

High Plains - 2005 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: The Uniform Variety Trial is coordinated and implemented by numerous TCE and TAES faculty and staff from Amarillo, Dallas, Vernon, and College Station. Dr. David Worrall with Agri-Pro Wheat is also a key collaborator and contributed data from some locations. We also appreciate the cooperation from numerous County Extension Agents and farmers. The HRW wheat trial was harvested at 12 locations (6 irrigated and 6 dryland) in the High Plains. Below is a table describing the “issues” that affected the 2004-05 wheat crop at each location.

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

Location	Issues
Bushland – Irrigated	High Stripe rust pressure and hail damage
Canadian – Dryland	High Stripe rust and moderate Leaf rust
Claude – Dryland	Very high Stripe rust pressure
Clovis – Dryland	High Stripe rust pressure, received late fungicide application. Some lodging.
Clovis - Irrigated	High Stripe rust pressure, received late fungicide application. Some lodging.
Dalhart – Irrigated	Low stripe rust and received a fungicide application
Dimmit – Irrigated	Hail damage and high Stripe rust pressure, received a fungicide application
Etter – Dryland	High Stripe rust pressure
Etter - Irrigated	High Stripe rust pressure and erratic stand
Hereford – Dryland	High Stripe rust pressure
Perryton (Agri-Pro) – Dryland	High Stripe rust pressure, received late fungicide application
Perryton – (Agri-Pro) - Irrigated	High Stripe rust pressure, received late fungicide application

Dryland - High Plains Wheat Variety Trials 2004-05

Variety	Average	Hereford	Clovis	Etter	Perryton	Canadian	Claude	Avg T.W.
	Yield (Bu/A)							
Agri-Pro 4342 exp.	52.7	40	58	47	54	69	48	61.1
Overley	51.3	39	61	50	46	69	42	60.7
Jagger	50.6	35	59	52	58	55	45	59.3
TAM 111	50.1	44	56	34	57	64	47	61.7
T 81	49.8	37	59	54	50	55	44	60.3
TX00V1117 exp.	48.6	37	64	59	50	43	39	61.3
Cutter	48.4	41	52	46	51	56	44	60.6
Fannin	46.9	39	52	34	50	60	46	61.1
Deliver	45.5	33	49	49	46	56	40	61.4
TX00D1390 exp.	44.9	33	53	46	51	49	37	60.4
Endurance	44.9	29	55	54	51	45	36	60.6
TX01D3232 exp.	44.6	29	58	49	46	45	40	57.9
Jagelene	44.1	36	45	36	49	57	41	62.3
Ogallala	43.0	37	51	37	43	51	39	61.2
Dumas	42.3	31	56	47	51	35	35	61.2
TAM 303	41.9	34	53	42	50	38	35	58.1
HG-9	41.6	31	46	42	44	44	43	61.3
Coronado	41.3	25	51	50	50	35	38	59.8
TAM 105	41.1	27	52	54	45	38	30	59.9
Abilene Ag	41.0	29	47	37	44*	47	43	61.0
Scout 66	40.8	33	48	42	46	38	38	60.8
Thunderbolt	40.7	29	43	44	48	43	37	62.1
Sturdy 2K	40.2	36	48	32	49	42	33	59.0
2145	39.9	29	52	36	41	47	34	60.2
TAM 112	39.8	29	60	43	50	27	30	61.3
Stanton	38.9	32	49	40	46	35	31	60.8
Cisco	38.6	25	50	45	44	37	31	60.1
OK 101	38.6	26	51	46	45	35	28	60.4
AP502 CL	38.1	26	54	48	49*	25	27	58.0
Lockett	38.0	29	48	42	45	31	33	59.5
TAM 110	37.7	25	48	52	46	28	28	58.8
Longhorn	37.4	22	50	47	49	28	28	60.5
TAM 110 CL	37.3	22	49	49	45	30	28	59.0
TAM 107	37.0	19	54	54	39	30	26	58.6
2174	36.5	25	46	41	46	31	31	60.0
TAM 202	36.1	20	51	49	47	24	26	59.3
Platte	36.0	24	46	38*	49	28	31*	na
Trego	35.3	31	50	32	45	27	27	61.1
OK 102	34.0	22	47	36	45	30	25	61.0
TAM W 101	33.5	23	41	38	37	32	30	60.7
Grand Mean	41.8	30.4	51.5	44.4	47.6	41.4	35.4	60.3
CV		13.6	12.3	18.4	6.9	8.1	8.1	
LSD (5%)		6.7	10.3	8.3	5.4	5.4	4.0	

Irrigated - High Plains Wheat Variety Trials – 2004-05

Variety	Average	Dalhart	Perryton	Dimmitt	Bushland	Etter	Clovis	Avg TW
	Yield (Bu/A)							
TAM 111	86.2	120	95	82	80	77	64	61.9
T 81	78.0	110	84	58	69	74	73	61.5
TX01D3232 exp.	77.7	103	81	65	41	81	96	59.8
Agri-Pro 4342 exp.	76.7	107	85	59	52	84	73	62.9
Overley	74.3	111	75	63	47	74	75	61.1
Jagelene	74.2	106	86	64	54	62	73	61.4
Jagger	73.0	107	85	57	60	78	52	59.7
TAM 105	72.4	105	69	62	44	72	83	59.9
TX00V1117 exp.	72.3	110	80	66	43	71	64	61.2
Cutter	72.3	113	75	58	57	77	53	61.9
TX00D1390 exp.	71.4	97	86	70	44	72	61	60.3
Endurance	70.3	108	71	55	43	67	78	58.8
Dumas	70.2	117	76	55	34	63	77	59.9
Ogallala	69.7	103	81	57	41	68	68	62.4
TAM 303	68.9	103	78	52	43	75	64	58.9
Deliver	68.6	105	75	57	54	60	61	61.7
OK 101	67.8	97	67	57	39	66	81	59.5
Cisco	66.8	109	66	54	38	65	69	58.2
Thunderbolt	66.6	105	67	58	34	62	74	61.6
2145	66.6	97	72	60	33	59	80	60.0
TAM 110 CL	66.1	95	64	59	35	63	81	57.9
OK 102	66.0	100	65	57	33	57	84	59.3
Platte	65.6	93	68	42	43*	69*	80	na
TAM 110	65.5	105	61	56	36	67	68	57.6
TAM 107	63.8	103	57	49	30	68	76	57.8
2174	63.6	104	63	49	30	55	80	59.6
Longhorn	62.5	88	61	60	26	69	70	60.8
Coronado	62.4	102	68	44	27	57	78	58.3
AP502 CL	61.4	100	61*	57	31	50	69	56.9
Fannin	60.6	93	62	61	55	49	44	61.5
Stanton	60.2	103	62	49	26	54	66	59.9
Trego	59.0	96	63	62	23	40	70	59.4
TAM 202	58.5	97	59	48	24	63	60	58.8
TAM W 101	58.0	89	63	47	32	57	61	59.6
Abilene Ag	57.9	98	59*	43	37	68	44	61.4
Scout 66	57.4	81	70	48	34	62	49	61.1
Sturdy 2K	57.0	104	42	58	32	48	60	59.8
TAM 112	56.7	96	64	58	28	53	41	59.2
Lockett	56.0	87	60	50	34	58	48	59.0
HG-9	55.4	87	58	44	36	60	47	61.5
Grand Mean	66.4	101.3	69.6	56.2	39.9	64.4	67.3	60.0
CV		6.0	7.2	12.4	8.2	12.7	15.5	
LSD (5%)		9.8	8.3	11.3	5.3	11.5	17.0	