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# 2019 Texas Cool-Season Annual Forage Results



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TEXAS A & M UNIVERSITY

# 2019

## Forage Variety Results

### Texas Cool-Season Annual Variety Trials

[varietytesting.tamu.edu/wheat](http://varietytesting.tamu.edu/wheat)

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# Introduction

The statewide Cool-Season Annual Forage Variety Trial data presented in the following pages are the results from six trials coordinated and implemented by Texas A&M AgriLife Extension and Research faculty and staff. We also appreciate the cooperation from 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.

## **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 forage yield, forage nutritive value, disease and insect management, and maturity of the crop. It is important that producers have diversity in the varieties planted on their farms to minimize production risks. The choice of varieties depends on the intended use of the crop (forage only or dual-purpose) and when forage is most needed. Even though total forage production may be similar, certain species/varieties tend to produce more forage during the fall, winter, and/or spring. 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, 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 multiple years of sound data produced from university trials and other reliable sources. High yields over multiple years and multiple locations demonstrate a variety's ability to perform well over diverse environments. Stable yield performance of forage is the best variety selection tool. It is important to consider decreasing yields 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 2019-20 season, producers should consider the variables that limited yield in the previous growing season; which may have had a negative impact on the results presented in the following pages. We strongly encourage producers to look at multiple year averages and to look at numerous relevant variety trial locations.

## **Interpreting the Data:**

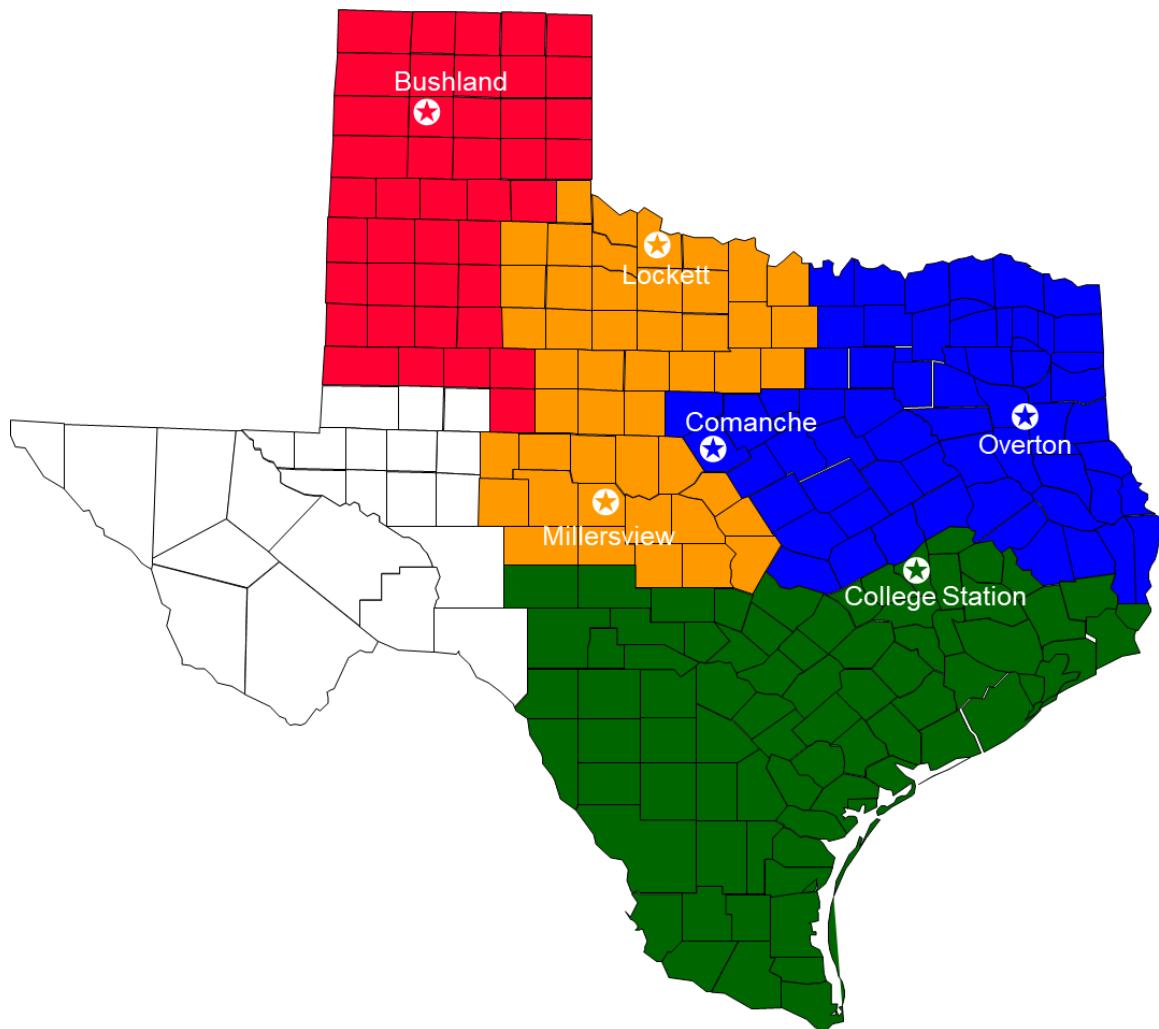
Forage yield at each location has been analyzed using appropriate statistical procedures. The statistical analysis provides the mean, CV, and LSD values. It is important to note these statistical values to prevent misinterpretation of any replicated data.

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 during the 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 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 (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 500 lb/ac in a trial in which Variety A yielded 6000 lb/ac and Variety B yielded 5000 lb/ac, then Variety A is said to be significantly better. In that same trial with an LSD value of 500 lb/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 500 lb/ac difference in yield. In this hypothetical comparison, you might have a 20<sup>th</sup> trial with a 500 lb/ac difference that there is not truly a difference between Variety A and B, but random chance caused the 500 lb difference.

# Texas Regional Map: 2019 Forage Trials



## Legend:

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

# 2019 Texas Region Overview

**Texas High Plains:** The saying “sometimes there can be such a thing as too much of a good thing” comes to mind when thinking of the past growing season. Early fall rains relieved the High Plains region from a dry summer and provided for good planting conditions. However, those that did plant early for grazing or dual-purpose systems suffered from heavy rains prior to emergence which may have reduced stands in some areas. Additionally, cotton growers were tied up with a long, drawn out harvest season due to wet conditions and were therefore not able to get fields worked and ready for wheat planting. As a result, only 50% of wheat acres were in the ground by mid-November. Despite some cold periods, temperatures were mostly above average through the winter months and little to no snow accumulation occurred. Rains returned in March providing for good spring forage growth.

**Texas Rolling Plains:** The Rolling Plains season started with very wet conditions which lasted from September until the end of October. There were only a few days in October that producers were able to work in their fields due to the wet conditions. Therefore, planting was delayed until November or December for much of the region. Although field conditions from November to February were relatively dry across the Rolling Plains, precipitation received in March and April helped to increase yield potential.

**Texas Blacklands:** Very wet fall conditions delayed or prevented planting in many parts of the region. This in turn led to low forage production prior to cold weather and ultimately resulted in lower total production due to the shorter growing season. Plentiful moisture and warmer temperatures spurred on very good spring forage production. A hard freeze in early March resulted in some crop damage to sensitive varieties, especially in oats.

**South Texas:** The 2018-2019 growing season was one of the most difficult in recent memory for most areas of South Texas. After a hot and dry summer, very wet weather began in mid-September that lasted until spring. Relentless rain delayed planting in many areas which significantly reduced fall forage growth. However, mild spring temperatures along with ample moisture allowed for good growth and an extended growing season compared to the previous year.

# Forage Trial Agronomic Data

<b>Location<sup>1</sup></b>	<b>Cooperator(s)</b>	<b>Yield Limiting Issues</b>	<b>Planting Date</b>	<b>Fertilizer Total (lb N/A)</b>	<b>Pesticide Applied (Date)</b>
<b>Bushland<sup>2</sup></b>	Texas A&M AgriLife Research and Extension Center	Heavy rain before emergence	09/24/18	60	Affinity Broadspec (3/18/19)
<b>College Station</b>	Texas A&M Research and Extension Agronomy Farm	Late Planting	10/29/18	120	Ally/Amber (12/12/18)
<b>Comanche<sup>2</sup></b>	Indian Creek Farm; Rodney Stephens	Late Planting	11/19/18	114	Quelex/MCPA (2/6/19)
<b>Lockett</b>	Texas A&M AgriLife Research and Extension Center	None	10/02/18	0	None
<b>Millersview</b>	Mickey Dillard	Wildlife	09/28/18	30	None
<b>Overton</b>	Texas A&M AgriLife Research and Extension Center	Heavy winter rain delayed first harvest	10/11/18	190	None

<sup>1</sup>These locations were planted with a seeding rate of 1.2 million Seed/A except for ryegrass which was 25 lbs/acre. All seed was treated with Cruiser Maxx Vibrance for Cereals.

<sup>2</sup>Bushland and Comanche were the only locations where irrigation was available.

**2019 Cool Season Forage Variety Trial- Total Season Forage Yield Statewide**

<b>Species<sup>1</sup></b>	<b>Variety</b>	<b>Source</b>	<b>Dry Matter Yield (lbs/a)</b>				
			<b>Bushland (Irrigated)</b>	<b>College Station (Lim. Irrigated)</b>	<b>Comanche (Irrigated)</b>	<b>Lockett (Dryland)</b>	<b>Millersview (Dryland)</b>
Winter Barley	08OR-30*	TAMU	--	4776	8387	--	--
	2011-F5-135-4*	TAMU	--	4524	9179	--	4046
	2011-F5-64-1*	TAMU	--	--	9033	--	--
	2011-F5-9-2*	TAMU	--	5531	8836	--	--
	DH 140760*	Oregro Seeds	7942	4901	8040	12921	--
	DH 140789*	Oregro Seeds	8678	5265	8456	10000	--
	DH 140791*	Oregro Seeds	8756	4708	8859	12045	--
	MW09S4080-001*	TAMU	--	4265	--	--	--
	PENNbar 66	Gaylon Ward Seed	--	--	--	--	5514
	TAMbar 500	Gaylon Ward Seed	--	--	--	--	5685
	TAMbar 501	Simon Seed	--	--	--	--	5338
HRWW	Bob Dole	Syngenta	10501	--	--	--	--
	CP7869	Croplan	--	--	--	14773	--
	CP7909	Croplan	--	--	--	12985	--
	CPX79-10*	Croplan	--	--	--	12252	--
	NF101	Noble Research Institute	--	4635	7567	--	--
	NF97117*	Noble Research Institute	--	4868	7124	--	--
	ON11D25005*	Noble Research Institute	--	4357	6939	--	--
	ON13P016*	Noble Research Institute	--	5456	6889	--	--
	ON14319*	Noble Research Institute	--	5239	7106	--	--
	ON15111*	Noble Research Institute	--	4366	7762	--	--
	SY Grit	Syngenta	9379	--	--	--	--
	SY Monument	Syngenta	8591	--	--	--	--
	SY Razor**	Syngenta	--	--	--	--	4179
	TAM 114	Warner Seed	--	--	--	--	4966
	TAM 115 (TX11A001295)	TAMU	8066	5072	7572	11048	--
	TAM 204**	Watley Seed	8848	3004	6281	10292	3357
	TAM 205 (TX12V7415)	TAMU	9296	5193	6884	14860	--
	TriCal 19W01*	Northern Seed	8395	--	7308	--	--
	TX14A001035*	TAMU	9687	4728	7001	14301	--
	TX14A001249*	TAMU	8848	4735	7519	11036	--
	TX14M7061*	TAMU	8066	4881	6716	11340	--
	TX14V70214*	TAMU	8421	5385	7722	13389	--
	WB4303	Westbred	9564	--	7354	11046	--
	WB4515	Westbred	10691	--	8208	13024	--
	WB4699	Westbred	9636	--	7066	9174	--
	WB4792	Westbred	9373	--	7559	11423	--
	Weathermaster 135**	Gaylon Ward Seed	--	--	--	--	3600
Oat	FL 720	UF	--	5234	--	--	--
	Heavy Grazer 76-30	East Texas Seed	--	--	--	--	4958
	LA10001SSBS-20-1*	LSU	--	4966	7225	--	--
	LA10044SSBS-1*	LSU	--	4506	6254	--	--
	LA11074SBSBSB-109*	LSU	--	4518	7806	--	--
	LA12068SBSB-58-1*	LSU	--	4973	6451	--	--
	TAMO 411	TAMU	--	5182	6938	--	4188
	TAMO 412 (TX09CS049)	TAMU	--	5376	6548	--	4338
	TAMO 606	TAMU	--	4761	6760	--	4292
	TX14OCS5061*	TAMU	--	4726	7212	--	--
	TX14OCS5098*	TAMU	--	4414	7330	--	--
	TX14OCS5212*	TAMU	--	4785	6866	--	--
	TX15OCS6039*	TAMU	--	4219	--	--	--
	TX15OCS6133*	TAMU	--	--	6861	--	--
	TX15OCS6142*	TAMU	--	5032	--	--	--

**2019 Cool Season Forage Variety Trial- Total Season Forage Yield Statewide Continued**

Species <sup>1</sup>	Variety	Source	Dry Matter Yield (lbs/a)				
			Bushland (Irrigated)	College Station (Lim. Irrigated)	Comanche (Irrigated)	Lockett (Dryland)	Millersview (Dryland)
Rye	Bates RS4	Noble Research Institute	--	4631	7524	--	--
	Elbon	Noble Research Institute	--	4512	6866	--	5398
	Maton	Noble Research Inst.	--	--	--	--	5068
	Maton II	Noble Research Inst.	--	--	--	--	4579
	NF95319B*	Noble Research Institute	--	4302	7415	--	--
	NF97325*	Noble Research Institute	--	4492	7424	--	--
Ryegrass	NF99362*	Noble Research Institute	--	5153	7255	--	--
	Gulf	TAMU	--	5390	--	--	--
	Nelson	TAMU	--	5335	--	--	--
	Prine	UF	--	4994	--	--	--
	TAM 90	TAMU	--	4845	--	--	--
SRWW	TAMTBO	TAMU	--	5490	--	--	--
	LA140066DH-88*	LSU	--	4048	--	--	--
	LA14066DH-64*	LSU	--	4352	--	--	--
	TX15D9579*	TAMU	--	4161	--	--	--
	TX15D9597*	TAMU	--	4314	--	--	--
Triticale	TX15D9608*	TAMU	--	4158	--	--	--
	NF201	Noble Research Institute	--	4585	7560	--	4959
	NF97226*	Noble Research Institute	--	4410	7377	--	--
	SlickTrit II**	Watley Seed	10686	4464	8434	15364	5512
	SY TF 131	Northern Seed	8678	5008	--	--	--
	SY TF 135	Northern Seed	--	4244	--	--	--
	SY TF 813	Northern Seed	13064	4715	--	--	--
	TriCal 08TF01*	Northern Seed	9693	4254	--	--	--
	TriCal 19T04*	Northern Seed	7459	--	--	--	--
	Trical 348	Northern Seed	--	--	--	--	5439
	Trical 718	Northern Seed	10367	--	--	--	--
	TX12VT8222-4*	TAMU	9554	--	7647	12957	--
	TX14VT70446*	TAMU	9394	--	6916	17587	--
	TX14VT70473*	TAMU	8781	--	6870	15365	--
	TX14VT70487*	TAMU	8045	--	7058	14439	--
	TX14VT70526*	TAMU	8977	--	7896	18283	--
	TX16VT68295*	TAMU	9481	--	7008	15671	--

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>Hard Red Winter Wheat (HRWW); Soft Red Winter Wheat (SRWW)

### 2019 Cool-season Forage Variety Trial- Total Yield (lb/a) by Species

#### 2019 Statewide

Species <sup>1</sup>	Dry Matter Yield (lbs/a)				
	Bushland (Irrigated)	College Station (Lim. Irrigated)	Comanche (Irrigated)	Lockett (Dryland)	Millersview (Dryland)
Barley	8459	4853	8684	11655	5146
HRWW	9158	4763	7254	12210	4026
Oat	--	4702	6932	--	4444
Rye	--	4618	7297	--	5015
Ryegrass	--	4963	--	--	--
SRWW	--	4207	--	--	--
Triticale	9515	4526	7419	15666	5303
LSD (0.05)	379	NS	488	2420	453
CV(%)	17	15	9	20	14
Mean	9231	4684	7417	13149	4745

<sup>1</sup>Hard Red Winter Wheat (HRWW); Soft Red Winter Wheat (SRWW)

#### 2019 Bushland

Rank <sup>†</sup>	Species <sup>1</sup>	Dry Matter Yield (lb/a)			
		Clip 1 2/14/19	Clip 2 3/21/19	Clip 3 5/17/19	Total 2019
1	Triticale	1746	1749	6019	9515
2	HRWW	1437	1962	5758	9158
3	Barley	1745	1970	4744	8459
LSD (0.05)		NS	112	449	379
CV (%)		24	19	26	17
Mean		1592	1878	5761	9231

<sup>†</sup>Varieties ranked according to 2019 total yield.

<sup>1</sup>Hard Red Winter Wheat (HRWW)

### 2019 College Station

Rank <sup>†</sup>	Species <sup>1</sup>	Dry Matter Yield (lb/a)				
		Clip 1 1/21/19	Clip 2 2/15/19	Clip 3 3/27/19	Clip 4 4/29/19	Total 2019
1	Ryegrass	36	370	3325	1454	4963
2	Barley	405	458	3501	489	4853
3	HRWW	154	619	3842	148	4763
4	Oat	252	622	3373	557	4702
5	Rye	150	574	3673	220	4618
6	Triticale	167	667	3508	185	4526
7	SRWW	469	824	2764	150	4207
LSD (0.05)		162	71	291	67	NS
CV (%)		108	26	15	45	15
Mean		228	597	3487	418	4684

<sup>†</sup>Varieties ranked according to 2019 total yield.

<sup>1</sup>Hard Red Winter Wheat (HRWW); Soft Red Winter Wheat (SRWW)

### 2019 Comanche

Rank <sup>†</sup>	Species <sup>1</sup>	Dry Matter Yield (lb/a)			
		Clip 1 2/18/19	Clip 2 3/21/19	Clip 3 5/7/19	Total 2019
1	Barley	392	1676	6616	8684
2	Triticale	449	1930	5040	7419
3	Rye	909	1946	4442	7297
4	HRWW	355	1856	5043	7254
5	Oat	397	1140	5394	6932
LSD (0.05)		75	153	418	488
CV (%)		38	16	12	9
Mean		442	1696	5280	7417

<sup>†</sup>Varieties ranked according to 2019 total yield.

<sup>1</sup>Hard Red Winter Wheat (HRWW)

## 2019 Lockett

Rank <sup>†</sup>	Species <sup>1</sup>	Dry Matter Yield (lb/a)	
		2019	Total
1	Triticale	15666	
2	HRWW	12210	
3	Barley	11655	
	LSD (0.05)	2420	
	CV (%)	20	
	Mean	13149	

<sup>†</sup>Varieties ranked according to 2019 total yield.

<sup>1</sup>Hard Red Winter Wheat (HRWW)

## 2019 Millersview

Rank <sup>†</sup>	Species <sup>1</sup>	Dry Matter Yield (lb/a)			
		Clip 1 1/25/19	Clip 2 2/25/19	Clip 3 4/17/19	Total 2019
1	Triticale	915	1181	3207	5303
2	Barley	968	1073	3104	5146
3	Rye	1344	1124	2547	5015
4	Oat	1254	1327	1863	4444
5	HRWW	995	1352	1678	4026
	LSD (0.05)	209	197	353	453
	CV (%)	27	20	26	14
	Mean	1092	1218	2436	4745

<sup>†</sup>Varieties ranked according to 2019 total yield.

<sup>1</sup>Hard Red Winter Wheat (HRWW)

**2019 Cool-season Forage Variety Trial- Bushland (Irrigated)**

Rank <sup>†</sup>	Variety	Species <sup>1</sup>	Source	Dry Matter Yield (lb/a)			
				Clip 1 2/14/19	Clip 2 3/21/19	Clip 3 5/17/19	Total 2019
1	SY TF 813	Triticale	Northern Seed	1477	2404	9183	13064
2	WB4515	HRWW	Westbred	1503	2157	7031	10691
3	SlickTrit II**	Triticale	Watley Seed	1354	2023	7309	10686
4	Bob Dole	HRWW	Syngenta	1457	1869	7175	10501
5	TriCal 718	Triticale	Northern Seed	1693	1724	6949	10367
6	TriCal 08TF01*	Triticale	Northern Seed	1879	1678	6136	9693
7	TX14A001035*	HRWW	TAMU	1436	2033	6218	9687
8	WB4699	HRWW	Westbred	1246	1977	6414	9636
9	WB4303	HRWW	Westbred	1642	2090	5832	9564
10	TX12VT8222-4*	Triticale	TAMU	2054	1621	5878	9554
11	TX16VT68295*	Triticale	TAMU	1730	1688	6064	9481
12	TX14VT70446*	Triticale	TAMU	2193	1750	5451	9394
13	SY Grit	HRWW	Syngenta	1385	2404	5590	9379
14	WB4792	HRWW	Westbred	1323	2038	6012	9373
15	TAM 205 (TX12V7415)	HRWW	TAMU	1585	1977	5734	9296
16	TX14VT70526*	Triticale	TAMU	2044	2080	4854	8977
17	TX14A001249*	HRWW	TAMU	1400	1730	5719	8848
18	TAM 204**	HRWW	Watley Seed	1194	1822	5832	8848
19	TX14VT70473*	Triticale	TAMU	1802	1802	5178	8781
20	DH 140791*	Barley	Oregro Seeds	1920	2059	4777	8756
21	DH 140789*	Barley	Oregro Seeds	1657	2105	4916	8678
22	SY TF 131	Triticale	Northern Seed	1498	1127	6053	8678
23	SY Monument	HRWW	Syngenta	1282	1961	5348	8591
24	TX14V70214*	HRWW	TAMU	1251	2038	5132	8421
25	TriCal 19W01*	HRWW	Northern Seed	2038	1616	4741	8395
26	TAM 115 (TX11A001295)	HRWW	TAMU	1390	1822	4854	8066
27	TX14M7061*	HRWW	TAMU	1431	1894	4741	8066
28	TX14VT70487*	Triticale	TAMU	1647	1493	4905	8045
29	DH 140760*	Barley	Oregro Seeds	1657	1745	4540	7942
30	TriCal 19T04*	Triticale	Northern Seed	1585	1601	4272	7459
<b>LSD (0.05)</b>				508	409	1791	1851
<b>CV (%)</b>				23	16	22	14
<b>Mean</b>				1592	1878	5761	9231

<sup>†</sup> Varieties ranked according to 2019 total yield.

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>Hard Red Winter Wheat (HRWW)

**2019 Cool-season Forage Variety Trial- Bushland (Irrigated)**

Rank <sup>†</sup>	Variety	Species <sup>1</sup>	Source	Dry Matter Yield (lb/a)		
				3-Year‡	2-Year	2019
Total	Total	Total				
<b>1</b>	TAM 115 (TX11A001295)	HRWW	TAMU	18227	15383	8066
<b>2</b>	SlickTrit II**	Triticale	Watley Seed	17848	14782	10686
<b>3</b>	TAM 204**	HRWW	Watley Seed	16504	14737	8848
<b>4</b>	TAM 205 (TX12V7415)	HRWW	TAMU		15763	9296
<b>5</b>	WB4303	HRWW	Westbred		15510	9564
<b>6</b>	TriCal 08TF01*	Triticale	Northern Seed		15501	9693
<b>7</b>	TX14VT70526*	Triticale	TAMU		15404	8977
<b>8</b>	TX14VT70446*	Triticale	TAMU		14643	9394
<b>9</b>	SY TF 813	Triticale	Northern Seed			13064
<b>10</b>	WB4515	HRWW	Westbred			10691
<b>11</b>	Bob Dole	HRWW	Syngenta			10501
<b>12</b>	TriCal 718	Triticale	Northern Seed			10367
<b>13</b>	TX14A001035*	HRWW	TAMU			9687
<b>14</b>	WB4699	HRWW	Westbred			9636
<b>15</b>	TX12VT8222-4*	Triticale	TAMU			9554
<b>16</b>	TX16VT68295*	Triticale	TAMU			9481
<b>17</b>	SY Grit	HRWW	Syngenta			9379
<b>18</b>	WB4792	HRWW	Westbred			9373
<b>19</b>	TX14A001249*	HRWW	TAMU			8848
<b>20</b>	TX14VT70473*	Triticale	TAMU			8781
<b>21</b>	DH 140791*	Barley	Oregro Seeds			8756
<b>22</b>	DH 140789*	Barley	Oregro Seeds			8678
<b>23</b>	SY TF 131	Triticale	Northern Seed			8678
<b>24</b>	SY Monument	HRWW	Syngenta			8591
<b>25</b>	TX14V70214*	HRWW	TAMU			8421
<b>26</b>	TriCal 19W01*	HRWW	Northern Seed			8395
<b>27</b>	TX14M7061*	HRWW	TAMU			8066
<b>28</b>	TX14VT70487*	Triticale	TAMU			8045
<b>29</b>	DH 140760*	Barley	Oregro Seeds			7942
<b>30</b>	TriCal 19T04*	Triticale	Northern Seed			7459
<b>LSD (0.05)</b>				NS	NS	1851
<b>CV (%)</b>				15	12	14
<b>Mean</b>				17526	15215	9231

\*Experimental Lines

\*\*Awnless/Beardless

†Varieties ranked according to 3-year, 2-year, then 2019 total yield.

<sup>1</sup>Hard Red Winter Wheat (HRWW)

<sup>‡</sup>3-year average based on 2017, 2018, and 2019 yields.

**2019 Statewide Cool-season Forage Variety Trial- College Station (Limited Irrigation)**

Rank <sup>†</sup>	Variety	Species <sup>1</sup>	Source	Dry Matter Yield (lb/a)				
				Clip 1 1/21/19	Clip 2 2/15/19	Clip 3 3/27/19	Clip 4 4/29/19	Total 2019
1	2011-F5-9-2*	Barley	TAMU	531	534	4043	423	5531
2	TAMTBO	Ryegrass	TAMU	27	458	3631	1374	5490
3	ON13P016*	HRWW	Noble Research Institute	194	885	4269	108	5456
4	Gulf	Ryegrass	TAMU	22	307	3645	1437	5390
5	TX14V70214*	HRWW	TAMU	154	626	4183	422	5385
6	TAMO 412 (TX09CS049)	Oat	TAMU	19	591	4099	690	5376
7	Nelson	Ryegrass	TAMU	32	412	3382	1509	5335
8	DH 140789*	Barley	Oregro Seeds	101	461	3973	731	5265
9	ON14319*	HRWW	Noble Research Institute	270	678	4065	227	5239
10	FL 720	Oat	UF	664	656	3105	810	5234
11	TAM 205 (TX12V7415)	HRWW	TAMU	26	287	4658	223	5193
12	TAMO 411	Oat	TAMU	132	748	3796	506	5182
13	NF99362*	Rye	Noble Research Institute	173	630	4270	80	5153
14	TAM 115 (TX11A001295)	HRWW	TAMU	75	630	4254	113	5072
15	TX15OCS6142*	Oat	TAMU	370	657	3615	390	5032
16	SY TF 131	Triticale	Northern Seed	305	769	3856	79	5008
17	Prine	Ryegrass	UF	57	283	3016	1638	4994
18	LA12068SSB-58-1*	Oat	LSU	521	641	3178	634	4973
19	LA10001SSBS-20-1*	Oat	LSU	41	610	3710	605	4966
20	DH 140760*	Barley	Oregro Seeds	268	379	3706	549	4901
21	TX14M7061*	HRWW	TAMU	256	810	3735	80	4881
22	NF97117*	HRWW	Noble Research Institute	540	705	3500	123	4868
23	TAM 90	Ryegrass	TAMU	42	388	3060	1356	4845
24	TX14OCS5212*	Oat	TAMU	93	625	3540	527	4785
25	08OR-30*	Barley	TAMU	236	457	4002	81	4776
26	TAMO 606	Oat	TAMU	85	688	3481	507	4761
27	TX14A001249*	HRWW	TAMU	102	760	3809	63	4735
28	TX14A001035*	HRWW	TAMU	66	538	3936	189	4728
29	TX14OCS5061*	Oat	TAMU	79	536	3662	448	4726
30	SY TF 813	Triticale	Northern Seed	81	657	3617	360	4715
31	DH 140791*	Barley	Oregro Seeds	250	484	3140	833	4708
32	NF101	HRWW	Noble Research Institute	106	620	3851	57	4635
33	Bates RS4	Rye	Noble Research Institute	266	656	3482	228	4631
34	NF201	Triticale	Noble Research Institute	205	785	3557	39	4585
35	2011-F5-135-4*	Barley	TAMU	195	324	3246	759	4524
36	LA11074SBSBSBSB-109*	Oat	LSU	734	459	2657	667	4518
37	Elbon	Rye	Noble Research Institute	32	296	3669	514	4512
38	LA10044SSBS-1*	Oat	LSU	258	635	3045	552	4506
39	NF97325*	Rye	Noble Research Institute	123	658	3608	103	4492
40	Slicktrit II	Triticale	Watley Seed	31	247	3770	416	4464
41	TX14OCS5098*	Oat	TAMU	83	504	3227	600	4414
42	NF97226*	Triticale	Noble Research Institute	156	743	3502	10	4410
43	ON15111*	HRWW	Noble Research Institute	82	419	3781	83	4366
44	ON11D25005*	HRWW	Noble Research Institute	84	518	3612	144	4357
45	LA14066DH-64*	SRWW	LSU	660	932	2633	126	4352
46	TX15D9597*	SRWW	TAMU	376	917	2931	91	4314
47	NF95319B*	Rye	Noble Research Institute	155	633	3338	177	4302
48	MW09S4080-001*	Barley	TAMU	1252	569	2398	46	4265
49	TriCal 08TF01*	Triticale	Northern Seed	111	714	3309	119	4254
50	SY TF 135	Triticale	Northern Seed	278	754	2943	270	4244
51	TX15OCS6039*	Oat	TAMU	202	735	2980	302	4219
52	TX15D9579*	SRWW	TAMU	331	666	2918	246	4161
53	TX15D9608*	SRWW	TAMU	454	845	2712	146	4158
54	LA14006DH-88*	SRWW	LSU	523	758	2626	141	4048
55	TAM 204**	HRWW	TAMU	48	566	2297	94	3004
<b>LSD (0.05)</b>				287	176	660	203	818
<b>CV(%)</b>				78	18	12	30	11
<b>Mean</b>				228	597	3487	413	4729

<sup>†</sup>Varieties ranked according to 2019 total yield.

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>Hard Red Winter Wheat (HRWW); Soft Red Winter Wheat (SRWW)

**2019 Statewide Cool-season Forage Variety Trial- College Station (Limited Irrigation)**

Rank <sup>†</sup>	Variety	Species <sup>1</sup>	Source	Dry Matter Yield (lb/a)		
				3-Year‡	2-Year	2019
Total	Total	Total				
1	TX14OCS5098*	Oat	TAMU	3384	3905	4414
2	FL 720	Oat	UF	3278	4370	5234
3	TAM 115 (TX11A001295)	HRWW	TAMU	2862	3821	5072
4	TAMTBO	Ryegrass	TAMU	4770	5490	
5	2011-F5-9-2*	Barley	TAMU	4546	5531	
6	ON13P016*	HRWW	Noble Research Institute	4383	5456	
7	ON14319*	HRWW	Noble Research Institute	4277	5239	
8	08OR-30*	Barley	TAMU	4102	4776	
9	DH 140760*	Barley	Orego Seeds	4083	4901	
10	NF97117*	HRWW	Noble Research Institute	4069	4868	
11	TAM 205 (TX12V7415)	HRWW	TAMU	4032	5193	
12	TX14OCS5061*	Oat	TAMU	4020	4726	
13	MW09S4080-001*	Barley	TAMU	3988	4265	
14	DH 140789*	Barley	Orego Seeds	3966	5265	
15	2011-F5-135-4*	Barley	TAMU	3869	4524	
16	NF95319B*	Rye	Noble Research Institute	3857	4302	
17	DH 140791*	Barley	Orego Seeds	3819	4708	
18	NF97226*	Triticale	Noble Research Institute	3722	4410	
19	NF97325*	Rye	Noble Research Institute	3664	4492	
20	Gulf	Ryegrass	TAMU		5390	
21	TX14V70214*	HRWW	TAMU		5385	
22	TAMO 412 (TX09CS049)	Oat	TAMU		5376	
23	Nelson	Ryegrass	TAMU		5335	
24	TAMO 411	Oat	TAMU		5182	
25	NF99362*	Rye	Noble Research Institute		5153	
26	TX15OCS6142*	Oat	TAMU		5032	
27	SY TF 131	Triticale	Northern Seed		5008	
28	Prine	Ryegrass	UF		4994	
29	LA12068SBSB-58-1*	Oat	LSU		4973	
30	LA10001SSBS-20-1*	Oat	LSU		4966	
31	TX14M7061*	HRWW	TAMU		4881	
32	TAM 90	Ryegrass	TAMU		4845	
33	TX14OCS5212*	Oat	TAMU		4785	
34	TAMO 606	Oat	TAMU		4761	
35	TX14A001249*	HRWW	TAMU		4735	
36	TX14A001035*	HRWW	TAMU		4728	
37	SY TF 813	Triticale	Northern Seed		4715	
38	NF101	HRWW	Noble Research Institute		4635	
39	Bates RS4	Rye	Noble Research Institute		4631	
40	NF201	Triticale	Noble Research Institute		4585	
41	LA11074SBSBSBSB-109*	Oat	LSU		4518	
42	Elbon	Rye	Noble Research Institute		4512	
43	LA10044SSBS-1*	Oat	LSU		4506	
44	Slicktrit II	Triticale	Watley Seed		4464	
45	ON15111*	HRWW	Noble Research Institute		4366	
46	ON11D25005*	HRWW	Noble Research Institute		4357	
47	LA14066DH-64*	SRWW	LSU		4352	
48	TX15D9597*	SRWW	TAMU		4314	
49	TriCal 08TF01*	Triticale	Northern Seed		4254	
50	SY TF 135	Triticale	Northern Seed		4244	
51	TX15OCS6039*	Oat	TAMU		4219	
52	TX15D9579*	SRWW	TAMU		4161	
53	TX15D9608*	SRWW	TAMU		4158	
54	LA140066DH-88*	SRWW	LSU		4048	
55	TAM 204**	HRWW	TAMU		3004	
<b>LSD (0.05)</b>				271	475	818
<b>CV(%)</b>				9	10	11
<b>Mean</b>				3175	4066	4729

\*Experimental Lines

\*\*Awnless/Beardless

<sup>†</sup>Varieties ranked according to 3-year, 2-year, then 2019 total yield.

<sup>1</sup>Hard Red Winter Wheat (HRWW); Soft Red Winter Wheat (SRWW)

<sup>‡</sup>3-year average based on 2017, 2018, and 2019 yields.

**2019 Statewide Cool-season Forage Variety Trial- Comanche**

Rank <sup>†</sup>	Variety	Species <sup>1</sup>	Source	Dry Matter Yield (lb/a)			
				Clip 1 2/18/19	Clip 2 3/21/19	Clip 3 5/7/19	Total 2019
1	2011-F5-135-4*	Barley	TAMU	370	1488	7321	9179
2	2011-F5-64-1*	Barley	TAMU	417	1836	6781	9033
3	DH 140791*	Barley	Oregro Seeds	435	1498	6926	8859
4	2011-F5-9-2*	Barley	TAMU	546	2084	6205	8836
5	DH 140789*	Barley	Oregro Seeds	265	1238	6952	8456
6	Slicktrit II	Triticale	Watley Seed	135	1386	6912	8434
7	08OR-30*	Barley	TAMU	338	1767	6282	8387
8	WB4515	HRWW	Westbred	210	2102	5896	8208
9	DH 140760*	Barley	Oregro Seeds	376	1818	5846	8040
10	TX14VT70526*	Triticale	TAMU	556	2057	5284	7896
11	LA11074SBSBSBSB-109*	Oat	LSU	721	912	6173	7806
12	ON15111*	HRWW	Noble Foundation	395	1930	5437	7762
13	TX14V70214*	HRWW	TAMU	385	1908	5429	7722
14	TX12VT8222-4*	Triticale	TAMU	530	1836	5282	7647
15	TAM 115 (TX11A001295)	HRWW	TAMU	370	2034	5168	7572
16	NF101	HRWW	TAMU	387	1850	5330	7567
17	NF201	Triticale	Noble Foundation	337	2128	5095	7560
18	WB4792	HRWW	Westbred	315	1645	5600	7559
19	Bates RS4	Rye	Noble Foundation	1004	2073	4447	7524
20	TX14A001249*	HRWW	TAMU	406	1661	5452	7519
21	NF97325*	Rye	Noble Foundation	902	2025	4497	7424
22	NF95319B*	Rye	Noble Foundation	1118	1831	4466	7415
23	NF97226*	Triticale	Noble Foundation	497	2176	4705	7377
24	WB4303	HRWW	Westbred	434	1861	5059	7354
25	TX14OCS5098*	Oat	TAMU	368	1300	5662	7330
26	TriCal 19W01*	HRWW	Northern Seed	435	1901	4972	7308
27	NF99362*	Rye	Noble Foundation	1047	1727	4482	7255
28	LA10001SSBS-20-1*	Oat	LSU	297	1320	5607	7225
29	TX14OCS5061*	Oat	TAMU	335	1270	5608	7212
30	NF97117*	HRWW	Noble Foundation	539	1788	4797	7124
31	ON14319*	HRWW	Noble Foundation	284	1985	4837	7106
32	WB4699	HRWW	Westbred	150	1781	5135	7066
33	TX14VT70487*	Triticale	TAMU	500	1777	4781	7058
34	TX16VT68295*	Triticale	TAMU	461	2146	4401	7008
35	TX14A001035*	HRWW	TAMU	345	1998	4658	7001
36	ON11D25005*	HRWW	Noble Foundation	202	1862	4875	6939
37	TAMO 411	Oat	TAMU	378	1133	5428	6938
38	TX14VT70446*	Triticale	TAMU	642	1840	4434	6916
39	ON13P016*	HRWW	Noble Foundation	362	1816	4712	6889
40	TAM 205 (TX12V7415)	HRWW	TAMU	303	2099	4482	6884
41	TX14VT70473*	Triticale	TAMU	379	2025	4466	6870
42	TX14OCS5212*	Oat	TAMU	395	1246	5224	6866
43	Elbon	Rye	Noble Foundation	473	2074	4318	6866
44	TX15OCS6133*	Oat	TAMU	222	1252	5388	6861
45	TAMO 606	Oat	TAMU	339	1266	5155	6760
46	TX14M7061*	HRWW	TAMU	517	1528	4671	6716
47	TAMO 412 (TX09CS049)	Oat	TAMU	377	1147	5024	6548
48	LA12068SBSB-58-1*	Oat	LSU	487	849	5115	6451
49	TAM 204**	HRWW	Watley Seed	353	1660	4268	6281
50	LA10044SSBS-1*	Oat	LSU	452	849	4954	6254
<b>LSD (0.05)</b>				199	355	867	982
<b>CV(%)</b>				28	13	10	8
<b>Mean</b>				442	1696	5280	7417

<sup>†</sup> Varieties ranked according to 2019 total yield.

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>Hard Red Winter Wheat (HRWW)

**2019 Statewide Cool-season Forage Variety Trial- Comanche**

Rank <sup>†</sup>	Variety	Species <sup>‡</sup>	Source	2-Year <sup>‡</sup>		2019 Total
				Total	Total	
1	2011-F5-9-2*	Barley	TAMU	9182	8836	
2	DH 140791*	Barley	Oregro Seeds	9078	8859	
3	DH 140760*	Barley	Oregro Seeds	9006	8040	
4	2011-F5-135-4*	Barley	TAMU	8814	9179	
5	08OR-30*	Barley	TAMU	8801	8387	
6	TAM 115 (TX11A001295)	HRWW	TAMU	8742	7572	
7	DH 140789*	Barley	Oregro Seeds	8737	8456	
8	TAM 205 (TX12V7415)	HRWW	TAMU	8521	6884	
9	ON14319*	HRWW	Noble Foundation	8409	7106	
10	ON13P016*	HRWW	Noble Foundation	8300	6889	
11	NF97325*	Rye	Noble Foundation	8259	7424	
12	TX14OCS5098*	Oat	TAMU	8230	7330	
13	NF97226*	Triticale	Noble Foundation	8125	7377	
14	NF95319B*	Rye	Noble Foundation	7981	7415	
15	TX12VT8222-4*	Triticale	TAMU	7883	7647	
16	TX14OCS5061*	Oat	TAMU	7848	7212	
17	WB4303	HRWW	Westbred	7741	7354	
18	NF97117*	HRWW	Noble Foundation	7582	7124	
19	2011-F5-64-1*	Barley	TAMU		9033	
20	Slickrit II	Triticale	Watley Seed		8434	
21	WB4515	HRWW	Westbred		8208	
22	TX14VT70526*	Triticale	TAMU		7896	
23	LA11074SBSBSBSB-109*	Oat	LSU		7806	
24	ON15111*	HRWW	Noble Foundation		7762	
25	TX14V70214*	HRWW	TAMU		7722	
26	NF101	HRWW	TAMU		7567	
27	NF201	Triticale	Noble Foundation		7560	
28	WB4792	HRWW	Westbred		7559	
29	Bates RS4	Rye	Noble Foundation		7524	
30	TX14A001249*	HRWW	TAMU		7519	
31	TriCal 19W01*	HRWW	Northern Seed		7308	
32	NF99362*	Rye	Noble Foundation		7255	
33	LA10001SSBS-20-1*	Oat	LSU		7225	
34	WB4699	HRWW	Westbred		7066	
35	TX14VT70487*	Triticale	TAMU		7058	
36	TX16VT68295*	Triticale	TAMU		7008	
37	TX14A001035*	HRWW	TAMU		7001	
38	ON11D25005*	HRWW	Noble Foundation		6939	
39	TAMO 411	Oat	TAMU		6938	
40	TX14VT70446*	Triticale	TAMU		6916	
41	TX14VT70473*	Triticale	TAMU		6870	
42	TX14OCS5212*	Oat	TAMU		6866	
43	Elbon	Rye	Noble Foundation		6866	
44	TX15OCS6133*	Oat	TAMU		6861	
45	TAMO 606	Oat	TAMU		6760	
46	TX14M7061*	HRWW	TAMU		6716	
47	TAMO 412 (TX09CS049)	Oat	TAMU		6548	
48	LA12068SBSB-58-1*	Oat	LSU		6451	
49	TAM 204**	HRWW	Watley Seed		6281	
50	LA10044SSBS-1*	Oat	LSU		6254	
<b>LSD (0.05)</b>				1322	982	
<b>CV(%)</b>				10	8	
<b>Mean</b>				8407	7417	

\*Experimental Lines

\*\*Awnless/Beardless

<sup>†</sup>Varieties ranked according to 3-year, 2-year, then 2019 total yield.

<sup>‡</sup>Hard Red Winter Wheat (HRWW)

<sup>‡</sup>2-year average based on 2018 and 2019 yields.



### 2019 Statewide Cool-season Forage Variety Trial- Lockett

Rank <sup>†</sup>	Variety	Species <sup>1</sup>	Source	Dry Matter Yield	
				2-Year <sup>‡</sup>	2019 <sup>#</sup>
1	TX14VT70526*	Triticale	TAMU	13230	18283
2	TX14VT70446*	Triticale	TAMU	13064	17587
3	TX12VT8222-4*	Triticale	TAMU	11968	12957
4	TAM 205 (TX12V7415)	HRWW	TAMU	10640	14860
5	TAM 115 (TX11A001295)	HRWW	TAMU	10364	11048
6	WB4303	HRWW	Westbred	9625	11046
7	DH 140760*	Barley	Oregro Seeds	9185	12921
8	TAM 204**	HRWW	Watley Seed	8247	10292
9	DH 140791*	Barley	Oregro Seeds	7472	12045
10	DH 140789*	Barley	Oregro Seeds	6589	10000
11	TX16VT68295*	Triticale	TAMU		15671
12	TX14VT70473*	Triticale	TAMU		15365
13	SlickTrit II	Triticale	Watley Seed		15364
14	CP7869	HRWW	Croplan		14773
15	TX14VT70487*	Triticale	TAMU		14439
16	TX14A001035*	HRWW	TAMU		14301
17	TX14V70214*	HRWW	TAMU		13389
18	WB4515	HRWW	Westbred		13024
19	CP7909	HRWW	Croplan		12985
20	CPX79-10*	HRWW	Croplan		12252
21	WB4792	HRWW	Westbred		11423
22	TX14M7061*	HRWW	TAMU		11340
23	TX14A001249*	HRWW	TAMU		11036
24	WB4699	HRWW	Westbred		9174
<b>LSD (0.05)</b>				2310	3844
<b>CV(%)</b>				20	18
<b>Mean</b>				10038	13149

\*Experimental Lines

\*\*Awnless/Beardless

<sup>†</sup>Varieties ranked according to 2-year then 2019 total yield

<sup>1</sup>Hard Red Winter Wheat (HRWW)

<sup>‡</sup>2-year average based on 2018 and 2019 yields

<sup>#</sup>Only one clipping was taken in 2019



### 2019 Statewide Cool-season Forage Variety Trial- Millersview

Rank <sup>†</sup>	Variety	Species <sup>1</sup>	Source	Dry Matter Yield (lb/a)			
				Clip 1 1/25/19	Clip 2 2/25/19	Clip 3 4/17/19	Total 2019
1	TAMbar 500	Barley	Gaylon Ward Seed	1017	1124	3544	5685
2	PENNbar 66	Barley	Gaylon Ward Seed	794	1140	3581	5514
3	Slicktrit II**	Triticale	Watley Seed	860	1093	3559	5512
4	Trical 348	Triticale	Northern Seed	641	1108	3690	5439
5	Elbon	Rye	Noble Research Inst.	1162	1116	3121	5398
6	TAMbar 501	Barley	Simon Seed	1139	1093	3107	5338
7	Maton	Rye	Noble Research Inst.	1226	1108	2734	5068
8	TAM 114	HRWW	Warner Seed	1252	1764	1950	4966
9	NF201	Triticale	Noble Research Inst.	1244	1343	2372	4959
10	Heavy Grazer 76-30	Oat	East Texas Seed	1313	1350	2295	4958
11	Maton II	Rye	Noble Research Inst.	1645	1147	1786	4579
12	TAMO 412	Oat	TAMU	906	1218	2214	4338
13	TAMO 606	Oat	TAMU	1318	1296	1678	4292
14	TAMO 411	Oat	TAMU	1479	1444	1265	4188
15	SY Razor**	HRWW	Syngenta	1139	1553	1487	4179
16	2011-F5-135-4*	Barley	TAMU	923	937	2186	4046
17	Weathermaster 135**	HRWW	Gaylon Ward Seed	650	952	1998	3600
18	TAM 204**	HRWW	Watley Seed	939	1140	1279	3357
<b>LSD (0.05)</b>				385	348	673	797
<b>CV (%)</b>				21	17	17	10
<b>Mean</b>				1092	1218	2436	4745

<sup>†</sup> Varieties ranked according to 2019 total yield.

\*\*Awnless/Beardless

<sup>1</sup>Hard Red Winter Wheat (HRWW)

**2019 Statewide Cool-season Forage Variety Trial- Millersview**

Rank <sup>†</sup>	Variety	Species <sup>1</sup>	Source	Dry Matter Yield (lb/a)	
				2-Year‡	2019
Total	Total				
<b>1</b>	PENNbar 66	Barley	Gaylon Ward Seed	4062	5514
<b>2</b>	Elbon	Rye	Noble Research Inst.	3835	5398
<b>3</b>	Trical 348	Triticale	Northern Seed	3574	5439
<b>4</b>	TAMbar 500	Barley	Gaylon Ward Seed	3526	5685
<b>5</b>	Slicktrit II**	Triticale	Watley Seed	3513	5512
<b>6</b>	TAMbar 501	Barley	Simon Seed	3357	5338
<b>7</b>	Maton	Rye	Noble Research Inst.	3295	5068
<b>8</b>	TAM 114	HRWW	Warner Seed	3203	4966
<b>9</b>	Heavy Grazer 76-30	Oat	East Texas Seed	3202	4958
<b>10</b>	Maton II	Rye	Noble Research Inst.	3194	4579
<b>11</b>	Weathermaster 135**	HRWW	Gaylon Ward Seed	3132	3600
<b>12</b>	TAMO 411	Oat	TAMU	3023	4188
<b>13</b>	TAMO 606	Oat	TAMU	2955	4292
<b>14</b>	TAM 204**	HRWW	Watley Seed	2577	3357
<b>15</b>	NF201	Triticale	Noble Research Inst.		4959
<b>16</b>	TAMO 412	Oat	TAMU		4338
<b>17</b>	SY Razor**	HRWW	Syngenta		4179
<b>18</b>	2011-F5-135-4*	Barley	TAMU		4046
<b>LSD (0.05)</b>				771	797
<b>CV (%)</b>				20	10
<b>Mean</b>				3318	4745

\*Experimental Lines

\*\*Awnless/Beardless

<sup>†</sup>Varieties ranked according to 2-year then 2019 total yield.

<sup>1</sup>Hard Red Winter Wheat (HRWW)

<sup>‡</sup>2-year average based on 2018 and 2019 yields.



### 2019 Comanche, TX County Cool-season Forage Variety Trial

Rank <sup>†</sup>	Variety	Species <sup>1</sup>	Source	Dry Matter Yield (lb/a)			
				Clip 1 2/18/19	Clip 2 3/21/19	Clip 3 5/7/19	Total 2019
1	TAM 114	HRWW	TAMU	465	2364	5729	8558
2	Slicktrit**	Triticale	Watley Seed	111	1569	6620	8299
3	Maton II	Rye	Noble Foundation	1115	2032	4692	7839
4	SY Razor**	HRWW	Syngenta	528	1309	5752	7589
5	SY Rugged	HRWW	Syngenta	379	2678	4467	7524
6	NF201	Triticale	Noble Foundation	515	2229	4670	7413
7	Elbon	Rye	Noble Foundation	564	2434	4340	7338
8	Big Mac / Razor mix	Oat/HRWW	--	508	1187	5638	7333
9	Oakes	SRWW	Syngenta	309	2160	4798	7266
10	TAMO 606	Oat	TAMU	359	1334	5471	7164
11	Harrison	Oat	LSU	243	1255	5527	7024
12	Bob	Oat	Producers Coop	529	1229	5162	6920
13	Wintergrazer	Rye	--	352	2263	4279	6894
14	Haybet & TAM114	Barley/HRWW	--	854	1407	4523	6784
15	Nelson	Ryegrass	TAMU	483	1593	4463	6540
16	TAM 204**	HRWW	Watley Seed	388	1946	4177	6512
17	Heavy Grazer II	Oat	East Texas Seed	495	1328	4661	6484
18	SY Flint	HRWW	Syngenta	244	1607	3888	5739
19	Prine	Ryegrass	East Texas Seed	374	1471	3775	5620
20	Marshall	Ryegrass	--	519	1925	2939	5383
<b>LSD (0.05)</b>				179	332	1133	1283
<b>CV(%)</b>				23	11	14	11
<b>Mean</b>				467	1766	4778	7011

<sup>†</sup> Varieties ranked according to 2019 total yield.

\*\*Awnless/Beardless

<sup>1</sup>Hard Red Winter Wheat (HRWW); Soft Red Winter Wheat (SRWW)



### 2019 Comanche, TX County Cool-season Forage Variety Trial

Rank <sup>†</sup>	Variety	Species <sup>1</sup>	Source	Dry Matter Yield (lb/a)			
				4-Year‡ Total	3-Year Total	2-Year Total	2019 Total
<b>1</b>	NF201	Triticale	Noble Foundation	8291	8161	7994	7413
<b>2</b>	TAM 114	HRWW	TAMU	8154	8223	9200	8558
<b>3</b>	Maton II	Rye	Noble Foundation	7762	7622	8265	7839
<b>4</b>	SY Razor**	HRWW	Syngenta	7199	6844	8352	7589
<b>5</b>	Prine	Ryegrass	East Texas Seed	6394	6630	6971	5620
<b>6</b>	Nelson	Ryegrass	TAMU	6098	6534	6943	6540
<b>7</b>	Oakes	SRWW	Syngenta		7631	8701	7266
<b>8</b>	Haybet & TAM 114	Barley/HRWW	--		7425	8334	6784
<b>9</b>	Harrison	Oat	LSU		7323	7504	7024
<b>10</b>	Slicktrit**	Triticale	Watley Seed			9032	8299
<b>11</b>	Elbon	Rye	Noble Foundation			8326	7338
<b>12</b>	Heavy Grazer II	Oat	East Texas Seed			8208	6484
<b>13</b>	SY Rugged	HRWW	Syngenta			8087	7524
<b>14</b>	TAM 204**	HRWW	Watley Seed			7973	6512
<b>15</b>	SY Flint	HRWW	Syngenta			7452	5739
<b>16</b>	Bob	Oat	Producers Coop			6848	6920
<b>17</b>	Big Mac & Razor	Oat/HRWW	--				7333
<b>18</b>	TAMO 606	Oat	TAMU				7164
<b>19</b>	Wintergrazer	Rye	--				6894
<b>20</b>	Marshall	Ryegrass	--				5383
<b>LSD (0.05)</b>				1062	1103	1331	1283
<b>CV(%)</b>				15	14	10	11
<b>Mean</b>				7333	7386	8042	7011

\*\*Awnless/Beardless

†Varieties ranked according to 4-year, 3-year, 2-year, then 2019 total yield.

<sup>1</sup>Hard Red Winter Wheat (HRWW); Soft Red Winter Wheat (SRWW)

‡4-year average based on 2016, 2017, 2018, and 2019 yields.



### 2019 Comanche, TX County Cool-season Silage Variety Trial

Rank <sup>†</sup>	Variety	Species <sup>1</sup>	Source	Height (in)	Dry Matter Yield (lb/a)
1	NF201	Triticale	Noble Foundation	51	6896
2	P-919	Barley	Paramount Seed	39	6299
3	Maton II	Rye	Noble Foundation	54	6141
4	TAM 114	HRWW	TAMU	34	6102
5	Oakes	SRWW	Syngenta	30	5903
6	OKAY	Oat	Oklahoma State Univ.	33	5447
7	Nelson	Ryegrass	TAMU	31	5065
8	SY Razor**	HRWW	Syngenta	31	5036
<b>LSD (0.05)</b>				2	843
<b>CV (%)</b>				3	8
<b>Mean</b>				38	5861

\*\*Awnless/Beardless

<sup>†</sup>Varieties ranked according to dry matter yield.

<sup>1</sup>Hard Red Winter Wheat (HRWW); Soft Red Winter Wheat (SRWW)



**2019 Overton, TX Annual Ryegrass Forage Trial**

Variety/Line	Harvest 1 19-Mar	Harvest 2 16-Apr	Harvest 3 17-May	Total Season Yield	3-Year <sup>†</sup> Mean Yields
-----(lbs DM/ac)-----					
Lonestar	3073	2215	2221	7509	9186
Wax Marshall	2988	2746	2030	7764	8748
Triangle T	1650	2269	2995	6914	8254
TAMTBO	2483	2719	2878	8080	8250
Jackson	3345	2678	2345	8368	8185 <sup>b</sup>
Diamond T	1865	2445	2878	7188	8110
Double Diamond	1780	2451	3101	7332	8093
Flying A	1654	2413	2840	6907	8076
Tetrastar	1943	2319	2113	6375	7595
Nelson	1634	2340	2466	6440	7521
TAM 90	1195	2684	2138	6017	7397
ME 4 <sup>a</sup>	899	1655	1789	4343	7355
Gulf	1850	1993	1287	5130	7346
Passerel Plus	2495	2486	2099	7080	7337
Winterhawk	1376	2514	2411	6301	7267
M2CVS <sup>a</sup>	1323	1766	1960	5049	7197
ME 94 <sup>a</sup>	978	1677	1764	4419	7108
Prine	930	2213	1890	5033	6630
Rapido	2960	2765	2450	8175	-
McKinley	458	4276	2996	7730	-
B-15.3011 <sup>a</sup>	2127	2667	2827	7621	-
Centurion	2885	2425	1961	7271	-
SELWT 110 <sup>a</sup>	1985	2337	2523	6845	-
Kodiak	790	3124	2850	6764	-
LWD-15 <sup>a</sup>	1340	2245	3113	6698	-
Big Boss	2171	2250	2195	6616	-
LWT-28 <sup>a</sup>	1592	2239	2699	6530	-
New Dawn	1890	2029	2446	6365	-
Dixie Gold	2417	1900	1979	6296	-
Ration	1727	2412	2132	6271	-
B-18.1324 <sup>a</sup>	1588	2020	2631	6239	-
GALM1517 <sup>a</sup>	1172	2754	2245	6171	-
K014-WLS <sup>a</sup>	1459	2897	1735	6091	-
K014-WEMA <sup>a</sup>	1859	2244	1973	6076	-
07-ME <sup>a</sup>	1513	1683	2812	6008	-
GO-14T2 <sup>a</sup>	993	2582	2433	6008	-

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**2019 Overton, TX Annual Ryegrass Forage Trial Continued**

Variety/Line	Harvest 1 19-Mar	Harvest 2 16-Apr	Harvest 3 17-May	Total Season Yield	3-Year <sup>†</sup> Mean Yields
-----(lbs DM/ac)-----					
Fria	1743	2031	2215	5989	-
07-WW <sup>a</sup>	1567	1973	2284	5824	-
GALM1618 <sup>a</sup>	1298	2293	2221	5812	-
B-18.1286 <sup>a</sup>	1021	2522	2265	5808	-
WMWL <sup>a</sup>	1306	2234	2265	5805	-
K014-WM <sup>a</sup>	1624	1947	2132	5703	- <sup>b</sup>
Marvel <sup>a</sup>	1193	2446	1993	5632	-
Trinova	1293	2028	2239	5560	-
K014-WEAR <sup>a</sup>	1174	2210	2030	5414	-
FrostProof	761	2532	2030	5323	-
SELWLE <sup>a</sup>	1034	2446	1735	5215	-
GALM1516 <sup>a</sup>	788	2186	2200	5174	-
Atomic	783	2467	1890	5140	-
PPG LWT 105 <sup>a</sup>	860	2279	1980	5119	-
WMWL-2 <sup>a</sup>	1254	2056	1790	5100	-
Angusta	905	2171	2014	5090	-
Baqueano	715	2239	2011	4965	-
GO-16L2 <sup>a</sup>	746	2486	1730	4962	-
Master	831	1099	2736	4666	-
LWT-23 <sup>a</sup>	802	2766	1004	4572	-
Spicer	761	1093	1560	3414	-
Mean	1524	2315	2237	6076	
CV	41	21	19	20	
LSD (0.05)	767	899	874	1681	

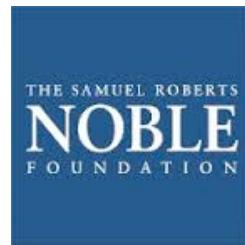
<sup>a</sup>Experimental line, seed not commercially available.

<sup>b</sup>Entry not tested over last three years.

<sup>†</sup>Varieties ranked according to 3-year average, then 2019 total yield.

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