

Uniform Oat Variety Trials – 2007

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Purpose: To provide unbiased yield data for oat 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 Oat Variety Trial (UOVT) 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. Seven locations of the Oat UVT were planted, but only four were harvested. The table below describes the predominant issues that affected the 2006-07 oat crop at each location.

Location	Issues
Brady	Heavy deer damage; winter drought; moderate crown rust
Castroville	Not harvested; severe crown rust and stem rust
Chillicothe	Moderate shattering before harvest
College Station	Severe crown rust and stem rust
Ellis County	Wet conditions in fall and spring; delayed harvest
McGregor	Not harvested due to hail damage
Prosper	Not harvested due to wet conditions and shattering

Rankings: The rankings assigned to the varieties on the following pages were determined by 2007 grain yields from each independent location. Where two varieties yielded the same, test weight was used as a tiebreaker.

Seed for the Oat UVT was provided by:

Dallas – Turner Seed Co., Breckenridge, TX
Harrison – MBS Seed, Denton, TX
Horizon 321 – East Texas Seed Co., Tyler, TX
Horizon 474 – East Texas Seed Co., Tyler, TX
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



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Variety	Source	Brady		Chilicothe		College Station		Ellis County
		Grain Yield	Test Weight	Grain Yield	Test Weight	Grain Yield	Test Weight	Grain Yield
		(bu/ac)	(lb/bu)	(bu/ac)	(lb/bu)	(bu/ac)	(lb/bu)	(bu/ac)
Dallas	TAMU	70.2	24.0	77.1	29.4	54.5	21.5	111.9
Harrison	LSU	62.2	26.5	73.0	36.4	84.2	31.5	92.8
Horizon 270	LSU	117.5	30.5	65.9	31.4	117.7	31.0	112.4
Horizon 314	FSU	87.3	23.0	92.3	24.9	72.5	20.0	114.0
Horizon 321	FSU	88.3	27.0	82.1	37.5	93.5	29.0	98.3
Horizon 474	FSU	91.2	28.5	61.1	39.3	109.7	31.5	86.7
TAMO 397	TAMU	81.5	25.5	61.3	26.2	100.9	28.5	71.1
TAMO 405	TAMU	78.0	28.0	86.2	32.2	115.9	28.5	85.3
TAMO 406	TAMU	106.8	30.0	93.6	29.8	106.0	32.0	102.3
TAMO 606	TAMU	105.4	28.0	78.0	35.0	97.3	29.5	104.6
Trophy	LSU	104.5	27.5	90.0	31.1	110.8	32.5	116.2
Mean		90.3	27.1	78.2	32.1	96.6	28.7	99.6
C.V. (%)		10.6		-		9.1		-
LSD (P=0.10)		13.5		-		12.5		-

Uniform Oat Variety Trial Rust Ratings - 2007

Variety	Source	College Station				Castroville	McGregor
		Crown Rust*	Stem Rust*	Height (inches)	Heading Date	Crown Rust*	Crown Rust*
Dallas	TAMU	9	(dead-CR)	41	94	7.5	9
Harrison	LSU	1.5	9	48	93	1	8
Horizon 270	LSU	0	1	42	89	0	0
Horizon 314	FSU	7.5	1	48	91	1.5	8
Horizon 321	FSU	3.5	4	39	89	0.8	6
Horizon 474	FSU	7.5	7	47	93	0.5	3
TAMO 397	TAMU	7.5	2	46	85	5	6
TAMO 405	TAMU	0	1	32	83	2	3
TAMO 406	TAMU	0	2	44	91	0	0
TAMO 606	TAMU	3.5	7	39	95	0.5	6
Trophy	LSU	0	6	45	91	0.5	3

* Ratings 0-9;

0 represents no rust.