Blacklands – 2006
Uniform Wheat Variety Trials

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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 Variety Trial (UVT) evaluated both hard and soft wheat varieties within the same trial. This research is coordinated and implement 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. We also appreciate the cooperation from numerous County Extension and IPM Agents. The hard wheat UVT was planted at 4 locations within the Blacklands including McGregor, Bardwell, Hillsboro, and Prosper, but only McGregor and Hillsboro were harvested. The soft wheat UVT was planted at McGregor, Bardwell, and Prosper, but only harvested at McGregor and Bardwell. Also, a soft wheat variety trial and a soft wheat vs. hard wheat variety trial were conducted at Leonard. Below is a table describing the predominant issues that affected the 2005-06 wheat crop at each location.

Rankings: The rankings assigned to the varieties on the following pages were determined by grain yield. Where two varieties yielded the same, test weight was used as a tiebreaker.

Funding: The State Uniform Variety Trial is funded by the Texas Wheat Producers Board.

Location	Issues
McGregor	Drought stress; non-uniform emergence; moderate leaf rust levels
Hillsboro	Drought stress; non-uniform emergence; moderate leaf rust levels
Ellis County	Only SRWW was harvested; drought stress
Prosper	Not harvested
Leonard	Drought stress; moderate leaf rust levels

Uniform Wheat Variety Trial - McGregor, Hard Wheat 2006

2006 Rank	Variety	Source	Grain Yield (bu/ac) 2006	2-Year †	3-Year ‡	Test Weight (lb/bu) 2006
35	2145	KSU	27.8	34.8	42.9	57.7
36	AP502 CL	AgriPro	27.5	34.5	31.9	54.5
26	AP6115*	AgriPro	35.0	-	-	56.0
16	AP6126*	AgriPro	45.2	-	-	61.3
23	AP7525*	AgriPro	36.5	-	-	59.4
8	Blend 1	(2145, Coronado, Fannin)	50.3	-	-	60.7
22	Blend 2	(Fannin, Cutter, Sturdy 2K)	38.1	-	-	59.5
12	Blend 3	(TAM 111, Coronado, Fannin)	46.5	-	-	60.0
7	Bullet	OSU	50.5	-	-	59.2
15	Coronado	AgriPro	45.3	46.8	45.6	59.4
33	Cutter	AgriPro	29.9	33.8	39.3	57.0
5	Deliver	OSU	51.8	49.9	-	59.2
21	Doans	AgriPro	39.8	43.0	-	61.3
14	Dumas	AgriPro	45.6	41.9	43.0	58.8
13	Duster	OSU	46.4	-	-	59.0
20	Endurance	OSU	40.8	45.5	-	55.5
2	Fannin	AgriPro	60.4	60.4	59.7	61.3
3	Fuller	KSU	58.3	-	-	60.3
29	Guymon	OSU	33.4	-	-	58.1
31	HG-9	Hardeman Grain	30.3	35.6	-	60.0
40	Jagalene	AgriPro	20.3	29.6	33.9	59.5
38	Jagger	KSU	25.4	30.7	29.5	56.7
34	Longhorn	AgriPro	28.2	30.7	31.5	58.0
28	Mit	TAMU	34.2	-	-	59.1
39	Neosho	AgriPro	22.2	-	-	-
32	Ogallala	AgriPro	30.3	41.3	40.9	59.4
27	OK01307*	OSU	34.9	-	-	57.6
11	Overley	KSU	46.5	52.9	51.5	59.6
10	Santa Fe	Westbred	47.5	-	-	57.7
19	Sturdy 2K	TAMU	42.5	47.7	47.7	57.5
30	TAM 110	TAMU	32.9	37.2	34.2	55.6
24	TAM 111	TAMU	36.5	43.8	41.2	56.5
4	TAM 112	TAMU	57.8	53.1	49.2	58.4
37	TAM W-101	TAMU	25.7	33.1	28.6	60.7
1	TXD1170*	TAMU	64.3	60.9	59.6	56.8
17	TXD3232*	TAMU	44.4	53.6	-	56.3
9	TXV1117*	TAMU	48.9	50.9	-	60.4
6	TXV5314*	TAMU	50.9	-	-	57.7
18	TXV6008*	TAMU	44.1	-	-	59.0
25	Winmaster	Abilene Ag	35.6	-	-	60.4
		Mean	**40.6**	**43.1**	**41.8**	**58.6**
		CV	**10.0**			
		LSD (5%)	**6.7**			

* experimental wheat breeding line

† yield average for 2005 and 2006

‡ yield average for 2004, 2005, and 2006

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Uniform Wheat Variety Trial - Hillsboro, Hard Wheat 2006 (AgriPro)

2006 Rank	Variety	Source	Grain Yield (bu/ac) 2006	Test Weight (lb/bu) 2006
27	2145	KSU	25.4	56.2
34	AP502 CL	AgriPro	20.1	56.7
16	AP6115*	AgriPro	29.6	56.0
9	AP6126*	AgriPro	32.8	60.3
14	AP7525*	AgriPro	30.1	55.9
20	Blend 1	(2145, Coronado, Fannin)	28.5	56.5
23	Blend 2	(Fannin, Cutter, Sturdy 2K)	27.0	56.3
22	Blend 3	(TAM 111, Coronado, Fannin)	28.1	57.2
12	Bullet	OSU	31.5	56.5
10	Coronado	AgriPro	32.2	55.7
38	Cutter	AgriPro	19.0	56.7
7	Deliver	OSU	33.3	57.9
6	Doans	AgriPro	33.4	59.2
18	Dumas	AgriPro	29.0	57.2
4	Duster	OSU	35.3	56.9
19	Endurance	OSU	28.6	56.7
13	Fannin	AgriPro	31.0	58.6
1	Fuller	KSU	36.7	56.7
32	Guymon	OSU	21.9	57.7
29	HG-9	Hardeman Grain	24.5	57.0
40	Jagalene	AgriPro	15.2	57.3
36	Jagger	KSU	19.7	56.7
31	Longhorn	AgriPro	23.3	56.3
30	Mit	TAMU	24.1	56.0
33	Neosho	AgriPro	20.1	57.3
39	Ogallala	AgriPro	17.3	58.0
25	OK01307*	OSU	26.2	56.7
24	Overley	KSU	26.6	55.5
15	Santa Fe	CSU	29.8	55.7
17	Sturdy 2K	TAMU	29.4	56.2
37	TAM 110	TAMU	19.2	57.0
26	TAM 111	TAMU	26.1	56.3
3	TAM 112	TAMU	35.5	59.5
35	TAM W-101	TAMU	19.9	56.3
5	TXD1170*	TAMU	34.4	56.4
8	TXD3232*	TAMU	32.9	55.7
21	TXV1117*	TAMU	28.3	56.8
2	TXV5314*	TAMU	35.9	58.5
11	TXV6008*	TAMU	31.9	59.3
28	Winmaster	Abilene Ag	24.9	56.1
		Mean	**27.5**	**57.0**
		CV	**9.7**	
		LSD (5%)	**4.4**	

* experimental wheat breeding line

Uniform Wheat Variety Trial - McGregor, Soft Wheat 2006

2006			Grain Yield (bu/ac)			Test Weight (lb/bu)
Rank	Variety	Source	2006	2-Year †	3-Year ‡	2006
1	AGS 2000	UGA	66.3	-	-	57.6
25	Coker 9375	AgriPro	42.4	41.3	48.8	53.9
21	Coker 9474	AgriPro	47.1	-	-	59.1
5	Coker 9553	AgriPro	60.2	65.1	-	60.0
22	Coker 9663	AgriPro	46.6	47.7	49.6	56.3
23	Crawford	AgriPro	45.8	52.7	58.0	59.1
45	Cutter	AgriPro	24.1	-	-	56.9
32	D02-8486*	Syngenta	38.1	-	-	59.3
29	Delta King 7710	Delta King	39.9	45.2	-	56.5
36	Delta King 7830	Delta King	30.9	38.0	-	56.4
37	Delta King 9410	Delta King	29.7	40.9	41.9	56.0
4	Delta King 9577	Delta King	60.7	-	-	55.7
19	Delta King GR 9108	Delta King	47.9	-	-	56.9
28	Endurance	OSU	41.6	-	-	56.3
11	Fannin	AgriPro	54.4	-	-	60.9
8	Fleming	UGA	58.4	-	-	58.8
16	GA951079-2E-31*	UGA	50.1	58.6	-	60.4
10	GA951216-2E-26*	UGA	55.6	65.0	-	58.7
3	GA951395-3A31*	UGA	61.5	-	-	59.3
2	GA951395-3E25*	UGA	63.8	-	-	58.3
7	GA96229-3A41*	UGA	58.9	-	-	60.1
14	GA96229-3E39*	UGA	53.3	-	-	59.3
6	HBK 3266	Hornbeck	59.3	59.7	-	59.3
15	LA841	Terral	51.9	60.6	-	56.1
17	Mason	AgriPro	49.5	49.9	55.2	55.9
13	Natchez	AgriPro	53.8	52.9	58.1	57.2
35	Pioneer 25R37	Pioneer	34.9	38.8	39.5	56.9
12	Pioneer 25R47	Pioneer	54.0	57.1	60.2	54.1
31	Pioneer 25R63	Pioneer	38.3	-	-	53.9
41	Progeny 110	Progeny	27.4	38.1	40.7	55.7
40	Progeny 133	Progeny	27.6	36.9	40.0	56.1
42	Progeny 145	Progeny	27.2	33.8	37.9	55.6
39	Progeny 166	Progeny	28.9	35.2	37.0	56.7
30	Progeny 185	Progeny	38.3	49.9	-	54.8
24	Progeny 196	Progeny	42.7	-	-	55.0
20	Sturdy 2K	TAMU	47.7	-	-	57.3
33	Tam 111	TAMU	37.3	-	-	57.5
27	TV8466	Terral	41.7	53.8	-	55.0
18	TV8558	Terral	48.5	58.4	-	55.3
34	TVX8331*	Terral	36.9	-	-	53.9
38	TVX8332*	Terral	29.5	-	-	55.9
43	TVX83H504*	Terral	27.2	-	-	55.3
26	TVX8660*	Terral	41.8	-	-	53.3
9	USG 3209	UniSouth Genetics	56.3	58.9	-	57.5
44	USG 3350	UniSouth Genetics	25.0	-	-	56.8
		Mean	**44.5**	**49.5**	**47.2**	**56.9**
		CV	**10.7**			
		LSD (5%)	**7.8**			

* experimental wheat breeding line

† yield average for 2005 and 2006

‡ yield average for 2004, 2005, and 2006

Uniform Wheat Variety Trial - Ellis Co., Soft Wheat 2006

2006 Rank	Variety	Source	Grain Yield (bu/ac) 2006	2-Year †	3-Year ‡	Test Weight (lb/bu) 2006
1	AGS 2000	UGA	56.9	-	-	59.6
22	Coker 9375	AgriPro	43.8	43.0	44.8	54.4
5	Coker 9474	AgriPro	50.3	-	-	60.7
16	Coker 9553	AgriPro	46.7	60.2	-	60.6
18	Coker 9663	AgriPro	46.2	44.3	46.4	57.8
17	Crawford	AgriPro	46.5	55.3	56.8	58.2
45	Cutter	AgriPro	26.1	-	-	56.6
12	D02-8486*	Syngenta	47.7	-	-	58.8
24	Delta King 7710	Delta King	42.4	50.5	-	55.8
27	Delta King 7830	Delta King	41.5	48.5	-	55.8
30	Delta King 9410	Delta King	40.5	48.4	44.6	56.1
3	Delta King 9577	Delta King	52.1	-	-	53.7
7	Delta King GR 9108	Delta King	49.8	-	-	57.3
39	Endurance	OSU	36.0	-	-	55.1
8	Fannin	AgriPro	49.6	-	-	62.8
28	Fleming	UGA	41.4	-	-	60.2
15	GA951079-2E-31*	UGA	46.8	52.1	-	60.6
35	GA951216-2E-26*	UGA	39.1	53.8	-	58.0
11	GA951395-3A31*	UGA	48.0	-	-	59.8
4	GA951395-3E25*	UGA	51.2	-	-	58.7
10	GA96229-3A41*	UGA	48.5	-	-	58.6
20	GA96229-3E39*	UGA	45.1	-	-	59.8
2	HBK 3266	Hornbeck	55.5	54.3	-	60.8
37	LA841	Terral	37.9	60.9	-	59.3
29	Mason	AgriPro	40.7	45.2	46.7	55.6
9	Natchez	AgriPro	49.4	52.9	49.1	58.0
44	Pioneer 25R37	Pioneer	34.4	44.3	45.4	54.9
14	Pioneer 25R47	Pioneer	47.0	61.8	57.2	54.4
33	Pioneer 25R63	Pioneer	39.9	-	-	53.3
43	Progeny 110	Progeny	34.9	45.7	39.7	56.1
40	Progeny 133	Progeny	35.9	45.5	41.8	55.7
38	Progeny 145	Progeny	36.9	45.0	38.9	55.5
36	Progeny 166	Progeny	38.4	47.3	40.4	56.2
31	Progeny 185	Progeny	40.4	45.4	-	53.7
19	Progeny 196	Progeny	45.2	-	-	56.2
13	Sturdy 2K	TAMU	47.3	-	-	57.6
32	Tam 111	TAMU	40.1	-	-	57.6
21	TV8466	Terral	43.9	54.5	-	53.1
26	TV8558	Terral	41.8	54.7	-	52.6
42	TVX8331*	Terral	35.5	-	-	53.9
25	TVX8332*	Terral	42.4	-	-	55.4
34	TVX83H504*	Terral	39.2	-	-	54.6
41	TVX8660*	Terral	35.8	-	-	51.7
6	USG 3209	UniSouth Genetics	50.1	56.4	-	54.3
23	USG 3350	UniSouth Genetics	42.4	-	-	56.6
		Mean	**43.4**	**50.8**	**46.0**	**56.8**
		CV	**8.9**			
		LSD (5%)	**12.6**			

* experimental wheat breeding line

† yield average for 2005 and 2006

‡ yield average for 2004, 2005, and 2006

Soft Wheat Variety Trial - Leonard 2006

Variety	Source	Grain Yield (bu/ac)	Grouping*	Test Weight (lb/bu)
Coker 9553	AgriPro	66.2	a	58.8
25R47	Pioneer	61.0	ab	54.0
3209	USG	57.2	bc	54.6
25R63	Pioneer	56.6	bc	53.2
LA841	Terral	55.6	bc	53.5
25R57	Pioneer	54.7	bc	55.6
TV8558	Terral	53.6	bc	53.6
Natchez	AgriPro	51.5	c	54.4
25R37	Pioneer	51.4	c	56.9
Coker 9375	AgriPro	51.4	c	53.9
TV8466	Terral	49.5	c	54.0
Crawford	AgriPro	48.9	c	54.6
	Mean	**54.8**		**54.8**

Soft Wheat vs. Hard Wheat Variety Trial - Leonard 2006

Variety	Source	Class	Grain Yield (bu/ac)	Grouping*	Test Weight (lb/bu)
Coker 9553	AgriPro	soft	66.8	a	57.9
25R47	Pioneer	soft	62.5	ab	54.1
TXD3232*	TAMU	hard	59.7	ab	55.3
Fannin	AgriPro	hard	59.3	ab	59.9
LA841	Terral	soft	58.5	b	55.2
Doans	AgriPro	hard	58.1	b	59.6
25R57	Pioneer	soft	57.5	b	53.5
Crawford	AgriPro	soft	54.6	b	56.0
25R37	Pioneer	soft	53.8	b	54.8
Overley	KSU	hard	45.3	c	58.4
2145	KSU	hard	38.4	d	56.9
		Mean	**55.9**		**56.5**

* Yields with the same letter are not significantly different (P = 0.05).