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2012

Texas Cool-Season Annual Forage and Grain Results

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Texas Cool-Season Annual Variety Trials

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Introduction

The Cool-Season Annual Forage Variety Trial data presented in the following pages is the result from six trials coordinated and implemented by numerous Texas AgriLife Extension and Research faculty and staff. We also appreciate the cooperation from Texas County Extension Agents, producers, and private industry partners that contributed locations, property, seed, time and other assets to conduct these field trials. The purpose of this publication is to provide unbiased yield data for forage producers across the state. With this information, Texas forage producers can make educated decisions regarding the most appropriate varieties for their geographic region. This is the third annual publication for the state-wide variety forage trial.

Variety Selection:

Selection of an appropriate cool season forage variety is one of the most important decisions a producer will make. This decision can impact the potential yield (forage and/or grain), forage nutritive value, disease and insect management, and maturity of the crop. It is important producers have diversity in the varieties planted on their farms and this depends on the intended use of the crop (grain, forage, or dual-purpose). Variety diversification spreads the risk associated with potentially devastating pests (leaf and stripe rust, Hessian fly, wheat curl mite, greenbugs, etc.) and yield loss from adverse environmental factors (freeze, drought, hail, etc.).

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

When selecting a variety for the 2012-13 season, producers need to consider the limitations that existed in the previous growing season that may have had a negative impact on the results presented in the following pages. We strongly encourage producers to look at multiple year averages, where available, and to look at numerous relevant variety trial locations. Most locations in this publication will have multiple years of data presented.

Interpreting the Data:

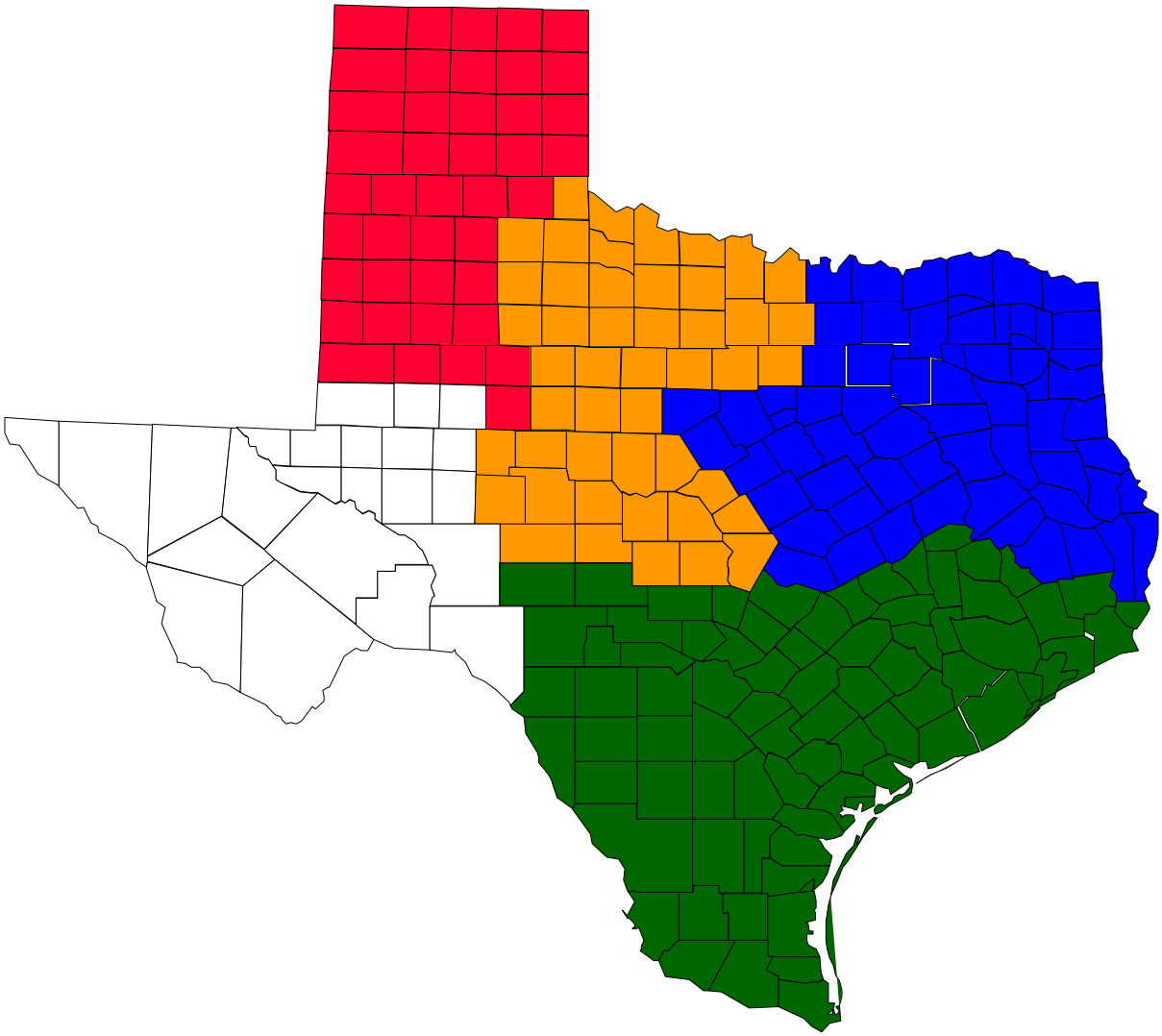
Forage yield and test weight at each location have been analyzed using appropriate statistical procedures. The statistical analysis provides the mean, coefficient of variation (CV), and LSD values. It is important to note these statistical values to prevent misinterpretation of any replicated data.

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 value, expressed as a percentage, indicates the level of unexplained variability present within the trial. A high CV value indicates a lot of 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. CV values in excess of 25% signify that there were problems in the trial, leading the reader to question the validity of the data as a true representation of varietal performance.

The LSD 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 20^{th} 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.

Texas Regional Map



Legend:

- Texas High Plains
- Texas Rolling Plains
- Texas Blacklands and East Texas
- South Texas

2012 Texas Region Overview

Texas Blacklands:

The Texas Blacklands this past growing season did not give producers as many challenges as in 2011. The season started with consistent rainfall in the fall through the first of December, which allowed forage producers to plant into moisture to establish good stands. Early season growth was steady with warmer than normal temperatures throughout the region. Plants in this region advanced 10 to 14 days quicker than most years also due to the warmer temperatures. Powdery mildew incidence was high throughout the Blacklands early in the season. Greenbugs were not as prevalent this year, but significant populations of Bird Cherry Oat aphids were observed in areas around Waco and Hillsboro. In addition, due to the extremely high numbers of these aphids many fields were infected with Barley yellow dwarf virus, as bird cherry oat aphid is a very efficient vector of this disease.

Texas High Plains:

This year in the Texas High Plains rainfall was observed, unlike in 2011. Unfortunately, this area is still recovering from the extreme drought experienced last year. Moisture conditions were extremely dry to start the season, but good rainfall events came, as the crop was ready to be harvested for hay production. By April 10, wheat was still reported to be mostly in the "poor" condition across this area. Diseases and insects in this region were not prevalent this year due to the warm and abnormally dry climate. In addition, windy conditions were observed in the high plains all season long, which helped to keep this area's soil moisture low. Some irrigated fields in the lower panhandle were taken for grain, while many of the dryland wheat fields were cut for hay production.

Texas Rolling Plains:

Throughout the Rolling Plains rainfall was hit and miss this season. Much of the area received above average winter and early spring moisture and saw good forage crops. In the areas where significant moisture was not found, many fields were either grazed out or were baled to replenish some of the hay supplies used last year due to the drought. The crop development was 1-2 weeks earlier than normal, due to warm winter and spring temperatures. The entire area also experienced warm and dry conditions during flowering and seed fill. Windy conditions were seen throughout this area, which caused some plants to lodge, especially in areas with good winter/spring growth and if it came during a rainstorm. During 2012 in the rolling plains, diseases and insects were not a significant problem to forage producers.

South Texas:

Producers in areas of south Texas experienced a dry winter as well. For example, in Corpus Christi the prolonged dry conditions reduced not only stand establishment, but also significantly reduced grain yields in the fields where good stands were observed. However, areas closer to San Antonio received timely showers leading to good fields of wheat and oats. Heavy rains late in the season caused significant harvesting problems due to lodging. Crops all along the south finished the season about two weeks ahead of normal due to the lack of cold weather during the winter months. Powdery mildew early in the season was the major forage pest observed this past year. Insects were not a major issue in south Texas this past season.

Forage Trial Agronomic Data

Location[1]	Cooperator(s)	Yield Limiting Issues	Planting Date	Fertilizer (Total)	Pesticide Applied (Date)
				(lb N/a)	
College Station – Agronomy[2]	Texas A&M Research and Extension Agronomy Farm	Volunteer Corn Early	9/22/11	80	Finess G&B (10/11/11) Buctril (10/25/11) Dimethoate (2/22/12)
College Station – Beef Center	Animal Science Technology Research and Education Center	Deer Grazing; Grassy Weeds	9/23/11	110	Finess G&B (10/11/11) Buctril (10/25/11) Maverick + Powerflex (12/17/11) Dimethoate (2/14/12)
Delta County		Too Wet Early; Weedy **Abandoned**		0	None
McGregor	Texas AgriLife Research and Extension Center	Some Barley Yellow Dwarf Virus	9/30/11	100	Dimethoate (2/27/12)
Millersview		Dry Winter			
Vernon[2]		Warm Winter	9/28/11	60	None

[1]These locations were planted with a seeding rate of 90 lb/a All seed was treated with Gaucho XT at a rate of 3.4 oz/cwt.

[2]College Station-Agronomy and Vernon were the only locations that were irrigated. College Station required an additional 3.75 inches of supplemental irrigation, while Vernon only applied 0.5" for stand establishment.

Irrigated Dual-Purpose Small Grains; College Station Agronomy Farm, 2012

2 Year Rank[a]	Variety	Classification[1]	Source	2 YR Mean Forage Yield[†]	2012 Total Forage Yield	2012 1st Clipping Yield	2012 Grain		
							Grain Yield	Test Weight	Protien
				lb/a	lb/a	lb/a	bu/a	lb/bu	%
1	Doans	HRWW	Syngenta	5,853	7,137	4,693	49.0	63	12.0
2	Pete	HRWW	OSU	5,539	8,024	5,141	22.0	57	11.9
3	Coronado	HRWW	Syngenta	5,388	6,928	4,725	38.3	60	12.6
4	Coker 9553**	SRWW	Syngenta	5,342	7,535	4,811	51.0	62	12.2
5	Fuller	HRWW	KSU	5,334	7,741	4,900	30.6	58	13.1
6	TAM 401**	HRWW	TAMU	5,153	7,161	4,047	43.4	58	-
7	Terral LA 841	SRWW	Terral	5,153	6,439	3,789	49.0	60	12.6
8	Fannin	HRWW	Syngenta	5,146	6,361	4,230	38.4	62	13.7
9	Magnolia	SRWW	Syngenta	5,089	6,934	4,722	44.7	59	12.0
10	TAM 111	HRWW	TAMU	5,038	6,924	4,380	26.7	59	12.3
11	Weathermaster 135**	HRWW	Unknown	4,968	6,635	4,398	29.0	52	11.3
12	Bullet	HRWW	OSU	4,952	7,298	5,102	17.1	57	12.4
13	USG 3555	SRWW	UniSouth Genetics	4,946	6,296	3,238	49.4	58	12.9
14	Endurance	HRWW	OSU	4,894	6,683	4,737	36.5	59	11.5
15	TAM 304	HRWW	TAMU	4,888	6,007	3,458	43.3	59	12.5
16	Shocker	HRWW	WestBred	4,873	6,427	3,862	42.1	59	12.6
17	Duster	HRWW	OSU	4,854	6,374	3,787	38.4	59	12.3
18	HG 76-30	Oat	East Texas Seed	4,829	5,619	3,822	12.5	28	-
19	Heavy Grazer	SRWW	East Texas Seed	4,802	6,679	3,867	26.5	53	13.2
20	Billings	HRWW	OSU	4,774	5,991	3,767	38.2	61	12.0
21	Jagger	HRWW	KSU	4,711	6,685	4,212	17.3	52	13.3
22	TAM 112	HRWW	TAMU	4,690	5,713	3,330	17.0	56	12.7
23	TAMsoft 700	SRWW	TAMU	4,668	6,116	3,559	52.4	58	12.9
24	Jagalene	HRWW	Syngenta	4,654	6,782	4,087	13.5	53	12.8
25	RAM 99016	Oat	LSU	4,590	5,562	3,036	45.2	32	-
26	Sturdy 2K	HRWW	TAMU	4,566	6,315	4,037	34.8	59	11.7
27	Greer	HRWW	Syngenta	4,354	5,977	3,544	31.1	54	12.1
28	Jackpot	HRWW	Syngenta	4,280	6,105	4,150	25.4	53	12.3
29	Deliver	HRWW	OSU	4,127	5,493	3,576	36.7	61	12.0
30	Bob	Oat	UA	4,067	5,156	3,976	19.6	30	-
31	Armour	HRWW	WestBred	4,020	5,143	3,244	44.0	57	11.8
32	TAMO 406	Oat	TAMU	4,002	5,486	3,803	41.6	32	-
33	TAM 203	HRWW	TAMU	3,851	5,138	3,062	45.3	58	12.5
34	Horizon 201	Oat	Horizon	3,846	5,052	3,608	53.0	33	-
35	Harrison	Oat	LSU	3,696	5,107	3,579	23.8	30	-
36	TAMO 606	Oat	TAMU	3,604	4,520	2,400	34.3	28	12.9
37	SantaFe	HRWW	WestBred	-	7,086	4,097	23.1	55	13.0
			Mean	**4,710**	**6,287**	**3,967**	**34.7**	**53**	**12**
			CV (%)	**20.1**	**18.7**	**23.4**	**15.6**		
			LSD (5%)	**987**	**1,639**	**1299**	**461.8**		

[a]Ranking is based on2 Year average forage production

**Awnless/Beardless

[1]Hard Red Winter Wheat (HRWW)
Soft Red Winter Wheat (SRWW)

[†] yield average for 2012 and 2011

Dryland Dual-Purpose Small Grains; McGregor, 2012

2 Year Rank[a]	Variety	Classification[1]	Source	2 YR Mean Forage Yield[†] lb/a	2012 Total Forage Yield lb/a	2012 Grain Yield bu/a	2012 Grain Test Weight lb/bu	2012 Grain Protien %
1	Jagalene	HRWW	Syngenta	3,340	5,943	22.1	54	11.4
2	Billings	HRWW	OSU	3,290	5,337	49.7	59	12.0
3	Greer	HRWW	Syngenta	3,264	5,750	34.0	53	11.7
4	Fuller	HRWW	KSU	3,245	5,546	44.2	58	11.7
5	RAM 99016	Oat	LSU	3,200	5,449	43.6	42	-
6	Bullet	HRWW	OSU	3,099	5,716	20.0	55	12.5
7	Jackpot	HRWW	Syngenta	3,092	5,385	27.8	54	11.8
8	Deliver	HRWW	OSU	3,038	5,481	43.7	60	12.0
9	Magnolia	SRWW	Syngenta	3,020	5,188	48.1	56	11.6
10	HG 76-30	Oat	East Texas Seed	3,003	4,801	32.5	38	-
11	USG 3555	SRWW	UniSouth Genetics	2,913	4,947	49.2	56	11.5
12	Terral LA 841	SRWW	Terral	2,901	4,863	43.6	55	12.0
13	TAM 401**	HRWW	TAMU	2,884	4,780	51.7	56	11.9
14	Fannin	HRWW	Syngenta	2,878	4,833	50.2	60	12.4
15	TAM 304	HRWW	TAMU	2,814	4,652	51.9	56	12.6
16	Duster	HRWW	OSU	2,806	4,765	43.6	58	11.9
17	Pete	HRWW	OSU	2,795	4,981	30.5	57	11.8
18	Bob	Oat	UA	2,693	4,576	40.7	38	-
19	Armour	HRWW	WestBred	2,686	4,773	47.5	55	11.8
20	Heavy Grazer	SRWW	East Texas Seed	2,650	3,989	34.5	54	11.5
21	Horizon 201	Oat	Horizon	2,608	4,603	48.5	41	-
22	TAMO 606	Oat	TAMU	2,594	4,334	45.6	39	-
23	Harrison	Oat	LSU	2,541	4,462	39.2	41	-
24	TAMsoft 700	SRWW	TAMU	2,529	4,477	52.5	56	11.5
25	TAM 112	HRWW	TAMU	2,506	3,840	19.7	54	11.5
26	Coker 9553**	SRWW	Syngenta	2,498	4,049	50.4	59	12.1
27	Coronado	HRWW	Syngenta	2,482	4,084	37.4	57	11.7
28	Shocker	HRWW	WestBred	2,415	4,069	47.0	58	12.1
29	Weathermaster 135**	HRWW	Unknown	2,353	4,087	36.6	53	12.1
30	TAMO 406	Oat	TAMU	2,310	4,027	42.2	42	-
31	Endurance	HRWW	OSU	2,283	3,980	39.1	56	11.8
32	Doans	HRWW	Syngenta	2,269	3,601	44.2	60	12.5
33	Sturdy 2K	HRWW	TAMU	2,259	3,976	37.0	58	11.2
34	Jagger	HRWW	KSU	2,251	3,691	22.6	53	12.4
35	TAM 203	HRWW	TAMU	2,128	3,412	43.2	58	12.2
36	TAM 111	HRWW	TAMU	1,556	2,509	30.8	57	11.9
37	SantaFe	HRWW	WestBred	0	3,856	27.4	55	11.9
			Mean	**2,627**	**4,562**	**39.8**	**53**	**11.9**
			CV (%)	**34.1[b]**	**27.4**	**15.3**		
			LSD (5%)	**922**	**1,771**	**510.2**		

[a]Ranking is based on the two year average forage yield

**Awnless/Beardless

[1]Hard Red Winter Wheat (HRWW)
Soft Red Winter Wheat (SRWW)

[†] yield average for 2012 and 2011

[b]Trials with a coefficient of variation (CV) ≥ 25% contain excessive experimental error.
Readers should consider trials in a similar environment to confirm varietal yield.

Forage Trial; College Station Agronomy Research Farm, Irrigated, 2012

2 Year Rank[b]	Variety	Classification[1]	Source	Dry Matter Yield (lb/a) 2 Year Total[†] Mean	2012 First Clip 11/28/11	2012 Total[a] 3 Clips
1	P-919**	WB	Paramount Seeds	7,259	3,090	8,058
2	TX06V7266*	HRWW	TAMU	7,178	2,756	8,252
3	Sturdy 2K	HRWW	TAMU	7,087	2,119	7,894
4	TAMbar 501	WB	TAMU	6,815	2,690	6,501
5	TAMO 606	Oat	TAMU	6,602	1,452	6,793
6	Heavy Grazer	SRWW	East Texas Seed	6,509	2,122	7,933
7	Fannin	HRWW	Syngenta	6,489	2,254	7,852
8	TX07CS3697*	Oat	TAMU	6,337	2,538	7,080
9	TAMcale 6331	TRIT	TAMU	6,262	2,650	7,275
10	TAM 203	HRWW	TAMU	6,147	1,916	7,453
11	TAMO 411	Oat	TAMU	6,128	2,378	6,548
12	TAM 401**	HRWW	TAMU	6,076	2,426	7,111
13	TAMcale 5019	TRIT	TAMU	5,908	2,582	6,965
14	Mayton II	Rye	Noble Foundation	5,872	2,289	7,293
15	Weathermaster 135**	HRWW	Unknown	5,742	2,384	6,541
16	TX07CS2783*	Oat	TAMU	5,724	2,622	7,022
17	TX05CS542*	Oat	TAMU	5,566	2,254	6,136
18	RAM 99016	Oat	LSU	5,495	2,387	5,968
19	TAMO 406	Oat	TAMU	5,476	2,544	5,949
20	Bob	Oat	UA	5,349	2,275	6,304
21	Harrison	Oat	LSU	5,264	2,132	5,829
22	TX10A001016*	HRWW	TAMU	-	2,378	8,713
23	TX09A001172*	HRWW	TAMU	-	2,908	7,404
24	TX03A0563-AZ*	HRWW	TAMU	-	1,674	7,147
25	TX07A001505*	HRWW	TAMU	-	2,461	7,100
26	NF 27	Oat	Noble Foundation	-	2,174	6,735
27	TX02D079*	Oat	TAMU	-	2,215	6,571
28	Walken	Oat	UK	-	2,375	5,312
			Mean	**6,156**	**2,359**	**6,991**
			CV (%)	**17.0**	**24.7**	**15.9**
			LSD (5%)	**1,178**	**832**	**1,563**

[a]Total forage is the sum of all forage clippings

[b]Rank is based on the 2-Year Total Forage Yield

*Experimental Lines

**Awnless/Beardless

[1]Hard Red Winter Wheat (HRWW)
Soft Red Winter Wheat (SRWW)
Triticale (TRIT)
Winter Barley (WB)

[†]Yield average for 2012 and 2011

Forage Trial; College Station Beef Center, Dryland, 2012

2 Year Rank[b]	Variety	Classification[1]	Source	Dry Matter Yield (lb/a) 2 Year Total[†] Mean	2012 First Clip 3/2/12	2012 Total[a] 2 Clips
1	Sturdy 2K	HRWW	TAMU	6,233	5,352	7,393
2	Bob	Oat	UA	5,878	6,691	6,691
3	Fannin	HRWW	Syngenta	5,844	5,646	5,646
4	TAMO 406	Oat	TAMU	5,204	5,567	5,567
5	Weathermaster 135**	HRWW	Unknown	4,717	5,621	5,621
6	TAMO 411	Oat	TAMU	4,716	6,023	6,023
7	RAM 99016	Oat	LSU	4,702	3,775	4,899
8	TAM 401**	HRWW	TAMU	4,494	4,745	4,745
9	Harrison	Oat	LSU	4,494	4,849	4,849
10	Heavy Grazer	SRWW	East Texas Seed	4,451	4,074	4,074
11	TAMO 606	Oat	TAMU	4,171	4,247	4,247
12	TAM 203	HRWW	TAMU	4,134	3,066	3,740
13	TAMcale 6331	TRIT	TAMU	3,929	3,339	3,339
14	TAMcale 5019	TRIT	TAMU	3,915	4,100	4,100
15	TX07A001505*	HRWW	TAMU	-	5,736	6,980
16	TX09A001172*	HRWW	TAMU	-	5,406	6,761
17	TX02D079*	Oat	TAMU	-	6,673	6,673
18	TAMbar 501	WB	TAMU	-	5,342	6,544
19	P-919**	Rye	Paramount Seeds	-	6,213	6,213
20	Mayton II	Rye	Noble Foundation	-	4,654	5,846
21	TX10A001016*	HRWW	TAMU	-	5,624	5,624
22	Walken	Oat	UK	-	4,973	4,973
23	TX06V7266*	HRWW	TAMU	-	4,633	4,633
24	TX03A0563-AZ*	HRWW	TAMU	-	3,369	4,214
			Mean		**4,988**	**5,391**
			CV (%)	**27.01[c]**	**29.8[c]**	**28.2[c]**
			LSD (5%)	**1,614**	**2,104**	**2,159**

[a]Total forage is the sum of all forage clippings

[b]Rank is based on the 2-Year Total Forage Yield

*Experimental Lines

**Awnless/Beardless

[1]Hard Red Winter Wheat (HRWW)
Soft Red Winter Wheat (SRWW)
Triticale (TRIT)
Winter Barley (WB)

[†] yield average for 2012 and 2011

[c]Trials with a coefficient of variation (CV) ≥ 25% contain excessive experimental error. Readers should consider trials in a similar environment to confirm varietal yield.

Forage Trial; McGregor, Dryland, 2012

2 Year Rank[b]	Variety	Classification[1]	Source	Dry Matter Yield (lb/a) 2 Year Total[†] Mean	2012 First Clip 1/5/12	2012 Total[a] 3 Clips
1	Fannin	HRWW	Syngenta	6,303	3,521	6,764
2	Heavy Grazer	SRWW	East Texas Seed	5,753	2,810	6,250
3	P-919**	WB	Paramount Seeds	5,599	2,496	5,494
4	Sturdy 2K	HRWW	TAMU	5,462	2,991	5,460
5	Weathermaster 135**	HRWW	Unknown	5,021	2,280	5,377
6	TX06V7266*	HRWW	TAMU	5,015	2,898	5,166
7	TAM 203	HRWW	TAMU	4,951	2,554	4,983
8	TAMcale 6331	TRIT	TAMU	4,929	3,128	5,309
9	TAMbar 501	WB	TAMU	4,913	2,196	4,122
10	TAM 401**	HRWW	TAMU	4,826	2,358	5,262
11	TAMcale 5019	TRIT	TAMU	4,751	2,694	4,993
12	Mayton II	Rye	Noble Foundation	4,698	2,633	4,419
13	Bob	Oat	UA	4,370	2,804	5,209
14	TAMO 411	Oat	TAMU	4,162	2,359	4,631
15	RAM 99016	Oat	LSU	3,833	2,426	4,288
16	TAMO 406	Oat	TAMU	3,779	3,255	4,378
17	TAMO 606	Oat	TAMU	3,716	2,199	4,267
18	TX05CS542*	Oat	TAMU	3,702	2,361	4,875
19	Harrison	Oat	LSU	3,597	2,018	3,252
20	TX09A001172*	HRWW	TAMU	-	2,631	6,256
21	TX03A0563-AZ*	HRWW	TAMU	-	2,974	6,164
22	TX10A001016*	HRWW	TAMU	-	2,301	5,524
23	TX02D079*	Oat	TAMU	-	2,631	5,361
24	NF 27	Oat	Noble Foundation	-	3,167	5,151
25	TX07CS3697*	Oat	TAMU	-	2,565	4,797
26	TX07CS2783*	Oat	TAMU	-	2,418	4,670
27	Walken	Oat	UK	-	1,891	3,965
28	TX07A001505*	HRWW	TAMU	-	1,909	3,959
			Mean	**4,704**	**2,588**	**5,012**
			CV (%)	**21.8**	**36.4[c]**	**23.0**
			LSD (5%)	**1,231**	**1,374**	**1,688**

[a]Total forage is the sum of all forage clippings

[b]Rank is based on the 2-Year Total Forage Yield

*Experimental Lines

**Awnless/Beardless

[1]Hard Red Winter Wheat (HRWW)
Soft Red Winter Wheat (SRWW)
Triticale (TRIT)
Winter Barley (WB)

[†] yield average for 2012 and 2011

[c]Trials with a coefficient of variation (CV) ≥ 25% contain excessive experimental error. Readers should consider trials in a similar environment to confirm varietal yield.

Forage Trial; Millersview, Dryland 2012

3 Year Rank[b]	Variety	Classification[1]	Source	Dry Matter Yield (lb/a) 3 Year Total[††] Mean	2 Year Total[†] Mean	2012 Total[a] 2 Clips
1	TAMbar 501	WB	TAMU	4,675	3,515	6,973
2	Fannin	HRWW	Syngenta	3,923	2,783	5,495
3	TAMcale 6331	TRIT	TAMU	3,862	2,709	5,343
4	TAM 203	HRWW	TAMU	3,687	2,850	5,598
5	TAM 401**	HRWW	TAMU	3,588	3,535	7,010
6	P-919**	WB	Paramount Seeds	3,540	2,577	5,099
7	Weathermaster 135**	HRWW	Unknown	3,452	2,744	5,398
8	Deliver	HRWW	OSU	3,394	2,370	4,657
9	TAMcale 5019	TRIT	TAMU	3,390	2,489	4,894
10	Sturdy 2K	HRWW	TAMU	3,034	2,076	4,055
11	TX06V7266*	HRWW	TAMU	-	2,935	5,813
12	Fannin @ 45 lb/a	HRWW	Seeding Rate	-	2,905	5,706
13	Heavy Grazer	SRWW	East Texas Seed	-	2,361	4,640
14	Fannin @ 90 lb/a	HRWW	Seeding Rate	-	2,341	4,614
15	TX07CS3697*	Oat	TAMU	-	-	6,817
16	Mayton II	Rye	Noble Foundation	-	-	6,547
17	TX05CS542*	Oat	TAMU	-	-	6,260
18	RAM 99016	Oat	LSU	-	-	6,013
19	Walken	Oat	UK	-	-	5,961
20	TX03A0563-AZ*	HRWW	TAMU	-	-	5,402
21	Untreated Fannin	HRWW	Syngenta	-	-	5,235
22	TAMO 606	Oat	TAMU	-	-	5,044
23	TX02D079*	Oat	TAMU	-	-	4,894
24	TAMO 411	Oat	TAMU	-	-	4,793
25	TAMO 406	Oat	TAMU	-	-	4,731
26	NF 27	Oat	Noble Foundation	-	-	4,659
27	TX10A001016*	HRWW	TAMU	-	-	4,392
28	TX07A001505*	HRWW	TAMU	-	-	3,986
29	TX07CS2783*	Oat	TAMU	-	-	3,818
30	Bob	Oat	UA	-	-	3,610
31	Harrison	Oat	LSU	-	-	3,207
32	TX09A001172*	HRWW	TAMU	-	-	2,798
			Mean	**3,654.5**	**2,728**	**5,108**
			CV (%)	**38.5[c]**	**45.4[c]**	**37.7[c]**
			LSD (5%)	**2,043**	**2,429**	**3,410**

[a]Total forage is the sum of all forage clippings

[b]Rank is based on the 3-Year Total Forage Yield

*Experimental Lines

[1]Hard Red Winter Wheat (HRWW)
Soft Red Winter Wheat (SRWW)
Triticale (TRIT)
Winter Barley (WB)

[†] yield average for 2012 and 2011

[‡] yield average for 2012, 2011, and 2010

[c]Trials with a coefficient of variation (CV) ≥ 25% contain excessive experimental error. Readers should consider trials in a similar environment to confirm varietal yield.

Forage Trial; Vernon, Irrigated, 2012

2 Year Rank[b]	Variety	Classification[1]	Source	Dry Matter Yield (lb/a) 2 Year Total[†] Mean	2012 First Clip 12/7/11	2012 Total[a] 2 Clips
1	Mayton II	Rye	Noble Foundation	4,488	2,572	3,701
2	TAMcale 6331	TRIT	TAMU	4,200	2,436	4,289
3	TAMcale 5019	TRIT	TAMU	3,920	2,937	3,980
4	TX05CS542*	Oat	TAMU	3,880	2,887	4,355
5	TX06V7266*	HRWW	TAMU	3,789	2,587	3,762
6	P-919**	WB	Paramount Seeds	3,769	2,584	3,898
7	Fannin	HRWW	Syngenta	3,675	2,456	3,660
8	Harrison	Oat	LSU	3,664	2,368	3,752
9	TX07CS3697*	Oat	TAMU	3,529	2,451	3,660
10	Weathermaster 135**	HRWW	Unknown	3,506	2,295	3,202
11	TX07CS2783*	Oat	TAMU	3,469	2,533	3,538
12	TAMO 411	Oat	TAMU	3,463	2,390	3,586
13	Sturdy 2K	HRWW	TAMU	3,418	2,172	3,560
14	Heavy Grazer	SRWW	East Texas Seed	3,417	2,166	3,311
15	Bob	Oat	UA	3,409	2,337	3,304
16	TAM 401**	HRWW	TAMU	3,345	2,313	3,653
17	TAMO 406	Oat	TAMU	3,341	2,332	3,198
18	RAM 99016	Oat	LSU	3,267	2,153	3,256
19	TAMO 606	Oat	TAMU	3,176	2,155	3,615
20	TAM 203	HRWW	TAMU	3,090	2,108	2,925
21	TAMbar 501	WB	TAMU	3,019	2,554	3,319
22	TX02D079*	Oat	TAMU	-	2,693	4,034
23	TX07A001505*	HRWW	TAMU	-	2,372	3,964
24	NF 27	Oat	Noble Foundation	-	2,312	3,691
25	TX09A001172*	HRWW	TAMU	-	2,450	3,616
26	Walken	Oat	UK	-	2,136	3,466
27	TX03A0563-AZ*	HRWW	TAMU	-	2,317	3,327
28	TX10A001016*	HRWW	TAMU	-	2,194	3,221
			Mean	**3,563**	**2,402**	**3,601**
			CV (%)	**18.7**	**18.9**	**17.9**
			LSD (5%)	**737**	**638**	**906**

[a]Total forage is the sum of all forage clippings

[b]Rank is based on the 2-Year Total Forage Yield

*Experimental Lines

**Awnless/Beardless

[1]Hard Red Winter Wheat (HRWW)
Soft Red Winter Wheat (SRWW)
Triticale (TRIT)
Winter Barley (WB)

[†]Yield average for 2012 and 2011

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