

Rolling Plains – 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: The Uniform Variety Trial is coordinated and implemented by numerous TCE and TAES faculty and staff from Amarillo, Vernon, and College Station. State-wide the HRW wheat trial was planted in 24 locations with 22 being harvested. In the Rolling Plains, six locations were planted and harvested for yields. Dr. David Worrall with Agri-Pro Wheat is also a key collaborator and contributed data from the multiple locations. We also appreciate the cooperation from numerous County Extension Agents and farmers. The HRW wheat trial was planted at 6 locations across within the Rolling 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
Abilene	December planted, wet winter, dry spring, and minimal spring disease pressure
Chillicothe #1	Wet fall and winter followed by a dry spring, stripe rust
Chillicothe #2 – Hardeman Grain	Wet fall and winter followed by a dry spring
Knox County - Agri-Pro location	Wet fall and winter followed by a dry spring
Lockett – Agri-Pro location	Dry spring and stripe rust
Vernon	Dry spring and jointed goatgrass pressure

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Variety	Average	Chillicothe#1	Chillicothe #2	Vernon	Abilene	Knox	Lockett	Average T.W.
	----- Yield (Bu/A) -----							
*TX00D1390	51.5	51	36	45	58	54	62	62.3
*Agri-Pro 4342	51.0	53	34	39	49	61	67	63.4
Overley	50.9	58	42	46	45	63	67	63.0
*TX01D3232	50.3	51	34	57	59	x	x	61.7
Jagelene	49.1	54	41	41	48	55	61	64.1
*TX01M5009	48.6	47	30	26	56	58	74	61.0
2145	48.3	43	35	37	48	46	71	63.5
Jagger	47.8	49	42	43	52	47	66	62.2
Cutter	47.5	53	33	49	47	52	58	62.7
TAM 111	46.8	54	33	39	50	63	60	62.8
Endurance	46.4	47	40	37	40	47	67	62.8
Fannin	46.0	46	30	34	44	58	58	62.3
Sturdy 2K	45.6	46	31	38	36	48	72	62.5
Ogallala	45.3	52	33	44	44	55	56	63.6
TAM 303	44.5	43	33	34	46	50	61	61.7
Deliver	43.6	42	33	37	44	46	58	63.1
Dumas	42.6	41	35	39	29	56	52	63.3
TAM 112	40.5	42	31	38	45	43	57	62.7
Thunderbolt	40.4	47	42	32	42	55	49	63.2
Coronado	39.5	38	34	28	47	41	48	61.9
Abilene Ag	39.3	51	25	44	35	40	52	61.3
Cisco	39.2	40	30	33	40	39	53	62.1
*TX00V1117	38.8	60	21	42	30	35	54	58.4
HG-9	38.2	55	21	40	41	41	43	61.2
TAM 110 CL	38.1	38	41	37	37	43	52	62.0
AP502 CL	38.1	36	39	40	37	--	--	60.3
Trego	38.1	31	21	35	50	38	59	63.3
OK 101	36.1	35	32	34	34	34	50	63.2
TAM 202	34.9	37	36	30	38	37	54	62.0
Stanton	34.6	36	23	36	42	38	48	62.1
TAM 105	34.1	43	32	29	32	35	53	61.1
TAM 110	34.0	40	34	20	35	36	52	61.3
Lockett	33.9	39	27	40	29	38	45	61.7
OK 102	33.8	32	23	26	27	33	59	63.1
TAM W 101	33.4	31	30	31	35	36	51	62.1
Longhorn	33.0	41	21	28	28	39	49	61.2
TAM 107	32.3	34	30	28	32	33	50	61.5
2174	35.0	27	21	39	--	37	54	62.6
Weathermaster 135	38.2	53	27	35	--	--	--	61.7
Wintex	36.9	49	21	40	--	--	--	60.1
Neosho	44.6	--	--	--	--	43.5	58.7	
**2145/Coronado/Fannin	53.7	--	--	--	48	50.8	64.9	62.6
**Fannin/Cutter/Sturdy 2K	54.3	--	--	--	47	55	66	61.7
**Tam111/Cutter/Sturdy 2K	51.9	*	*	*	53	48.7	64.8	60.1
Grand Mean		44.09	31.49	36.80		46.7	58.1	
CV		10.70	14.40	23.04		12.3	10.3	
LSD (5%)		7.67	7.37	11.89		9.4	9.8	

* Experimental wheat breeding lines.

** Equal mixture of three varieties.