

Blacklands – 2004-05

Wheat Variety Trials

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Purpose: To provide unbiased yield, quality, and pest rating 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 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. 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 HRW and SRW wheat trial was planted and harvested at 3 locations within the Blacklands, including Prosper, Bardwell, and McGregor. Below is a table describing the “issues” that affected the 2004-05 wheat crop at each location.

HRWW vs. SRWW variety comparison in Northeast, Tx, near Royse City. This research trial was conducted by Jim Swart and Don Reid at TAMU-Commerce.

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

Location	Issues
Ellis county	Leaf rust, and dry spring
McGregor	Leaf rust and stripe rust, and dry spring.
Prosper	Stripe rust and leaf rust, dry spring
Royse City	Stripe rust and leaf rust, dry spring and some bird damage



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Hard Red Winter Wheat Trial 2004-05

Variety	Source	Average	Ellis	Prosper	McGregor
		-----		Bu/A	-----
*TX01M5009	TAMU	66.5	59	76	65
Fannin	Agri-Pro	64.7	65	69	60
*TX01D3232	TAMU	64.3	66	64	63
*TX00D1390	TAMU	60.2	51	60	69
Endurance	OSU	58.5	59	66	50
*TX00V1117	TAMU	58.3	67	55	53
*Agri-Pro 4342	Agri-Pro	58.1	52	76	46
Deliver	OSU	57.4	57	67	48
TAM 111	TAMU	56.9	54	66	51
Sturdy 2K	TAMU	56.7	55	63	53
TAM 303	TAMU	56.5	52	60	58
Overley	KSU	56.1	48	61	59
Coronado	Agri-Pro	55.5	56	63	48
Ogallala	Agri-Pro	55.2	52	61	52
Abilene Ag Exp	Abilene Ag	50.4	51	60	40
Thunderbolt	Agri-Pro	49.3	44	57	46
HG-9	Hardeman Grain	47.3	49	53	41
Cutter	Agri-Pro	44.5	35	60	38
Stanton	KSU	44.5	41	54	39
Cisco	Goertzen	44.3	44	43	46
TAM 112	TAMU	44.3	39	46	48
Longhorn	Agri-Pro	43.5	45	52	33
2145	KSU	42.9	42	45	42
Dumas	Agri-Pro	42.7	51	39	38
Trego	KSU	41.3	36	46	42
TAM W 101	TAMU	41.1	36	47	40
OK 101	OSU	40.8	45	44	34
Jagelene	Agri-Pro	40.1	31	50	39
Jagger	KSU	39.6	37	45	36
TAM 110 CL	TAMU	39.2	33	49	35
TAM 202	TAMU	38.9	34	47	36
TAM 110	TAMU	38.8	32	43	41
OK 102	OSU	38.5	42	39	34
TAM 105	TAMU	38.5	42	38	36
AP502 CL	Agri-Pro	37.5	30	41	41
TAM 107	TAMU	34.9	29	42	34
Lockett	TAMU	30.3	20	39	32
Grand Mean		48.1	45.5	53.7	45.1
CV			8.64	10.68	12.28
LSD (5%)			7.11	7.45	9.69

* Experimental wheat breeding lines

Soft Red Winter Wheat Trial 2004-05

Variety	Source	Average	Ellis	Prosper	McGregor	Royse City
		----- Bu/A -----				
*APW 742	Agri-Pro	76.6	74	73	70	90
LA 481	LSU	76.5	84	60	69	94
Pioneer P25R47	Pioneer	75.5	77	75	60	90
*UGA 2E26	Univ. GA	75.2	69	73	74	85
*TVX83W479	Terrell	73.5	68	72	68	86
LA 9560	LSU	71.5	73	60	64	89
*UGA 2E31	Univ. GA	70.5	57	74	67	84
USG 3209	Uni-South Genetics	69.7	63	70	61	85
Panola	Agri-Pro	69.5	64	78	55	82
Crawford	Agri-Pro	69.0	64	73	60	80
TV 8466	Terrell	67.9	65	62	66	79
DK 7710	Delta King	66.7	58	78	50	80
Beretta	Agri-Pro	66.5	72	63	62	69
DK 1551W	Delta King	65.6	57	67	62	76
DK 9410	Delta King	63.7	56	70	52	77
Progeny 166	Progeny	62.2	56	76	42	75
TV 8502	Terrell	62.1	57	73	38	81
Progeny 185	Progeny	62.0	50	65	61	71
HBK 3266	Hornbeck	61.8	53	63	60	71
TV 8565	Terrell	61.7	54	72	46	74
DK 7900	Delta King	61.6	56	66	47	76
Natchez	Agri-Pro	61.5	56	66	52	72
Progeny 133	Progeny	61.3	55	69	46	75
TV 8450	Terrell	60.4	54	69	47	72
DK 7830	Delta King	60.1	56	67	45	73
Progeny 110	Progeny	59.2	56	66	49	66
Mason	Agri-Pro	59.1	50	61	50	75
Progeny 145	Progeny	58.6	53	71	40	70
Pioneer P25R37	Pioneer	57.4	54	62	43	71
Progeny 156	Progeny	56.3	55	62	41	67
NK Coker 9295	Syngenta	53.0	46	56	56	54
NK *B980582	Syngenta	51.9	51	50	46	61
USG 3592	Uni-South Genetics	51.0	39	49	54	62
NK Coker 9375	Syngenta	50.9	42	57	40	64
NK Coker 9663	Syngenta	49.2	42	45	49	61
*TVX84W451	Terrell	43.9	37	43	44	51
Progeny 155	Progeny	41.5	38	49	30	49
Progeny 125	Progeny	35.2	27	34	36	44
Grand Mean			56	64	62	73
CV				8.64	10.68	12.28
LSD (5%)				7.11	7.45	9.69

* Experimental wheat breeding lines

**2004-2005 Variety Trial
SRWW vs. HRWW
Jim Swart and Don Reid**

Royse City, TX

Royse City, Yield Trial

Variety	Replication						Average Bu/A
	1	2	3	4	5	6	
Pioneer 25R47 (S)	71.4	61.8	94.3	94.1	88.8	102.7	85.5a
Pioneer 25R57 (S)	70.0	72.9	82.9	68.9	75.0	80.3	75.0ab
Agripro Natchez (S)	74.3	57.4	66.3	84.2	79.3	84.1	74.3ab
Overly (H)	44.3	76.6	70.9	86.2	77.2	74.7	71.7bc
Agripro Crawford (S)	68.2	57.7	77.0	57.2	79.5	69.4	68.2bcd
Pioneer 25R37 (S)	71.6	57.3	75.6	71.9	65.5	64.4	67.7bcd
Agripro Ogallala (H)	57.6	71.1	61.6	74.9	58.8	75.7	66.6bcd
Agripro Fannin (H)	51.2	60.9	62.5	75.0	79.4	65.2	65.7bcd
Coker 9375 (S)	59.4	58.4	64.3	54.2	55.9	64.0	59.4cd
2145 (H)	48.1	58.0	60.7	54.6	60.3	64.8	57.8cde
Agripro Jagalene (H)	36.5	52.6	65.1	55.1	58.9	53.7	53.7de
Coker 9295 (S)	51.9	35.9	54.4	51.2	55.1	63.0	51.9e

Mean Separation: Newman Keuls Multiple Comparison Test @ 5%