

Blacklands – 2007

Uniform Wheat Variety Trials

<http://varietytesting.tamu.edu>

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Purpose: To provide unbiased yield data for wheat producers across the state. With this information, Texas wheat producers can make an educated decision about the most appropriate variety for their geographic region.

Overview: This Uniform Wheat Variety Trial (UWVT) evaluated both hard and soft wheat varieties within the same trial. This research is coordinated and implemented by numerous TCE and TAES faculty and staff from Amarillo, Dallas, College Station, and Commerce. Dr. David Worrall with Agri-Pro Wheat is also a key collaborator and contributed data from the Hillsboro location. We greatly appreciate the cooperation of Bob Beakley at the Ellis County location. The hard wheat UWVT was planted at 5 locations within the Blacklands and the soft wheat UWVT was planted at 4 locations. Below is a table describing the predominant issues that affected the 2006-07 wheat crop at each location.

Location	Issues
Ellis County	Moderate leaf rust (late) and some powdery mildew.
Greenville	Not harvested due to prolonged wet conditions after maturation.
Hillsboro	Low to moderate leaf rust (late) and some powdery mildew.
McGregor	Not harvested due to hail.
Prosper	Low to moderate leaf rust (late) and heavy powdery mildew.

Rankings: The rankings assigned to the varieties on the following pages were determined by 2007 grain yields across the area. Where two varieties yielded the same; test weight was used as a tiebreaker.

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Uniform Wheat Variety Trial - Ellis County, Hard Wheat 2007

2007 Rank	Variety	Source	Grain Yield (bu/ac)			Test Weight (lb/bu)	
			2007	2-Year [†]	3-Year [‡]	2007	
1	AP 04T8211*	AgriPro	67.6	-	-		
37	AP 04TA9029*	AgriPro	29.2	-	-	55	
16	Blend 1	(2145, Coronado, Fannin)	51.2	-	-	58	
26	Blend 2	(Fannin, Cutter, Sturdy 2K)	43.0	-	-	56	
20	Blend 3	(TAM 111, Coronado, Fannin)	48.0	-	-	58	
13	Bullet	OSU	51.9	-	-	57	
5	Coronado	AgriPro	56.4	56.2	54.0	58	
38	Cutter	AgriPro	27.0	31.0	36.0	54	
19	Deliver	OSU	48.7	52.9	-	58	
22	Doans	AgriPro	47.1	49.6	-	59	
7	Dumas	AgriPro	56.2	53.6	54.7	59	
18	Duster	OSU	49.5	-	-	57	
23	Endurance	OSU	46.6	52.8	-	56	
9	Fannin @ 30 lb/a	AgriPro	54.4	-	-	59	
14	Fannin @ 45 lb/a	AgriPro	51.7	-	-	60	
8	Fannin @ 60 lb/a	AgriPro	55.0	-	-	59	
4	Fannin @ 75 lb/a	AgriPro	61.5	63.3	61.0	60	
3	Fuller	KSU	62.6	-	-	59	
39	Guymon	OSU	25.9	-	-	51	
33	Jagalene	AgriPro	33.2	32.1	38.4	56	
35	Jagger	KSU	31.9	34.5	38.3	52	
29	Kojack	AgriPro	40.0	-	-	57	
31	Longhorn	AgriPro	36.2	40.6	37.6	57	
27	Mit	TAMU	40.9	-	-	56	
28	Neosho	AgriPro	40.3	-	-	55	
30	Ogallala	AgriPro	39.7	45.9	44.0	55	
11	Overley	KSU	53.5	50.8	51.2	57	
15	Santa Fe	Westbred	51.5	-	-	56	
6	Shocker	Westbred	56.3	-	-	56	
12	Sturdy 2K	TAMU	53.0	54.0	52.5	57	
40	TAM 110	TAMU	25.7	28.9	34.3	52	
32	TAM 111	TAMU	34.2	44.1	46.1	55	
25	TAM 112	TAMU	43.3	41.2	-	56	
2	TAM 203	TAMU	65.1	-	-	56	
17	TAM 304	TAMU	50.0	-	-	55	
36	TAM W101	TAMU	31.8	33.9	33.6	56	
21	TX01V6008*	TAMU	47.7	-	-	56	
10	TX03M1096*	TAMU	54.0	-	-	55	
24	TX99A0153-1*	TAMU	44.4	-	-	55	
34	Winmaster	Abilene Ag	32.5	-	-	56	
			Mean	45.8	45.0	44.7	56.4
			CV (%)	11.3			
			LSD (5%)	8.4			

* experimental wheat breeding line

† yield average for 2005 and 2007

‡ yield average for 2004, 2005, and 2007

Uniform Wheat Variety Trial - Hillsboro, Hard Wheat 2007 (Agri-Pro)

2007 Rank	Variety	Source	Grain Yield (bu/ac)		Test Weight (lb/bu)
			2007	2-Year [†]	2007
1	AP04T8211*	AgriPro	51.9	-	57.0
12	Bullet	OSU	39.4	35.5	57.6
7	Coronado	AgriPro	43.7	37.9	57.7
29	Cutter	AgriPro	14.1	16.6	55.1
13	Deliver	OSU	39.3	36.3	57.4
3	Doans	AgriPro	47.0	40.2	59.8
10	Dumas	AgriPro	42.9	36.0	58.6
16	Duster	OSU	38.0	36.6	56.1
17	Endurance	OSU	35.4	32.0	56.0
11	Fannin	AgriPro	42.6	36.8	58.4
8	Fuller	KSU	43.3	40.0	57.4
30	Guymon	OSU	14.1	18.0	56.4
27	Jagalene	AgriPro	19.6	17.4	55.3
20	Jagger	KSU	27.5	23.6	54.1
22	Kojak	AgriPro	27.0	28.5	54.3
26	Longhorn	AgriPro	21.8	22.5	55.9
24	Neosho	AgriPro	23.5	21.8	55.8
14	Overley	KSU	39.3	32.9	56.8
18	Santa Fe	Westbred	33.6	31.7	55.0
9	Shocker	Westbred	43.2	-	55.6
15	Sturdy 2K	TAMU	38.6	34.0	56.5
28	TAM 101	TAMU	17.5	-	54.8
25	TAM 110	TAMU	23.3	21.2	54.5
21	TAM 111	TAMU	27.1	26.6	53.0
6	TAM 112	TAMU	43.8	39.6	56.5
5	TAM 203	TAMU	45.1	-	55.1
4	TAM 304	TAMU	45.1	39.0	55.2
19	TX01V6008*	TAMU	29.8	-	56.1
2	TX03M1096*	TAMU	49.0	-	55.6
23	TX99A0153-1*	TAMU	26.0	-	51.6

Mean	32.9	30.6	56.0
CV (%)	11.5		
LSD (5%)	6.2		

* experimental wheat breeding line

[†] yield average for 2006 and 2007

Uniform Wheat Variety Trial - Prosper, Hard Wheat 2007

2007 Rank	Variety	Source	Grain Yield (bu/ac)			Test Weight (lb/bu)
			2007	2-Year [†]	3-Year [‡]	2007
8	AP 04T8211*	AgriPro	72.2	-	-	
40	AP 04TA9029*	AgriPro	39.2	-	-	55
16	Blend 1	(2145, Coronado, Fannin)	67.7	-	-	58
20	Blend 2	(Fannin, Cutter, Sturdy 2K)	65.9	-	-	56
17	Blend 3	(TAM 111, Coronado, Fannin)	67.2	-	-	58
27	Bullet	OSU	59.8	-	-	57
21	Coronado	AgriPro	64.9	64.0	57.8	58
25	Cutter	AgriPro	61.5	60.8	59.7	54
24	Deliver	OSU	61.6	64.3	-	58
4	Doans (AP4342)	AgriPro	76.2	76.1	-	59
7	Dumas	AgriPro	73.1	56.1	55.7	59
18	Duster	OSU	67.2	-	-	57
15	Endurance	OSU	68.0	67.0	-	56
5	Fannin @ 30 lb/a	AgriPro	76.1	-	-	59
2	Fannin @ 45 lb/a	AgriPro	79.3	-	-	60
3	Fannin @ 60 lb/a	AgriPro	77.1	-	-	59
13	Fannin @ 75 lb/a	AgriPro	68.6	68.8	66.5	60
1	Fuller	KSU	90.3	-	-	59
34	Guymon	OSU	52.4	-	-	51
31	Jagalene	AgriPro	55.9	53.0	54.7	56
33	Jagger	KSU	53.5	49.3	45.6	52
30	Kojack (AP7525)	AgriPro	56.0	-	-	57
37	Longhorn	AgriPro	49.2	50.6	49.2	57
35	Mit	TAMU	51.4	-	-	56
28	Neosho	AgriPro	56.8	-	-	55
36	Ogallala	AgriPro	49.5	55.3	57.5	55
6	Overley	KSU	75.3	68.2	65.3	57
14	Santa Fe	Westbred	68.3	-	-	56
11	Shocker	Westbred	69.3	-	-	56
26	Sturdy 2K	TAMU	61.1	62.1	58.0	57
12	TAM 110	TAMU	68.7	55.9	51.6	52
23	TAM 111	TAMU	62.3	64.2	61.2	55
19	TAM 112	TAMU	66.2	56.1	-	56
32	TAM 203	TAMU	55.4	-	-	56
9	TAM 304	TAMU	71.7	67.9	-	55
39	TAM W101	TAMU	45.9	46.5	42.9	56
29	TX01V6008*	TAMU	56.5	-	-	56
10	TX03M1096*	TAMU	69.8	-	-	55
22	TX99A0153-1*	TAMU	63.7	-	-	55
38	Winmaster	Abilene Ag	48.7	-	-	56
Mean			63.6	60.3	55.8	56.4
CV (%)			10.2			
LSD (5%)			10.6			

* experimental wheat breeding line

† yield average for 2005 and 2007

‡ yield average for 2004, 2005, and 2007

Uniform Wheat Variety Trial - Ellis Co., Soft Wheat 2007

2007 Rank	Variety	Source	Grain Yield (bu/ac)			Test Weight (lb/bu)
			2007	2-Year †	3-Year ‡	2007
20	AGS 2010	UGA	62.1	-	-	
19	AGS 2485	UGA	63.1	-	-	57.6
9	Coker 9553	Agri-Pro	72.4	59.6	64.4	58.5
30	Coker 9663	Agri-Pro	48.6	47.4	-	53.5
14	Coker 9700	Agri-Pro	69.1	58.4	-	57.6
17	Crawford	Agri-Pro	66.0	56.3	58.8	57.7
11	DK GR 9108	Delta King	70.3	60.1	-	56.5
25	Fannin*	Agri-Pro	60.0	54.8	58.2	59.1
7	GA 951231-4E25 [♦]	UGA	74.7	-	-	57.6
10	GA 951231-4E26 [♦]	UGA	72.0	-	-	58.1
2	GA 951567-4A35 [♦]	UGA	82.3	-	-	54.6
24	GA 96693-4E16 [♦]	UGA	60.3	-	-	57.8
22	HBK 3266	Hornbeck	61.3	58.4	56.6	56.3
6	LA 95135 [♦]	LSU	75.0	-	-	56.7
15	Magnolia	Agri-Pro	69.0	-	-	56.6
28	Mason	Agri-Pro	55.3	48.0	48.7	54.3
26	MBS 327	MBS	58.0	-	-	55.6
29	Pioneer 25R37	Pioneer	51.1	42.8	46.5	56.5
5	Pioneer 25R47	Pioneer	75.7	61.4	66.6	54.5
8	Pioneer 25R56	Pioneer	72.8	56.4	-	56.3
27	Sturdy 2K*	TAMU	57.5	52.4	53.3	58.3
18	TAM 304* ** [♦]	TAMU	64.6	65.3	-	54.7
12	Terral LA 482	Terral Seed	69.9	-	-	55.5
23	Terral LA 841	Terral Seed	61.3	49.6	-	55.6
21	Terral TV8331	Terral Seed	61.7	-	-	54.1
16	Terral TV8466	Terral Seed	67.0	55.5	58.6	56.3
3	Terral TV8558	Terral Seed	77.6	59.7	-	57.4
13	Terral TVX81170	Terral Seed	69.4	-	-	56.3
4	USG 3209	UniSouth Genetics	76.6	63.4	63.2	55.8
1	USG 3295	UniSouth Genetics	84.4	-	-	57.7

Mean	67	55.8	57.5	56.5
CV (%)	9.1			
LSD (5%)	9.9			

[♦] Experimental Lines

* Hard wheat varieties

** 2 year average for 2005 and 2007

† yield average for 2006 and 2007

‡ yield average for 2005, 2006, and 2007

Uniform Wheat Variety Trial - Prosper, Soft Wheat 2007

2007 Rank	Variety	Source	Grain Yield (bu/ac)		Test Weight (lb/bu)
			2007	2-Year [†]	2007
11	AGS 2010	UGA	75.9	-	58.0
28	AGS 2485	UGA	59.7	-	58.7
26	Coker 9553	Agri-Pro	65.7	69.4	57.4
8	Coker 9663	Agri-Pro	77.0	-	57.1
25	Coker 9700	Syngenta	65.8	-	57.6
19	Crawford	Agri-Pro	72.8	72.9	57.4
27	DK GR 9108	Delta King	65.2	-	55.4
14	Fannin*	Agri-Pro	74.5	71.8	59.3
13	GA 951231-4E25 [♦]	UGA	75.7	-	55.9
3	GA 951231-4E26 [♦]	UGA	81.0	-	56.7
5	GA 951567-4A35 [♦]	UGA	80.7	-	55.9
24	GA 96693-4E16 [♦]	UGA	66.6	-	55.1
18	HBK 3266	Hornbeck	73.2	68.1	56.7
7	LA 95135 [♦]	LSU	78.3	-	56.2
20	Magnolia	Agri-Pro	70.8	-	56.1
21	Mason	Agri-Pro	70.5	65.8	55.6
15	MBS 327	MBS	74.5	-	55.7
22	Pioneer 25R37	Pioneer	67.1	64.6	56.9
17	Pioneer 25R47	Pioneer	74.5	74.8	53.6
4	Pioneer 25R56	Pioneer	80.8	-	55.2
29	Sturdy 2K*	TAMU	59.5	61.3	56.9
9	TAM 304* [♦]	TAMU	77.0	70.5	54.6
12	Terral LA 482	Terral Seed	75.9	-	56.1
23	Terral LA 841	Terral Seed	66.7	-	56.1
30	Terral TV8331	Terral Seed	52.6	-	53.9
10	Terral TV8466	Terral Seed	76.2	69.1	55.2
1	Terral TV8558	Terral Seed	88.4	-	56.9
16	Terral TVX81170	Terral Seed	74.5	-	55.4
6	USG 3209	UniSouth Genetics	78.9	74.5	56.7
2	USG 3295	UniSouth Genetics	85.4	-	56.7

Mean 72.9 69.3 56.3

CV (%) 8.2

LSD (5%) 9.7

[♦] Experimental Lines

* Hard Wheat

[†] yield average for 2005 and 2007 (Location was not harvested in 2006)

Three year averages were not available.