekalb DKC69-68	YG Rootworm/RR2	119	P	12.2	25.72
Dyna-Gro 58K15	RR2	117	P	11.3	24.32
Croplan 851RR2	RR2	117	C	11.1	24.08
Dyna-Gro 58K02	RR2	119	--	12.2	21.36
Dekalb DKC69-72	RR2	119	P	14.5	17.69
Yield Average					30.46

^a Abbreviations: RR, Roundup Ready; YG, YieldGard; C, Cruiser; P, Poncho 250.

Note: Test weathered a drought.

Appreciation is expressed to Chris Gary, the Alabama Wheat and Feed Grain Commission, the Upper Coastal Plain Substation, and the participating seed companies for supporting this test. Appreciation is also expressed to Kathy Glass, Agriculture Program Associate, Dennis Delaney, Extension Specialist, and Rudy Yates, Regional Extension Agent, for their assistance with the test.

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2006 Alabama On-Farm Corn Hybrid Variety Test
Test Location: Washington County
Farmer Cooperator: Rod Richardson
Regional Extension Agent: Richard Petcher
Alabama Cooperative Extension System

Planted: March 17, 2006
 Row Spacing: 36 inches
 Tillage: Disc

Harvested: August 1, 2006
 Number of Rows Harvested: 6
 Previous Crop: Corn

Each variety was planted in a single strip the length of the field.

Variety	Tech Trait ^a	Advertised Maturity (days)	Seed treatment ^a	Harvest moisture (%)	Yield @ 15.5% moisture (bushels/acre)
FFR 833 RR2	RR2	117	--	17.6	88.48
Garst 8248RR	RR2	117	C	19.8	84.73
FFR 900 Bt	YG Corn Borer	119	--	20.5	84.46
Dyna-Gro 58K40	RR2	117	P	17.1	82.46
Garst 8246	--	117	C	19.0	81.96
Pioneer 32B29	YG Corn Borer/RR2	118	P	--	81.16
Croplan 751RR2/Bt	YG Corn Borer/RR2	116	C	18.1	79.20
Pioneer 31D58	--	119	P	19.2	78.75
Dyna-Gro 58K02	RR2	119	--	18.5	77.68
Croplan 851RR2/Bt	YG Corn Borer/RR2	118	C	19.1	77.00
Dekalb DKC69-72	RR2	119	P	18.2	72.76
Dekalb DKC69-68	YG Rootworm/RR2	119	P	18.0	67.95
Yield Average					79.63

^a Abbreviations: RR, Roundup Ready; YG, YieldGard; C, Cruiser; P, Poncho 250.
 Note: Test weathered a drought.

Appreciation is expressed to Rod Richardson, the Alabama Wheat and Feed Grain Commission, and the participating seed companies for supporting this test. Appreciation is also expressed to Kathy Glass, Agriculture Program Associate, Dennis Delaney, Extension Specialist, and Dale Monks, Extension Specialist, for their assistance.

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2006 Alabama On-Farm Corn Hybrid Variety Test
Test Location: Talladega County
Farmer Cooperators: Scott and Mack Pruitt
Regional Extension Agent: Leonard Kuykendall
Alabama Cooperative Extension System

Planted: April 18, 2006
 Row Spacing: 30 inches
 Tillage: No-Till
 Each variety was planted in a single strip the length of the field.

Harvested: October 2, 2006
 Number of Rows Harvested: 6
 Previous Crop: Soybeans

Variety	Tech Trait ^a	Advertised Maturity (days)	Seed treatment ^a	Harvest Moisture (%)	Yield @ 15.5% moisture (bushels/acre)
Vigoro V58YR2	YG Corn Borer/RR2	118	C	15.7	109.43
Pioneer 31G97	RR2	117	P	15.2	107.84
Croplan 851RR2	RR2	117	C	15.6	102.24
Dyna-Gro 58K15	RR2	117	P	15.4	102.16
Pioneer 31R87	RR2	120	P	15.8	100.09
Dyna-Gro 58K40	RR2	117	P	17.5	99.94
Dekalb DKC67-23	YG Corn Borer/RR2	117	P	16.7	97.13
Dyna-Gro 58K02	RR2	119	P	17.0	93.97
Dekalb DKC66-23	YG Corn Borer/RR2	116	P	21.7	90.12
Pioneer 33M53	RR2	115	P	16.6	88.44
Dekalb DKC69-72	RR2	119	P	15.6	86.31
Vigoro V62R66	RR2	121	C	16.2	79.06
Croplan 751RR2	RR2	115	C	16.0	75.44
Croplan 799RR2	RR2	117	C	15.8	74.67
Garst 8295YG1/RR	YG Corn Borer/RR2	118	C	18.3	64.75
Garst 8248RR	RR2	117	C	15.1	60.23
Garst 8287RR	RR2	116	C	18.3	59.81
Yield Average					87.74

^a Abbreviations: RR, Roundup Ready; YG, YieldGard; C, Cruiser; P, Poncho 250.

Appreciation is expressed to Scott and Mack Pruitt, the Alabama Wheat and Feed Grain Commission, and the participating seed companies for supporting this test. Appreciation is also expressed to Toby Covin, Monsanto, Rudy Yates, Regional Extension Agronomist, Kathy Glass, Agriculture Program Associate, Dennis Delaney, Extension Specialist, and Dale Monks, Extension Specialist, for their assistance.

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