

**2007**  
**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  
Brandon Dillard, Regional Extension Agent-Agronomy, South East Alabama-Wire Grass Region  
Warren Griffith, Regional Extension Agent-Agronomy, Clanton-Upper Coastal Plains Region  
Richard Petcher, Regional Extension Agent-Agronomy, South West Alabama-Coastal Region  
Leonard Kuykendall, Regional Extension Agent-Agronomy, East Alabama-Piedmont Region  
Kathy Glass, Advisor III – Natural Resource Programs

**OBJECTIVES:**

To help growers in regions of the state with black belt and coastal plain soils evaluate corn hybrids that are best suited for their conditions on a large scale, on-farm production system.

**RESULTS:**

Nine on-farm corn hybrid performance tests were coordinated by Regional Extension agents. Tests were planted in Clay, Dallas, Fayette, Geneva, Macon, Perry, Talladega and Washington Counties. Hybrids were planted in strips the length of the field at each site with one to two Complete Blocks. Yields of corn hybrids were evaluated within seed treatments (Poncho 250 or Cruiser). Eight seed companies provided hybrids for the tests; however, each company was unable to participate at each location. Tests in Fayette County and at one of the sites in Perry County were not harvested for yield due to extreme drought. The dryland tests in Clay County yielded from 120 to 159 bushels per acre (bu/A), in Dallas County from 62.4 to 81.6 bu/A, in Perry County from 61.8 to 96.0 bu/A, in Talladega County from 56.1 to 73.6 bu/A and in Washington County from 88.6 to 112.5 bu/A. Irrigated trials in Geneva County yielded from 168.4 to 218.9 bu/A and Macon County from 145.5 to 176.2 bu/A. Drought and high temperatures affected the tests. One field tour was conducted in South East Alabama, but not conducted in other regions because of the drought. The attached yield results of the harvested tests were distributed to farmers at meetings and visits. The results were also placed on the Alabama variety testing website at [www.ag.auburn.edu/agrn/alabamavarietytesting//](http://www.ag.auburn.edu/agrn/alabamavarietytesting//).



**2007 Alabama On-Farm Corn Hybrid Trial**  
**Test Location: Clay County**  
**Farmer Cooperator: Dave Goode, Borrowed Acres Farm**  
**Regional Extension Agent: Leonard Kuykendall**  
**Alabama Cooperative Extension System**

**Planted: April 13, 2007**  
**Row Spacing: 30 inches**  
**Tillage: Conventional**

**Harvested: September 1, 2007**  
**Number of Rows Harvested per Hybrid: 6**  
**Previous Crop: Corn**

Each hybrid was planted in a single strip the length of the field. Plot length averaged 600 feet. Trial was affected by drought. Producers are encouraged to consider several sources of information when making hybrid selections.

**Table 1. Corn Hybrid Yields with Poncho 250 Seed Treatment**

Hybrid	Tech Trait <sup>a</sup>	Advertised Maturity (days)	Harvest Moisture (%)	Yield @ 15.5% moisture (bushels/acre)
Pioneer 31G97	RR2	117	25	159
Pioneer 33M53	RR2	114	26	158
Dyna-Gro 58K02	RR2	119	27	145
Dyna-Gro 58K40	RR2	117	30	137
<b>Trial Average</b>				<b>150</b>

<sup>a</sup> Abbreviation: RR2, Roundup Ready.

**Table 2. Corn Hybrid Yields with Cruiser Seed Treatment**

Hybrid	Tech Trait <sup>a</sup>	Advertised Maturity (days)	Harvest Moisture (%)	Yield @ 15.5% moisture (bushels/acre)
Croplan 7505RR	RR2	114	26	142
Croplan 8221RB	YG Corn Borer/RR2	118	25	120
<b>Trial Average</b>				<b>131</b>

<sup>a</sup> Abbreviations: RR2, Roundup Ready; YG, YieldGard.

Appreciation is expressed to Borrowed Acres Farm, the Alabama Wheat and Feed Grain Commission, and the participating seed companies for supporting this trial. Appreciation is also expressed to Jeff Sims of Shadow Creek Farm, Rudy Yates, Regional Extension Agent, Kathy Glass, Advisor III - Natural Resource Programs, Dennis Delaney, Extension Specialist, and Dale Monks, Extension Specialist, for their assistance.



**2007 Alabama On-Farm Corn Hybrid Trial**  
**Test Location: Dallas County**  
**Farmer Cooperators: Stanley Walters**  
**Regional Extension Agent: Rudy Yates**  
**Alabama Cooperative Extension System**

**Planted: March 14, 2007**  
**Row Spacing: 30 inches**  
**Tillage: No-till**

**Harvested: August 30, 2007**  
**Number of Rows Harvested per Hybrid: 8**  
**Previous Crop: Soybeans**

The experimental design was two Complete Blocks with each hybrid planted once in each block. The blocks averaged 867 feet in length. Yield and moisture were averaged for the two strips. Trial was severely affected by high temperatures and drought. Producers are encouraged to consider several sources of information when making hybrid selections.

**Table 1. Corn Hybrid Yields with Poncho 250 Seed Treatment**

Hybrid	Tech Trait <sup>a</sup>	Advertised Maturity (days)	Harvest Moisture (%)	Yield @ 15.5% moisture (bushels/acre)
DeKalb DKC67-23 RR2/YGCB	YG Corn Borer/RR2	117	15.1	81.6
Pioneer 31G97	RR2	117	15.0	75.9
Great Lakes 6390 G3	YG Plus/RR2	113	14.8	74.1
Dyna-Gro 58K02	RR2	119	15.0	72.1
Great Lakes 6390 RR	RR2	113	15.0	71.5
Pioneer 33M53	RR2	114	16.1	62.4
<b>Trial Average</b>				<b>72.9</b>

<sup>a</sup> Abbreviation: RR2, Roundup Ready; YG, YieldGard; YG Plus, YieldGard with corn borer and rootworm technology.

**Table 2. Corn Hybrid Yields with Cruiser Seed Treatment**

Hybrid	Tech Trait <sup>a</sup>	Advertised Maturity (days)	Harvest Moisture (%)	Yield @ 15.5% moisture (bushels/acre)
Croplan 8221 RB	YG Corn Borer/RR2	118	15.2	72.2
Croplan 7505 RR	RR2	114	15.1	69.0
<b>Trial Average</b>				<b>70.6</b>

<sup>a</sup> Abbreviation: RR2, Roundup Ready; YG, YieldGard.

Appreciation is expressed to Stanley Walters, the Alabama Wheat and Feed Grain Commission, and the participating seed companies for supporting this test. Appreciation is also expressed to Kathy Glass, Advisor III – Natural Resource Programs, Dennis Delaney, Extension Specialist, and Dale Monks, Extension Specialist, for their assistance.



**2007 Alabama On-Farm Corn Hybrid Trial**  
**Test Location: Perry County**  
**Farmer Cooperators: Jody and John Nichols**  
**Regional Extension Agent: Rudy Yates**  
**Alabama Cooperative Extension System**

**Planted: April 17, 2007**

**Harvested: August 30, 2007**

**Row Spacing: 30 inches**

**Number of Rows Harvested per Hybrid: 6**

**Tillage: Conventional production**

**Previous Crop: Soybeans**

Each hybrid was planted in a single strip the length of the field. Plot length averaged 824 feet. Trial was severely affected by drought. Producers are encouraged to consider several sources of information when making hybrid selections.

**Table 1. Corn Hybrid Yields with Poncho 250 Seed Treatment**

Hybrid	Tech Trait <sup>a</sup>	Advertised Maturity (days)	Harvest Moisture (%)	Yield @ 15.5% moisture (bushels/acre)
Great Lakes 6321 Bt	YG Corn Borer	113	16.8	95.4
DeKalb DKC 69-71 RR2/YGCB	YG Corn Borer/RR2	119	18.5	91.1
Pioneer 31G66		118	17.1	90.2
Pioneer 31P41		118	17.0	90.2
Dyna-Gro DG5515		117	17.9	89.1
Dyna-Gro 58K02	RR2	119	19.0	87.1
DeKalb DKC 67-23 RR2/YGCB	YG Corn Borer/RR2	117	19.0	85.9
Great Lakes 6192 CL	CL	112	15.9	75.7
<b>Trial Average</b>				<b>88.1</b>

<sup>a</sup> Abbreviation: RR2, Roundup Ready; YG, YieldGard; CL, Clearfield Production System.

**Table 2. Corn Hybrid Yields with Cruiser Seed Treatment**

Hybrid	Tech Trait <sup>a</sup>	Advertised Maturity (days)	Harvest Moisture (%)	Yield @ 15.5% moisture (bushels/acre)
NK N83-V3	LibertyLink	117	17.3	96.0
Croplan 851RR	RR2	117	19.5	91.7
Croplan 685		111	16.1	81.1
Garst 8246		117	18.8	61.8
<b>Trial Average</b>				<b>82.7</b>

<sup>a</sup> Abbreviations: RR2, Roundup Ready.

Appreciation is expressed to Jody and John Nichols, the Alabama Wheat and Feed Grain Commission, and the participating seed companies for supporting this test. Appreciation is also expressed to Kathy Glass, Advisor III – Natural Resource Programs, Dennis Delaney, Extension Specialist, and Dale Monks, Extension Specialist, for their assistance.

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**2007 Alabama On-Farm Corn Hybrid Trial**  
**Test Location: Talladega County**  
**Farmer Cooperators: Scott and Mac Pruitt**  
**Regional Extension Agent: Leonard Kuykendall**  
**Alabama Cooperative Extension System**

**Planted: April 23, 2007**  
**Row Spacing: 30 inches**  
**Tillage: No-till**

**Harvested: September 19, 2007**  
**Number of Rows Harvested per Hybrid: 6**  
**Previous Crop: Corn**

Each hybrid was planted in a single strip the length of the field. Plot length averaged 800 feet. Trial was severely affected by drought. Producers are encouraged to consider several sources of information when making hybrid selections.

**Table 1. Corn Hybrid Yields with Poncho 250 Seed Treatment**

Hybrid	Tech Trait <sup>a</sup>	Advertised Maturity (days)	Harvest Moisture (%)	Yield @ 15.5% moisture (bushels/acre)
DeKalb DKC67-23 RR2/YGCB	YG Corn Borer/RR2	117	15.8	69.8
Dyna-Gro 58K02	RR2	119	15.1	64.1
Dyna-Gro 58K40	RR2	117	15.9	62.0
Pioneer 33M53	RR2	114	15.8	61.8
DeKalb DKC69-71 RR2/YGCB	YG Corn Borer/RR2	119	14.9	58.0
Pioneer 31G97	RR2	117	15.0	56.1
<b>Trial Average</b>				<b>62.0</b>

<sup>a</sup> Abbreviation: RR2, Roundup Ready; YG, YieldGard.

**Table 2. Corn Hybrid Yields with Cruiser Seed Treatment**

Hybrid	Tech Trait <sup>a</sup>	Advertised Maturity (days)	Harvest Moisture (%)	Yield @ 15.5% moisture (bushels/acre)
Croplan 8950RB	YG Corn Borer/RR2	121	15.3	73.6
<b>Trial Average</b>				

<sup>a</sup> Abbreviation: RR2, Roundup Ready; YG, YieldGard.

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 Agent, Kathy Glass, Advisor III – Natural Resource Programs, Dennis Delaney, Extension Specialist, and Dale Monks, Extension Specialist, for their assistance.



**2007 Alabama On-Farm Corn Hybrid Trial**  
**Test Location: Washington County**  
**Farmer Cooperator: Rod Richardson**  
**Regional Extension Agent: Richard Petcher**  
**Alabama Cooperative Extension System**

**Planted: March 15, 2007**  
**Row Spacing: 38 inches**  
**Tillage: Conventional**

**Harvested: August 21, 2007**  
**Number of Rows Harvested per Hybrid: 6**  
**Previous Crop: Peanuts**

Each hybrid was planted in a single strip the length of the field. Plot length averaged 1,200 feet. Trial was affected by high temperatures and drought. Producers are encouraged to consider several sources of information when making hybrid selections.

**Table 1. Corn Hybrid Yields with Poncho 250 Seed Treatment**

Hybrid	Tech Trait <sup>a</sup>	Advertised Maturity (days)	Yield @ 15.5% moisture (bushels/acre)
DeKalb DKC69-43 RR2	RR2	119	99.6
DeKalb DKC69-71 RR2/YGCB	YG Corn Borer/RR2	119	99.1
Dyna-Gro 58K02	RR2	119	98.2
Pioneer 31G97	RR2	117	96.7
Pioneer 33M53	RR2	114	96.3
Dyna-Gro 58P45	RR2	120	88.6
<b>Trial Average</b>			<b>96.4</b>

<sup>a</sup> Abbreviation: RR2, Roundup Ready; YG, YieldGard.

**Table 2. Corn Hybrid Yields with Cruiser Seed Treatment**

Hybrid	Tech Trait <sup>a</sup>	Advertised Maturity (days)	Yield @ 15.5% moisture (bushels/acre)
Croplan 799RR	RR2	116	112.5
Croplan 8221RB	YG Corn Borer/RR2	118	97.8
<b>Trial Average</b>			<b>105.1</b>

<sup>a</sup> Abbreviation: RR2, Roundup Ready; YG, YieldGard.

Appreciation is expressed to Rod Richardson, the Alabama Wheat and Feed Grain Commission, and the participating seed companies for supporting this trial. Appreciation is also expressed to Rudy Yates, Regional Extension Agent, Kathy Glass, Advisor III – Natural Resource Programs, Dennis Delaney, Extension Specialist, and Dale Monks, Extension Specialist, for their assistance.



**2007 Alabama Irrigated On-Farm Corn Hybrid Trial**  
**Test Location: Geneva County**  
**Farmer Cooperators: Walton Birdsong**  
**Regional Extension Agent: Brandon Dillard**  
**Alabama Cooperative Extension System**

**Planted: April 9, 2007**

**Row Spacing: 36 inches**

**Tillage: Strip-till into rye**

**Harvested: September 04, 2007**

**Number of Rows Harvested per Hybrid: 8**

**Previous Crop: Peanuts**

The experimental design was two Complete Blocks with each hybrid planted once in each block. The blocks averaged 825 feet in length. Yield and moisture were averaged for the two strips. Trial was affected by high temperatures and drought. Producers are encouraged to consider several sources of information when making hybrid selections.

**Corn Hybrid Yields with Poncho 250 Seed Treatment**

Hybrid	Tech Trait <sup>a</sup>	Advertised Maturity (days)	Harvest Moisture (%)	Yield @ 15.5% moisture (bushels/acre)
Pioneer 31G97	RR2	117	15.1	218.9
AgriGold A6633	YG Corn Borer/RR2	115	15.5	216.0
Dyna-Gro 58K02	RR2	119	13.3	211.6
Dyna-Gro 58P45	YG Corn Borer/RR2	120	17.1	211.3
DeKalb DKC69-71 RR2/YGCB	YG Corn Borer/RR2	119	17.6	207.1
AgraTech 797 RR	RR2	117	16.6	198.9
Dyna-Gro 58P60	YG Corn Borer/RR2	120	16.3	198.6
AgriGold A6647	RR2	115	16.2	196.0
DeKalb DKC67-23 RR2/YGCB	YG Corn Borer/RR2	117	16.5	189.7
Pioneer 33M53	RR2	114	16.2	185.2
Pioneer 31N26	RR2	119	15.8	184.5
AgriGold A6490	YG Corn Borer RR2	112	15.1	183.2
DeKalb DKC69-43 RR2	RR2	119	15.2	168.4
<b>Trial Average</b>				<b>197.7</b>

<sup>a</sup> Abbreviation: RR2, Roundup Ready; YG, YieldGard.

Appreciation is expressed to Walton Birdsong, the Alabama Wheat and Feed Grain Commission, and the participating seed companies for supporting this test. Appreciation is also expressed to Rudy Yates, Regional Extension Agent, Kathy Glass, Advisor III – Natural Resource Programs, Dennis Delaney, Extension Specialist, and Dale Monks, Extension Specialist, for their assistance.



**2007 Alabama Irrigated On-Farm Corn Hybrid Trial**  
**Test Location: Macon County**  
**Farmer Cooperators: Segrest Brothers Farm**  
**Regional Extension Agent: Leonard Kuykendall/Dr. Jeffrey Clary**  
**Alabama Cooperative Extension System**

**Planted: March 27, 2007**  
**Row Spacing: 38 inches**  
**Tillage: No-till**

**Harvested: September 10, 2007**  
**Number of Rows Harvested per Hybrid: 6**  
**Previous Crop: Cotton**

Each hybrid was planted in a single strip the length of the field. Plot length averaged 450 feet. Trial was irrigated but affected by severe heat and dry weather. Producers are encouraged to consider several sources of information when making hybrid selections.

**Table 1. Corn Hybrid Yields with Poncho 250 Seed Treatment**

Hybrid	Tech Trait <sup>a</sup>	Advertised Maturity (days)	Harvest Moisture (%)	Yield @ 15.5% moisture (bushels/acre)
Pioneer 31G97	RR2	117	13.8	176.2
Dyna-Gro 58K40	RR2	117	15.2	171.2
Dyna-Gro 58K02	RR2	119	15.0	170.1
DeKalb DKC67-23 RR2/YGCB	YG Corn Borer/RR2	117	15.3	163.5
DeKalb DKC69-71 RR2/YGCB	YG Corn Borer/RR2	119	15.0	153.9
Pioneer 33M53	RR2	114	14.6	145.5
<b>Trial Average</b>				<b>163.4</b>

<sup>a</sup> Abbreviation: RR2, Roundup Ready; YG, YieldGard.

**Table 2. Corn Hybrid Yields with Cruiser Seed Treatment**

Hybrid	Tech Trait <sup>a</sup>	Advertised Maturity (days)	Harvest Moisture (%)	Yield @ 15.5% moisture (bushels/acre)
Croplan 8221RB	YG Corn Borer/RR2	118	15.3	166.7
Croplan 7505RR	RR2	114	14.0	158.9
<b>Trial Average</b>				<b>162.8</b>

<sup>a</sup> Abbreviation: RR2, Roundup Ready; YG, YieldGard.

Appreciation is expressed to Segrest Brothers Farm, the Alabama Wheat and Feed Grain Commission, and the participating seed companies for supporting this trial. Appreciation is also expressed to Rudy Yates, Regional Extension Agent, Kathy Glass, Advisor III – Natural Resource Programs, Dennis Delaney, Extension Specialist, and Dale Monks, Extension Specialist, for their assistance.