

Uniform Oat Variety Trials 2006

Gaylon Morgan, TCE Small Grains Specialist – College Station
Russell Sutton, Assistant Research Scientist – Dallas
Rex Herrington, Research Associate – College Station
Jason Baker, Research Associate – Vernon
Ben McKay, Extension Assistant – College Station

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

Overview: The Uniform Variety Trial (UVT) is coordinated and implemented by numerous TCE and TAES faculty and staff from College Station, Dallas, and Vernon. We greatly appreciate the cooperation of Bob Beakley at the Ellis County location. Six locations of the Oat UVT were planted, but only three were harvested: College Station, Ellis County, and Chillicothe. The College Station location was planted on October 26, 2005 and harvested May 8, 2006. Below is a table describing the predominant issues that affected the 2005-06 oat crop at each location.

Location	Issues
College Station – Dryland	Late-season Crown Rust; light to moderate bird damage
Ellis County – Dryland	Drought stress
Chillicothe – Dryland	Severe drought stress

Seed for the Oat UVT was provided by:

Dallas – Turner Seed Co., Breckenridge, TX
Harrison – MBS Seed, Denton, TX
Horizon 314 – East Texas Seed Co., Tyler, TX
Horizon 474 – East Texas Seed Co., Tyler, TX
Plot Spike – Ragan & Massey Seed Co., Ponchatoula, LA
TAMO 397 – Douglass W. King Seed Co., San Antonio, TX
TAMO 405 – Douglass W. King Seed Co., San Antonio, TX
TAMO 406 – Texas Foundation Seed, Vernon, TX
TAMO 606 – Turner Seed Co., Breckenridge, TX



The information given herein is for educational purposes only. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by Texas Cooperative Extension, Texas Agricultural Experiment Station and Texas A&M University is implied.

Educational programs conducted by Texas Cooperative Extension, Texas Agricultural Experiment Station and Texas A&M University are open to people without regard to race, color, sex, disability, religion, age, or national origin.

Uniform Oat Variety Trial - Yield & Test Weight 2006

Variety	<u>College Station</u>		<u>Chillicothe</u>		<u>Ellis Co.</u>	<u>Average</u>
	Grain Yield (bu/ac)	Test Weight (lb/bu)	Grain Yield (bu/ac)	Test Weight (lb/bu)	Grain Yield (bu/ac)	Grain Yield (bu/ac)
Dallas	115.9	23.0	47.5	22.2	75.0	79.5
Harrison	112.8	30.0	50.9	24.3	72.1	78.6
Horizon 321	114.8	31.5	46.0	26.1	103.2	88.0
Horizon 474	109.1	31.5	42.6	29.1	91.2	81.0
Plot Spike	129.5	27.0	31.9	24.6	98.8	86.7
TAMO 397	131.0	27.5	38.8	28.9	75.0	81.6
TAMO 405	137.3	31.5	45.7	32.0	92.3	91.8
TAMO 406	137.7	31.5	40.6	28.2	95.7	91.4
TAMO 606	143.3	29.0	41.4	26.3	93.9	92.9
TX02U7473*	155.2	33.0	32.9	31.6	94.4	94.2
TX02U7682*	143.5	32.5	40.2	31.3	88.6	90.8
Mean**	129.4		36.8		88.8	87.0
LSD (5%)**	18.5		7.1		8.9	
CV**	8.8		4.3		12.9	

Uniform Oat Variety Trial - Agronomic Ratings 2006

Variety	<u>Ellis Co.</u>	<u>College Station</u>			Heading Date
	Crown Rust***	Crown Rust***	Stem Rust***	Height (in)	
Dallas	9	8	2	43	March 22
Harrison	0	5	7	48	March 21
Horizon 321	4	6	5	40	March 23
Horizon 474	8	1	6	42	March 19
Plot Spike	0	2	4	49	March 28
TAMO 397	8	1	0	47	March 14
TAMO 405	0	0	0	39	March 10
TAMO 406	0	0	0	44	March 20
TAMO 606	2	2	6	41	March 26
TX02U7473*	0	0	0	44	March 13
TX02U7682*	0	0	0	42	March 14

* experimental variety

** values calculated from entire 40-entry trial

*** ratings 0-9, 0 representing no rust



The information given herein is for educational purposes only. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by Texas Cooperative Extension, Texas Agricultural Experiment Station and Texas A&M University is implied.

Educational programs conducted by Texas Cooperative Extension, Texas Agricultural Experiment Station and Texas A&M University are open to people without regard to race, color, sex, disability, religion, age, or national origin.