

Alabama Wheat and Feed Grains Committee

#25 On-Farm Evaluation of Wheat and Oat Varieties

Brandon Dillard, Leonard Kuykendall, Richard Petcher, Dr. Tim Reed

Prepared by Brandon Dillard

2007-2008 Progress Report

Wheat

Producer	County	Extension Regional Agronomist	Number of Varieties	Planting Date	Replication
Bennie Watson	Baldwin	Richard Petcher	12	11-11	Twice
Eric and Hilbert Hall	Baldwin	Richard Petcher	11	12-10	Single Strip
Eric Hall	Baldwin	Richard Petcher	8	12-7	Four
John David Strickland	Geneva	Brandon A. Dillard	12	11-30	Twice
Thomas Murray	Franklin	Timothy Reed	15	11-20	Single Strip
Richard Edgar	Elmore	Leonard Kuykendall	13	12-6	Twice
Jeff Sims	Talladega	Leonard Kuykendall	11	11-15	Single Strip

Oats:

Walt and Rod Richardson	Washington	Richard Petcher	8	11-16	Twice
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Summary – ALABAMA - On-Farm Wheat Variety Trials

1. *Franklin County - Planted 11/14/06 / Cooperator - Thomas Murray / Agronomists - Dr. Tim Reed and Heath Potter
2. *Talladega County - Planted 11/26/06 / Cooperator - Jeff Sims / Agronomist - Leonard Kuykendall
3. Elmore County - Planted 12/07/06 / Cooperator - Richard Edgar / Agronomist - Leonard Kuykendall
4. Geneva County - Planted 11/30/06 / Cooperator - John David Strickland / Agronomist - Brandon Dillard
5. Baldwin County - Planted 12/22/06 / Cooperators - Bob and Ben Griffith / Agronomist - Richard Petcher

	Variety	*Franklin County		*Talladega County		North Alabama Average		Elmore County		Geneva County		Baldwin County		Central & South Alabama Average		State Average	
		Bushels per Acre	Ratio	Bushels per Acre	Ratio	Bushels per Acre	Ratio	Bushels per Acre	Ratio	Bushels per Acre	Ratio	Bushels per Acre	Ratio	Bushels per Acre	Ratio	Bushels per Acre	Ratio
1.	Fleming	-----		-----		-----		66.0	108	55.4	105	72.6	125	64.7	113		-----
2.	Pioneer 26R31	16.2	90	54.2	106	35.2	95	62.4	102	63.4	120	65.6	113	63.8	112		52.4 105
3.	AGS 2010	12.3	68	38.5	71	25.4	70	63.5	104	58.1	110	65.0	112	62.3	108		47.5 93
4.	USG 3209	14.7	81	55.0	101	34.9	91	67.3	111	58.1	110	59.0	102	61.5	108		50.7 101
5.	USG 3592	24.5	135	65.5	121	45.0	128	63.7	105	55.5	105	-----		59.6	105		52.3 117
6.	AGS 2000	21.5	119	55.3	102	38.4	111	65.8	108	55.6	106	56.9	98	59.4	104		51.0 107
7.	Pioneer 26R61	19.8	109	59.4	110	39.6	110	58.7	96	-----		58.9	102	58.8	99		49.2 106
8.	LA 841	-----		-----		-----		-----		51.6	98	61.4	106	56.5	102		-----
9.	Georgia Gore	-----		40.2	74	-----		60.4	99	52.1	99	56.4	97	56.3	98		52.3 92
10.	Agri Pro Panola	16.7	92	60.3	111	38.5	102	55.4	91	52.6	100	60.4	104	56.1	98		49.1 100
11.	Coker 9553	14.1	78	54.0	100	34.1	89	56.7	93	47.0	89	58.1	100	53.9	94		46.0 92
12.	Vigoro McIntosh	22.0	122	51.3	95	36.7	109	59.7	98	45.3	86	-----		52.5	92		44.6 101
13.	Pioneer 26R12	20.7	114	64.5	119	42.6	117	50.8	83	36.7	70	41.3	71	42.9	75		42.8 89
14.	Croplan 514	-----		-----		-----		-----		-----		56.3	97	-----			-----
15.	Coker 9663	17.2	95	-----		-----		-----		-----		-----		-----			-----
16.	Croplan 8302	-----		-----		-----		-----		-----		42.1	73	-----			-----

Ratio

*All Varieties had Freeze Damage

100 = Average/ 95 = 5% Below Average/ 105 = 5% Above Average

Support from the Alabama Wheat and Feed Grains Committee; Alabama Crop Improvement Association; Agri-Pro Seeds; Plantation Seed ; Vigoro Seed(CPS) and UniSouth Genetics(USG).

Test: Wheat Variety for Southwest Alabama
Farmer Cooperator: William, Bob and Ben Griffith – Baldwin County
Planted: December 22, 2006 / Harvested June 9, 2007
Regional Extension Agronomist: Richard L. Petcher

Variety	Bushels per acre @ 13.5% Moisture	Test Weight Lbs/per bushel	Approx. Plant Height Inches	Maturity	Awned (Bearded)
Fleming	72.6	59	35	very early	yes
Pioneer 26R31	65.6	58	22	early med	no
AGS 2010	65.0	60	28	early	no
Terral LA 841	61.4	55	28	early	yes
Agri Pro Panola	60.4	60	28	med	yes
USG 3209	59.0	59	25	med	no
Pioneer 26R61	58.9	60	30	early med	yes
Coker 9553	58.1	60	28	med	yes
AGS 2000	56.9	59	31	early med	yes
Georgia Gore	56.4	58	31	early med	no
Croplan 514	56.3	57	26	very early	yes
Croplan 8302	42.1	56	32	med	yes
Pioneer 26R12	41.3	62	25	very late	yes
Trial Average	58.0	58.7	28.4		

Two applications of fungicide were applied to the test. Two varieties USG 3592 and Vigoro McIntosh were entered. However, we were unable to harvest due to combine breakdown and then heavy rains. Support from the Alabama Wheat and Feed Grains Committee; Alabama Crop Improvement Association; Agri-Pro Seeds; Terral Seed; Plantation Seed and Vigoro Seed (CPS).

Test: Wheat Variety
Farmer Cooperator: Richard Edgar - Elmore County, AL
Soil Type: Fine sandy loam (Coastal Plain)
Planted: 12/07/06, No till, Harvested 6/08/07
Regional Extension Agronomist: Leonard Kuykendall
2 replications combined for one weight *Insufficient Sample

Variety	Bushels per acre @ 13.5% Moisture	2 Year Average	3 Year Average	Test Weight Lbs/per bushel	Approx. Plant Height Inches	Maturity	Awmed (Bearded)
USG 3209	67.3	68.8	76.3	62	33	med	no
Fleming	66.0	71.8	-	62	35	very early	yes
AGS 2000	65.8	73.9	76.4	62	39	early med	yes
USG 3592	63.7	70.8	73.8	62	40	med	no
AGS 2010	63.5	69.4	-	63	38	early	yes
Pioneer 26R31	62.4	72.0	-	60	33	early med	no
Georgia Gore	60.4	69.4	73.5	61	35	early med	no
Vigoro McIntosh	59.7	72.3	-	63	40	med	no
Pioneer 26R61	58.7	68.4	72.7	62	39	early med	no
Coker 9553	56.7	67.8	-	*	39	med	yes
Agri Pro Panola	55.4	64.5	69.3	61	37	med	yes
Pioneer 26R12	50.8	64.5	70.1	62	36	late	no
Trial Average	60.9	69.5	73.2	61.8	37		

Support from the Alabama Wheat and Feed Grains Committee; Alabama Crop Improvement Association; Agri-Pro Seeds; Plantation Seed and Vigoro Seed (CPS).

Test: Wheat Variety
Farmer Cooperator: Thomas Murray, Franklin County, AL
Soil Type: Sandy loam
Planted: 11/14/06, No till, Harvested 6/22/07
Regional Extension Agronomist: Heath Potter, Tim Reed—CEC

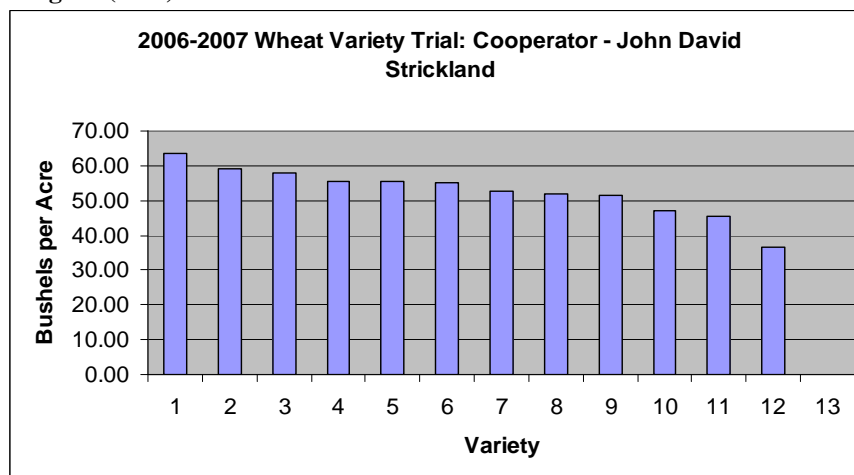
Variety	Bushels per acre @ 13.5% Moisture *
USG 3592	24.5
Macintosh	22.0
AGS 2000	21.5
Pioneer 26R12	20.7
Pioneer 26R61	19.8
Coker 9663	17.2
Panola	16.7
Pioneer 26R31	16.2
USG 3209	14.7
Coker 9553	14.1
AGS 2010	12.3
GA Gore	N/A (much of stand lost due to heavy rain after planting)
Trial Average	18.1

*Severe April Freeze Damage

Test: Wheat Variety / Farmer Cooperator: John David Strickland - Geneva County, AL
Planted: November 30, 2006, Harvested June 4th, 2007 / Growing Conditions: Dry with timely rains
Fungicide Application: Headline – April, 2007 / Soil Type:
Regional Extension Agronomist: Brandon Dillard

Variety	Bushels per acre @ 13.5% Moisture	Test Weight Lbs/per bushel	Approx. Plant Height Inches	Maturity	Awned (Bearded)
Pioneer 26R31	63.4	53.0	30	early med	N
USG 3209	59.2	58.5	32	med	N
AGS 2010	58.1	58.0	38	early	N
USG 3592	55.5	59.0	39	med	N
Fleming	55.4	62.5	34	very early	Y
AGS 2000	55.6	61.5	38	early med	Y
Agri Pro Panola	52.6	56.0	36	med	Y
Georgia Gore	52.1	58.0	35	early med	N
LA 841	51.6	59.0	37	early	Y
Coker 9553	47.0	60.0	39	med	Y
Vigoro McIntosh	45.3	63.5	38	med	N
Pioneer 26R12	36.7	57.0	31	late	Y
Pioneer 26R61	#	67.0	32	early med	Y
Trial Average	52.7	59.5	35.3		

Support from the Alabama Wheat and Feed Grains Committee,
Alabama Crop Improvement Association, Agri-Pro Seeds,
Plantation Seed and Vigoro (CPS)



Test: Wheat Variety
Farmer Cooperator: Jeff Sims, Talladega County, AL
Soil Type: Silt Loam (Limestone Valley)
Planted: 11/26/06, No till, Harvested 6/04/07
Regional Extension Agronomist: Leonard Kuykendall
 *Severe April freeze damage affected some varieties more than others

Variety	Bushels per acre @ 13.5% Moisture *	2 Year Average	3 Year Average	Test Weight Lbs/per bushel	Approx. Plant Height Inches	Maturity	Awned (Bearded)
USG 3592	65.5	80.0	76.7	62	29	Med	No
Pioneer 26R12	64.5	81.9	78.3	63	26	Late	Yes
Agri Pro Panola	60.3	78.8	76.8	63	26	Med	Yes
Pioneer 26R61	59.4	72.1	69.6	63	29	Early Med	Yes
AGS 2000	55.3	69.8	72.0	61	31	Early Med	Yes
USG 3209	55.0	67.9	70.5	62	28	Med	No
Pioneer 26R31	54.2	78.5	-	61	27	Early Med	No
Coker 9553	54.0	-	-	62	30	Med	Yes
Vigoro McIntosh	51.3	64.5	-	63	29	Med	No
Georgia Gore	40.2	57.5	58.9	62	29	Early Med	No
AGS 2010	38.5	61.1	-	64	30	Early	No
Trial Average	54.2	71.0	71.8	62.4	28.5		

Support from the Alabama Wheat and Feed Grains Committee; Alabama Crop Improvement Association; Agri-Pro Seeds; Plantation Seed and Vigoro Seed (CPS).

Test: Oat Variety for Southwest Alabama
Farmer Cooperator: Walt and Rod Richardson - Washington County
Planted: November 22, 2006 / Harvested June 1, 2007
Regional Extension Agronomist: Richard L. Petcher

Variety	Bushels per acre @ 13.5% Moisture	Test Weight Lbs/per bushel	Approx. Plant Height Inches
Horizon 321	152.1	37	37
Trophy	149.4	39	38
Coker 716	136.7	37	43
Florida 501	129.1	38	38
Horizon 474	125.3	37	37
Coker 227	100.8	35	40
Trial Average	132.2	37.2	38.8

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