



2018 Texas Oat Variety Trial Results

varietytesting.tamu.edu

2018

Texas Oat Variety Trials

varietytesting.tamu.edu/wheat

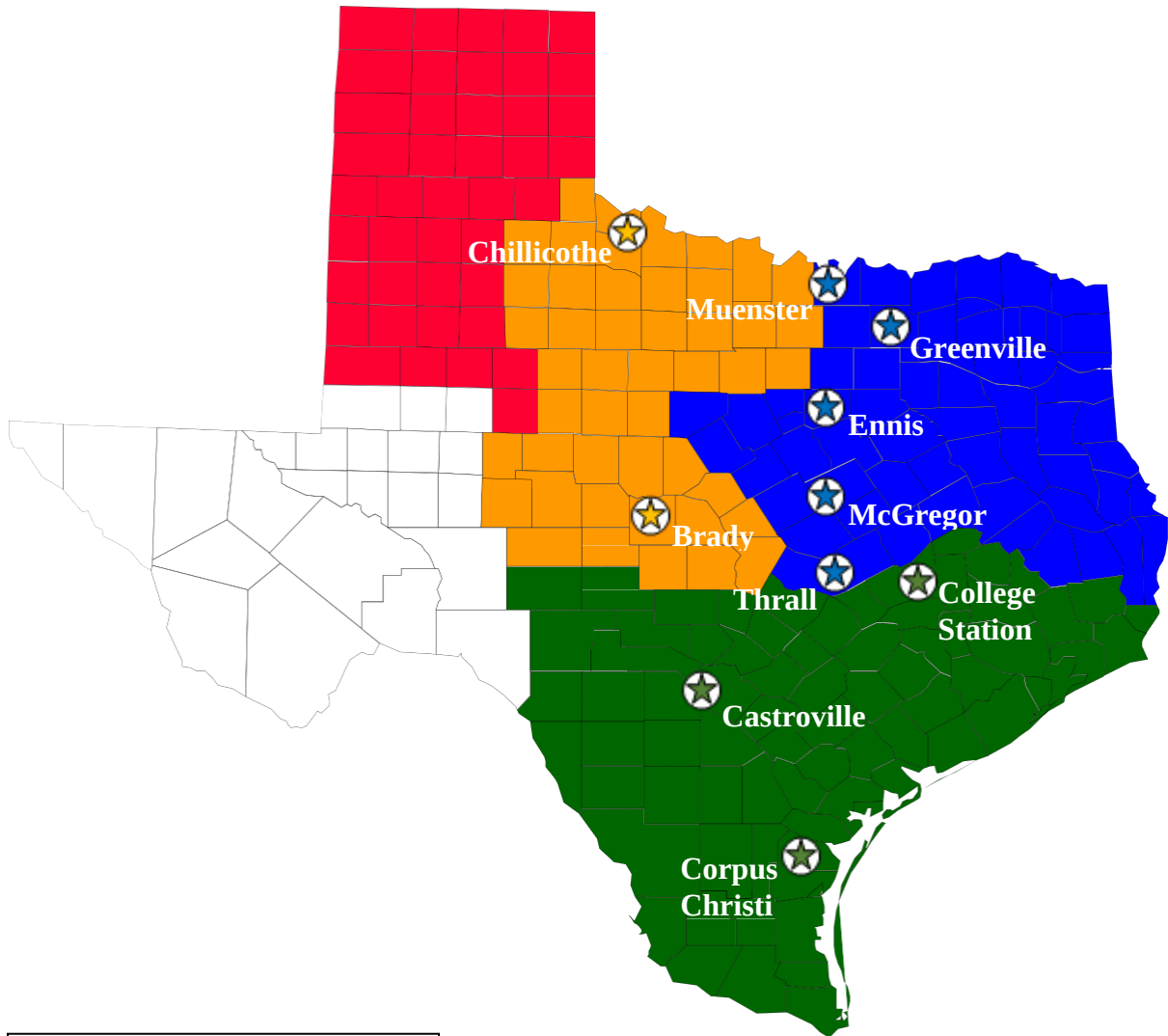
Texas A&M AgriLife Extension Service

Clark Neely, Daniel Hathcoat, Brandon Gerrish, and Josh
McGinty

Texas A&M AgriLife Research

Bryan Simoneaux, Amir Ibrahim, Jackie Rudd, Russell
Sutton, Jason Baker, Geraldine Opeña

Texas Small Grains Regional Map



Legend:

Texas High Plains



Texas Rolling Plains



Texas Blacklands



South Texas



Table of Contents

Introduction.....	1
2018 Texas Oat Overview by Region.....	3
2018 Oat Characteristics Table.....	4
2018 State-Wide Oat Agronomic Data.....	5
Uniform Oat Variety Yield Results	
2018 Texas Regional Multi-Year OVT Summary.....	6
2018 Blacklands & South Texas Regional OVT Summary.....	7
2018 Castroville OVT Summary.....	8
2018 Greenville OVT Summary.....	9
2018 McGregor OVT Summary.....	10
2018 Muenster OVT Summary.....	11
2018 Thrall OVT Summary.....	12
2018 Oat Distributor List.....	13
Acknowledgements.....	14

Introduction

Texas producers planted 470,000 acres in oats for the 2017-18 cropping season according to the National Agricultural Statistics Service (NASS), which is up by 15,000 acres from last year. However, in 2018 only 50,000 acres were harvested for grain, which is down 10,000 acres from 2017. Because the majority of oat acres in Texas are harvested for forage, this may be an important consideration for variety selection. Forage production of oat varieties is beyond the scope of this publication, but forage yield information can be found for many of the oat varieties included in this publication on our Statewide Cool-season Forage Variety Trial publication at <http://varietytesting.tamu.edu/wheat>.

The Uniform Oat Variety Trial (OVT) is coordinated and implemented by numerous Texas A&M AgriLife Extension and Research faculty and staff from Amarillo, Commerce, San Angelo and College Station. We also appreciate the cooperation from numerous County Extension Agents and producers that aid with locations and property to conduct these field trials. The purpose of this publication is to provide unbiased yield and disease data from field trials in major oat producing regions for oat producers across the state. With this information Texas oat producers can make a more educated decision about appropriate varieties for their geographic region.

Variety Selection:

Selection of varieties for any crop is one of the most important decisions a producer will make. This decision impacts potential yield (forage and grain), seed quality (test weight and protein), disease and insect management and maturity. It is important that producers diversify the varieties to be planted on their farms. Variety diversification spreads the risk associated with potentially devastating pests (crown rust, stem rust, barley yellow dwarf virus, greenbugs, etc.) and yield loss from adverse environmental factors (freeze, drought, etc.).

Producers would be advised to select no fewer than two or three varieties to plant on their farms and preferably more, depending on size and location of fields. Variety selection should be based upon a combination of sound data from university trials and other reliable sources. Oat varieties should be chosen based on multiple years of data (yield, pest resistance, grain quality and maturity). High yields over multiple years and multiple locations demonstrate a variety's ability to perform well over diverse environmental conditions. Stable yield performance is an excellent variety selection tool. It is important to consider decreasing yields over the past two or three years, which may reflect a change in disease and/or insect resistance.

When selecting a variety for the 2016-17 season, producers need to consider multiple year averages, recognizing the climatic variability that impacted yield and quality over the past several years. It is strongly encouraged that producers look at the 3-year averages where available, and to look at numerous relevant variety trial locations. There are typically ten or more oat variety trials conducted across the state each year, and most of these contain analyses from multiple years.

Interpreting the Data:

Grain yield and test weight at each location have been analyzed using appropriate statistical procedures. The statistical analysis provides the mean, CV, and LSD values. It is important to note these statistical values to prevent misinterpretation of any replicated data.

The mean is another term for the average. Therefore, a mean yield is the average of all the plots within a trial. Individual variety yields can be compared to the mean yield to determine how these varieties performed within the trial (i.e. were they above or below average?). This average can also be used as an indication of the environment for that location. A low mean yield can indicate poor growing conditions were experienced in that season; likewise, a high yield average can indicate favorable growing conditions.

The CV (Coefficient of Variation) value, expressed as a percentage, indicates the level of unexplained variability present within the trial. A high CV value indicates considerable variability existed within the trial not related to normal variations that might be expected between the varieties in the test. This variability may be the result from non-uniform stands, non-uniform insect or disease pressure, variability in harvesting, or other issues. Generally, CV values in excess of 15% should cause the reader using the data to understand that there were problems in the trial that will cause concerns about the validity of the data as a true representation of varietal performance.

The LSD (Least Significant Difference) value is a numeric range to help the reader determine if the varieties performed differently from one another within the trial. If the LSD value is 5 bu/ac in a trial in which Variety “A” yielded 36 bu/a and Variety “B” yielded 30 bu/a, then Variety “A” is said to be significantly better. In that same trial with an LSD value of 5 bu/ac at a 0.05 (5%) significance level, the statistical inference one could say is that Variety “A” would yield better than Variety “B” in 19 out of 20 trials conducted in which there was at least a 5 bushel difference in yield. In this hypothetical comparison, you might have a 20th trial with a 5 bu/ac difference that there is not truly a difference between Variety “A” and “B”, but random chance caused the 5 bushel difference.

2018 Texas Region Overview

Texas Rolling Plains:

Oat growing conditions were very poor with severe drought in the Rolling Plains. The drought was most severe in the western half of the region. Rains started to pick up in February in the eastern portions. As a result, many acres failed to make a stand or droughted out and grazing was very limited for the region throughout the season. The Vernon area received 2.2 inch of precipitation during October to April, which was 10 inch less than long-term average precipitation during the same periods. Planting condition was poor in October with lack of moisture, and early freeze in the last week of October further decreased yield potential. Furthermore, late freeze in the first week of April damaged seed head in the many regions in the Rolling Plains. There were little rust issues due to the dry conditions. Quality of saved seeds may be below average; therefore, producers are encouraged to test their seeds for quality.

Texas Blacklands:

The 2017 fall growing conditions were favorable for stand establishment, but not for grazing. Adequate moisture in October helped establish acceptable stands in most fields, but dry conditions in late November and December in some of the later planted fields delayed emergence resulting in less than desirable stands and limited forage growth in earlier planted fields. Some areas were quite dry and had limited forage growth during the winter months as well. February set monthly rainfall records in the Dallas/Fort Worth area which helped jump start spring growth after a long dry winter. Temperatures were at or below normal during the winter months into the spring. This burned back foliage in some oat fields, but helped with grain fill and led to some exceptional yields in many locations throughout the Blacklands Region. Crown rust was present in the southern Blacklands but was extremely low in the northern Blacklands and even the highly susceptible varieties did not sustain any damage from these diseases, except in the most southern portions of the region. Stem rust was not observed at any research plots during the season. Powdery mildew was present in some locations on susceptible varieties.

South Texas:

Most of South Texas was abnormally dry for most of the season, with portions of Southwest Texas that were severely dry as well. Overall, rust was lighter than normal, but crown rust was still a problem in some oat fields grown with susceptible varieties. Temperatures heated up quickly in April and may have sped up grain fill prematurely in some fields. Powdery mildew was present in some locations on susceptible varieties during a prolonged cloudy period from February into March.

2018 Oat Variety Characteristics¹

Variety	Developer	First Year Sold	Maturity	Crown Rust	Stem Rust	Height (inches)	Straw Strength	Winter Tolerance
Bob	UA	1977	Medium	S	MS	32	fair	fair
Dallas*	TAMU	1997	Medium	S	S	48	fair	good
Horizon 201	UF	2009	Med. Early	MR	MS	47	fair	fair
Horizon 270	UF	2006	Med. Early	MR	S	40	fair	good
Horizon 306	LSU	2013	Medium	MS	MR	38	good	fair
NF-402	Noble Research Inst.	2014	Med. Early	S	MS	39	poor	good
Ozark*	UA	1996	Medium	S	MS	38	poor	good
OKAY	OK	1978	Med. Late	S	MR	36	fair	good
LA9339	LSU	2002	Medium	MR	MR	44	fair	fair
RAM 99016	LSU	2010	Medium	MS	MR	45	poor	fair
TAMO 406	TAMU	2009	Medium	MS	MS	43	fair	fair
TAMO 411	TAMU	2012	Med. Early	MS	MS	36	good	good
TAMO 412	TAMU	--	Medium	MR	MR	37	good	good
TAMO 606	TAMU	2006	Med. Late	MR	MS	36	fair	good

¹S - Susceptible, MS - Moderately Susceptible, MR - Moderately Resistant, and R - Resistant

All ratings are subject to change as re-evaluation occurs.

*Estimation of "First Year Sold" based on previous data found through the Noble Research Institute.

Texas Oat Variety Trials: 2018 Agronomic Data

Location	Cooperator(s)	Planting / Harvest Dates	Fertilizer (Total lb N/A)	Pesticide Applied (Date)	Yield Limiting Issues
Brady	Holubec Farms; David Holubec	11/21/17	NA	None	Late Planting; Hail Damage ABANDONED
Castroville	Rollin Mangold	11/13/17	70	None	None
Chillicothe	Texas A&M AgriLife Research Farm	11/9/17	27	None	Drought ABANDONED
College Station	Texas A&M AgriLife Research and Extension Farm	11/7/17	70	Herbicides Amber 0.5 oz + Ally 0.1 oz (1/30/18)	Bird and hog damage ABANDONED
Corpus Christi	Texas A&M AgriLife Research and Extension Farm	1/8/18	91	None	Drought; Bird damage ABANDONED
Ennis	Bob Beakley	10/25/17	55	Herbicides Amber 0.5 oz + Ally 0.1 oz (12/5/17)	Bird damage ABANDONED
Greenville	Texas A&M University-Commerce Research Farm	10/27/17	55	Herbicides Amber 0.5 oz + Ally 0.1 oz (12/5/17)	None
McGregor	Texas A&M AgriLife Research Center	11/14/17	120	Herbicides Amber 0.5 oz + Ally 0.1 oz (1/10/18)	None
Muenster	Clinton Bayer	10/24/17	55	Herbicides Amber 0.5 oz + Ally 0.1 oz (12/5/17)	None
Thrall	Stiles Foundation Farm	10/30/17	50	None	None

2018 Uniform Oat Variety Trial: Texas Regional Multi-Year Averages

Blacklands (8 Site-Years)			Rolling Plains (12 Site-Years)			South Texas (7 Site-Years)		
Rank	Variety	Average Yield	Rank	Variety	Average Yield	Rank	Variety	Average Yield
		-- bu/a --			-- bu/a --			-- bu/a --
1	TX07CS1948*	84.1	1	Horizon 270	57.6	1	RAM 99016	81.9
2	TAMO 412	82.7	2	TX09CS1029*	56.5	2	TAMO 411	76.9
3	TAMO 411	81.1	3	TAMO 411	55.2	3	Horizon 201	73.2
4	RAM 99016	81.0	4	TX07CS1948*	53.9	4	TAMO 406	71.7
5	Horizon 201	80.4	5	Plot Spike (LA 9339)	53.6	5	TAMO 606	65.6
6	TX09CS031*	77.3	6	Ozark	52.7	6	Bob	64.8
7	TAMO 606	73.1	7	Horizon 201	50.9	7	Dallas	62.0
8	Dallas	70.3	8	Dallas	49.7			
9	Bob	67.5	9	RAM 99016	49.3			
10	Okay	61.9	10	TAMO 406	49.3			
11	TAMO 406	59.5	11	TAMO 606	49.3			
			12	Bob	42.7			
LSD (5%)		5.2	LSD (5%)		4.5	LSD (5%)		8.0
CV (%)		12.2	CV (%)		18.6	CV (%)		18.0
Mean		74.5	Mean		51.7	Mean		70.9

Blacklands: Greenville, McGregor, Muenster, and Thrall from 2015, 2016, and 2018.

Rolling Plains: Abilene, Brady, and Chillicothe from 2011, 2012, 2013, 2014, 2015, and 2016.

South Texas HRWW: Castroville, Uvalde, and Wharton from 2011, 2012, 2014, 2016, and 2018.

 TEXAS A&M
 AGRILIFE
 RESEARCH | EXTENSION

2018 Uniform Oat Variety Trial: Blacklands & South Texas Regional Summary

Rank [†]	Variety	Source	Yield (bu/a)						Test Wt (lb/bu)
			AVG	Castroville	Greenville	McGregor	Muenster	Thrall	2018
1	TX07CS1948*	TAMU	104.4	113.7	96.9	140.0	123.0	48.1	33.0
2	TX14OCS5212*	TAMU	103.3	92.2	86.8	140.1	135.8	61.7	31.3
3	TX14OCS5061*	TAMU	99.6	114.7	107.7	137.1	92.5	46.2	29.3
4	TAMO 412	TAMU	97.2	92.8	91.1	147.4	113.8	40.7	31.9
5	TX09CS031*	TAMU	97.1	92.9	120.3	125.1	107.0	40.3	31.2
6	TX14OCS5098*	TAMU	94.7	89.7	124.1	126.0	75.8	57.6	30.8
7	Horizon 201	UFL	93.9	73.4	90.3	126.9	119.1	59.8	30.1
8	TAMO 411	TAMU	92.0	59.2	108.4	124.0	118.7	49.9	30.6
9	Coker 227	Producer's Coop	91.5	58.5	99.6	122.4	120.9	56.3	30.0
10	RAM 99016	LSU	90.1	78.7	110.4	131.7	85.0	44.8	31.6
11	TAMO 405	TAMU	88.2	59.9	93.7	133.9	103.9	49.7	31.5
12	TX14OCS5154*	TAMU	87.5	110.4	109.4	123.4	42.1	52.3	30.2
13	TAMO 606	TAMU	86.0	48.7	103.0	120.3	115.2	42.8	31.6
14	OKAY	Noble Research Inst.	84.7	30.0	107.9	127.4	98.6	59.7	28.0
15	LA09045SBS-U4*	UFL	82.8	111.6	87.6	126.9	41.9	46.0	30.5
16	Bob	Producer's Coop	82.2	61.2	96.6	111.2	91.9	49.8	33.3
17	LA09030SBS-U3*	UFL	79.8	116.5	89.7	137.5	4.6	50.5	31.6
18	LA09015SBS-U1*	UFL	79.7	126.0	78.4	134.3	0.0	59.6	30.2
19	Dallas	TAMU	78.8	37.8	85.9	127.6	97.5	45.1	29.0
20	TX14OCS5131*	TAMU	77.6	81.7	95.4	132.2	21.1	57.4	30.5
21	LA09044SBS-U1*	UFL	76.9	114.7	85.9	125.4	2.6	55.7	32.4
22	Big Mac	McGregor M&G	76.5	45.4	90.1	106.7	103.8	36.7	30.9
23	TX14OCS5171*	TAMU	75.9	87.9	97.8	121.2	8.8	63.7	29.5
24	FL720	UFL	73.8	91.6	94.7	124.7	0.0	58.1	30.3
25	FL0914-U2*	UFL	71.4	108.9	84.1	105.8	0.0	57.9	31.8
26	TAMO 406	TAMU	70.5	56.6	98.2	115.8	36.2	45.7	29.2
27	LA09103SBS-U5*	UFL	61.1	115.7	63.5	71.8	0.0	54.3	30.3
28	LA09015SBS-U4*	UFL	48.3	101.9	53.3	35.3	0.0	51.1	30.6
29	Troy	Watley Seed	21.8	21.2	23.5	14.5	0.0	49.9	27.2
30	Monida	UI/ARS	11.9	12.0	4.1	1.5	0.0	41.8	—
LSD			6.8	13.8	16.2	15.9	23.0	8.7	2.5
CV			12.0	10.5	11.1	8.5	17.3	10.4	6.3
Mean			79.3	80.2	89.3	113.9	80.9	51.1	30.6

*Experimental breeding line.

[†]Varieties ranked according to 5-location yield average.

 TEXAS A&M
 AGRILIFE
 RESEARCH | EXTENSION

2018 Uniform Oat Variety Trial: Castroville, TX

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt	Relative [¶]	Crown [§]		Height
			4-year [‡]	3-year	2-year	2018	(lb/bu)	Heading	Rust	Lodging [§]	
									(0-9 sc.)	(0-9 sc.)	(in)
1	RAM 99016	LSU	81.0	71.5	83.7	78.7	31.2	M	7.0	1.5	36.0
2	TAMO 411	TAMU	78.0	65.5	71.5	59.2	23.3	ME	8.0	1.5	32.0
3	Horizon 201	UFL	72.8	62.9	73.3	73.4	25.5	M	7.0	5.5	36.0
4	TAMO 406	TAMU	69.8	60.8	66.7	56.6	26.2	ME	8.5	3.0	36.0
5	TAMO 606	TAMU	69.8	56.3	58.2	48.7	26.6	M	7.0	4.0	33.0
6	Bob	Producer's Coop	65.0	60.7	67.9	61.2	28.2	M	8.5	2.0	32.0
7	Dallas	TAMU	57.5	49.6	52.3	37.8	25.4	M	8.0	3.5	36.0
8	TX07CS1948*	TAMU			108.6	113.7	32.1	M	4.0	2.5	34.0
9	OKAY	Noble Research Inst.			32.9	30.0	20.7	M	8.5	7.0	34.0
10	LA09015SBS-U1*	UFL				126.0	31.6	M	2.0	1.5	34.0
11	LA09030SBS-U3*	UFL				116.5	30.6	M	2.0	1.5	35.0
12	LA09103SBS-U5*	UFL				115.7	31.4	M	0.5	4.5	36.0
13	LA09044SBS-U1*	UFL				114.7	29.3	M	1.0	2.5	37.0
14	TX14OCS5061*	TAMU				114.7	28.9	ML	2.5	5.5	35.0
15	LA09045SBS-U4*	UFL				111.6	30.2	M	2.5	1.0	35.0
16	TX14OCS5154*	TAMU				110.4	29.3	ME	4.5	1.5	36.0
17	FL0914-U2	UFL				108.9	28.6	M	1.5	3.0	38.0
18	LA09015SBS-U4*	UFL				101.9	30.7	M	1.0	2.0	35.0
19	TX09CS031*	TAMU				92.9	29.8	M	6.0	1.5	33.0
20	TAMO 412	TAMU				92.8	32.4	ML	3.0	3.5	36.0
21	TX14OCS5212*	TAMU				92.2	28.3	ME	3.5	4.5	37.0
22	FL720	UFL				91.6	29.8	ML	1.0	2.5	39.0
23	TX14OCS5098*	TAMU				89.7	29.9	ML	3.0	6.0	35.0
24	TX14OCS5171*	TAMU				87.9	28.3	M	7.0	1.5	35.0
25	TX14OCS5131*	TAMU				81.7	28.8	ML	5.5	3.0	36.0
26	TAMO 405	TAMU				59.9	27.6	M	8.0	1.5	35.0
27	Coker 227	Producer's Coop				58.5	26.9	M	7.0	3.0	36.0
28	Big Mac	McGregor M&G				45.4	26.4	M	8.0	3.5	36.0
29	Troy	Watley Seed				21.2	23.4	ML	8.0	2.5	43.0
30	Monida	UI/ARS				12.0	--	L	8.0	1.5	32.0
LSD			8.9	9.6	12.1	13.8	--	--	5.0	2.9	--
CV			15.3	16.4	15.1	10.5	--	--	15.9	35.7	--
Mean			70.5	61.0	68.4	80.2	28.3	--	1.7	2.1	35.4

*Experimental breeding line.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2011, 2012, 2014, and 2018 data.

[§]Scale of 0-9 used for rust and lodging ratings; 0=best and 9=worst.

[¶]E=early; M=Medium; L=Late

 TEXAS A&M
 AGRILIFE
 RESEARCH | EXTENSION

2018 Uniform Oat Variety Trial: Greenville, TX

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-year [‡]	3-year	2-year	2018	2018
1	RAM 99016	LSU	94.4	88.6	69.0	110.4	37.9
2	TAMO 411	TAMU	89.3	83.9	68.9	108.4	38.1
3	Horizon 201	UFL	87.5	82.2	61.7	90.3	36.5
4	TX07CS1948*	TAMU	86.8	82.6	66.2	96.9	38.5
5	TAMO 606	TAMU	86.2	83.7	66.0	103.0	38.4
6	TAMO 406	TAMU	84.1	77.3	62.5	98.2	37.2
7	Dallas	TAMU	83.1	77.7	57.2	85.9	35.6
8	Bob	Producer's Coop	81.2	76.8	65.8	96.6	41.5
9	OKAY	Noble Research Inst.		86.5	73.3	107.9	34.4
10	TX09CS031*	TAMU			72.1	120.3	37.9
11	TAMO 412	TAMU			60.7	91.1	37.0
12	TX14OCS5098*	TAMU				124.1	37.4
13	TX14OCS5154*	TAMU				109.4	36.4
14	TX14OCS5061*	TAMU				107.7	35.4
15	Coker 227	Producer's Coop				99.6	36.8
16	TX14OCS5171*	TAMU				97.8	34.6
17	TX14OCS5131*	TAMU				95.4	35.1
18	FL720	UFL				94.7	35.8
19	TAMO 405	TAMU				93.7	38.4
20	Big Mac	McGregor M&G				90.1	39.0
21	LA09030SBS-U3*	UFL				89.7	36.9
22	LA09045SBS-U4*	UFL				87.6	36.4
23	TX14OCS5212*	TAMU				86.8	37.4
24	LA09044SBS-U1*	UFL				85.9	37.8
25	FL0914-U2	UFL				84.1	35.8
26	LA09015SBS-U1*	UFL				78.4	34.4
27	LA09103SBS-U5*	UFL				63.5	34.9
28	LA09015SBS-U4*	UFL				53.3	34.2
29	Troy	Watley Seed				23.5	31.7
30	Monida	UI/ARS				4.1	27.4
LSD			7.7	8.0	9.2	16.2	--
CV			10.8	10.3	12.0	11.1	--
Mean			86.6	82.1	65.8	89.3	36.3

*Experimental breeding line.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2013, 2014, 2015, and 2018 data.

 TEXAS A&M
 AGRILIFE
 RESEARCH | EXTENSION

2018 Uniform Oat Variety Trial: McGregor, TX

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)	Heading Date	Freeze [§] Damage	Height
			4-year [‡]	3-year	2-year	2018	2018	(Julian)	(0-9 sc.)	(in)
1	RAM 99016	LSU	92.0	104.0	119.8	131.7	34.3	104.0	0.5	39.0
2	TX07CS1948*	TAMU	88.3	102.7	113.5	140.0	35.0	104.0	0.5	34.0
3	Horizon 201	UFL	84.7	95.6	117.5	126.9	32.4	104.0	0.0	40.0
4	TAMO 411	TAMU	80.0	89.8	110.8	124.0	34.3	103.0	0.0	36.0
5	Dallas	TAMU	78.1	84.3	103.2	127.6	31.7	104.0	0.0	39.0
6	TAMO 606	TAMU	75.6	80.2	101.2	120.3	35.0	103.0	0.5	37.0
7	Bob	Producer's Coop	68.6	74.5	91.6	111.2	36.9	106.0	0.5	36.0
8	TAMO 406	TAMU	67.7	72.8	94.1	115.8	31.3	105.0	1.5	36.0
9	OKAY	Noble Research Inst.	61.4	62.1	84.4	127.4	30.5	103.0	0.0	38.0
10	TAMO 412	TAMU		105.5	126.8	147.4	34.3	106.0	1.0	37.0
11	TX09CS031*	TAMU		86.1	102.6	125.1	33.8	104.0	0.5	35.0
12	TX14OCS5212*	TAMU				140.1	33.0	97.0	0.0	39.0
13	LA09030SBS-U3*	UFL				137.5	32.3	103.0	3.0	38.0
14	TX14OCS5061*	TAMU				137.1	30.2	108.0	1.5	38.0
15	LA09015SBS-U1*	UFL				134.3	29.6	105.0	4.0	40.0
16	TAMO 405	TAMU				133.9	33.1	101.0	0.5	33.0
17	TX14OCS5131*	TAMU				132.2	30.9	105.0	1.5	38.0
18	LA09045SBS-U4*	UFL				126.9	31.6	102.0	1.5	39.0
19	TX14OCS5098*	TAMU				126.0	31.4	104.0	0.5	41.0
20	LA09044SBS-U1*	UFL				125.4	34.3	106.0	6.0	40.0
21	FL720	UFL				124.7	30.3	108.0	3.0	44.0
22	TX14OCS5154*	TAMU				123.4	31.7	98.0	0.5	37.0
23	Coker 227	Producer's Coop				122.4	31.4	104.0	0.0	37.0
24	TX14OCS5171*	TAMU				121.2	30.0	105.0	4.0	35.0
25	Big Mac	McGregor M&G				106.7	34.0	103.0	0.0	37.0
26	FL0914-U2	UFL				105.8	32.3	106.0	6.5	38.0
27	LA09103SBS-U5*	UFL				71.8	30.0	106.0	8.0	39.0
28	LA09015SBS-U4*	UFL				35.3	30.5	-	9.0	-
29	Troy	Watley Seed				14.5	26.8	-	9.0	-
30	Monida	UI/ARS				1.5	--	-	9.0	-
LSD			7.6	9.6	11.0	15.9	--	--	2.4	--
CV			12.1	11.7	8.9	8.5	--	--	32.9	--
Mean			77.4	87.1	106.0	113.9	32.2	104.0	1.6	37.8

*Experimental breeding line.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2014, 2015, 2016, and 2018 data.

[§]Scale of 0-9 used for freeze damage ratings; 0=best and 9=worst.

 TEXAS A&M
 AGRILIFE
 RESEARCH | EXTENSION

2018 Uniform Oat Variety Trial: Muenster, TX

Rank [†]	Variety	Source	Yield	Test Wt
			(bu/a)	(lb/bu)
			2018	2018
1	TX14OCS5212*	TAMU	135.8	31.2
2	TX07CS1948*	TAMU	123.0	32.2
3	Coker 227	Producer's Coop	120.9	29.5
4	Horizon 201	UFL	119.1	31.4
5	TAMO 411	TAMU	118.7	33.4
6	TAMO 606	TAMU	115.2	33.7
7	TAMO 412	TAMU	113.8	32.9
8	TX09CS031*	TAMU	107.0	29.9
9	TAMO 405	TAMU	103.9	30.0
10	Big Mac	McGregor M&G	103.8	32.3
11	OKAY	Noble Research Inst.	98.6	29.5
12	Dallas	TAMU	97.5	30.2
13	TX14OCS5061*	TAMU	92.5	27.1
14	Bob	Producer's Coop	91.9	32.1
15	RAM 99016	LSU	85.0	30.7
16	TX14OCS5098*	TAMU	75.8	29.4
17	TX14OCS5154*	TAMU	42.1	28.2
18	LA09045SBS-U4*	UFL	41.9	28.1
19	TAMO 406	TAMU	36.2	29.1
20	TX14OCS5131*	TAMU	21.1	--
21	TX14OCS5171*	TAMU	8.8	27.6
22	LA09030SBS-U3*	UFL	4.6	--
23	LA09044SBS-U1*	UFL	2.6	32.1
24	FL0914-U2	UFL	0.0	--
25	FL720	UFL	0.0	--
26	LA09015SBS-U1*	UFL	0.0	--
27	LA09015SBS-U4*	UFL	0.0	--
28	LA09103SBS-U5*	UFL	0.0	--
29	Monida	UI/ARS	0.0	--
30	Troy	Watley Seed	0.0	--
LSD			23.0[§]	--
CV			17.3	--
Mean			80.9	30.5

*Experimental breeding line.

[§]Due to winterkill, LSD and CV only apply to varieties with yields above 0 bu/a.

2018 Uniform Oat Variety Trial: Thrall, TX

Rank [†]	Variety	Source	Yield (bu/a)		Test Wt (lb/bu)
			2-year [‡]	2018	2018
1	TAMO 411	TAMU	61.4	49.9	23.8
2	Horizon 201	UFL	57.1	59.8	24.7
3	RAM 99016	LSU	56.5	44.8	24.0
4	TAMO 412	TAMU	55.0	40.7	22.8
5	TX07CS1948*	TAMU	54.7	48.1	27.4
6	TX09CS031*	TAMU	54.6	40.3	24.5
7	Dallas	TAMU	48.7	45.1	22.0
8	TAMO 606	TAMU	48.6	42.8	24.4
9	TAMO 406	TAMU	48.2	45.7	22.0
10	Bob	Producer's Coop	46.4	49.8	27.6
11	OKAY	Noble Research Inst.	31.8	59.7	24.8
12	TX14OCS5171*	TAMU		63.7	26.8
13	TX14OCS5212*	TAMU		61.7	26.6
14	LA09015SBS-U1*	UFL		59.6	25.2
15	FL720	UFL		58.1	25.2
16	FL0914-U2	UFL		57.9	30.5
17	TX14OCS5098*	TAMU		57.6	25.9
18	TX14OCS5131*	TAMU		57.4	27.1
19	Coker 227	Producer's Coop		56.3	25.4
20	LA09044SBS-U1*	UFL		55.7	28.5
21	LA09103SBS-U5*	UFL		54.3	24.8
22	TX14OCS5154*	TAMU		52.3	25.2
23	LA09015SBS-U4*	UFL		51.1	27.1
24	LA09030SBS-U3*	UFL		50.5	26.5
25	Troy	Watley Seed		49.9	26.8
26	TAMO 405	TAMU		49.7	28.3
27	TX14OCS5061*	TAMU		46.2	24.8
28	LA09045SBS-U4*	UFL		46.0	26.4
29	Monida	UI/ARS		41.8	18.6
30	Big Mac	McGregor M&G		36.7	22.8
LSD			8.0	8.7	--
CV			13.5	10.4	--
Mean			51.2	51.1	25.4

*Experimental breeding line.

[†]Varieties ranked according to 2-year, then 2018 yield averages.

[‡]2-year average based on 2016 and 2018 data.

2017-18 Oat Variety Distributor List

Variety	Developer	Seed Type ^T	Distributor	Address	Phone Number
Bob	UA	C	East Texas Seed	1030-D East Commerce St. Tyler, TX 75702	(903) 597-6637
		C	Hancock Farm & Seed Company	18724 Hancock Farm Rd. Dade City, FL 33523	(325) 567-6971
Dallas	TAMU	C	J.H. Bayer & Sons Inc	3307 FM 2739 Muenster, TX 76252	(940) 736-3039
Heavy Grazer 76-30	--	C	East Texas Seed Co.	1030-D East Commerce St. Tyler, TX 75702	(903) 597-6637
Horizon 201**	UF	C	Stratton Seed Co.	1530 Hwy. 79 South Stuttgart, AR 72160	(870) 673-4433
		C	Plantation Seed Conditioners	1113 Pretoria Rd. Newton, GA 39870-0398	(229) 734-5466
Horizon 270**	UF	C	Stratton Seed Co.	1530 Hwy. 79 South Stuttgart, AR 72160	(870) 673-4433
		C	Plantation Seed Conditioners	1113 Pretoria Rd. Newton, GA 39870-0398	(229) 734-5466
Horizon 306**	LSU	C	Stratton Seed Co.	1530 Hwy. 79 South Stuttgart, AR 72160	(870) 673-4433
		C	Plantation Seed Conditioners	1113 Pretoria Rd. Newton, GA 39870-0398	(229) 734-5466
NF-402**	Noble Research Inst.	C	East Texas Seed	1030-D East Commerce St. Tyler, TX 75702	(903) 597-6637
OKAY	OK	F,R	Oklahoma Foundation Seed Stocks	102 Small Grains Bldg. Stillwater, OK 74078-0507	(405) 624-7041
Nora	--	C	Abilene Ag Service & Supply	303 South 14 th St., Abilene, TX	(325) 677-4371
RAM LA9339**	LSU	C	Ragan & Massey Inc	101 Ponchatoula Pkwy. Ponchatoula, LA 70454	(800) 264-5281
RAM 99016**	LSU	C	Ragan & Massey Inc	101 Ponchatoula Pkwy. Ponchatoula, LA 70454	(800) 264-5281
TAMO 406**	TAMU	C	Douglass King Co.	4627 Emil St. San Antonio, TX 78219	(210) 661-4191
TAMO 411**	TAMU	C	Justin Seed Co.	524 South Hwy. 156 Justin, TX 76247	(940) 648-2751
		C	Turner Seed Co.	211 County Road 151 Breckenridge, TX 76424	(800) 722-8616
		C	Pogue Agri-Partners	287 Hwy 72 West Kenedy, TX 78119	(830) 583-3456
TAMO 606**	TAMU	C	Turner Seed Co.	211 County Road 151 Breckenridge, TX 76424	(800) 722-8616
		C	Justin Seed Co.	524 South Hwy. 156 Justin, TX 76247	(940) 648-2751

^TC = Certified seed, R = Registered seed, F = Foundation seed

** This variety is protected by Title V of the Federal Seed Act. Unauthorized Propagation Prohibited

Protected Variety - To Be Sold By Variety Name Only as a Class of Certified Seed – U.S.

Acknowledgements

The authors of this publication would like to thank the following companies who provided the seed for this research.



Produced by the Department of Soil and Crop Sciences

soilcrop.tamu.edu

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 the Texas A&M AgriLife Extension Service is implied.

TEXAS A&M AgriLife Extension Service

AgriLifeExtension.tamu.edu

Texas A&M AgriLife Extension is an equal opportunity employer and program provider.

The Texas A&M University System, U.S. Department of Agriculture, and the County Commissioners Courts of Texas Cooperating