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2014 Texas Oat Variety ▶ Trial Results



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2014

Texas Oat Variety Trials

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Texas Small Grains Regional Map

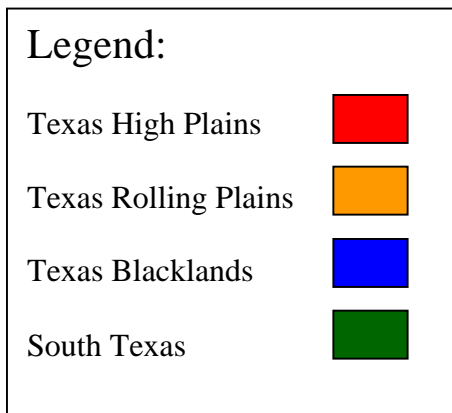
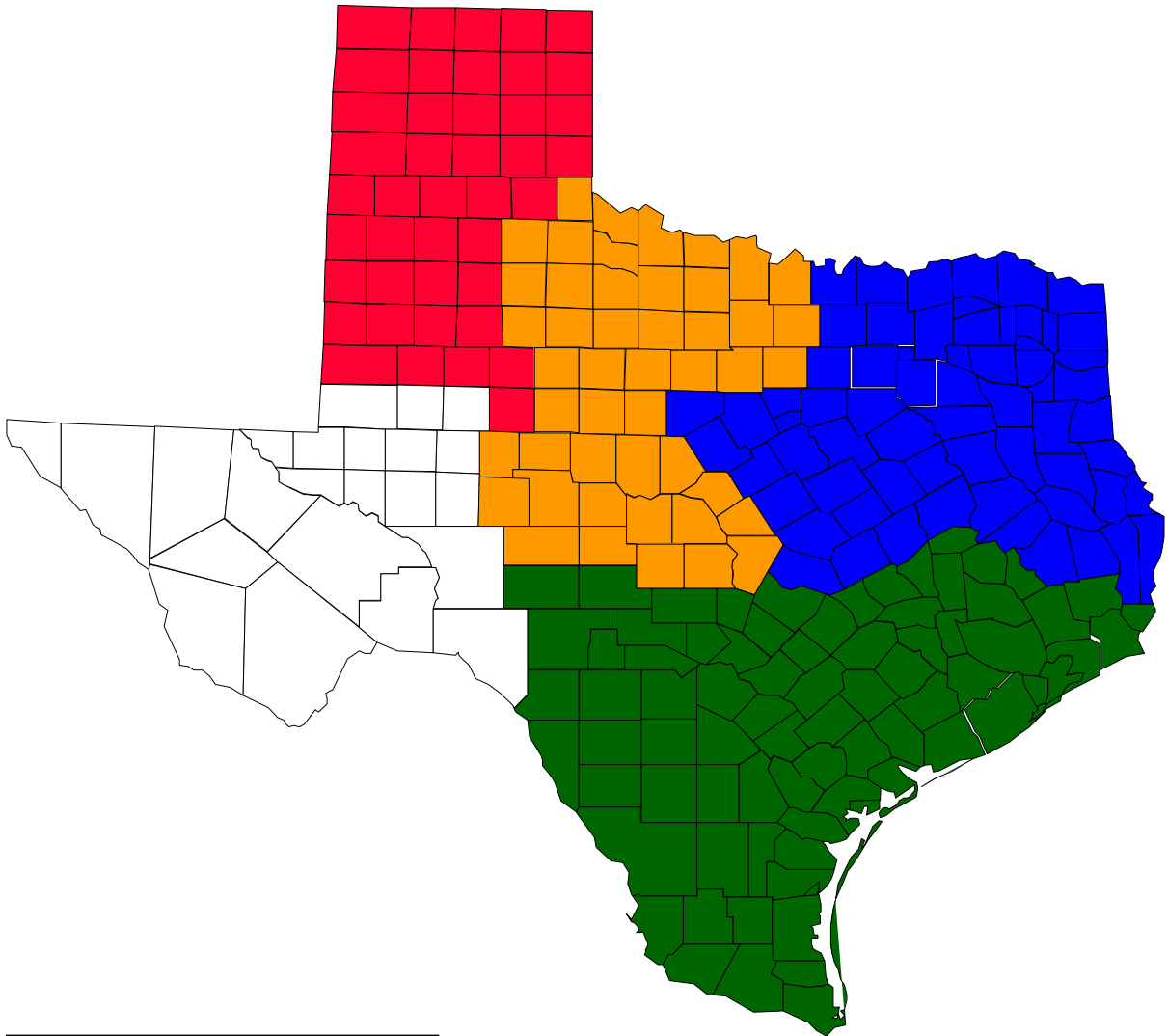


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Introduction

Texas producers planted 550,000 acres in oats for the 2013-2014 cropping season according to the National Agricultural Statistics Service (NASS). This figure is up by 50,000 acres planted last year. In 2014, only 55,000 acres were harvested for grain, producing an average of 49 bu/a compared to 75,000 harvested acres with an estimated 49 bu/a average in 2013, a 27% decrease in the number of acres harvested. 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 Commerce, Vernon, 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 decisions about appropriate varieties for their geographic region.

Variety Selection:

Selection of small grain varieties 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 2 or 3 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 a 2 or 3-year time frame, which may reflect a change in disease and/or insect resistance.

When selecting a variety for the 2014-15 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.

2014 Texas Region Overview

Texas Blacklands:

The Texas Blacklands had a good growing season for winter oats compared to much of the rest of the state. Rainfall throughout both September and October allowed for sufficient moisture for early season growth. Cooler weather and rainfall through December enabled the crop to maintain a good stand. However, colder temperatures throughout the late winter and early spring along with below normal precipitation did not promote much forage growth during this time. An abrupt cold snap in early March burnt back much of the foliage, but plants were able to recover. Late season rainfall events made harvesting fields challenging for many producers. Isolated pockets of Barley Yellow Dwarf Virus occurred, but overall, insects or diseases were not a substantial concern throughout this area during the 2013-2014 season.

Texas High Plains:

Producers in the Texas High Plains struggled this winter with a continuing severe drought. Rainfall events were few and far between, which did little to get a winter crop established. Most fields that were not under irrigation did not survive the winter due both to water availability and cold temperatures. Rainfall throughout this region ranged from 4-6 inches all season long. Temperatures started off normal for planting and were only slightly below normal for the winter and spring. Despite the minor variation in temperatures, many of the oat fields in the region were hit hard by freezing events due to the lack of moisture and snow cover. Most did not survive the winter. Insects and diseases were not a major problem in oat fields in this area throughout the season.

Texas Rolling Plains:

The Texas Rolling Plains producers experienced a decent year for oat production compared to the previous years. Early season rainfall in September and October allowed for good seedling emergence if fields were planted timely with rainfall; however, the elevated temperatures during this time did not allow the moisture to remain in the upper portion of the soil profile for an extended time. Not unlike many other areas of the state, both rainfall and temperatures were below normal during the late winter and spring seasons. Rainfall increased with temperatures later in April and early May. Like the rest of the state, insects and diseases were not a major problem this year.

South Texas:

In the southern part of the state, winter pasture planting was a challenge to accomplish between rainfall events in September; however, sufficient rainfall throughout the remainder of the fall allowed for good emergence and establishment. Below normal temperatures and rainfall during the winter limited forage growth, but these cooler temperatures and higher rainfall later in the growing season significantly increased spring growth. Producers in this region had issues harvesting forage due to the frequent and abundant amounts of rainfall throughout April and May. As with much of the state, insects and diseases were not a significant issue throughout the growing season

Texas Oat Variety Trials: 2014 Agronomic Data

Location	Cooperator(s)	Planting Date	Fertilizer (Total lb N/A)	Pesticide Applied (Date)	Yield Limiting Issues
Brady	Holubec Farms; David Holubec	10/29/13	47	Finesse + Weedmaster (2/13/14)	Multiple hard freeze events; Drought; DATA NOT SHOWN
Castroville	Rollin Mangold	11/11/13	108	None	Severe lodging
Chillicothe	Texas A&M AgriLife Research Farm	10/22/13	72	None	Drought, some winterkill
College Station	Texas A&M AgriLife Research and Extension Farm	11/19/13	34	Weedmaster (2/21/14)	Lodging and seed shattering DATA NOT SHOWN
Ellis County	Bob Beakley	10/24/13	75	None	Freeze March 2 nd
Farmersville	Kenneth Wright	11/19/13	120	Amber (12/19/13)	Freeze March 2 nd
Lamar County	Ricky Snell	11/15/13	100	None	Freeze March 2 nd DATA NOT SHOWN
McGregor	Texas A&M AgriLife Research Center	11/14/13	32	Weedmaster Dimethoate (2/14/14)	None
Uvalde	Texas A&M AgriLife Research and Extension Center	11/13/13	34	Weedmaster (2/19/14)	Severe lodging
Wharton	L.P.S. Farms Larry and Phillip Stelzel	11/19/13	124	None	Minor bird damage early; Lodging

2014 Uniform Oat Variety Trial - Blackland Regional Summary

2014 Regional Rank	Variety	Developer	Yield (bu/a)				Test Wt. (lb/bu)
			Average	Ellis Co.	Farmers- ville	McGregor	2014
1	Ozark	UA	114.3	143.3	135.0	64.7	35.0
2	Horizon 306	LSU	103.4	132.6	129.3	58.0	33.7
3	TX09CS1112*	TAMU	101.4	127.9	118.3	58.0	31.0
4	RAM 99016	LSU	100.6	126.5	127.7	56.2	33.3
5	Horizon 270	UF	99.7	114.5	137.4	52.1	32.0
6	Horizon 201	UF	99.4	134.4	123.2	52.3	30.7
7	TX07CS2257*	TAMU	98.5	99.9	130.1	65.4	33.0
8	TX10CAS579*	TAMU	98.3	107.6	125.3	62.1	27.3
9	Nora	UA	97.9	104.5	134.4	57.0	32.3
10	TX09CS1029*	TAMU	97.8	102.8	120.8	69.9	32.0
11	TX07CS2140*	TAMU	97.3	104.7	120.9	66.4	32.3
12	TAMO 606	TAMU	94.6	107.0	119.2	61.8	33.0
13	LA07048SBSB-28*	LSU	93.5	94.5	127.9	58.1	32.3
14	Dallas	TAMU	92.7	103.5	118.7	59.5	31.7
15	Harrison	LSU	91.9	108.2	124.5	48.6	33.0
16	OKAY	Noble Foundation	89.8	97.4	113.0	59.1	31.7
17	TX07CS1948*	TAMU	87.6	102.3	115.2	45.2	33.0
18	TAMO 411	TAMU	87.5	103.2	113.8	50.7	32.3
19	TX09CS058*	TAMU	87.2	98.7	107.6	55.1	31.3
20	NF-27	Noble Foundation	85.7	100.9	115.6	40.5	31.3
21	LA9339	LSU	85.7	95.5	102.3	62.5	32.0
22	TAMO 406	TAMU	83.3	94.5	106.8	52.2	31.7
23	Coronado	TAMU	83.1	108.0	93.2	48.1	31.3
24	Bob	UA	79.9	94.8	98.8	51.0	34.3
25	FL0720-R6*	UF	74.6	89.7	79.7	54.4	29.7
26	LA07007SBSB-68*	LSU	73.3	89.3	77.8	52.8	31.7
27	LA06046-N2-Ab2*	LSU	66.3	84.7	62.4	51.7	29.7
28	FL05067-L1*	UF	49.7	76.1	34.3	38.7	32.7
29	FL0720-R5*	UF	48.1	81.9	19.0	43.4	29.7
30	FL03254-L1*	UF	40.2	69.3	22.1	29.1	29.7
LSD (5%)			9.8	22.6	19.3	8.7	2.8
CV (%)			11.8	12.3	11.2	9.9	5.3
Mean			86.5	102.3	105.2	54.2	31.8

*Experimental Oat Line

2014 Uniform Oat Variety Trial - Ellis County (Dryland)

4-Year Rank	Variety	Developer	Yield (bu/a)				Test Wt. (lb/bu)
			4-Year [§]	3-Year ^{††}	2-Year [†]	2014	2014
1	Horizon 270	UF	121.5	134.6	124.3	114.5	35.0
2	TAMO 406	TAMU	114.5	121.8	109.3	94.5	35.0
3	TAMO 411	TAMU	112.4	118.8	98.2	103.2	34.0
4	Horizon 201	UF	111.3	118.9	91.5	134.4	34.0
5	RAM 99016	LSU	105.8	118.9	96.1	126.5	36.0
6	OKAY	Noble Foundation	104.4	111.6	137.7	97.4	36.0
7	Nora	UA	102.1	108.8	114.6	104.5	33.0
8	LA9339	LSU	101.8	111.0	100.0	95.5	34.0
9	TAMO 606	TAMU	101.1	105.9	100.2	107.0	35.0
10	Coronado	TAMU	96.6	106.3	94.0	108.0	35.0
11	Harrison	LSU	94.3	99.7	84.6	108.2	36.0
12	Bob	UA	93.9	104.9	109.0	94.8	35.0
13	Dallas	TAMU	83.0	86.1	104.1	103.5	35.0
14	NF-27	Noble Foundation	-	97.6	96.6	100.9	34.0
15	TX09CS1112*	TAMU	-	-	131.1	127.9	34.0
16	TX09CS1029*	TAMU	-	-	120.4	102.8	34.0
17	TX07CS1948*	TAMU	-	-	117.4	102.3	35.0
18	LA07007SBSB-68*	LSU	-	-	111.3	89.3	34.0
19	LA06046-N2-Ab2*	LSU	-	-	108.2	84.7	34.0
20	FL03254-L1*	UF	-	-	81.2	69.3	33.0
21	Ozark	UA	-	-	-	143.3	36.0
22	Horizon 306	LSU	-	-	-	132.6	36.0
23	TX10CAS579*	TAMU	-	-	-	107.6	29.0
24	TX07CS2140*	TAMU	-	-	-	104.7	34.0
25	TX07CS2257*	TAMU	-	-	-	99.9	34.0
26	TX09CS058*	TAMU	-	-	-	98.7	34.0
27	LA07048SBSB-28*	LSU	-	-	-	94.5	35.0
28	FL0720-R6*	UF	-	-	-	89.7	33.0
29	FL0720-R5*	UF	-	-	-	81.9	33.0
30	FL05067-L1*	UF	-	-	-	76.1	37.0
LSD (5%)			9.4	11.7	14.6	22.6	--
CV (%)			10.9	10.7	11.2	12.3	--
Mean			103.4	110.4	106.9	102.3	34.4

*Experimental Oat Line

[†]Yield average for 2014 and 2013

^{††}Yield average for 2014, 2013, and 2012

[§]Yield average for 2014, 2013, 2012, and 2011

2014 Uniform Oat Variety Trial - Farmersville (Dryland)

4-Year Rank	Variety	Developer	Yield (bu/a)				Test Wt. (lb/bu)
			4-Year [§]	3-Year ^{††}	2-Year [†]	2014	2014
1	Horizon 201	UF	119.0	105.1	118.4	123.2	30.0
2	Horizon 270	UF	115.4	109.5	115.3	137.4	32.0
3	RAM 99016	LSU	114.3	107.3	119.8	127.7	34.0
4	TAMO 606	TAMU	113.7	104.5	106.5	119.2	34.0
5	Harrison	LSU	112.4	102.1	113.5	124.5	34.0
6	TAMO 411	TAMU	112.2	103.7	109.8	113.8	34.0
7	TAMO 406	TAMU	107.5	99.6	105.6	106.8	32.0
8	Dallas	TAMU	106.5	102.7	109.0	118.7	31.0
9	LA9339	LSU	104.5	97.5	99.0	102.3	32.0
10	Ozark	UA	-	111.2	114.4	135.0	37.0
11	Nora	UA	-	106.9	108.3	134.4	33.0
12	Coronado	TAMU	-	89.8	98.4	93.2	29.0
13	Bob	UA	-	88.3	96.6	98.8	34.0
14	TX09CS1112*	TAMU	-	-	118.9	118.3	29.0
15	TX09CS1029*	TAMU	-	-	113.9	120.8	31.0
16	TX07CS1948*	TAMU	-	-	107.5	115.2	33.0
17	NF-27	Noble Foundation	-	-	100.8	115.6	34.0
18	LA07007SBSB-68*	LSU	-	-	92.5	77.8	30.0
19	LA06046-N2-Ab2*	LSU	-	-	81.3	62.4	26.0
20	FL03254-L1*	UF	-	-	58.4	22.1	26.0
21	TX07CS2257*	TAMU	-	-	-	130.1	34.0
22	Horizon 306	LSU	-	-	-	129.3	33.0
23	LA07048SBSB-28*	LSU	-	-	-	127.9	32.0
24	TX10CAS579*	TAMU	-	-	-	125.3	25.0
25	TX07CS2140*	TAMU	-	-	-	120.9	32.0
26	OKAY	Noble Foundation	-	-	-	113.0	31.0
27	TX09CS058*	TAMU	-	-	-	107.6	31.0
28	FL0720-R6*	UF	-	-	-	79.7	28.0
29	FL05067-L1*	UF	-	-	-	34.3	29.0
30	FL0720-R5*	UF	-	-	-	19.0	27.0
LSD (5%)			7.9	9.9	13.6	19.3	--
CV (%)			8.7	10.4	11.3	11.2	--
Mean			111.7	102.3	104.3	105.2	31.2

*Experimental Oat Line

†Yield average for 2014 and 2013

††Yield average for 2014, 2013, and 2012

§Yield average for 2014, 2013, 2012, and 2011

2014 Uniform Oat Variety Trial - McGregor (Dryland)

4-Year Rank	Variety	Developer	Yield (bu/a)				Test Wt. (lb/bu)
			4-Year [§]	3-Year ^{††}	2-Year [†]	2014	2014
1	Horizon 270	UF	117.4	102.7	67.2	52.1	29.0
2	RAM 99016	LSU	112.9	102.6	71.7	56.2	30.0
3	TAMO 411	TAMU	112.4	98.1	64.9	50.7	29.0
4	Horizon 201	UF	104.1	95.6	58.6	52.3	28.0
5	Harrison	LSU	103.3	94.6	57.8	48.6	29.0
6	TAMO 606	TAMU	98.1	92.6	64.8	61.8	30.0
7	Dallas	TAMU	94.3	80.5	43.1	59.5	29.0
8	TAMO 406	TAMU	86.9	76.8	56.4	52.2	28.0
9	LA9339	LSU	-	101.4	65.7	62.5	30.0
10	Ozark	UA	-	-	46.5	64.7	32.0
11	Coronado	TAMU	-	-	46.5	48.1	30.0
12	Nora	UA	-	-	44.8	57.0	31.0
13	Bob	UA	-	-	43.5	51.0	34.0
14	NF-27	Noble Foundation	-	-	38.8	40.5	26.0
15	TX09CS1029*	TAMU	-	-	-	69.9	31.0
16	TX07CS2140*	TAMU	-	-	-	66.4	31.0
17	TX07CS2257*	TAMU	-	-	-	65.4	31.0
18	TX10CAS579*	TAMU	-	-	-	62.1	28.0
19	OKAY	Noble Foundation	-	-	-	59.1	28.0
20	LA07048SBSB-28*	LSU	-	-	-	58.1	30.0
21	TX09CS1112*	TAMU	-	-	-	58.0	30.0
22	Horizon 306	LSU	-	-	-	58.0	32.0
23	TX09CS058*	TAMU	-	-	-	55.1	29.0
24	FL0720-R6*	UF	-	-	-	54.4	28.0
25	LA07007SBSB-68*	LSU	-	-	-	52.8	31.0
26	LA06046-N2-Ab2*	LSU	-	-	-	51.7	29.0
27	TX07CS1948*	TAMU	-	-	-	45.2	31.0
28	FL0720-R5*	UF	-	-	-	43.4	29.0
29	FL05067-L1*	UF	-	-	-	38.7	32.0
30	FL03254-L1*	UF	-	-	-	29.1	30.0
LSD (5%)			8.7	9.2	7.8	8.7	--
CV (%)			9.8	9.7	11.0	9.9	--
Mean			103.7	93.9	55.0	54.2	29.8

*Experimental Oat Line

†Yield average for 2014 and 2013

††Yield average for 2014, 2013, and 2012

§Yield average for 2014, 2013, 2012, and 2011

2014 Uniform Oat Variety Trial - Rolling Plains Regional Summary

2014 Regional Rank	Variety	Developer	Yield (bu/a)			Test Wt. (lb/bu)
			Average	Abilene	Chillicothe	2014
1	TX07CS1948*	TAMU	43.5	43.9	43.2	32.5
2	TX07CS2257*	TAMU	42.1	58.5	31.2	29.4
3	TAMO 411	TAMU	38.9	40.6	37.8	31.0
4	Harrison	LSU	37.9	47.3	31.7	31.9
5	Ozark	UA	37.6	42.0	34.7	32.0
6	Nora	UA	37.4	37.1	37.5	29.2
7	Horizon 306	LSU	36.0	49.3	27.1	31.2
8	Dallas	TAMU	34.2	45.2	26.9	29.0
9	TAMO 606	TAMU	33.9	33.9	33.8	31.1
10	Horizon 270	UF	33.2	32.9	33.4	29.2
11	Horizon 201	UF	32.5	37.9	29.0	28.8
12	RAM 99016	LSU	32.2	36.0	29.6	30.1
13	OKAY	Noble Foundation	31.3	46.2	21.4	28.3
14	TX10CAS579*	TAMU	29.2	41.3	21.2	26.7
15	Bob	UA	28.1	27.6	28.4	33.4
16	TAMO 406	TAMU	27.5	35.1	22.5	30.0
17	LA9339	LSU	26.8	32.3	23.2	29.6
18	LA07048SBSB-28*	LSU	26.7	37.5	19.4	28.7
19	TX09CS1112*	TAMU	26.6	30.3	24.2	29.6
20	NF-27	Noble Foundation	25.4	34.8	19.2	29.1
21	TX09CS058*	TAMU	25.1	35.8	18.0	29.5
22	TX07CS2140*	TAMU	24.1	32.8	18.3	32.2
23	TX09CS1029*	TAMU	23.4	30.7	18.5	30.1
24	Coronado	TAMU	23.1	34.9	15.2	29.8
25	FL0720-R6*	UF	19.2	24.7	8.1	27.7
26	LA07007SBSB-68*	LSU	16.5	20.3	9.0	31.3
27	LA06046-N2-Ab2*	LSU	15.0	21.0	9.0	29.0
28	FL05067-L1*	UF	--	18.6	--	28.8
29	FL0720-R5*	UF	--	13.2	--	26.5
30	FL03254-L1*	UF	--	12.3	--	24.3
LSD (5%)			6.8	13.1	7.7	2.3
CV (%)			17.3^a	18.6^a	16.6^a	3.5
Mean			30.4	34.4	25.9	29.8

*Experimental Oat Line

^aTrials with a coefficient of variation (CV) \geq 15% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal effect on yields.

2014 Uniform Oat Variety Trial - Abilene (Dryland)

4-Year Rank	Variety	Developer	Yield (bu/a)			Test Wt. (lb/bu)
			3-Year ^{††}	2-Year [†]	2014	2014
1	TX07CS2257*	TAMU	48.8	46.5	58.5	30.2
2	Horizon 270	UF	46.8	43.5	32.9	28.8
3	TX09CS1112*	TAMU	44.6	39.5	30.3	28.8
4	Ozark	UA	44.1	42.9	42.0	33.1
5	Horizon 201	UF	43.2	35.6	37.9	28.1
6	Harrison	LSU	42.6	40.6	47.3	32.0
7	RAM 99016	LSU	41.9	35.5	36.0	29.5
8	TAMO 411	TAMU	41.2	37.5	40.6	31.7
9	LA9339	LSU	40.5	32.8	32.3	29.3
10	TX09CS1029*	TAMU	40.3	36.4	30.7	29.3
11	Coronado	TAMU	39.9	34.2	34.9	28.2
12	TX07CS1948*	TAMU	39.6	35.6	43.9	33.7
13	Dallas	TAMU	39.5	35.4	45.2	29.3
14	Bob	UA	38.8	33.5	27.6	31.8
15	TX07CS2140*	TAMU	38.5	34.6	32.8	31.9
16	Nora	UA	38.0	34.2	37.1	28.8
17	TAMO 606	TAMU	36.5	31.8	33.9	31.4
18	TAMO 406	TAMU	33.8	28.9	35.1	29.2
19	NF-27	Noble Foundation	-	35.6	34.8	28.3
20	Horizon 306	LSU	-	-	49.3	31.6
21	OKAY	Noble Foundation	-	-	46.2	28.1
22	TX10CAS579*	TAMU	-	-	41.3	26.9
23	LA07048SBSB-28*	LSU	-	-	37.5	28.8
24	TX09CS058*	TAMU	-	-	35.8	29.5
25	FL0720-R6*	UF	-	-	24.7	27.7
26	LA06046-N2-Ab2*	LSU	-	-	21.0	28.8
27	LA07007SBSB-68*	LSU	-	-	20.3	31.3
28	FL05067-L1*	UF	-	-	18.6	28.8
29	FL0720-R5*	UF	-	-	13.2	26.5
30	FL03254-L1*	UF	-	-	12.3	24.3
LSD (5%)			7.4	8.4	13.1	--
CV (%)			18.2^a	18.0^a	18.6^a	--
Mean			41.0	36.6	34.4	29.5

*Experimental Oat Line

[†]Yield average for 2014 and 2013

^{††}Yield average for 2014, 2013, and 2012

^aTrials with a coefficient of variation (CV) ≥ 15% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal effect on yields.

2014 Uniform Oat Variety Trial - Chillicothe (Irrigated)

4-Year Rank	Variety	Developer	Yield (bu/a)				Test Wt. (lb/bu)
			4-Year [§]	3-Year ^{††}	2-Year [†]	2014	2014
1	TAMO 411	TAMU	48.5	62.5	49.3	37.8	30.2
2	TX07CS1948*	TAMU	48.1	62.0	55.4	43.2	31.3
3	TX09CS1029*	TAMU	46.6	59.4	43.4	18.5	30.8
4	TX09CS1112*	TAMU	46.2	59.6	45.7	24.2	30.3
5	TAMO 606	TAMU	44.8	57.7	45.9	33.8	30.7
6	Horizon 270	UF	44.8	56.3	43.0	33.4	29.5
7	Nora	UA	43.1	55.6	44.4	37.5	29.7
8	Ozark	UA	42.2	54.7	45.3	34.7	31.0
9	Harrison	LSU	42.1	53.5	45.2	31.7	31.9
10	LA9339	LSU	38.0	48.1	37.3	23.2	29.9
11	RAM 99016	LSU	37.5	48.7	38.5	29.6	30.7
12	Bob	UA	34.0	44.3	35.0	28.4	35.0
13	Dallas	TAMU	33.5	43.2	34.7	26.9	28.7
14	Coronado	TAMU	33.3	43.3	30.6	15.2	31.3
15	TAMO 406	TAMU	32.8	42.6	37.5	22.5	30.8
16	Horizon 201	UF	31.4	40.8	34.1	29.0	29.5
17	NF-27	Noble Foundation	-	34.6	23.4	19.2	30.0
18	LA07007SBSB-68*	LSU	-	-	49.8	9.0	--
19	LA06046-N2-Ab2*	LSU	-	-	38.8	9.0	29.2
20	TX07CS2257*	TAMU	-	-	-	31.2	28.6
21	Horizon 306	LSU	-	-	-	27.1	30.8
22	OKAY	Noble Foundation	-	-	-	21.4	28.6
23	TX10CAS579*	TAMU	-	-	-	21.2	26.4
24	LA07048SBSB-28*	LSU	-	-	-	19.4	28.5
25	TX07CS2140*	TAMU	-	-	-	18.3	32.5
26	TX09CS058*	TAMU	-	-	-	18.0	--
27	FL0720-R6*	UF	-	-	-	8.1	--
LSD (5%)			4.6	6.1	7.2	7.7	--
CV (%)			14.2	12.8	15.0	16.6^a	--
Mean			40.4	51.0	40.8	25.9	30.2

*Experimental Oat Line

[†]Yield average for 2014 and 2013

^{††}Yield average for 2014, 2013, and 2012

[§]Yield average for 2014, 2013, 2012, and 2011

^aTrials with a coefficient of variation (CV) ≥ 15% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal effect on yields.

2014 Uniform Oat Variety Trial - South Texas Regional Summary

2014 Regional Rank	Variety	Developer	Yield (bu/a)				Test Wt. (lb/bu)
			Average	Castroville	Uvalde	Wharton	2014
1	TX09CS1029*	TAMU	102.1	108.8	108.2	92.5	33.0
2	TX09CS1112*	TAMU	101.3	108.3	86.9	104.7	29.7
3	TX09CS058*	TAMU	96.1	96.5	94.7	98.5	32.0
4	LA07007SBSB-68*	LSU	95.3	99.5	126.3	72.2	34.0
5	TX07CS2140*	TAMU	90.6	82.2	107.3	89.7	30.7
6	TX07CS1948*	TAMU	90.0	103.6	68.1	92.0	32.0
7	TX07CS2257*	TAMU	88.9	86.5	119.9	73.0	33.3
8	LA9339	LSU	83.6	76.3	78.0	95.6	31.0
9	RAM 99016	LSU	83.3	88.8	65.8	90.5	34.0
10	TX10CAS579*	TAMU	81.6	79.8	80.7	84.9	29.3
11	Horizon 306	LSU	80.2	77.9	79.0	85.0	32.3
12	LA06046-N2-Ab2*	LSU	79.2	109.1	43.0	74.1	29.7
13	TAMO 411	TAMU	77.6	83.8	66.9	79.4	32.3
14	Horizon 270	UF	74.5	84.2	44.8	84.6	32.3
15	TAMO 406	TAMU	73.9	76.8	77.6	70.0	33.0
16	LA07048SBSB-28*	LSU	73.6	63.6	64.8	90.1	31.7
17	Horizon 201	UF	73.5	73.2	54.4	86.7	30.3
18	FL0720-R6*	UF	72.2	74.2	103.1	51.9	28.7
19	FL0720-R5*	UF	68.1	71.1	94.4	49.6	32.3
20	Bob	UA	67.2	74.6	90.6	45.5	32.0
21	Nora	UA	63.4	62.4	64.3	64.2	31.7
22	Dallas	TAMU	62.5	66.8	69.6	54.7	29.0
23	TAMO 606	TAMU	61.4	67.8	51.9	62.4	29.7
24	FL03254-L1*	UF	60.5	67.7	58.1	56.0	31.3
25	Coronado	TAMU	53.4	54.1	63.3	47.1	31.0
26	FL05067-L1*	UF	50.0	39.1	45.1	64.6	33.0
27	Harrison	LSU	48.2	54.6	36.4	49.8	27.0
28	Ozark	UA	47.0	36.0	78.3	38.7	31.0
29	OKAY	Noble Foundation	45.1	35.8	69.8	39.3	26.7
30	NF-27	Noble Foundation	45.0	35.9	46.9	53.2	28.0
LSD (5%)			12.7	21.6	31.7	18.6	3.7
CV (%)			17.7^a	17.7^a	20.8^a	15.9^a	7.2
Mean			73.0	74.6	74.6	71.4	31.1

*Experimental Oat Line

^aTrials with a coefficient of variation (CV) ≥ 15% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal effect on yields.

2014 Uniform Oat Variety Trial - Castroville (Irrigated)

4-Year Rank	Variety	Developer	Yield (bu/a)				Test Wt. (lb/bu)
			4-Year [§]	3-Year ^{††}	2-Year [†]	2014	2014
1	Horizon 270	UF	108	93.0	79.1	84.2	32.0
2	TAMO 411	TAMU	95.5	84.3	68.7	83.8	33.0
3	RAM 99016	LSU	91.4	81.7	67.9	88.8	36.0
4	TAMO 406	TAMU	83.4	74.2	62.9	76.8	34.0
5	TAMO 606	TAMU	83.1	76.8	60.1	67.8	33.0
6	LA9339	LSU	79.6	73.3	60.2	76.3	31.0
7	Horizon 201	UF	79.2	72.6	57.7	73.2	31.0
8	Dallas	TAMU	69.2	64.0	55.6	66.8	30.0
9	Harrison	LSU	67.7	61.9	47.5	54.6	28.0
10	Bob	UA	-	66.2	60.4	74.6	36.0
11	Coronado	TAMU	-	65.5	50.3	54.1	35.0
12	Nora	UA	-	64.5	49.4	62.4	33.0
13	Ozark	UA	-	59.1	35.3	36.0	32.0
14	NF-27	Noble Foundation	-	-	35.1	35.9	29.0
15	LA06046-N2-Ab2*	LSU	-	-	-	109.1	35.0
16	TX09CS1029*	TAMU	-	-	-	108.8	34.0
17	TX09CS1112*	TAMU	-	-	-	108.3	33.0
18	TX07CS1948*	TAMU	-	-	-	103.6	35.0
19	LA07007SBSB-68*	LSU	-	-	-	99.5	37.0
20	TX09CS058*	TAMU	-	-	-	96.5	33.0
21	TX07CS2257*	TAMU	-	-	-	86.5	35.0
22	TX07CS2140*	TAMU	-	-	-	82.2	32.0
23	TX10CAS579*	TAMU	-	-	-	79.8	33.0
24	Horizon 306	LSU	-	-	-	77.9	33.0
25	FL0720-R6*	UF	-	-	-	74.2	32.0
26	FL0720-R5*	UF	-	-	-	71.1	33.0
27	FL03254-L1*	UF	-	-	-	67.7	37.0
28	LA07048SBSB-28*	LSU	-	-	-	63.6	35.0
29	FL05067-L1*	UF	-	-	-	39.1	35.0
30	OKAY	Noble Foundation	-	-	-	35.8	26.0
LSD (5%)			12.2	10.4	12.2	21.6	--
CV (%)			16.9^a	15.4^a	18.7^a	17.7^a	--
Mean			84.1	72.1	56.4	74.6	33.0

*Experimental Oat Line

[†]Yield average for 2014 and 2013

^{††}Yield average for 2014, 2013, and 2012

[§]Yield average for 2014, 2013, 2012, and 2011

^aTrials with a coefficient of variation (CV) ≥ 15% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal effect on yields.

2014 Uniform Oat Variety Trial - Uvalde (Irrigated)

2014 Rank	Variety	Developer	Yield	Test Wt.
			(bu/a)	(lb/bu)
			2014	2014
1	LA07007SBSB-68*	LSU	126.3	34.0
2	TX07CS2257*	TAMU	119.9	33.0
3	TX09CS1029*	TAMU	108.2	33.0
4	TX07CS2140*	TAMU	107.3	30.0
5	FL0720-R6*	UF	103.1	30.0
6	TX09CS058*	TAMU	94.7	32.0
7	FL0720-R5*	UF	94.4	33.0
8	Bob	UA	90.6	32.0
9	TX09CS1112*	TAMU	86.9	28.0
10	TX10CAS579*	TAMU	80.7	27.0
11	Horizon 306	LSU	79.0	35.0
12	Ozark	UA	78.3	31.0
13	LA9339	LSU	78.0	33.0
14	TAMO 406	TAMU	77.6	34.0
15	Okay	Noble Foundation	69.8	28.0
16	Dallas	TAMU	69.6	32.0
17	TX07CS1948*	TAMU	68.1	28.0
18	TAMO 411	TAMU	66.9	32.0
19	RAM 99016	LSU	65.8	32.0
20	LA07048SBSB-28*	LSU	64.8	30.0
21	Nora	UA	64.3	30.0
22	Coronado	TAMU	63.3	29.0
23	FL03254-L1*	UF	58.1	26.0
24	Horizon 201	UF	54.4	32.0
25	TAMO 606	TAMU	51.9	27.0
26	NF-27	Noble Foundation	46.9	25.0
27	FL05067-L1*	UF	45.1	30.0
28	Horizon 270	UF	44.8	31.0
29	LA06046-N2-Ab2*	LSU	43.0	24.0
30	Harrison	LSU	36.4	28.0
LSD (5%)			31.7	--
CV (%)			20.8^a	--
Mean			74.6	30.3

*Experimental Oat Line

^aTrials with a coefficient of variation (CV) \geq 15% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal effect on yields.

2014 Uniform Oat Variety Trial - Wharton (Dryland)

2014 Rank	Variety	Developer	Yield	Test Wt.
			(bu/a)	(lb/bu)
			2014	2014
1	TX09CS1112*	TAMU	104.7	28.0
2	TX09CS058*	TAMU	98.5	31.0
3	LA9339	LSU	95.6	29.0
4	TX09CS1029*	TAMU	92.5	32.0
5	TX07CS1948*	TAMU	92.0	33.0
6	RAM 99016	LSU	90.5	34.0
7	LA07048SBSB-28*	LSU	90.1	30.0
8	TX07CS2140*	TAMU	89.7	30.0
9	Horizon 201	UF	86.7	28.0
10	Horizon 306	LSU	85.0	29.0
11	TX10CAS579*	TAMU	84.9	28.0
12	Horizon 270	UF	84.6	34.0
13	TAMO 411	TAMU	79.4	32.0
14	LA06046-N2-Ab2*	LSU	74.1	30.0
15	TX07CS2257*	TAMU	73.0	32.0
16	LA07007SBSB-68*	LSU	72.2	31.0
17	TAMO 406	TAMU	70.0	31.0
18	FL05067-L1*	UF	64.6	34.0
19	Nora	UA	64.2	32.0
20	TAMO 606	TAMU	62.4	29.0
21	FL03254-L1*	UF	56.0	31.0
22	Dallas	TAMU	54.7	25.0
23	NF-27	Noble Foundation	53.2	30.0
24	FL0720-R6*	UF	51.9	24.0
25	Harrison	LSU	49.8	25.0
26	FL0720-R5*	UF	49.6	31.0
27	Coronado	TAMU	47.1	29.0
28	Bob	UA	45.5	28.0
29	Okay	Noble Foundation	39.3	26.0
30	Ozark	UA	38.7	30.0
LSD (5%)			18.6	--
CV (%)			15.9^a	--
Mean			71.4	29.9

*Experimental Oat Line

^aTrials with a coefficient of variation (CV) \geq 15% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal effect on yields.

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