

# 2015



## Texas Cool-Season Annual Forage Results

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

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# 2015

## 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 eight trials coordinated and implemented by numerous Texas A&M 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 and quality 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 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 environmental factors. 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 2016 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.

Forage quality is often overlooked in an effort to maximize yield, but can vary between varieties and species and especially over time. Producers should be aware of these differences and that forage quality will influence rate of gain for livestock. Neutral detergent fiber (NDF) and acid detergent fiber (ADF) are measurements often used as indicators of intake and digestibility, respectively. NDF measures total fiber (cell wall components) and is composed of lignin, cellulose, and hemi-cellulose, whereas ADF measures only the more recalcitrant fiber components which include lignin and cellulose. Total digestible nutrients (TDN) is derived from crude protein (CP) and ADF and indicates digestible energy in forages using the following equation:

$$\text{TDN (\%)} = 81.38 + 0.36 * \text{CP} - 0.77 * \text{ADF}.$$

In vitro dry matter digestibility (IVDM) is another method of determining digestibility of a forage through incubation of ground samples in rumen fluid followed by an NDF fluid treatment. When interpreting results, ADF and NDF values are inversely related to intake potential and digestibility. Therefore, lower values are typically more desirable, while higher values are more advantageous for TDN, IVDM and CP.

## **Interpreting the Data:**

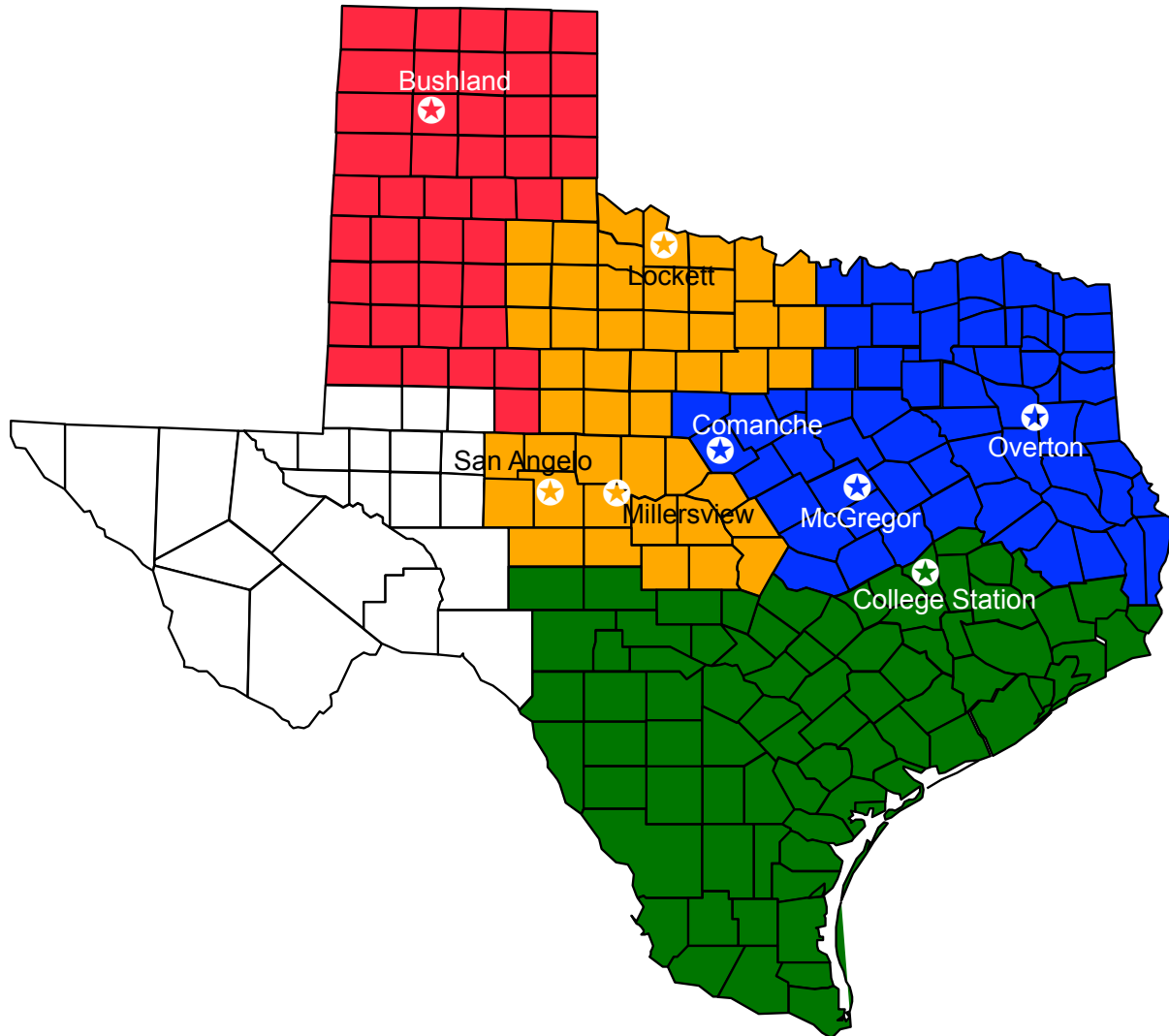
Forage yield at each location has been analyzed using appropriate statistical procedures. The statistical analysis provides the mean, CV, and LSD values. It is important to note these statistical values to prevent misinterpretation of any replicated data.

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 2 ton/ac in a trial in which Variety A yielded 6 ton/ac and Variety B yielded 3 ton/ac, then Variety A is said to be significantly better. In that same trial with an LSD value of 2 ton/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 2 ton/ac difference in yield. In this hypothetical comparison, you might have a 20<sup>th</sup> trial with a 2 ton/ac difference that there is not truly a difference between Variety A and B, but random chance caused the 2 ton difference.

# Texas Regional Map



## Legend:

Texas High Plains



Texas Rolling Plains



Texas Blacklands and East Texas



South Texas



# 2015 Texas Region Overview

## **Texas Blacklands:**

The Texas Blacklands started off having a good growing season for winter small grains. However, as the season progressed, excessive rainfall set in during late winter and continued throughout the spring. This moisture allowed for the establishment of foliar diseases and coupled with saturated soils, contributed to overall yield reductions. The moisture made grazing and mechanical harvest difficult due to the continued periods of wet soil conditions.

## **Texas High Plains:**

Producers in the Texas High Plains struggled this winter with a continuing severe drought in the fall. Rainfall events were few and far between initially, but nearing the latter portion of the growing season, moisture was more abundant. Strong storms at the end of the season produced high winds and hail that took out some of the fields in this area. The High Plains also dealt with uncommon fungal diseases not typical for the region. Due to the wet spring, stripe rust reached threshold levels, causing some growers to apply fungicides. Head scab was also reported in some fields that were cut for silage as well. Overall, yields were above average for both irrigated and dryland fields.

## **Texas Rolling Plains:**

The Texas Rolling Plains producers experienced a dry fall and early winter much like the producers in the High Plains, but springtime brought good, timely showers to small grain fields. Insects and disease were present throughout much of the region. Stripe rust was particularly problematic this season along with root rot and above average reports of mosaic viruses. Strong storms near the end of the season produced strong winds and hail that negatively impacted some fields.

## **South Texas:**

In the southern part of the state, fall planting went as normal with good soil moisture for planting. As the fall progressed, sufficient rainfall continued allowing for good emergence and stand establishment. Excessive rainfall from the late winter through the spring left many small grain fields standing in water. Foliar diseases were plentiful in this area due to the moisture. Much like the Blacklands, grazing and mechanical harvest of small grain fields in this area became very difficult due to the prolonged wet soil conditions.



# Forage Trial Agronomic Data

| Location <sup>1</sup>              | Cooperator(s)                                    | Yield Limiting Issues                                       | Planting Date | Fertilizer Total (lb N/A) | Pesticide Applied (Date)          |
|------------------------------------|--------------------------------------------------|-------------------------------------------------------------|---------------|---------------------------|-----------------------------------|
| <b>Bushland<sup>2</sup></b>        | Texas A&M AgriLife Research and Extension Center | Winterkill on Oats                                          | 9/17/14       | None Required             | Dimethoate 400 (1/19/15)          |
| <b>College<sup>2</sup> Station</b> | Texas A&M Research and Extension Agronomy Farm   | Some BYDV <sup>3</sup>                                      | 9/25/14       | 120                       | Weedmaster Dimethoate (1/21/15)   |
| <b>Comanche<sup>2</sup></b>        | Indian Creek Farm; Rodney Stephens               | None                                                        | 9/23/14       | 100                       | None Required                     |
| <b>Overton</b>                     | Texas A&M Research and Extension Center          | None                                                        | 10/8/14       | --                        | None Required                     |
| <b>San Angelo</b>                  | Texas A&M AgriLife Research and Extension Center | Dry Early Fall; Grazing Damage; Heavy Stripe Rust in Spring | 9/24/14       | 50                        | None Required                     |
| <b>Lockett<sup>2</sup></b>         | Texas A&M AgriLife Research and Extension Center | None                                                        | 9/23/14       | 50                        | None Required                     |
| <b>McGregor</b>                    | Texas A&M AgriLife Research Center               | BYDV                                                        | 9/26/14       | 50                        | MCPA Ester + Dimethoate (1/29/15) |

<sup>1</sup>These locations were planted with a seeding rate of 90 lb/a. All seed was treated with Cruiser Maxx Vibrance for Cereals

<sup>2</sup>Bushland, College Station, Comanche and Lockett were the only locations that irrigation was available.

<sup>3</sup>BYDV – Barley Yellow Dwarf Virus

**2015 Small Grains Forage Trial - Total Season Forage Yield State Wide**

| Class <sup>1</sup> | Variety <sup>2</sup> | Company               | Dry Matter Yield (lbs/a) |                        |                         |                                   |                         |                       |
|--------------------|----------------------|-----------------------|--------------------------|------------------------|-------------------------|-----------------------------------|-------------------------|-----------------------|
|                    |                      |                       | Bushland<br>(Irrigated)  | Lockett<br>(Irrigated) | San Angelo<br>(Dryland) | College<br>Station<br>(Irrigated) | Comanche<br>(Irrigated) | McGregor<br>(Dryland) |
| HRWW               | Duster               | OSU                   | 9401                     | 8308                   | 5285                    | 4050                              | 7590                    | 5423                  |
|                    | Fannin               | Syngenta              | 8249                     | 5963                   | 5570                    | 3574                              | 6300                    | 6587                  |
|                    | WB Grainfield        | Monsanto              | 8198                     | 8488                   | 8695                    | 5010                              | 7950                    | 8956                  |
|                    | Razor**              | Syngenta              | 8733                     | 6583                   | 7767                    | 2400                              | 7130                    | 5351                  |
|                    | WB Redhawk           | Monsanto              | 9206                     | 5945                   | 5253                    | 4850                              | 6910                    | 7780                  |
|                    | TAM 114              | TAMU                  | 9823                     | 8189                   | 6428                    | 3075                              | 8270                    | 10468                 |
|                    | TAM 204**            | TAMU                  | 8476                     | 6694                   | 6708                    | 4968                              | 7240                    | 5777                  |
|                    | TAM 401**            | TAMU                  | 8651                     | 6301                   | 7079                    | 4821                              | 6900                    | 7393                  |
|                    | TX09D1172*           | TAMU                  | 9669                     | 7311                   | 5568                    | 3835                              | 7420                    | 6697                  |
|                    | TX09A001194*         | TAMU                  | 10379                    | 7563                   | 4816                    | 3511                              | 7030                    | 5638                  |
|                    | TX08A001249*         | TAMU                  | 9278                     | 6615                   | 5529                    | 3550                              | 7600                    | 5351                  |
|                    | Weathermaster 135**  | Unknown               | 9041                     | 7022                   | 6249                    | 4095                              | 7320                    | 5648                  |
|                    | Bob                  | UA                    | ---                      | ---                    | 4192                    | 4888                              | 9040                    | 9283                  |
| Oat                | Horizon 201          | Plantation Seed       | ---                      | ---                    | 8096                    | 5095                              | 9280                    | 9797                  |
|                    | Horizon 270          | Plantation Seed       | ---                      | ---                    | 5250                    | 4862                              | 6740                    | 12160                 |
|                    | Horizon 306          | Plantation Seed       | ---                      | ---                    | 6394                    | 3851                              | 8640                    | 8893                  |
|                    | Heavy Grazer 76-30   | East Texas Seed       | ---                      | ---                    | 9053                    | 3433                              | 8500                    | 5684                  |
|                    | OKAY                 | Noble Foundation      | ---                      | ---                    | ---                     | 5250                              | 8800                    | 7938                  |
|                    | RAM 99016            | LSU                   | ---                      | ---                    | 5767                    | 4912                              | 8070                    | 8194                  |
|                    | TAMO 411             | TAMU                  | ---                      | 7541                   | 6696                    | 3686                              | 7930                    | 9591                  |
|                    | TAMO 606             | TAMU                  | ---                      | 7194                   | 6748                    | 3518                              | 7810                    | 6286                  |
|                    | TX09CS031*           | TAMU                  | 5472                     | 6807                   | 6080                    | 3029                              | 7280                    | 9521                  |
|                    | TX09CS1029*          | TAMU                  | 3137                     | 5439                   | 5137                    | 4125                              | 7560                    | 7052                  |
|                    | TX07CS1948*          | TAMU                  | 7272                     | 7056                   | 6120                    | 4177                              | 7110                    | 7804                  |
|                    | TX07CS2257*          | TAMU                  | 6501                     | 7158                   | 5590                    | 4022                              | 8530                    | 10737                 |
|                    | Walken               | UK                    | 7118                     | 7406                   | 5656                    | 4252                              | 7360                    | 8493                  |
| Rye                | Elbon                | Noble Foundation      | 10080                    | 8085                   | 6728                    | 3564                              | 7440                    | 9802                  |
|                    | Maton                | Noble Foundation      | 10420                    | 8278                   | 7423                    | 5333                              | 8430                    | 8370                  |
|                    | Maton II             | Noble Foundation      | 10718                    | 8813                   | 7210                    | 4484                              | 8790                    | 6414                  |
|                    | Oklon                | Noble Foundation      | ---                      | ---                    | ---                     | 5225                              | 8620                    | 7898                  |
| Ryegrass           | Gulf                 | TAMU                  | ---                      | ---                    | ---                     | 3731                              | 8770                    | 6653                  |
|                    | Marshall             | Wax Company           | ---                      | ---                    | ---                     | 3837                              | 8490                    | 6599                  |
|                    | Nelson               | TAMU                  | ---                      | ---                    | ---                     | 3920                              | 8830                    | 10313                 |
|                    | Prine                | UF                    | ---                      | ---                    | ---                     | 4180                              | 9270                    | 6890                  |
|                    | SunGrazer            | Oregro Seeds, Inc     | ---                      | ---                    | ---                     | 3572                              | 9050                    | 8519                  |
|                    | TAM 90               | TAMU                  | ---                      | ---                    | ---                     | 5120                              | 9000                    | 8022                  |
|                    | TAMTBO               | TAMU                  | ---                      | ---                    | ---                     | 4045                              | 8300                    | 7049                  |
|                    | Haybet               | USDA/MAES             | ---                      | ---                    | ---                     | ---                               | 6340                    | ---                   |
| SB                 | 25R40                | Pioneer               | ---                      | ---                    | ---                     | ---                               | 7660                    | ---                   |
| SRWW               | TAMcale 5019         | TAMU                  | 9648                     | 8017                   | 8866                    | 4433                              | 7150                    | 8269                  |
|                    | TAMcale 6331         | TAMU                  | 7180                     | 8264                   | 7476                    | 2786                              | 7170                    | 6111                  |
|                    | Forerunner           | Weaver Seed           | 9052                     | 7652                   | ---                     | ---                               | ---                     | ---                   |
|                    | Fridge**             | Elliot Plant Breeding | 7920                     | 6676                   | 6554                    | 5371                              | 8680                    | 7097                  |
|                    | Grazeall I           | Gaylan Ward Seed      | 8589                     | 7544                   | ---                     | ---                               | ---                     | ---                   |
|                    | NF 101               | Noble Foundation      | ---                      | ---                    | ---                     | 5121                              | 7630                    | 8918                  |
|                    | NF 201 (NF96210)     | Noble Foundation      | ---                      | ---                    | ---                     | 3358                              | 7140                    | 8034                  |
|                    | Trical 348           | Syngenta              | 9391                     | 7235                   | ---                     | 5066                              | 7380                    | 7913                  |
|                    | Texan                | Gaylan Ward Seed      | 9607                     | 7028                   | ---                     | ---                               | ---                     | ---                   |
|                    | TX12VT8220*          | TAMU                  | 10142                    | 7294                   | ---                     | ---                               | ---                     | ---                   |
|                    | TX12VT8222*          | TAMU                  | 9576                     | 7364                   | ---                     | ---                               | ---                     | ---                   |
|                    | TX12VT8228*          | TAMU                  | 9484                     | 7928                   | ---                     | ---                               | ---                     | ---                   |
|                    | TX12VT8229*          | TAMU                  | 9905                     | 7188                   | ---                     | ---                               | ---                     | ---                   |
|                    | Maja                 | Oregon State          | ---                      | ---                    | ---                     | ---                               | 6920                    | ---                   |
|                    | P-919**              | Paramount Seeds       | 9103                     | 7841                   | 7490                    | 3573                              | 8490                    | 6987                  |
| WB                 | TAMbar 501           | TAMU                  | 9443                     | 6666                   | 5942                    | 4867                              | 8350                    | 12094                 |
| Mean               |                      |                       | 8753                     | 7315                   | 6502                    | 4178                              | 7889                    | 7854                  |
| LSD (5%)           |                      |                       | 1670                     | 1529                   | 2163                    | 946                               | 1844                    | 3051                  |
| CV (%)             |                      |                       | 14                       | 15                     | 20                      | 15                                | 12                      | 19                    |

\*Experimental Lines

\*\*Awnless/Beardless

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

Soft Red Winter Wheat (SRWW)

Triticale (TRIT)

Spring Barley (SB)

Winter Barley (WB)

<sup>2</sup>All Ryegrass Varieties are Tetraploids EXCEPT Gulf, Marshal, and TAM 90.

## 2015 Small Grains Forage Trial - Total Yield (lb/a) by Class

### 2015 State Wide

| Class <sup>1</sup> | Bushland<br>(Irrigated) | Locket<br>(Irrigated) | Comanche<br>(Irrigated) | San Angelo<br>(Dryland) | McGregor<br>(Dryland) | College<br>Station<br>(Irrigated) |
|--------------------|-------------------------|-----------------------|-------------------------|-------------------------|-----------------------|-----------------------------------|
| HRWW               | 9092                    | 7121                  | 7323                    | 6288                    | 6685                  | 3856                              |
| Oat                | 5900                    | 6943                  | 8045                    | 6245                    | 9191                  | 4604                              |
| Rye                | 10406                   | 8392                  | 8321                    | 7097                    | 6607                  | 3353                              |
| Ryegrass           | ---                     | ---                   | 8816                    | ---                     | 7922                  | 4870                              |
| TRIT               | 9136                    | 7472                  | 7524                    | 7730                    | 7536                  | 3717                              |
| WB                 | 9273                    | 7254                  | 7923                    | 6716                    | 8765                  | 4468                              |
| <b>Mean</b>        | <b>8753</b>             | <b>7315</b>           | <b>7890</b>             | <b>6502</b>             | <b>7854</b>           | <b>4178</b>                       |
| <b>LSD (5%)</b>    | <b>947</b>              | <b>782</b>            | <b>1101</b>             | <b>1213</b>             | <b>1536</b>           | <b>524</b>                        |
| <b>CV (%)</b>      | <b>16</b>               | <b>16</b>             | <b>11</b>               | <b>23</b>               | <b>22</b>             | <b>18</b>                         |

### 2015 Bushland

| Class <sup>1</sup> | Cut 1       | Cut 2       | Cut 3       | Cut 4      | Total       |
|--------------------|-------------|-------------|-------------|------------|-------------|
| Rye                | 3024        | 3041        | 4341        | ---        | 10406       |
| WB                 | 3297        | 2433        | 3544        | ---        | 9273        |
| TRIT               | 3259        | 2352        | 3525        | ---        | 9136        |
| HRWW               | 3069        | 2602        | 3422        | ---        | 9092        |
| Oat                | 2705        | 1395        | 1800        | ---        | 5900        |
| <b>Mean</b>        | <b>3087</b> | <b>2365</b> | <b>3301</b> | <b>---</b> | <b>8753</b> |
| <b>LSD (5%)</b>    | <b>420</b>  | <b>366</b>  | <b>615</b>  | <b>---</b> | <b>947</b>  |
| <b>CV (%)</b>      | <b>20</b>   | <b>23</b>   | <b>27</b>   | <b>---</b> | <b>16</b>   |

### 2015 Lockett

| Class <sup>1</sup> | Cut 1                 | Cut 2                 | Cut 3                 | Cut 4      | Total       |
|--------------------|-----------------------|-----------------------|-----------------------|------------|-------------|
| Rye                | 2705                  | 2910                  | 2777                  | ---        | 8392        |
| TRIT               | 2596                  | 2923                  | 1953                  | ---        | 7472        |
| WB                 | 2350                  | 1550                  | 3353                  | ---        | 7254        |
| HRWW               | 2342                  | 2315                  | 2464                  | ---        | 7121        |
| Oat                | 2260                  | 2207                  | 2476                  | ---        | 6943        |
| <b>Mean</b>        | <b>2438</b>           | <b>2494</b>           | <b>2383</b>           | <b>---</b> | <b>7315</b> |
| <b>LSD (5%)</b>    | <b>491</b>            | <b>601</b>            | <b>484</b>            | <b>---</b> | <b>782</b>  |
| <b>CV (%)</b>      | <b>30<sup>a</sup></b> | <b>36<sup>a</sup></b> | <b>30<sup>a</sup></b> | <b>---</b> | <b>16</b>   |

### 2015 Comanche

| Class <sup>1</sup> | Cut 1                 | Cut 2                 | Cut 3       | Cut 4      | Total       |
|--------------------|-----------------------|-----------------------|-------------|------------|-------------|
| Ryegrass           | 1483                  | 1676                  | 5657        | ---        | 8816        |
| Rye                | 1984                  | 1765                  | 4572        | ---        | 8321        |
| Oat                | 1615                  | 1463                  | 4968        | ---        | 8045        |
| WB                 | 1284                  | 1051                  | 5588        | ---        | 7923        |
| TRIT               | 1352                  | 1346                  | 4826        | ---        | 7524        |
| HRWW               | 991                   | 1496                  | 4860        | ---        | 7323        |
| SB                 | 3365                  | 607                   | 2372        | ---        | 6343        |
| <b>Mean</b>        | <b>1435</b>           | <b>1452</b>           | <b>5004</b> | <b>---</b> | <b>7890</b> |
| <b>LSD (5%)</b>    | <b>617</b>            | <b>522</b>            | <b>1136</b> | <b>---</b> | <b>1101</b> |
| <b>CV (%)</b>      | <b>35<sup>a</sup></b> | <b>29<sup>a</sup></b> | <b>19</b>   | <b>---</b> | <b>11</b>   |

## 2015 Small Grains Forage Trial - Total Yield (lb/a) by Class Continued

### 2015 San Angelo

| Class <sup>1</sup> | Cut 1                 | Cut 2       | Cut 3                 | Cut 4      | Total       |
|--------------------|-----------------------|-------------|-----------------------|------------|-------------|
| TRIT               | 468                   | 1404        | 5654                  | ---        | 7730        |
| Rye                | 737                   | 1339        | 4441                  | ---        | 7097        |
| WB                 | 454                   | 1530        | 4557                  | ---        | 6716        |
| HRWW               | 612                   | 1230        | 4383                  | ---        | 6288        |
| Oat                | 537                   | 1225        | 4370                  | ---        | 6245        |
| <b>Mean</b>        | <b>574</b>            | <b>1268</b> | <b>4499</b>           | <b>---</b> | <b>6502</b> |
| <b>LSD (5%)</b>    | <b>NS</b>             | <b>224</b>  | <b>930</b>            | <b>---</b> | <b>1213</b> |
| <b>CV (%)</b>      | <b>45<sup>a</sup></b> | <b>25</b>   | <b>29<sup>a</sup></b> | <b>---</b> | <b>23</b>   |

### 2015 McGregor

| Class <sup>1</sup> | Cut 1                 | Cut 2       | Cut 3      | Cut 4      | Total       |
|--------------------|-----------------------|-------------|------------|------------|-------------|
| Oat                | 1309                  | 8024        | ---        | ---        | 9191        |
| WB                 | 1153                  | 7793        | ---        | ---        | 8765        |
| Ryegrass           | 931                   | 7025        | ---        | ---        | 7922        |
| TRIT               | 685                   | 6969        | ---        | ---        | 7536        |
| HRWW               | 401                   | 6281        | ---        | ---        | 6685        |
| Rye                | 599                   | 6119        | ---        | ---        | 6607        |
| <b>Mean</b>        | <b>855</b>            | <b>7082</b> | <b>---</b> | <b>---</b> | <b>7854</b> |
| <b>LSD (5%)</b>    | <b>230</b>            | <b>1441</b> | <b>---</b> | <b>---</b> | <b>1536</b> |
| <b>CV (%)</b>      | <b>43<sup>a</sup></b> | <b>23</b>   | <b>---</b> | <b>---</b> | <b>22</b>   |

### 2015 College Station

| Class <sup>1</sup> | Cut 1                 | Cut 2                 | Cut 3       | Cut 4                 | Total       |
|--------------------|-----------------------|-----------------------|-------------|-----------------------|-------------|
| Ryegrass           | 194                   | 1225                  | 3236        | 204                   | 4870        |
| Oat                | 482                   | 1447                  | 2708        | 26                    | 4604        |
| WB                 | 373                   | 757                   | 3301        | 13                    | 4468        |
| HRWW               | 331                   | 840                   | 2704        | 15                    | 3856        |
| TRIT               | 489                   | 1094                  | 2048        | 20                    | 3717        |
| Rye                | 186                   | 581                   | 2577        | 10                    | 3353        |
| <b>Mean</b>        | <b>367</b>            | <b>1096</b>           | <b>2701</b> | <b>48</b>             | <b>4178</b> |
| <b>LSD (5%)</b>    | <b>170</b>            | <b>262</b>            | <b>398</b>  | <b>24</b>             | <b>524</b>  |
| <b>CV (%)</b>      | <b>74<sup>a</sup></b> | <b>38<sup>a</sup></b> | <b>21</b>   | <b>80<sup>a</sup></b> | <b>18</b>   |

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

Triticale (TRIT)

Winter Barley (WB)

Spring Barley (SB)

<sup>a</sup>Trials with a coefficient of variation (CV)  $\geq$  25% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.

### 2015 Small Grains Forage Trial - Bushland (Irrigated)

| Rank <sup>a</sup> | Variety             | Class <sup>1</sup> | Company               | Dry Matter Yield (lbs/a) |                   |                  |                  |
|-------------------|---------------------|--------------------|-----------------------|--------------------------|-------------------|------------------|------------------|
|                   |                     |                    |                       | Clip 1<br>11/24/14       | Clip 2<br>2/13/15 | Clip 3<br>4/3/15 | Total<br>3 Clips |
| 1                 | Maton II            | Rye                | Noble Foundation      | 3302                     | 3024              | 4392             | 10718            |
| 2                 | Maton               | Rye                | Noble Foundation      | 2942                     | 3312              | 4166             | 10420            |
| 3                 | TX09A001194*        | HRWW               | TAMU                  | 3312                     | 2921              | 4145             | 10379            |
| 4                 | TX12VT8220*         | TRIT               | TAMU                  | 3415                     | 2993              | 3734             | 10142            |
| 5                 | Elbon               | Rye                | Noble Foundation      | 2829                     | 2788              | 4464             | 10080            |
| 6                 | TX12VT8229*         | TRIT               | TAMU                  | 3528                     | 2489              | 3888             | 9905             |
| 7                 | TAM 114             | HRWW               | TAMU                  | 3209                     | 2932              | 3682             | 9823             |
| 8                 | TX09D1172*          | HRWW               | TAMU                  | 3374                     | 2716              | 3580             | 9669             |
| 9                 | TAMcale 5019        | TRIT               | TAMU                  | 3343                     | 2510              | 3796             | 9648             |
| 10                | Texan               | TRIT               | Gaylan Ward Seed      | 3343                     | 2078              | 4186             | 9607             |
| 11                | TX12VT8222*         | TRIT               | TAMU                  | 3199                     | 2746              | 3631             | 9576             |
| 12                | TX12VT8228*         | TRIT               | TAMU                  | 3538                     | 2407              | 3538             | 9484             |
| 13                | TAMbar 501          | WB                 | TAMU                  | 3394                     | 2726              | 3322             | 9443             |
| 14                | Duster              | HRWW               | OSU                   | 3796                     | 2551              | 3055             | 9401             |
| 15                | Slick Trit          | TRIT               | Watley Seed           | 3065                     | 2428              | 3898             | 9391             |
| 16                | TX08A001249*        | HRWW               | TAMU                  | 2582                     | 2849              | 3847             | 9278             |
| 17                | WB Redhawk          | HRWW               | Monsanto              | 3127                     | 2335              | 3744             | 9206             |
| 18                | P-919**             | WB                 | Paramount Seeds       | 3199                     | 2140              | 3765             | 9103             |
| 19                | Forerunner**        | TRIT               | Weaver Seed           | 3230                     | 2397              | 3425             | 9052             |
| 20                | Weathermaster 135** | HRWW               | Unknown               | 2860                     | 2849              | 3333             | 9041             |
| 21                | SY Razor**          | HRWW               | Syngenta              | 2962                     | 2366              | 3405             | 8733             |
| 22                | TAM 401**           | HRWW               | TAMU                  | 2664                     | 2746              | 3240             | 8651             |
| 23                | Grazeall I          | TRIT               | Gaylan Ward Seed      | 3014                     | 2129              | 3446             | 8589             |
| 24                | TAM 204**           | HRWW               | TAMU                  | 3302                     | 2582              | 2592             | 8476             |
| 25                | Fannin              | HRWW               | Syngenta              | 2829                     | 2119              | 3302             | 8249             |
| 26                | WB Grainfield       | HRWW               | Monsanto              | 2808                     | 2253              | 3137             | 8198             |
| 27                | Fridge**            | TRIT               | Elliot Plant Breeding | 3436                     | 1615              | 2870             | 7920             |
| 28                | TX07CS1948*         | Oat                | TAMU                  | 2572                     | 1903              | 2798             | 7272             |
| 29                | TAMcale 6331        | TRIT               | TAMU                  | 2736                     | 2078              | 2366             | 7180             |
| 30                | Walken              | Oat                | UK                    | 2973                     | 1636              | 2510             | 7118             |
| 31                | TX07CS2257*         | Oat                | TAMU                  | 2551                     | 1646              | 2304             | 6501             |
| 32                | TX09CS031*          | Oat                | TAMU                  | 3014                     | 1070              | 1389             | 5472             |
| 33                | TX09CS1029*         | Oat                | TAMU                  | 2417                     | 720               | ---              | 3137             |
| Mean              |                     |                    |                       | 3087                     | 2365              | 3301             | 8753             |
| LSD (5%)          |                     |                    |                       | 868                      | 660               | 1110             | 1670             |
| CV (%)            |                     |                    |                       | 20                       | 20                | 24               | 14               |

\*Experimental Lines

\*\*Awnless/Beardless

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

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Total Forage Weight

**2015 Small Grains Forage Trial - Bushland (Irrigated) Clip 2 (2/13/15) Forage Quality Data**

|                   |                     |                    |                       | Dry Matter<br>Yield (lb/a) | Component of Forage (%) |                               |                            |      |                   | Ash  |
|-------------------|---------------------|--------------------|-----------------------|----------------------------|-------------------------|-------------------------------|----------------------------|------|-------------------|------|
| Rank <sup>a</sup> | Variety             | Class <sup>1</sup> | Company               |                            | Crude<br>Protein        | Neutral<br>Detergent<br>Fiber | Acid<br>Detergent<br>Fiber | TDN  | IVDM <sup>^</sup> |      |
| 1                 | Duster              | HRWW               | OSU                   | 3796                       | 22.7                    | 42.8                          | 24.5                       | 70.7 | 83.0              | 13.1 |
| 2                 | TX12VT8228*         | TRIT               | TAMU                  | 3538                       | 23.9                    | 43.9                          | 24.4                       | 71.2 | 80.3              | 14.7 |
| 3                 | TX12VT8229*         | TRIT               | TAMU                  | 3528                       | 24.0                    | 42.3                          | 26.0                       | 70.0 | 80.7              | 14.9 |
| 4                 | Fridge**            | TRIT               | Elliot Plant Breeding | 3436                       | 20.7                    | 48.9                          | 28.0                       | 67.2 | 77.1              | 14.3 |
| 5                 | TX12VT8220*         | TRIT               | TAMU                  | 3415                       | 24.7                    | 43.8                          | 23.8                       | 71.9 | 81.9              | 13.6 |
| 6                 | TAMbar 501          | WB                 | TAMU                  | 3394                       | 21.1                    | 47.2                          | 28.3                       | 67.2 | 78.8              | 14.4 |
| 7                 | TX09D1172*          | HRWW               | TAMU                  | 3374                       | 21.9                    | 45.0                          | 21.6                       | 72.6 | 80.8              | 11.5 |
| 8                 | TAMcale 5019        | TRIT               | TAMU                  | 3343                       | 25.5                    | 41.6                          | 24.3                       | 71.8 | 82.6              | 13.8 |
| 9                 | Texan               | TRIT               | Gaylan Ward Seed      | 3343                       | 22.5                    | 43.9                          | 25.4                       | 69.9 | 81.8              | 12.2 |
| 10                | TX09A001194*        | HRWW               | TAMU                  | 3312                       | 24.1                    | 45.2                          | 25.3                       | 70.6 | 79.2              | 12.4 |
| 11                | Maton II            | Rye                | Noble Foundation      | 3302                       | 25.2                    | 39.0                          | 23.2                       | 72.6 | 86.5              | 12.7 |
| 12                | TAM 204**           | HRWW               | TAMU                  | 3302                       | 24.0                    | 43.3                          | 25.5                       | 70.4 | 81.6              | 13.7 |
| 13                | Forerunner**        | TRIT               | Weaver Seed           | 3230                       | 23.0                    | 45.9                          | 24.2                       | 71.0 | 79.9              | 14.8 |
| 14                | TAM 114             | HRWW               | TAMU                  | 3209                       | 25.6                    | 42.6                          | 25.3                       | 71.2 | 82.5              | 14.9 |
| 15                | P-919**             | WB                 | Paramount Seeds       | 3199                       | 24.2                    | 42.8                          | 25.5                       | 70.5 | 82.4              | 14.5 |
| 16                | TX12VT8222*         | TRIT               | TAMU                  | 3199                       | 23.4                    | 43.5                          | 25.1                       | 70.4 | 80.5              | 14.0 |
| 17                | WB Redhawk          | HRWW               | Monsanto              | 3127                       | 21.9                    | 45.9                          | 30.1                       | 66.1 | 80.6              | 12.7 |
| 18                | Slick Trit          | TRIT               | Watley Seed           | 3065                       | 25.4                    | 42.5                          | 23.7                       | 72.3 | 82.5              | 13.9 |
| 19                | Grazeall I          | TRIT               | Gaylan Ward Seed      | 3014                       | 26.2                    | 39.9                          | 23.5                       | 72.7 | 81.2              | 13.2 |
| 20                | TX09CS031*          | Oat                | TAMU                  | 3014                       | 19.7                    | 52.9                          | 25.6                       | 68.7 | 73.4              | 12.5 |
| 21                | Walken              | Oat                | UK                    | 2973                       | 22.7                    | 47.1                          | 24.5                       | 70.7 | 81.1              | 14.6 |
| 22                | SY Razor**          | HRWW               | Syngenta              | 2962                       | 21.0                    | 44.7                          | 25.2                       | 69.5 | 78.8              | 11.8 |
| 23                | Maton               | Rye                | Noble Foundation      | 2942                       | 22.9                    | 41.0                          | 25.1                       | 70.3 | 84.7              | 12.3 |
| 24                | Weathermaster 135** | HRWW               | Unknown               | 2860                       | 22.5                    | 42.1                          | 26.3                       | 69.2 | 82.1              | 13.4 |
| 25                | Elbon               | Rye                | Noble Foundation      | 2829                       | 26.0                    | 37.0                          | 20.7                       | 74.8 | 86.7              | 12.8 |
| 26                | Fannin              | HRWW               | Syngenta              | 2829                       | 24.5                    | 45.7                          | 22.9                       | 72.6 | 81.5              | 13.3 |
| 27                | WB Grainfield       | HRWW               | Monsanto              | 2808                       | 22.1                    | 42.2                          | 26.0                       | 69.3 | 82.9              | 12.7 |
| 28                | TAMcale 6331        | TRIT               | TAMU                  | 2736                       | 22.7                    | 50.9                          | 28.4                       | 67.7 | 77.5              | 16.2 |
| 29                | TAM 401**           | HRWW               | TAMU                  | 2664                       | 24.6                    | 42.7                          | 23.0                       | 72.5 | 82.0              | 13.9 |
| 30                | TX08A001249*        | HRWW               | TAMU                  | 2582                       | 22.6                    | 42.6                          | 23.8                       | 71.1 | 80.6              | 11.5 |
| 31                | TX07CS1948*         | Oat                | TAMU                  | 2572                       | 22.0                    | 44.7                          | 23.8                       | 70.9 | 81.6              | 13.1 |
| 32                | TX07CS2257*         | Oat                | TAMU                  | 2551                       | 19.6                    | 43.9                          | 23.1                       | 70.6 | 80.7              | 13.2 |
| 33                | TX09CS1029*         | Oat                | TAMU                  | 2417                       | 19.4                    | 55.2                          | 28.1                       | 66.7 | 69.7              | 11.4 |
| Mean              |                     |                    |                       | 3087.0                     | 23.1                    | 44.3                          | 25.0                       | 70.5 | 80.8              | 13.4 |
| LSD (5%)          |                     |                    |                       | 868.0                      | NS                      | 6.2                           | 4.9                        | 5.1  | 3.3               | 2.3  |
| CV (%)            |                     |                    |                       | 20.0                       | 10.6                    | 6.8                           | 9.7                        | 3.6  | 2.0               | 8.3  |

<sup>^</sup>In Vitro True Digestibility

\*Experimental Lines

\*\*Awnless/Beardless

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

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

**2015 Small Grains Forage Trial - Bushland (Irrigated) Clip 3 (4/3/15) Forage Quality Data**

|                   |                     |                    |                       |                         | Component of Forage (%) |                         |                      |      |                   |      |
|-------------------|---------------------|--------------------|-----------------------|-------------------------|-------------------------|-------------------------|----------------------|------|-------------------|------|
| Rank <sup>a</sup> | Variety             | Class <sup>1</sup> | Company               | Dry Matter Yield (lb/a) |                         |                         |                      |      |                   |      |
|                   |                     |                    |                       |                         | Crude Protein           | Neutral Detergent Fiber | Acid Detergent Fiber | TDN  | IVDM <sup>a</sup> | Ash  |
| 1                 | Maton               | Rye                | Noble Foundation      | 3312                    | 22.6                    | 44.8                    | 24.6                 | 70.6 | 81.9              | 13.0 |
| 2                 | Maton II            | Rye                | Noble Foundation      | 3024                    | 21.5                    | 46.2                    | 24.5                 | 70.3 | 80.4              | 12.3 |
| 3                 | TX12VT8220*         | TRIT               | TAMU                  | 2993                    | 23.4                    | 43.0                    | 21.8                 | 73.0 | 81.9              | 12.2 |
| 4                 | TAM 114             | HRWW               | TAMU                  | 2932                    | 23.4                    | 43.8                    | 23.3                 | 71.8 | 81.2              | 13.0 |
| 5                 | TX09A001194*        | HRWW               | TAMU                  | 2921                    | 24.2                    | 44.7                    | 23.8                 | 71.7 | 80.0              | 14.2 |
| 6                 | TX08A001249*        | HRWW               | TAMU                  | 2849                    | 23.7                    | 45.1                    | 23.3                 | 72.0 | 79.8              | 13.3 |
| 7                 | Weathermaster 135** | HRWW               | Unknown               | 2849                    | 22.5                    | 45.1                    | 22.7                 | 72.0 | 81.1              | 11.9 |
| 8                 | Elbon               | Rye                | Noble Foundation      | 2788                    | 23.0                    | 44.9                    | 23.4                 | 71.7 | 83.1              | 13.0 |
| 9                 | TAM 401**           | HRWW               | TAMU                  | 2746                    | 23.2                    | 45.8                    | 23.0                 | 72.0 | 80.3              | 12.9 |
| 10                | TX12VT8222*         | TRIT               | TAMU                  | 2746                    | 24.7                    | 43.1                    | 24.0                 | 71.8 | 80.8              | 14.6 |
| 11                | TAMbar 501          | WB                 | TAMU                  | 2726                    | 23.7                    | 45.9                    | 24.3                 | 71.2 | 80.8              | 13.7 |
| 12                | TX09D1172*          | HRWW               | TAMU                  | 2716                    | 24.4                    | 43.6                    | 23.1                 | 72.4 | 80.8              | 13.1 |
| 13                | TAM 204**           | HRWW               | TAMU                  | 2582                    | 25.8                    | 42.8                    | 22.2                 | 73.5 | 81.4              | 12.8 |
| 14                | Duster              | HRWW               | OSU                   | 2551                    | 24.0                    | 43.8                    | 22.9                 | 72.4 | 80.6              | 12.9 |
| 15                | TAMcale 5019        | TRIT               | TAMU                  | 2510                    | 23.5                    | 45.6                    | 24.3                 | 71.1 | 80.1              | 14.4 |
| 16                | TX12VT8229*         | TRIT               | TAMU                  | 2489                    | 22.5                    | 47.3                    | 23.0                 | 71.8 | 78.3              | 13.4 |
| 17                | Slick Trit          | TRIT               | Watley Seed           | 2428                    | 25.8                    | 38.8                    | 22.5                 | 73.3 | 83.0              | 14.5 |
| 18                | TX12VT8228*         | TRIT               | TAMU                  | 2407                    | 22.1                    | 47.7                    | 27.5                 | 68.2 | 76.7              | 15.2 |
| 19                | Forerunner**        | TRIT               | Weaver Seed           | 2397                    | 25.1                    | 44.4                    | 22.5                 | 73.1 | 81.3              | 14.3 |
| 20                | SY Razor**          | HRWW               | Syngenta              | 2366                    | 24.0                    | 47.1                    | 23.4                 | 72.0 | 78.0              | 13.8 |
| 21                | WB Redhawk          | HRWW               | Monsanto              | 2335                    | 22.8                    | 45.3                    | 23.4                 | 71.5 | 80.7              | 11.9 |
| 22                | WB Grainfield       | HRWW               | Monsanto              | 2253                    | 24.3                    | 43.6                    | 22.5                 | 72.8 | 81.1              | 12.1 |
| 23                | P-919**             | WB                 | Paramount Seeds       | 2140                    | 22.5                    | 46.9                    | 24.7                 | 70.4 | 82.4              | 14.3 |
| 24                | Grazeall I          | TRIT               | Gaylan Ward Seed      | 2129                    | 26.0                    | 42.9                    | 21.5                 | 74.2 | 81.7              | 13.7 |
| 25                | Fannin              | HRWW               | Syngenta              | 2119                    | 23.9                    | 46.1                    | 23.4                 | 71.9 | 80.0              | 13.2 |
| 26                | TAMcale 6331        | TRIT               | TAMU                  | 2078                    | 24.9                    | 45.3                    | 23.7                 | 72.1 | 79.2              | 15.3 |
| 27                | Texan               | TRIT               | Gaylan Ward Seed      | 2078                    | 24.2                    | 44.0                    | 23.5                 | 72.0 | 82.2              | 14.3 |
| 28                | TX07CS1948*         | Oat                | TAMU                  | 1903                    | 19.8                    | 45.8                    | 21.8                 | 71.7 | 80.2              | 13.2 |
| 29                | TX07CS2257*         | Oat                | TAMU                  | 1646                    | 19.7                    | 46.6                    | 20.5                 | 72.7 | 80.3              | 13.0 |
| 30                | Walken              | Oat                | UK                    | 1636                    | 23.5                    | 44.4                    | 21.2                 | 73.6 | 81.4              | 13.4 |
| 31                | Fridge**            | TRIT               | Elliot Plant Breeding | 1615                    | 25.5                    | 44.2                    | 23.2                 | 72.7 | 79.7              | 14.4 |
| 32                | TX09CS031*          | Oat                | TAMU                  | 1070                    | 23.0                    | 49.3                    | 20.7                 | 73.7 | 78.8              | 13.3 |
| 33                | TX09CS1029*         | Oat                | TAMU                  | 720                     | ---                     | ---                     | ---                  | ---  | ---               | ---  |
| Mean              |                     |                    |                       | 2365.0                  | 23.5                    | 44.9                    | 23.1                 | 72.0 | 80.6              | 13.5 |
| LSD (5%)          |                     |                    |                       | 660.0                   | 1.9                     | 3.7                     | 2.6                  | 2.4  | 1.9               | 1.5  |
| CV (%)            |                     |                    |                       | 19.9                    | 4.0                     | 4.1                     | 5.5                  | 1.6  | 1.2               | 5.5  |

<sup>^</sup>In Vitro True Digestibility

\*Experimental Lines

\*\*Awnless/Beardless

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

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

## 2015 Small Grains Forage Trial - Bushland (Irrigated) Species Quality Data

### Clip 2: 2/13/15

|                   |                    | Dry Matter<br>Yield (lb/a) | Component of Forage (%) |                               |                            |      |                   |      |
|-------------------|--------------------|----------------------------|-------------------------|-------------------------------|----------------------------|------|-------------------|------|
| Rank <sup>a</sup> | Class <sup>1</sup> |                            | Crude<br>Protein        | Neutral<br>Detergent<br>Fiber | Acid<br>Detergent<br>Fiber | TDN  | IVDM <sup>^</sup> | Ash  |
| 1                 | WB                 | 3297                       | 22.7                    | 45.0                          | 26.9                       | 68.8 | 80.6              | 14.5 |
| 2                 | TRIT               | 3259                       | 23.8                    | 44.3                          | 25.2                       | 70.6 | 80.6              | 14.1 |
| 3                 | HRWW               | 3069                       | 23.1                    | 43.7                          | 25.0                       | 70.5 | 81.3              | 12.9 |
| 4                 | Rye                | 3024                       | 24.7                    | 39.0                          | 23.0                       | 72.6 | 86.0              | 12.6 |
| 5                 | Oat                | 2705                       | 20.7                    | 48.7                          | 25.0                       | 69.5 | 77.3              | 13.0 |
| Mean              |                    | 3087.0                     | 23.1                    | 44.3                          | 25.0                       | 70.5 | 80.8              | 13.4 |
| LSD (5%)          |                    | 419.9                      | 2.3                     | 3.6                           | NS                         | NS   | 2.7               | 1.2  |
| CV (%)            |                    | 19.8                       | 10.1                    | 8.2                           | 10.4                       | 3.7  | 3.4               | 9.4  |

### Clip 3: 4/3/15

|                   |                    |                         | Component of Forage (%) |                         |                      |      |                   |      |
|-------------------|--------------------|-------------------------|-------------------------|-------------------------|----------------------|------|-------------------|------|
| Rank <sup>a</sup> | Class <sup>1</sup> | Dry Matter Yield (lb/a) | Crude Protein           | Neutral Detergent Fiber | Acid Detergent Fiber | TDN  | IVDM <sup>^</sup> | Ash  |
|                   |                    |                         |                         |                         |                      |      |                   |      |
| 1                 | Rye                | 3041                    | 22.4                    | 45.3                    | 24.1                 | 70.8 | 81.8              | 12.8 |
| 2                 | HRWW               | 2602                    | 23.8                    | 44.7                    | 23.1                 | 72.2 | 80.4              | 12.9 |
| 3                 | WB                 | 2433                    | 23.1                    | 46.4                    | 24.5                 | 70.8 | 81.6              | 14.0 |
| 4                 | TRIT               | 2352                    | 24.3                    | 44.2                    | 23.4                 | 72.1 | 80.5              | 14.2 |
| 5                 | OAT                | 1395                    | 21.5                    | 46.5                    | 21.0                 | 72.9 | 80.2              | 13.3 |
| Mean              |                    | 2365.0                  | 23.5                    | 44.9                    | 23.1                 | 72.0 | 80.6              | 13.5 |
| LSD (5%)          |                    | 366.0                   | 1.4                     | 2.2                     | 1.4                  | 1.4  | NS                | 0.9  |
| CV (%)            |                    | 22.5                    | 5.8                     | 4.9                     | 6.0                  | 1.9  | 1.9               | 6.4  |

<sup>^</sup>In Vitro True Digestibility

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

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield



### 2015 Small Grains Forage Trial - Lockett (Irrigated)

| Rank <sup>a</sup> | Variety             | Class <sup>1</sup> | Company               | Dry Matter Yield (lbs/a) |                       |                  |                  |
|-------------------|---------------------|--------------------|-----------------------|--------------------------|-----------------------|------------------|------------------|
|                   |                     |                    |                       | Clip 1<br>12/5/14        | Clip 2<br>2/20/15     | Clip 3<br>4/2/15 | Total<br>3 Clips |
| 1                 | Maton II            | Rye                | Noble Foundation      | 3065                     | 3639                  | 2109             | 8813             |
| 2                 | WB Grainfield       | HRWW               | Monsanto              | 2376                     | 3149                  | 2962             | 8488             |
| 3                 | Duster              | HRWW               | OSU                   | 2633                     | 2630                  | 3045             | 8308             |
| 4                 | Maton               | Rye                | Noble Foundation      | 2253                     | 2713                  | 3312             | 8278             |
| 5                 | TAMcale 6331        | TRIT               | TAMU                  | 2736                     | 4355                  | 1173             | 8264             |
| 6                 | TAM 114             | HRWW               | TAMU                  | 2829                     | 2738                  | 2623             | 8189             |
| 7                 | Elbon               | Rye                | Noble Foundation      | 2798                     | 2376                  | 2911             | 8085             |
| 8                 | TAMcale 5019        | TRIT               | TAMU                  | 2610                     | 3145                  | 2263             | 8017             |
| 9                 | TX12VT8228*         | TRIT               | TAMU                  | 2633                     | 4029                  | 1265             | 7928             |
| 10                | P-919**             | WB                 | Paramount Seeds       | 2428                     | 2359                  | 3055             | 7841             |
| 11                | Forerunner**        | TRIT               | Weaver Seed           | 2757                     | 3414                  | 1481             | 7652             |
| 12                | TX09A001194*        | HRWW               | TAMU                  | 2808                     | 2451                  | 2304             | 7563             |
| 13                | Grazeall I          | TRIT               | Gaylan Ward Seed      | 2489                     | 2720                  | 2335             | 7544             |
| 14                | TAMO 411            | Oat                | TAMU                  | 3045                     | 2018                  | 2479             | 7541             |
| 15                | Walken              | Oat                | UK                    | 2263                     | 2623                  | 2520             | 7406             |
| 16                | TX12VT8222*         | TRIT               | TAMU                  | 2407                     | 3527                  | 1430             | 7364             |
| 17                | TX09D1172*          | HRWW               | TAMU                  | 2098                     | 1675                  | 3538             | 7311             |
| 18                | TX12VT8220*         | TRIT               | TAMU                  | 2602                     | 2737                  | 1954             | 7294             |
| 19                | Slick Trit          | TRIT               | Watley Seed           | 3086                     | 1372                  | 2777             | 7235             |
| 20                | TAMO 606            | Oat                | TAMU                  | 2428                     | 2360                  | 2407             | 7194             |
| 21                | TX12VT8229*         | TRIT               | TAMU                  | 1882                     | 3218                  | 2088             | 7188             |
| 22                | TX07CS2257*         | Oat                | TAMU                  | 2541                     | 2190                  | 2428             | 7158             |
| 23                | TX07CS1948*         | Oat                | TAMU                  | 2078                     | 2026                  | 2952             | 7056             |
| 24                | Texan               | TRIT               | Gaylan Ward Seed      | 2572                     | 1412                  | 3045             | 7028             |
| 25                | Weathermaster 135** | HRWW               | Unknown               | 2932                     | 1755                  | 2335             | 7022             |
| 26                | TX09CS031*          | Oat                | TAMU                  | 2150                     | 2199                  | 2458             | 6807             |
| 27                | TAM 204**           | HRWW               | TAMU                  | 2551                     | 1901                  | 2242             | 6694             |
| 28                | Fridge**            | TRIT               | Elliot Plant Breeding | 2777                     | 2222                  | 1677             | 6676             |
| 29                | TAMbar 501          | WB                 | TAMU                  | 2273                     | 741                   | 3652             | 6666             |
| 30                | TX08A001249*        | HRWW               | TAMU                  | 2047                     | 2017                  | 2551             | 6615             |
| 31                | SY Razor**          | HRWW               | Syngenta              | 2129                     | 2993                  | 1461             | 6583             |
| 32                | TAM 401**           | HRWW               | TAMU                  | 1831                     | 2228                  | 2242             | 6301             |
| 33                | Fannin              | HRWW               | Syngenta              | 1985                     | 1797                  | 2181             | 5963             |
| 34                | WB Redhawk          | HRWW               | Monsanto              | 2201                     | 1748                  | 1996             | 5945             |
| 35                | TX09CS1029*         | Oat                | TAMU                  | 1317                     | 2034                  | 2088             | 5439             |
| <b>Mean</b>       |                     |                    |                       | <b>2438</b>              | <b>2494</b>           | <b>2382</b>      | <b>7315</b>      |
| <b>LSD (5%)</b>   |                     |                    |                       | <b>1024</b>              | <b>965</b>            | <b>830</b>       | <b>1529</b>      |
| <b>CV (%)</b>     |                     |                    |                       | <b>30<sup>b</sup></b>    | <b>27<sup>b</sup></b> | <b>25</b>        | <b>15</b>        |

\*Experimental Lines

\*\*Awnless/Beardless

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

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>2015 Rank is based on Total Forage Weight

<sup>b</sup>Trials with a coefficient of variation (CV)  $\geq$  25% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.

**2015 Small Grains Forage Trial - Lockett (Irrigated) Clip 2 (2/20/15) Forage Quality Data**

|                   |                     |                    |                       |                         | Component of Forage (%) |                         |                      |      |                   |      |
|-------------------|---------------------|--------------------|-----------------------|-------------------------|-------------------------|-------------------------|----------------------|------|-------------------|------|
| Rank <sup>a</sup> | Variety             | Class <sup>1</sup> | Company               | Dry Matter Yield (lb/a) |                         |                         |                      |      |                   |      |
|                   |                     |                    |                       |                         | Crude Protein           | Neutral Detergent Fiber | Acid Detergent Fiber | TDN  | IVDM <sup>a</sup> | Ash  |
| 1                 | Slick Trit          | TRIT               | Watley Seed           | 3086                    | 18.4                    | 39.8                    | 23.1                 | 70.2 | 83.1              | 11.9 |
| 2                 | Maton II            | Rye                | Noble Foundation      | 3065                    | 15.6                    | 40.7                    | 24.1                 | 68.4 | 83.2              | 11.0 |
| 3                 | TAMO 411            | Oat                | TAMU                  | 3045                    | 16.7                    | 39.4                    | 22.3                 | 70.3 | 84.1              | 12.6 |
| 4                 | Weathermaster 135** | HRWW               | Unknown               | 2932                    | 13.5                    | 44.1                    | 24.9                 | 67.1 | 80.3              | 10.5 |
| 5                 | TAM 114             | HRWW               | TAMU                  | 2829                    | 15.4                    | 42.3                    | 23.1                 | 69.2 | 79.8              | 11.2 |
| 6                 | TX09A001194*        | HRWW               | TAMU                  | 2808                    | 15.9                    | 39.7                    | 22.3                 | 70.0 | 83.7              | 11.3 |
| 7                 | Elbon               | Rye                | Noble Foundation      | 2798                    | 14.5                    | 44.8                    | 23.4                 | 68.6 | 83.2              | 10.8 |
| 8                 | Fridge**            | TRIT               | Elliot Plant Breeding | 2777                    | 17.2                    | 41.8                    | 24.4                 | 68.8 | 82.4              | 12.8 |
| 9                 | Forerunner**        | TRIT               | Weaver Seed           | 2757                    | 15.8                    | 41.5                    | 26.2                 | 66.9 | 82.3              | 12.5 |
| 10                | TAMcale 6331        | TRIT               | TAMU                  | 2736                    | 16.8                    | 41.5                    | 25.1                 | 68.1 | 81.6              | 12.0 |
| 11                | Duster              | HRWW               | OSU                   | 2633                    | 18.9                    | 34.9                    | 21.5                 | 71.6 | 83.5              | 11.2 |
| 12                | TX12VT8228*         | TRIT               | TAMU                  | 2633                    | 17.0                    | 42.9                    | 25.0                 | 68.3 | 81.5              | 12.9 |
| 13                | TAMcale 5019        | TRIT               | TAMU                  | 2610                    | 16.3                    | 38.7                    | 22.3                 | 70.1 | 83.3              | 11.0 |
| 14                | TX12VT8220*         | TRIT               | TAMU                  | 2602                    | 17.4                    | 38.5                    | 23.2                 | 69.8 | 83.5              | 10.9 |
| 15                | Texan               | TRIT               | Gaylan Ward Seed      | 2572                    | 15.2                    | 43.3                    | 27.2                 | 65.9 | 82.2              | 12.2 |
| 16                | TAM 204**           | HRWW               | TAMU                  | 2551                    | 17.0                    | 41.0                    | 23.3                 | 69.6 | 83.1              | 11.5 |
| 17                | TX07CS2257*         | Oat                | TAMU                  | 2541                    | 17.1                    | 39.4                    | 21.5                 | 71.0 | 85.2              | 13.0 |
| 18                | Grazeall I          | TRIT               | Gaylan Ward Seed      | 2489                    | 15.6                    | 42.2                    | 24.7                 | 68.0 | 81.8              | 11.8 |
| 19                | P-919**             | WB                 | Paramount Seeds       | 2428                    | 17.6                    | 37.9                    | 23.0                 | 70.0 | 85.8              | 10.8 |
| 20                | TAMO 606            | Oat                | TAMU                  | 2428                    | 15.0                    | 38.7                    | 21.6                 | 70.1 | 84.2              | 10.9 |
| 21                | TX12VT8222*         | TRIT               | TAMU                  | 2407                    | 16.6                    | 43.4                    | 24.8                 | 68.3 | 82.9              | 11.7 |
| 22                | WB Grainfield       | HRWW               | Monsanto              | 2376                    | 18.4                    | 40.0                    | 24.3                 | 69.3 | 82.7              | 12.0 |
| 23                | TAMbar 501          | WB                 | TAMU                  | 2273                    | 19.5                    | 37.7                    | 24.5                 | 69.6 | 84.3              | 13.2 |
| 24                | Walken              | Oat                | UK                    | 2263                    | 17.2                    | 37.8                    | 20.2                 | 72.0 | 84.7              | 12.4 |
| 25                | Maton               | Rye                | Noble Foundation      | 2253                    | 16.0                    | 42.4                    | 24.9                 | 67.9 | 82.9              | 10.8 |
| 26                | WB Redhawk          | HRWW               | Monsanto              | 2201                    | 16.7                    | 41.7                    | 25.3                 | 67.9 | 82.5              | 11.8 |
| 27                | TX09CS031*          | Oat                | TAMU                  | 2150                    | 15.5                    | 44.1                    | 23.2                 | 69.1 | 83.8              | 12.2 |
| 28                | SY Razor**          | HRWW               | Syngenta              | 2129                    | 17.3                    | 37.4                    | 22.0                 | 70.7 | 81.8              | 11.8 |
| 29                | TX09D1172*          | HRWW               | TAMU                  | 2098                    | 14.7                    | 42.1                    | 22.7                 | 69.2 | 81.6              | 11.1 |
| 30                | TX07CS1948*         | Oat                | TAMU                  | 2078                    | 16.6                    | 41.0                    | 24.7                 | 68.3 | 83.8              | 12.4 |
| 31                | TX08A001249*        | HRWW               | TAMU                  | 2047                    | 18.3                    | 35.8                    | 21.5                 | 71.4 | 84.3              | 11.1 |
| 32                | Fannin              | HRWW               | Syngenta              | 1985                    | 16.3                    | 40.8                    | 24.1                 | 68.7 | 81.7              | 12.4 |
| 33                | TX12VT8229*         | TRIT               | TAMU                  | 1882                    | 17.4                    | 37.5                    | 22.9                 | 70.0 | 84.0              | 12.4 |
| 34                | TAM 401**           | HRWW               | TAMU                  | 1831                    | 15.7                    | 39.9                    | 22.4                 | 69.8 | 82.2              | 9.9  |
| 35                | TX09CS1029*         | Oat                | TAMU                  | 1317                    | 15.0                    | 37.3                    | 19.7                 | 71.6 | 84.3              | 12.0 |
| Mean              |                     |                    |                       | 2438.1                  | 16.5                    | 40.3                    | 23.4                 | 69.3 | 83.0              | 11.7 |
| LSD (5%)          |                     |                    |                       | 1023.9                  | NS                      | NS                      | 3.4                  | 3.2  | 2.5               | 1.7  |
| CV (%)            |                     |                    |                       | 29.5 <sup>b</sup>       | 10.7                    | 7.0                     | 7.2                  | 2.2  | 1.5               | 7.3  |

<sup>a</sup>In Vitro True Digestibility

\*Experimental Lines

\*\*Awnless/Beardless

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

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

<sup>b</sup>Trials with a coefficient of variation (CV)  $\geq$  25% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.

## 2015 Small Grains Forage Trial - Lockett (Irrigated) Species Quality Data

Clip 2: 2/20/15

| Rank <sup>a</sup> | Class <sup>1</sup> | Dry Matter<br>Yield (lb/a) | Component of Forage (%) |                               |                            |             |                   | Ash         |
|-------------------|--------------------|----------------------------|-------------------------|-------------------------------|----------------------------|-------------|-------------------|-------------|
|                   |                    |                            | Crude<br>Protein        | Neutral<br>Detergent<br>Fiber | Acid<br>Detergent<br>Fiber | TDN         | IVDM <sup>^</sup> |             |
| 1                 | Rye                | 2705                       | 15.4                    | 42.6                          | 24.2                       | 68.3        | 83.1              | 10.8        |
| 2                 | TRIT               | 2596                       | 16.7                    | 41.0                          | 24.4                       | 68.6        | 82.6              | 12.0        |
| 3                 | WB                 | 2350                       | 18.6                    | 37.8                          | 23.7                       | 69.8        | 85.1              | 12.0        |
| 4                 | HRWW               | 2342                       | 16.5                    | 40.0                          | 23.1                       | 69.5        | 82.3              | 11.3        |
| 5                 | Oat                | 2260                       | 16.2                    | 39.7                          | 21.9                       | 70.3        | 84.3              | 12.2        |
| <b>Mean</b>       |                    | <b>2438.1</b>              | <b>16.5</b>             | <b>40.3</b>                   | <b>23.4</b>                | <b>69.3</b> | <b>83.0</b>       | <b>11.7</b> |
| <b>LSD (5%)</b>   |                    | <b>490.9</b>               | <b>1.7</b>              | <b>2.9</b>                    | <b>1.8</b>                 | <b>1.6</b>  | <b>1.3</b>        | <b>0.9</b>  |
| <b>CV (%)</b>     |                    | <b>30.0<sup>b</sup></b>    | <b>10.6</b>             | <b>7.6</b>                    | <b>7.9</b>                 | <b>2.4</b>  | <b>1.6</b>        | <b>7.9</b>  |

<sup>^</sup>In Vitro True Digestibility

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

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

<sup>b</sup>Trials with a coefficient of variation (CV)  $\geq$  25% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.

### 2015 Small Grains Forage Trial - San Angelo (Dryland)

| Rank <sup>a</sup> | Variety                       | Class <sup>1</sup> | Company               | Dry Matter Yield (lbs/a) |         |                 |         |
|-------------------|-------------------------------|--------------------|-----------------------|--------------------------|---------|-----------------|---------|
|                   |                               |                    |                       | Clip 1                   | Clip 2  | Clip 3          | Total   |
|                   |                               |                    |                       | 12/20/14                 | 3/13/15 | 4/18/15         | 3 Clips |
| 1                 | Heavy Grazer 76-30            | Oat                | East Texas Seed       | 598                      | 1166    | 5993            | 9053    |
| 2                 | TAMcale 5019                  | TRIT               | TAMU                  | 570                      | 1551    | 6746            | 8866    |
| 3                 | WB Grainfield 80 lbs          | HRWW               | Monsanto              | 682                      | 1324    | 5481            | 8695    |
| 4                 | WB Grainfield 40 lbs          | HRWW               | Monsanto              | 457                      | 1008    | 6089            | 8304    |
| 5                 | Horizon 201                   | Oat                | Plantation Seed       | 562                      | 1733    | 5801            | 8096    |
| 6                 | SY Razor**                    | HRWW               | Syngenta              | 674                      | 1378    | 5865            | 7767    |
| 7                 | P-919**                       | WB                 | Paramount Seeds       | 346                      | 1688    | 5321            | 7490    |
| 8                 | TAMcale 6331                  | TRIT               | TAMU                  | 424                      | 1499    | 5553            | 7476    |
| 9                 | Maton                         | Rye                | Noble Foundation      | 1367                     | 1133    | 3848            | 7423    |
| 10                | Maton II                      | Rye                | Noble Foundation      | 430                      | 1739    | 5041            | 7210    |
| 11                | TAM 401**                     | HRWW               | TAMU                  | 584                      | 1510    | 4809            | 7079    |
| 12                | Weathermaster 135** Untreated | HRWW               | Unknown               | 900                      | 1153    | 4433            | 6861    |
| 13                | TAMO 606                      | Oat                | TAMU                  | 813                      | 1241    | 4489            | 6748    |
| 14                | Elbon                         | Rye                | Noble Foundation      | 729                      | 1147    | 4433            | 6728    |
| 15                | TAM 204**                     | HRWW               | TAMU                  | 582                      | 1347    | 4465            | 6708    |
| 16                | TAMO 411                      | Oat                | TAMU                  | 504                      | 1401    | 4473            | 6696    |
| 17                | Fridge**                      | TRIT               | Elliot Plant Breeding | 392                      | 1163    | 4665            | 6554    |
| 18                | TAM 114                       | HRWW               | TAMU                  | 603                      | 1112    | 4713            | 6428    |
| 19                | Horizon 306                   | Oat                | Plantation Seed       | 595                      | 1162    | 4761            | 6394    |
| 20                | Weathermaster 135**           | HRWW               | Unknown               | 635                      | 1134    | 4481            | 6249    |
| 21                | WB Grainfield 60 lbs          | HRWW               | Monsanto              | 702                      | 988     | 4713            | 6221    |
| 22                | TX07CS1948*                   | Oat                | TAMU                  | 502                      | 1297    | 4320            | 6120    |
| 23                | TX09CS031*                    | Oat                | TAMU                  | 430                      | 1194    | 4024            | 6080    |
| 24                | TAMbar 501                    | WB                 | TAMU                  | 534                      | 1373    | 3792            | 5942    |
| 25                | WB Grainfield 30 lbs          | HRWW               | Monsanto              | 736                      | 1062    | 4083            | 5881    |
| 26                | RAM 99016                     | Oat                | LSU                   | 617                      | 1061    | 4697            | 5767    |
| 27                | Walken                        | Oat                | UK                    | 483                      | 1127    | 4448            | 5656    |
| 28                | TX07CS2257*                   | Oat                | TAMU                  | 414                      | 1291    | 3664            | 5590    |
| 29                | Fannin                        | HRWW               | Syngenta              | 316                      | 1432    | 3864            | 5570    |
| 30                | TX09D1172*                    | HRWW               | TAMU                  | 632                      | 1038    | 3824            | 5568    |
| 31                | TX08A001249*                  | HRWW               | TAMU                  | 736                      | 1248    | 3544            | 5529    |
| 32                | Duster                        | HRWW               | OSU                   | 720                      | 1313    | 3640            | 5285    |
| 33                | WB Redhawk                    | HRWW               | Monsanto              | 478                      | 1303    | 3640            | 5253    |
| 34                | Horizon 270                   | Oat                | Plantation Seed       | 754                      | 1064    | 3432            | 5250    |
| 35                | TX09CS1029*                   | Oat                | TAMU                  | 447                      | 1297    | 3552            | 5137    |
| 36                | TX09A001194*                  | HRWW               | TAMU                  | 402                      | 1190    | 3200            | 4816    |
| 37                | Bob                           | Oat                | UA                    | 335                      | 896     | 3152            | 4192    |
| Mean              |                               |                    |                       | 574                      | 1268    | 4499            | 6502    |
| LSD (5%)          |                               |                    |                       | NS                       | 409     | 1677            | 2163    |
| CV (%)            |                               |                    |                       | 45 <sup>b</sup>          | 23      | 26 <sup>b</sup> | 20      |

\*Experimental Lines

\*\*Awnless/Beardless

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

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Total Forage Weight

<sup>b</sup>Trials with a coefficient of variation (CV) ≥ 25% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.

### 2015 Small Grains Forage Trial - College Station (Irrigated)

| Rank <sup>a</sup> | Variety <sup>1</sup> | Class <sup>2</sup> | Company               | Dry Matter Yield (lb/a) |                   |                   |                       |                  |
|-------------------|----------------------|--------------------|-----------------------|-------------------------|-------------------|-------------------|-----------------------|------------------|
|                   |                      |                    |                       | Clip 1<br>12/15/14      | Clip 2<br>2/13/15 | Clip 3<br>3/30/15 | Clip 4<br>4/23/15     | Total<br>4 Clips |
| 1                 | Gulf                 | Ryegrass           | TAMU                  | 110                     | 1266              | 3718              | 237                   | 5371             |
| 2                 | Nelson               | Ryegrass           | TAMU                  | 293                     | 1252              | 3521              | 239                   | 5333             |
| 3                 | P-919**              | WB                 | Paramount Seeds       | 479                     | 1288              | 3463              | 0                     | 5250             |
| 4                 | Prine                | Ryegrass           | UF                    | 277                     | 1361              | 3358              | 229                   | 5225             |
| 5                 | OKAY                 | Oat                | Noble Foundation      | 657                     | 1535              | 2983              | 4                     | 5121             |
| 6                 | TAMO 606             | Oat                | TAMU                  | 222                     | 1609              | 3265              | 24                    | 5120             |
| 7                 | Horizon 306          | Oat                | Plantation Seed       | 828                     | 1649              | 2742              | 27                    | 5095             |
| 8                 | TAM 114              | HRWW               | TAMU                  | 579                     | 923               | 3305              | 8                     | 5066             |
| 9                 | Horizon 201          | Oat                | Plantation Seed       | 565                     | 1444              | 3068              | 21                    | 5010             |
| 10                | TAM 90               | Ryegrass           | TAMU                  | 106                     | 1358              | 3345              | 150                   | 4968             |
| 11                | RAM 99016            | Oat                | LSU                   | 550                     | 1558              | 2767              | 37                    | 4912             |
| 12                | Bob                  | Oat                | UA                    | 701                     | 1355              | 2826              | 7                     | 4888             |
| 13                | TAMTBO               | Ryegrass           | TAMU                  | 312                     | 1215              | 3094              | 247                   | 4867             |
| 14                | Heavy Grazer 76-30   | Oat                | East Texas Seed       | 521                     | 1421              | 2904              | 15                    | 4862             |
| 15                | SunGrazer Plus       | Ryegrass           | Oregro Seeds, Inc     | 169                     | 1229              | 3186              | 146                   | 4850             |
| 16                | TAMO 411             | Oat                | TAMU                  | 368                     | 1433              | 3008              | 13                    | 4821             |
| 17                | NF 101               | TRIT               | Noble Foundation      | 609                     | 1056              | 2813              | 7                     | 4484             |
| 18                | Duster               | HRWW               | OSU                   | 299                     | 625               | 3499              | 10                    | 4433             |
| 19                | Walken               | Oat                | UK                    | 188                     | 1412              | 2729              | 21                    | 4252             |
| 20                | WB Redhawk           | HRWW               | Monsanto              | 320                     | 1802              | 1982              | 10                    | 4180             |
| 21                | TX07CS1948*          | Oat                | TAMU                  | 130                     | 1212              | 2820              | 15                    | 4177             |
| 22                | TX09CS1029*          | Oat                | TAMU                  | 429                     | 1581              | 1845              | 58                    | 4125             |
| 23                | Weathermaster 135**  | HRWW               | Unknown               | 120                     | 616               | 3349              | 10                    | 4095             |
| 24                | Fannin               | HRWW               | Syngenta              | 613                     | 909               | 2573              | 6                     | 4050             |
| 25                | TAMcale 6331         | TRIT               | TAMU                  | 648                     | 1712              | 1671              | 14                    | 4045             |
| 26                | TX07CS2257*          | Oat                | TAMU                  | 458                     | 1144              | 2369              | 52                    | 4022             |
| 27                | NF 201(NF96210)      | TRIT               | Noble Foundation      | 385                     | 1940              | 1586              | 9                     | 3920             |
| 28                | Marshal              | Ryegrass           | Wax Company           | 73                      | 890               | 2709              | 179                   | 3851             |
| 29                | Maton II             | Rye                | Noble Foundation      | 264                     | 913               | 2655              | 5                     | 3837             |
| 30                | TX09D1172*           | HRWW               | TAMU                  | 290                     | 392               | 3145              | 9                     | 3835             |
| 31                | Horizon 270          | Oat                | Plantation Seed       | 916                     | 1357              | 1984              | 27                    | 3731             |
| 32                | TAMbar 501           | WB                 | TAMU                  | 267                     | 226               | 3140              | 26                    | 3686             |
| 33                | WB Grainfield        | HRWW               | Monsanto              | 421                     | 595               | 2527              | 32                    | 3574             |
| 34                | SY Razor**           | HRWW               | Syngenta              | 294                     | 1010              | 2246              | 24                    | 3573             |
| 35                | TAM 204**            | HRWW               | TAMU                  | 253                     | 1022              | 2259              | 37                    | 3572             |
| 36                | Fridge**             | TRIT               | Elliot Plant Breeding | 1062                    | 864               | 1509              | 44                    | 3564             |
| 37                | TX08A001249*         | HRWW               | TAMU                  | 227                     | 501               | 2743              | 11                    | 3550             |
| 38                | TAMcale 5019         | TRIT               | TAMU                  | 196                     | 891               | 2419              | 13                    | 3518             |
| 39                | TX09A001194*         | HRWW               | TAMU                  | 105                     | 509               | 2886              | 11                    | 3511             |
| 40                | Maton                | Rye                | Noble Foundation      | 129                     | 591               | 2701              | 12                    | 3433             |
| 41                | Oklon                | Rye                | Noble Foundation      | 168                     | 434               | 2739              | 17                    | 3358             |
| 42                | TAM 401**            | HRWW               | TAMU                  | 451                     | 1179              | 1363              | 17                    | 3075             |
| 43                | TX09CS031*           | Oat                | TAMU                  | 198                     | 1553              | 1274              | 48                    | 3029             |
| 44                | Elbon                | Rye                | Noble Foundation      | 183                     | 385               | 2213              | 6                     | 2786             |
| 45                | Trical 348           | TRIT               | Syngenta              | 33                      | 104               | 2192              | 35                    | 2400             |
| <b>Mean</b>       |                      |                    |                       | <b>367</b>              | <b>1096</b>       | <b>2701</b>       | <b>48</b>             | <b>4178</b>      |
| <b>LSD (5%)</b>   |                      |                    |                       | <b>279</b>              | <b>375</b>        | <b>593</b>        | <b>52</b>             | <b>946</b>       |
| <b>CV (%)</b>     |                      |                    |                       | <b>54<sup>b</sup></b>   | <b>25</b>         | <b>14</b>         | <b>77<sup>b</sup></b> | <b>15</b>        |

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>All Ryegrass Varieties are Tetraploids EXCEPT Gulf, Marshal, and TAM 90.

<sup>2</sup>Hard Red Winter Wheat (HRWW)

Triticale (TRIT)

Winter Barley (WB)

Rygrass entries were all Tetraploids

<sup>a</sup>Rank is based on Total Forage Weight

<sup>b</sup>Trials with a coefficient of variation (CV)  $\geq 25\%$  contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.

**2015 Small Grains Forage Trial - College Station (Irrigated) Clip 1 (12/15/14) Forage Quality Data**

| Rank <sup>a</sup> | Variety <sup>1</sup> | Class <sup>2</sup> | Company               | Dry Matter<br>Yield (lb/a) | Component of Forage (%) |                               |                            |             |                   |             |
|-------------------|----------------------|--------------------|-----------------------|----------------------------|-------------------------|-------------------------------|----------------------------|-------------|-------------------|-------------|
|                   |                      |                    |                       |                            | Crude<br>Protein        | Neutral<br>Detergent<br>Fiber | Acid<br>Detergent<br>Fiber | TDN         | IVDM <sup>a</sup> | Ash         |
| 1                 | Fridge**             | TRIT               | Elliot Plant Breeding | 1062                       | 13.2                    | 49.8                          | 31.0                       | 62.3        | 76.3              | 9.7         |
| 2                 | Horizon 270          | Oat                | Plantation Seed       | 916                        | 16.5                    | 32.9                          | 20.3                       | 71.7        | 87.3              | 10.9        |
| 3                 | Horizon 306          | Oat                | Plantation Seed       | 828                        | 17.4                    | 34.2                          | 21.7                       | 70.9        | 87.4              | 11.4        |
| 4                 | Bob                  | Oat                | UA                    | 701                        | 19.6                    | 35.2                          | 22.0                       | 71.5        | 86.9              | 12.6        |
| 5                 | OKAY                 | Oat                | Noble Foundation      | 657                        | 15.8                    | 38.2                          | 21.5                       | 70.5        | 87.0              | 11.8        |
| 6                 | TAMcale 6331         | TRIT               | TAMU                  | 648                        | 17.6                    | 42.2                          | 24.9                       | 68.5        | 82.5              | 11.6        |
| 7                 | Fannin               | HRWW               | Syngenta              | 613                        | 17.0                    | 49.8                          | 25.7                       | 67.7        | 82.3              | 13.3        |
| 8                 | NF 101               | TRIT               | Noble Foundation      | 609                        | 18.8                    | 40.4                          | 24.2                       | 69.5        | 83.7              | 12.7        |
| 9                 | TAM 114              | HRWW               | TAMU                  | 579                        | 16.1                    | 49.2                          | 27.1                       | 66.3        | 84.0              | 13.5        |
| 10                | Horizon 201          | Oat                | Plantation Seed       | 565                        | 17.6                    | 30.6                          | 19.5                       | 72.7        | 87.9              | 10.6        |
| 11                | RAM 99016            | Oat                | LSU                   | 550                        | 18.9                    | 32.2                          | 20.3                       | 72.6        | 87.9              | 11.0        |
| 12                | Heavy Grazer 76-30   | Oat                | East Texas Seed       | 521                        | 16.7                    | 32.7                          | 19.6                       | 72.3        | 87.1              | 10.8        |
| 13                | P-919**              | WB                 | Paramount Seeds       | 479                        | 17.6                    | 39.5                          | 24.1                       | 69.1        | 87.8              | 12.0        |
| 14                | TX07CS2257*          | Oat                | TAMU                  | 458                        | 18.3                    | 33.1                          | 18.6                       | 73.6        | 87.3              | 11.2        |
| 15                | TAM 401**            | HRWW               | TAMU                  | 451                        | 16.5                    | 45.3                          | 24.5                       | 68.4        | 83.5              | 12.2        |
| 16                | TX09CS1029*          | Oat                | TAMU                  | 429                        | 18.9                    | 31.2                          | 19.6                       | 73.1        | 87.9              | 10.7        |
| 17                | WB Grainfield        | HRWW               | Monsanto              | 421                        | 16.4                    | 46.9                          | 24.1                       | 68.7        | 83.4              | 12.6        |
| 18                | NF 201(NF96210)      | TRIT               | Noble Foundation      | 385                        | 18.0                    | 41.3                          | 24.1                       | 69.3        | 84.3              | 11.8        |
| 19                | TAMO 411             | Oat                | TAMU                  | 368                        | 18.7                    | 34.6                          | 22.3                       | 71.0        | 86.5              | 12.1        |
| 20                | WB Redhawk           | HRWW               | Monsanto              | 320                        | 20.7                    | 38.9                          | 21.5                       | 72.2        | 84.8              | 12.2        |
| 21                | TAMTBO               | Ryegrass           | TAMU                  | 312                        | 19.1                    | 28.7                          | 20.4                       | 72.5        | 88.1              | 12.3        |
| 22                | Duster               | HRWW               | OSU                   | 299                        | 19.1                    | 40.9                          | 23.0                       | 70.5        | 85.0              | 12.8        |
| 23                | SY Razor**           | HRWW               | Syngenta              | 294                        | 19.4                    | 41.5                          | 23.4                       | 70.4        | 84.2              | 12.3        |
| 24                | Nelson               | Ryegrass           | TAMU                  | 293                        | 18.6                    | 26.4                          | 19.5                       | 73.0        | 88.3              | 12.8        |
| 25                | TX09D1172*           | HRWW               | TAMU                  | 290                        | 19.6                    | 43.3                          | 23.5                       | 70.3        | 85.0              | 13.3        |
| 26                | Prine                | Ryegrass           | UF                    | 277                        | 19.0                    | 28.1                          | 20.7                       | 72.3        | 88.0              | 12.7        |
| 27                | TAMbar 501           | WB                 | TAMU                  | 267                        | 18.5                    | 42.1                          | 26.0                       | 68.0        | 85.8              | 12.3        |
| 28                | Maton II             | Rye                | Noble Foundation      | 264                        | 17.5                    | 43.0                          | 23.0                       | 70.0        | 85.7              | 11.7        |
| 29                | TAM 204**            | HRWW               | TAMU                  | 253                        | 18.6                    | 45.8                          | 23.8                       | 69.7        | 83.9              | 12.7        |
| 30                | TX08A001249*         | HRWW               | TAMU                  | 227                        | 21.0                    | 42.6                          | 22.3                       | 71.8        | 85.3              | 13.1        |
| 31                | TAMO 606             | Oat                | TAMU                  | 222                        | 19.1                    | 34.9                          | 21.1                       | 72.0        | 87.0              | 11.9        |
| 32                | TX09CS031*           | Oat                | TAMU                  | 198                        | 19.5                    | 34.1                          | 19.8                       | 73.1        | 87.5              | 11.5        |
| 33                | TAMcale 5019         | TRIT               | TAMU                  | 196                        | 20.7                    | 35.3                          | 21.5                       | 72.3        | 85.8              | 12.1        |
| 34                | Walken               | Oat                | UK                    | 188                        | 17.7                    | 35.1                          | 20.7                       | 71.8        | 86.7              | 12.0        |
| 35                | Elbon                | Rye                | Noble Foundation      | 183                        | 18.1                    | 46.0                          | 24.4                       | 69.1        | 85.3              | 12.0        |
| 36                | SunGrazer Plus       | Ryegrass           | Oregro Seeds, Inc     | 169                        | 19.8                    | 28.0                          | 20.3                       | 72.9        | 87.8              | 12.8        |
| 37                | Oklon                | Rye                | Noble Foundation      | 168                        | 18.6                    | 43.8                          | 21.7                       | 71.3        | 85.4              | 11.9        |
| 38                | TX07CS1948*          | Oat                | TAMU                  | 130                        | 18.2                    | 34.1                          | 19.5                       | 72.9        | 86.1              | 11.1        |
| 39                | Maton                | Rye                | Noble Foundation      | 129                        | 18.7                    | 43.9                          | 23.5                       | 70.0        | 85.8              | 12.1        |
| 40                | Weathermaster 135**  | HRWW               | Unknown               | 120                        | 20.2                    | 42.4                          | 23.9                       | 70.2        | 85.0              | 13.2        |
| 41                | Gulf                 | Ryegrass           | TAMU                  | 110                        | 20.6                    | 29.6                          | 20.8                       | 72.8        | 87.5              | 13.3        |
| 42                | TAM 90               | Ryegrass           | TAMU                  | 106                        | 19.7                    | 28.9                          | 20.1                       | 73.0        | 87.4              | 12.5        |
| 43                | TX09A001194*         | HRWW               | TAMU                  | 105                        | 19.6                    | 42.7                          | 22.4                       | 71.2        | 85.4              | 13.1        |
| 44                | Marshal              | Ryegrass           | Wax Company           | 73                         | 21.2                    | 28.0                          | 20.2                       | 73.5        | 88.1              | 13.4        |
| 45                | Trical 348           | TRIT               | Syngenta              | 33                         | ---                     | ---                           | ---                        | ---         | ---               | ---         |
|                   |                      |                    |                       | <b>Mean</b>                | <b>366.9</b>            | <b>18.4</b>                   | <b>38.0</b>                | <b>22.4</b> | <b>70.8</b>       | <b>85.8</b> |
|                   |                      |                    |                       | <b>LSD (5%)</b>            | <b>278.8</b>            | <b>2.3</b>                    | <b>3.0</b>                 | <b>2.1</b>  | <b>1.8</b>        | <b>0.9</b>  |
|                   |                      |                    |                       | <b>CV (%)</b>              | <b>53.9<sup>b</sup></b> | <b>6.0</b>                    | <b>3.9</b>                 | <b>4.5</b>  | <b>1.2</b>        | <b>3.5</b>  |

<sup>a</sup>In Vitro True Digestibility

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>All Ryegrass Varieties are Tetraploids EXCEPT Gulf, Marshal, and TAM 90.

<sup>2</sup>Hard Red Winter Wheat (HRWW)

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

<sup>b</sup>Trials with a coefficient of variation (CV)  $\geq$  25% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.

**2015 Small Grains Forage Trial - College Station (Irrigated) Clip 2 (2/13/15) Forage Quality Data**

| Rank <sup>a</sup> | Variety <sup>1</sup> | Class <sup>2</sup> | Company               | Dry Matter<br>Yield (lb/a) | Component of Forage (%) |                               |                            |             |                   |             |
|-------------------|----------------------|--------------------|-----------------------|----------------------------|-------------------------|-------------------------------|----------------------------|-------------|-------------------|-------------|
|                   |                      |                    |                       |                            | Crude<br>Protein        | Neutral<br>Detergent<br>Fiber | Acid<br>Detergent<br>Fiber | TDN         | IVDM <sup>a</sup> | Ash         |
| 1                 | NF 201(NF96210)      | TRIT               | Noble Foundation      | 1940                       | 19.9                    | 42.7                          | 24.0                       | 70.1        | 82.7              | 10.7        |
| 2                 | WB Redhawk           | HRWW               | Monsanto              | 1802                       | 20.3                    | 39.3                          | 22.3                       | 71.5        | 83.0              | 10.6        |
| 3                 | TAMcale 6331         | TRIT               | TAMU                  | 1712                       | 20.7                    | 40.9                          | 23.1                       | 71.1        | 82.2              | 11.3        |
| 4                 | Horizon 306          | Oat                | Plantation Seed       | 1649                       | 22.8                    | 35.3                          | 18.8                       | 75.1        | 86.8              | 12.1        |
| 5                 | TAMO 606             | Oat                | TAMU                  | 1609                       | 20.5                    | 34.8                          | 19.1                       | 74.1        | 86.9              | 11.4        |
| 6                 | TX09CS1029*          | Oat                | TAMU                  | 1581                       | 21.3                    | 35.7                          | 19.1                       | 74.3        | 85.8              | 11.3        |
| 7                 | RAM 99016            | Oat                | LSU                   | 1558                       | 22.4                    | 34.6                          | 18.7                       | 75.0        | 87.0              | 11.6        |
| 8                 | TX09CS031*           | Oat                | TAMU                  | 1553                       | 21.2                    | 35.4                          | 18.4                       | 74.9        | 85.9              | 11.2        |
| 9                 | OKAY                 | Oat                | Noble Foundation      | 1535                       | 19.5                    | 37.8                          | 19.6                       | 73.3        | 85.9              | 10.7        |
| 10                | Horizon 201          | Oat                | Plantation Seed       | 1444                       | 21.0                    | 34.8                          | 17.9                       | 75.1        | 86.4              | 11.5        |
| 11                | TAMO 411             | Oat                | TAMU                  | 1433                       | 21.6                    | 35.1                          | 20.3                       | 73.5        | 86.7              | 11.5        |
| 12                | Heavy Grazer 76-30   | Oat                | East Texas Seed       | 1421                       | 20.5                    | 36.5                          | 19.4                       | 73.8        | 86.9              | 11.3        |
| 13                | Walken               | Oat                | UK                    | 1412                       | 22.3                    | 35.3                          | 18.4                       | 75.2        | 86.8              | 11.9        |
| 14                | Prine                | Ryegrass           | UF                    | 1361                       | 24.1                    | 28.4                          | 19.5                       | 75.1        | 87.7              | 14.2        |
| 15                | TAM 90               | Ryegrass           | TAMU                  | 1358                       | 24.1                    | 31.6                          | 20.3                       | 74.4        | 86.7              | 13.3        |
| 16                | Horizon 270          | Oat                | Plantation Seed       | 1357                       | 20.8                    | 32.7                          | 18.4                       | 74.7        | 86.2              | 11.0        |
| 17                | Bob                  | Oat                | UA                    | 1355                       | 23.6                    | 36.3                          | 19.9                       | 74.6        | 86.3              | 12.5        |
| 18                | P-919**              | WB                 | Paramount Seeds       | 1288                       | 20.0                    | 38.2                          | 22.0                       | 71.6        | 87.0              | 11.1        |
| 19                | Gulf                 | Ryegrass           | TAMU                  | 1266                       | 24.4                    | 31.1                          | 19.5                       | 75.1        | 87.3              | 13.4        |
| 20                | Nelson               | Ryegrass           | TAMU                  | 1252                       | 23.9                    | 27.4                          | 17.7                       | 76.4        | 87.8              | 13.2        |
| 21                | SunGrazer Plus       | Ryegrass           | Oregro Seeds, Inc     | 1229                       | 22.1                    | 28.3                          | 19.0                       | 74.7        | 87.6              | 12.3        |
| 22                | TAMTBO               | Ryegrass           | TAMU                  | 1215                       | 24.3                    | 28.2                          | 18.5                       | 75.8        | 87.5              | 13.4        |
| 23                | TX07CS1948*          | Oat                | TAMU                  | 1212                       | 21.6                    | 35.7                          | 17.8                       | 75.5        | 86.9              | 11.1        |
| 24                | TAM 401**            | HRWW               | TAMU                  | 1179                       | 20.9                    | 42.2                          | 22.4                       | 71.7        | 84.0              | 11.2        |
| 25                | TX07CS2257*          | Oat                | TAMU                  | 1144                       | 20.4                    | 36.0                          | 18.6                       | 74.4        | 86.6              | 11.0        |
| 26                | NF 101               | TRIT               | Noble Foundation      | 1056                       | 21.9                    | 40.5                          | 21.1                       | 73.0        | 82.7              | 12.3        |
| 27                | TAM 204**            | HRWW               | TAMU                  | 1022                       | 23.2                    | 38.8                          | 20.8                       | 73.7        | 84.5              | 11.9        |
| 28                | SY Razor**           | HRWW               | Syngenta              | 1010                       | 22.5                    | 37.9                          | 20.1                       | 74.0        | 84.8              | 11.1        |
| 29                | TAM 114              | HRWW               | TAMU                  | 923                        | 22.2                    | 40.1                          | 19.9                       | 74.0        | 84.6              | 12.0        |
| 30                | Maton II             | Rye                | Noble Foundation      | 913                        | 21.0                    | 38.9                          | 20.5                       | 73.2        | 84.4              | 10.9        |
| 31                | Fannin               | HRWW               | Syngenta              | 909                        | 21.8                    | 41.3                          | 21.2                       | 72.9        | 83.8              | 12.3        |
| 32                | TAMcale 5019         | TRIT               | TAMU                  | 891                        | 23.2                    | 36.1                          | 18.7                       | 75.3        | 85.7              | 10.9        |
| 33                | Marshal              | Ryegrass           | Wax Company           | 890                        | 22.9                    | 28.4                          | 18.7                       | 75.2        | 87.5              | 12.6        |
| 34                | Fridge**             | TRIT               | Elliot Plant Breeding | 864                        | 19.9                    | 39.8                          | 22.9                       | 70.9        | 83.0              | 10.9        |
| 35                | Duster               | HRWW               | OSU                   | 625                        | 23.0                    | 38.1                          | 19.4                       | 74.7        | 85.0              | 11.8        |
| 36                | Weathermaster 135**  | HRWW               | Unknown               | 616                        | 24.8                    | 37.3                          | 19.3                       | 75.4        | 86.0              | 12.2        |
| 37                | WB Grainfield        | HRWW               | Monsanto              | 595                        | 23.2                    | 38.8                          | 19.2                       | 74.9        | 84.8              | 11.7        |
| 38                | Maton                | Rye                | Noble Foundation      | 591                        | 23.8                    | 38.8                          | 20.4                       | 74.3        | 85.6              | 11.4        |
| 39                | TX09A001194*         | HRWW               | TAMU                  | 509                        | 25.1                    | 37.7                          | 19.5                       | 75.4        | 85.7              | 12.5        |
| 40                | TX08A001249*         | HRWW               | TAMU                  | 501                        | 25.1                    | 35.8                          | 17.6                       | 76.8        | 85.6              | 12.0        |
| 41                | Oklon                | Rye                | Noble Foundation      | 434                        | 23.9                    | 37.8                          | 19.7                       | 74.8        | 86.1              | 11.7        |
| 42                | TX09D1172*           | HRWW               | TAMU                  | 392                        | 24.7                    | 37.5                          | 18.2                       | 76.3        | 85.8              | 12.2        |
| 43                | Elbon                | Rye                | Noble Foundation      | 385                        | 23.3                    | 39.3                          | 18.9                       | 75.2        | 85.8              | 11.6        |
| 44                | TAMbar 501           | WB                 | TAMU                  | 226                        | 24.8                    | 36.8                          | 18.9                       | 75.7        | 85.8              | 11.6        |
| 45                | Trical 348           | TRIT               | Syngenta              | 104                        | 26.9                    | 33.8                          | 16.6                       | 78.3        | 87.1              | 11.6        |
| <b>Mean</b>       |                      |                    |                       | <b>1095.9</b>              | <b>22.5</b>             | <b>36.2</b>                   | <b>19.7</b>                | <b>74.3</b> | <b>85.8</b>       | <b>11.8</b> |
| <b>LSD (5%)</b>   |                      |                    |                       | <b>375.4</b>               | <b>2.5</b>              | <b>2.3</b>                    | <b>1.7</b>                 | <b>1.6</b>  | <b>1.4</b>        | <b>1.0</b>  |
| <b>CV (%)</b>     |                      |                    |                       | <b>24.5</b>                | <b>5.5</b>              | <b>3.2</b>                    | <b>4.3</b>                 | <b>1.1</b>  | <b>0.8</b>        | <b>5.8</b>  |

<sup>a</sup>In Vitro True Digestibility

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>All Ryegrass Varieties are Tetraploids EXCEPT Gulf, Marshal, and TAM 90.

<sup>2</sup>Hard Red Winter Wheat (HRWW)

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

**2015 Small Grains Forage Trial - College Station (Irrigated) Clip 3 (3/30/15) Forage Quality Data**

| Rank <sup>a</sup> | Variety <sup>1</sup> | Class <sup>2</sup> | Company               | Dry Matter<br>Yield (lb/a) | Component of Forage (%) |                               |                            |             |                   |             |
|-------------------|----------------------|--------------------|-----------------------|----------------------------|-------------------------|-------------------------------|----------------------------|-------------|-------------------|-------------|
|                   |                      |                    |                       |                            | Crude<br>Protein        | Neutral<br>Detergent<br>Fiber | Acid<br>Detergent<br>Fiber | TDN         | IVDM <sup>a</sup> | Ash         |
| 1                 | Gulf                 | Ryegrass           | TAMU                  | 3718                       | 17.6                    | 41.9                          | 28.1                       | 66.1        | 82.2              | 13.1        |
| 2                 | Nelson               | Ryegrass           | TAMU                  | 3521                       | 19.6                    | 38.9                          | 27.4                       | 67.3        | 83.0              | 13.8        |
| 3                 | Duster               | HRWW               | OSU                   | 3499                       | 15.3                    | 49.2                          | 31.5                       | 62.7        | 76.2              | 10.7        |
| 4                 | P-919**              | WB                 | Paramount Seeds       | 3463                       | 13.3                    | 51.6                          | 34.7                       | 59.5        | 76.3              | 10.5        |
| 5                 | Prine                | Ryegrass           | UF                    | 3358                       | 18.7                    | 39.1                          | 27.8                       | 66.7        | 83.0              | 12.8        |
| 6                 | Weathermaster 135**  | HRWW               | Unknown               | 3349                       | 18.2                    | 44.0                          | 29.3                       | 65.4        | 79.1              | 12.0        |
| 7                 | TAM 90               | Ryegrass           | TAMU                  | 3345                       | 17.4                    | 42.0                          | 28.5                       | 65.7        | 82.1              | 13.0        |
| 8                 | TAM 114              | HRWW               | TAMU                  | 3305                       | 14.6                    | 49.3                          | 31.9                       | 62.0        | 77.3              | 11.3        |
| 9                 | TAMO 606             | Oat                | TAMU                  | 3265                       | 17.9                    | 38.9                          | 25.4                       | 68.2        | 84.6              | 11.6        |
| 10                | SunGrazer Plus       | Ryegrass           | Oregro Seeds, Inc     | 3186                       | 19.0                    | 39.8                          | 26.1                       | 68.2        | 82.8              | 13.6        |
| 11                | TX09D1172*           | HRWW               | TAMU                  | 3145                       | 16.8                    | 46.8                          | 29.2                       | 64.9        | 78.3              | 11.1        |
| 12                | TAMbar 501           | WB                 | TAMU                  | 3140                       | 18.3                    | 40.4                          | 26.2                       | 67.8        | 84.1              | 11.2        |
| 13                | TAMTBO               | Ryegrass           | TAMU                  | 3094                       | 19.6                    | 38.2                          | 26.3                       | 68.2        | 83.6              | 13.6        |
| 14                | Horizon 201          | Oat                | Plantation Seed       | 3068                       | 16.5                    | 39.5                          | 27.4                       | 66.2        | 82.7              | 11.1        |
| 15                | TAMO 411             | Oat                | TAMU                  | 3008                       | 16.1                    | 41.3                          | 27.4                       | 66.1        | 83.2              | 11.0        |
| 16                | OKAY                 | Oat                | Noble Foundation      | 2983                       | 15.8                    | 42.2                          | 26.4                       | 66.8        | 83.0              | 10.9        |
| 17                | Heavy Grazer 76-30   | Oat                | East Texas Seed       | 2904                       | 16.5                    | 40.0                          | 26.9                       | 66.6        | 83.7              | 10.3        |
| 18                | TX09A001194*         | HRWW               | TAMU                  | 2886                       | 16.3                    | 49.6                          | 32.2                       | 62.4        | 76.1              | 12.2        |
| 19                | Bob                  | Oat                | UA                    | 2826                       | 17.2                    | 41.5                          | 26.9                       | 66.8        | 82.6              | 11.3        |
| 20                | TX07CS1948*          | Oat                | TAMU                  | 2820                       | 15.8                    | 43.3                          | 25.9                       | 67.1        | 81.9              | 9.8         |
| 21                | NF 101               | TRIT               | Noble Foundation      | 2813                       | 16.6                    | 47.2                          | 32.1                       | 62.6        | 75.3              | 10.3        |
| 22                | RAM 99016            | Oat                | LSU                   | 2767                       | 16.2                    | 42.2                          | 25.7                       | 67.4        | 84.1              | 11.0        |
| 23                | TX08A001249*         | HRWW               | TAMU                  | 2743                       | 17.5                    | 47.2                          | 29.5                       | 65.0        | 77.5              | 11.1        |
| 24                | Horizon 306          | Oat                | Plantation Seed       | 2742                       | 18.0                    | 41.2                          | 27.1                       | 67.0        | 83.1              | 11.2        |
| 25                | Oklon                | Rye                | Noble Foundation      | 2739                       | 18.2                    | 46.4                          | 29.4                       | 65.3        | 80.5              | 10.5        |
| 26                | Walken               | Oat                | UK                    | 2729                       | 16.2                    | 41.6                          | 26.0                       | 67.2        | 85.7              | 11.9        |
| 27                | Marshal              | Ryegrass           | Wax Company           | 2709                       | 17.6                    | 38.9                          | 25.9                       | 67.8        | 83.5              | 12.2        |
| 28                | Maton                | Rye                | Noble Foundation      | 2701                       | 16.9                    | 49.9                          | 31.9                       | 62.9        | 76.5              | 9.8         |
| 29                | Maton II             | Rye                | Noble Foundation      | 2655                       | 16.5                    | 48.5                          | 30.5                       | 63.8        | 78.3              | 10.4        |
| 30                | Fannin               | HRWW               | Syngenta              | 2573                       | 17.0                    | 46.1                          | 30.4                       | 64.1        | 76.7              | 10.9        |
| 31                | WB Grainfield        | HRWW               | Monsanto              | 2527                       | 17.7                    | 46.1                          | 27.4                       | 66.6        | 80.0              | 12.1        |
| 32                | TAMcale 5019         | TRIT               | TAMU                  | 2419                       | 18.7                    | 45.5                          | 28.1                       | 66.5        | 80.1              | 11.8        |
| 33                | TX07CS2257*          | Oat                | TAMU                  | 2369                       | 15.8                    | 41.6                          | 25.5                       | 67.4        | 83.1              | 10.6        |
| 34                | TAM 204**            | HRWW               | TAMU                  | 2259                       | 17.5                    | 45.2                          | 27.7                       | 66.4        | 79.5              | 11.3        |
| 35                | SY Razor**           | HRWW               | Syngenta              | 2246                       | 17.3                    | 45.2                          | 29.4                       | 65.0        | 78.1              | 10.6        |
| 36                | Elbon                | Rye                | Noble Foundation      | 2213                       | 17.3                    | 48.2                          | 30.7                       | 64.0        | 77.6              | 10.1        |
| 37                | Trical 348           | TRIT               | Syngenta              | 2192                       | 20.2                    | 45.0                          | 27.5                       | 67.4        | 82.7              | 12.1        |
| 38                | Horizon 270          | Oat                | Plantation Seed       | 1984                       | 17.8                    | 35.1                          | 22.6                       | 70.4        | 84.4              | 10.4        |
| 39                | WB Redhawk           | HRWW               | Monsanto              | 1982                       | 19.0                    | 45.0                          | 29.7                       | 65.3        | 79.1              | 12.2        |
| 40                | TX09CS1029*          | Oat                | TAMU                  | 1845                       | 18.1                    | 37.2                          | 23.4                       | 69.9        | 85.6              | 10.7        |
| 41                | TAMcale 6331         | TRIT               | TAMU                  | 1671                       | 19.0                    | 44.6                          | 27.8                       | 66.8        | 81.6              | 11.9        |
| 42                | NF 201(NF96210)      | TRIT               | Noble Foundation      | 1586                       | 18.1                    | 46.3                          | 29.1                       | 65.5        | 80.1              | 11.1        |
| 43                | Fridge**             | TRIT               | Elliot Plant Breeding | 1509                       | 19.9                    | 42.7                          | 26.8                       | 67.9        | 82.6              | 12.1        |
| 44                | TAM 401**            | HRWW               | TAMU                  | 1363                       | 17.7                    | 43.5                          | 28.0                       | 66.2        | 78.7              | 10.7        |
| 45                | TX09CS031*           | Oat                | TAMU                  | 1274                       | 17.1                    | 40.4                          | 25.1                       | 68.2        | 84.0              | 11.0        |
| <b>Mean</b>       |                      |                    |                       | <b>2701.0</b>              | <b>17.4</b>             | <b>43.5</b>                   | <b>28.1</b>                | <b>66.0</b> | <b>81.0</b>       | <b>11.4</b> |
| <b>LSD (5%)</b>   |                      |                    |                       | <b>593.1</b>               | <b>2.3</b>              | <b>3.8</b>                    | <b>2.7</b>                 | <b>2.5</b>  | <b>2.5</b>        | <b>1.3</b>  |
| <b>CV (%)</b>     |                      |                    |                       | <b>14.1</b>                | <b>6.6</b>              | <b>4.4</b>                    | <b>4.7</b>                 | <b>1.8</b>  | <b>1.5</b>        | <b>5.6</b>  |

<sup>a</sup>In Vitro True Digestibility

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>All Ryegrass Varieties are Tetraploids EXCEPT Gulf, Marshal, and TAM 90.

<sup>2</sup>Hard Red Winter Wheat (HRWW)

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield



**2015 Small Grains Forage Trial - College Station (Irrigated) Clip 4 (4/23/15) Forage Quality Data**

| Rank <sup>a</sup> | Variety <sup>1</sup> | Class <sup>2</sup> | Company               | Dry Matter<br>Yield (lb/a) | Component of Forage (%) |                               |                            |             |                   |             |
|-------------------|----------------------|--------------------|-----------------------|----------------------------|-------------------------|-------------------------------|----------------------------|-------------|-------------------|-------------|
|                   |                      |                    |                       |                            | Crude<br>Protein        | Neutral<br>Detergent<br>Fiber | Acid<br>Detergent<br>Fiber | TDN         | IVDM <sup>a</sup> | Ash         |
| 1                 | TAMTBO               | Ryegrass           | TAMU                  | 247                        | 10.4                    | 46.7                          | 31.7                       | 60.7        | 75.0              | 9.9         |
| 2                 | Nelson               | Ryegrass           | TAMU                  | 239                        | 9.7                     | 46.4                          | 31.2                       | 60.8        | 74.5              | 8.7         |
| 3                 | Gulf                 | Ryegrass           | TAMU                  | 237                        | 9.0                     | 49.7                          | 34.4                       | 58.1        | 71.8              | 8.8         |
| 4                 | Prine                | Ryegrass           | UF                    | 229                        | 8.5                     | 48.1                          | 32.2                       | 59.7        | 73.4              | 8.9         |
| 5                 | Marshal              | Ryegrass           | Wax Company           | 179                        | 7.3                     | 50.3                          | 33.1                       | 58.5        | 71.0              | 8.1         |
| 6                 | TAM 90               | Ryegrass           | TAMU                  | 150                        | 9.7                     | 50.4                          | 33.4                       | 59.1        | 72.3              | 8.9         |
| 7                 | SunGrazer Plus       | Ryegrass           | Oregro Seeds, Inc     | 146                        | 7.8                     | 49.3                          | 32.8                       | 58.9        | 72.7              | 8.7         |
| 8                 | TX09CS1029*          | Oat                | TAMU                  | 58                         | 12.4                    | 51.3                          | 30.5                       | 62.4        | 75.4              | 10.2        |
| 9                 | TX07CS2257*          | Oat                | TAMU                  | 52                         | 12.1                    | 51.9                          | 32.0                       | 61.1        | 73.5              | 9.9         |
| 10                | TX09CS031*           | Oat                | TAMU                  | 48                         | 10.5                    | 55.2                          | 29.5                       | 62.4        | 74.2              | 9.4         |
| 11                | Fridge**             | TRIT               | Elliot Plant Breeding | 44                         | 14.0                    | 52.0                          | 31.6                       | 62.1        | 74.6              | 11.0        |
| 12                | RAM 99016            | Oat                | LSU                   | 37                         | 11.4                    | 54.1                          | 32.0                       | 60.9        | 73.2              | 10.4        |
| 13                | TAM 204**            | HRWW               | TAMU                  | 37                         | 15.1                    | 49.8                          | 32.0                       | 62.1        | 72.6              | 10.9        |
| 14                | Trical 348           | TRIT               | Syngenta              | 35                         | 15.3                    | 49.2                          | 29.8                       | 63.9        | 76.7              | 10.9        |
| 15                | WB Grainfield        | HRWW               | Monsanto              | 32                         | 14.9                    | 48.7                          | 31.0                       | 62.9        | 74.2              | 11.6        |
| 16                | Horizon 306          | Oat                | Plantation Seed       | 27                         | 13.8                    | 50.8                          | 30.0                       | 63.2        | 75.7              | 10.5        |
| 17                | Horizon 270          | Oat                | Plantation Seed       | 27                         | 11.6                    | 56.4                          | 31.2                       | 61.6        | 73.8              | 10.9        |
| 18                | TAMbar 501           | WB                 | TAMU                  | 26                         | 11.1                    | 54.5                          | 33.0                       | 60.0        | 70.8              | 9.8         |
| 19                | TAMO 606             | Oat                | TAMU                  | 24                         | 12.5                    | 53.6                          | 32.8                       | 60.6        | 73.0              | 10.6        |
| 20                | SY Razor**           | HRWW               | Syngenta              | 24                         | 15.0                    | 52.6                          | 33.0                       | 61.4        | 70.2              | 10.4        |
| 21                | Walken               | Oat                | UK                    | 21                         | 11.4                    | 54.3                          | 28.7                       | 63.4        | 78.6              | 13.4        |
| 22                | Horizon 201          | Oat                | Plantation Seed       | 21                         | 13.4                    | 52.0                          | 32.6                       | 61.1        | 74.2              | 10.4        |
| 23                | Oklon                | Rye                | Noble Foundation      | 17                         | 14.1                    | 54.6                          | 31.6                       | 62.1        | 72.7              | 9.3         |
| 24                | TAM 401**            | HRWW               | TAMU                  | 17                         | 15.4                    | 50.4                          | 31.4                       | 62.8        | 70.3              | 9.9         |
| 25                | Heavy Grazer 76-30   | Oat                | East Texas Seed       | 15                         | 13.5                    | 49.9                          | 31.0                       | 62.4        | 74.4              | 10.3        |
| 26                | TX07CS1948*          | Oat                | TAMU                  | 15                         | 13.4                    | 50.5                          | 31.0                       | 62.4        | 72.7              | 10.0        |
| 27                | TAMcale 6331         | TRIT               | TAMU                  | 14                         | 14.3                    | 52.5                          | 31.7                       | 62.1        | 73.5              | 10.1        |
| 28                | TAMO 411             | Oat                | TAMU                  | 13                         | 13.7                    | 51.8                          | 31.5                       | 62.0        | 75.0              | 10.7        |
| 29                | TAMcale 5019         | TRIT               | TAMU                  | 13                         | 16.0                    | 49.9                          | 30.0                       | 64.1        | 74.4              | 10.6        |
| 30                | Maton                | Rye                | Noble Foundation      | 12                         | 14.3                    | 54.3                          | 34.1                       | 60.3        | 71.6              | 9.4         |
| 31                | TX08A001249*         | HRWW               | TAMU                  | 11                         | 15.3                    | 51.8                          | 32.4                       | 61.9        | 71.2              | 10.8        |
| 32                | TX09A001194*         | HRWW               | TAMU                  | 11                         | 15.2                    | 52.2                          | 31.3                       | 62.7        | 71.1              | 10.4        |
| 33                | Weathermaster 135**  | HRWW               | Unknown               | 10                         | 16.7                    | 45.1                          | 29.6                       | 64.6        | 75.5              | 12.4        |
| 34                | Duster               | HRWW               | OSU                   | 10                         | 14.2                    | 53.5                          | 34.4                       | 60.1        | 70.1              | 11.3        |
| 35                | WB Redhawk           | HRWW               | Monsanto              | 10                         | 15.6                    | 49.7                          | 31.7                       | 62.6        | 70.6              | 10.1        |
| 36                | NF 201(NF96210)      | TRIT               | Noble Foundation      | 9                          | 13.5                    | 56.2                          | 32.2                       | 61.4        | 70.4              | 9.7         |
| 37                | TX09D1172*           | HRWW               | TAMU                  | 9                          | 15.4                    | 51.0                          | 32.1                       | 62.2        | 72.4              | 10.8        |
| 38                | TAM 114              | HRWW               | TAMU                  | 8                          | 14.5                    | 52.6                          | 32.4                       | 61.7        | 72.4              | 11.0        |
| 39                | NF 101               | TRIT               | Noble Foundation      | 7                          | 14.7                    | 52.7                          | 35.1                       | 59.7        | 68.3              | 9.9         |
| 40                | Bob                  | Oat                | UA                    | 7                          | 13.3                    | 53.8                          | 31.5                       | 61.9        | 73.5              | 10.4        |
| 41                | Fannin               | HRWW               | Syngenta              | 6                          | 15.3                    | 51.9                          | 34.0                       | 60.7        | 70.2              | 10.5        |
| 42                | Elbon                | Rye                | Noble Foundation      | 6                          | 14.5                    | 53.2                          | 31.3                       | 62.5        | 73.8              | 9.5         |
| 43                | Maton II             | Rye                | Noble Foundation      | 5                          | 15.7                    | 52.3                          | 31.2                       | 63.0        | 74.1              | 10.1        |
| 44                | OKAY                 | Oat                | Noble Foundation      | 4                          | 12.2                    | 54.7                          | 30.6                       | 62.2        | 74.9              | 10.9        |
| 45                | P-919**              | WB                 | Paramount Seeds       | 0                          | ---                     | ---                           | ---                        | ---         | ---               | ---         |
| <b>Mean</b>       |                      |                    |                       | <b>48.1</b>                | <b>13.1</b>             | <b>51.6</b>                   | <b>31.8</b>                | <b>61.6</b> | <b>73.1</b>       | <b>10.2</b> |
| <b>LSD (5%)</b>   |                      |                    |                       | <b>51.5</b>                | <b>2.3</b>              | <b>4.0</b>                    | <b>3.0</b>                 | <b>2.8</b>  | <b>2.4</b>        | <b>1.2</b>  |
| <b>CV (%)</b>     |                      |                    |                       | <b>76.6<sup>b</sup></b>    | <b>8.6</b>              | <b>3.8</b>                    | <b>4.7</b>                 | <b>2.3</b>  | <b>1.7</b>        | <b>6.0</b>  |

<sup>a</sup>In Vitro True Digestibility

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>All Ryegrass Varieties are Tetraploids EXCEPT Gulf, Marshal, and TAM 90.

<sup>2</sup>Hard Red Winter Wheat (HRWW)

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

<sup>b</sup>Trials with a coefficient of variation (CV)  $\geq$  25% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.

**2015 Small Grains Forage Trial - College Station (Irrigated) Species Quality Data**

**Clip 1: 12/15/14**

| Rank <sup>a</sup> | Class <sup>1</sup> | Dry Matter Yield (lb/a) | Component of Forage (%) |                         |                      |             |                   |
|-------------------|--------------------|-------------------------|-------------------------|-------------------------|----------------------|-------------|-------------------|
|                   |                    |                         | Crude Protein           | Neutral Detergent Fiber | Acid Detergent Fiber | TDN         | IVDM <sup>a</sup> |
| 1                 | TRIT               | 489                     | 17.8                    | 42.1                    | 24.6                 | 68.9        | 83.0              |
| 2                 | Oat                | 482                     | 18.1                    | 33.8                    | 20.5                 | 72.1        | 87.2              |
| 3                 | WB                 | 373                     | 18.1                    | 40.8                    | 25.1                 | 68.6        | 86.8              |
| 4                 | HRWW               | 331                     | 18.7                    | 44.1                    | 23.8                 | 69.8        | 84.3              |
| 5                 | Ryegrass           | 194                     | 19.6                    | 28.3                    | 20.3                 | 72.8        | 87.9              |
| 6                 | Rye                | 186                     | 18.1                    | 44.3                    | 23.6                 | 69.7        | 85.6              |
| <b>Mean</b>       |                    | <b>367.0</b>            | <b>18.4</b>             | <b>38.0</b>             | <b>22.4</b>          | <b>70.8</b> | <b>85.8</b>       |
| <b>LSD (5%)</b>   |                    | <b>170.2</b>            | <b>1.6</b>              | <b>2.7</b>              | <b>1.6</b>           | <b>1.6</b>  | <b>1.3</b>        |
| <b>CV (%)</b>     |                    | <b>73.7<sup>b</sup></b> | <b>9.1</b>              | <b>7.7</b>              | <b>7.9</b>           | <b>2.5</b>  | <b>1.7</b>        |

**Clip 2: 2/13/15**

| Rank <sup>a</sup> | Class <sup>1</sup> | Dry Matter Yield (lb/a) | Component of Forage (%) |                         |                      |             |                   |
|-------------------|--------------------|-------------------------|-------------------------|-------------------------|----------------------|-------------|-------------------|
|                   |                    |                         | Crude Protein           | Neutral Detergent Fiber | Acid Detergent Fiber | TDN         | IVDM <sup>a</sup> |
| 1                 | Oat                | 1447                    | 21.4                    | 35.4                    | 18.9                 | 74.5        | 86.6              |
| 2                 | Ryegrass           | 1225                    | 23.7                    | 29.1                    | 19.0                 | 75.2        | 87.4              |
| 3                 | TRIT               | 1094                    | 22.3                    | 38.8                    | 20.9                 | 73.4        | 84.2              |
| 4                 | HRWW               | 840                     | 23.0                    | 38.7                    | 20.0                 | 74.3        | 84.8              |
| 5                 | WB                 | 757                     | 22.4                    | 37.5                    | 20.5                 | 73.7        | 86.4              |
| 6                 | Rye                | 581                     | 22.7                    | 39.0                    | 20.0                 | 74.2        | 85.3              |
| <b>Mean</b>       |                    | <b>1095.9</b>           | <b>22.5</b>             | <b>36.2</b>             | <b>19.7</b>          | <b>74.3</b> | <b>85.8</b>       |
| <b>LSD (5%)</b>   |                    | <b>261.5</b>            | <b>1.6</b>              | <b>1.8</b>              | <b>1.4</b>           | <b>1.5</b>  | <b>1.0</b>        |
| <b>CV (%)</b>     |                    | <b>38.0<sup>b</sup></b> | <b>8.0</b>              | <b>5.3</b>              | <b>7.9</b>           | <b>2.2</b>  | <b>1.2</b>        |

**Clip 3: 3/30/15**

| Rank <sup>a</sup> | Class <sup>1</sup> | Dry Matter Yield (lb/a) | Component of Forage (%) |                         |                      |             |                   |
|-------------------|--------------------|-------------------------|-------------------------|-------------------------|----------------------|-------------|-------------------|
|                   |                    |                         | Crude Protein           | Neutral Detergent Fiber | Acid Detergent Fiber | TDN         | IVDM <sup>a</sup> |
| 1                 | WB                 | 3301                    | 15.8                    | 46.0                    | 30.4                 | 63.6        | 80.2              |
| 2                 | Ryegrass           | 3236                    | 18.5                    | 39.8                    | 27.1                 | 67.1        | 82.9              |
| 3                 | Oat                | 2708                    | 16.8                    | 40.4                    | 25.8                 | 67.5        | 83.7              |
| 4                 | HRWW               | 2704                    | 17.1                    | 46.4                    | 29.7                 | 64.7        | 78.0              |
| 5                 | Rye                | 2577                    | 16.9                    | 48.9                    | 31.0                 | 63.6        | 77.4              |
| 6                 | TRIT               | 2048                    | 18.7                    | 45.4                    | 28.7                 | 66.0        | 80.4              |
| <b>Mean</b>       |                    | <b>2701.0</b>           | <b>17.4</b>             | <b>43.5</b>             | <b>28.1</b>          | <b>66.0</b> | <b>81.0</b>       |
| <b>LSD (5%)</b>   |                    | <b>397.9</b>            | <b>1.3</b>              | <b>2.4</b>              | <b>1.8</b>           | <b>1.7</b>  | <b>0.7</b>        |
| <b>CV (%)</b>     |                    | <b>21.4</b>             | <b>8.1</b>              | <b>6.0</b>              | <b>6.9</b>           | <b>2.8</b>  | <b>2.3</b>        |

**Clip 4: 4/23/15**

| Rank <sup>a</sup> | Class <sup>1</sup> | Dry Matter Yield (lb/a) | Component of Forage (%) |                         |                      |             |                   |
|-------------------|--------------------|-------------------------|-------------------------|-------------------------|----------------------|-------------|-------------------|
|                   |                    |                         | Crude Protein           | Neutral Detergent Fiber | Acid Detergent Fiber | TDN         | IVDM <sup>a</sup> |
| 1                 | Ryegrass           | 204                     | 8.9                     | 48.7                    | 32.7                 | 59.4        | 73.0              |
| 2                 | Oat                | 26                      | 12.5                    | 52.9                    | 31.0                 | 62.0        | 74.4              |
| 3                 | TRIT               | 20                      | 14.6                    | 52.4                    | 31.7                 | 62.2        | 72.9              |
| 4                 | HRWW               | 15                      | 15.2                    | 50.8                    | 32.1                 | 62.1        | 71.7              |
| 5                 | WB                 | 13                      | 11.1                    | 54.5                    | 33.0                 | 60.0        | 70.8              |
| 6                 | Rye                | 10                      | 14.8                    | 53.3                    | 32.2                 | 61.9        | 73.2              |
| <b>Mean</b>       |                    | <b>48.1</b>             | <b>13.1</b>             | <b>51.6</b>             | <b>31.8</b>          | <b>61.6</b> | <b>73.1</b>       |
| <b>LSD (5%)</b>   |                    | <b>24.1</b>             | <b>1.3</b>              | <b>2.7</b>              | <b>1.8</b>           | <b>1.6</b>  | <b>2.1</b>        |
| <b>CV (%)</b>     |                    | <b>79.8<sup>b</sup></b> | <b>9.1</b>              | <b>4.8</b>              | <b>5.3</b>           | <b>2.4</b>  | <b>2.7</b>        |

<sup>a</sup>In Vitro True Digestibility

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

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

<sup>b</sup>Trials with a coefficient of variation (CV) ≥ 25% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.

### 2015 Small Grains Forage Trial - Comanche (Irrigated)

| Rank <sup>a</sup> | Variety <sup>1</sup> | Class <sup>2</sup> | Company               | Dry Matter Yield (lb/a) |                   |                   |                  |
|-------------------|----------------------|--------------------|-----------------------|-------------------------|-------------------|-------------------|------------------|
|                   |                      |                    |                       | Clip 1<br>12/16/14      | Clip 2<br>2/18/15 | Clip 3<br>4/15/15 | Total<br>3 Clips |
| 1                 | Horizon 201          | Oat                | Plantation Seed       | 2696                    | 1234              | 5347              | 9278             |
| 2                 | Prine                | Ryegrass           | UF                    | 1907                    | 2142              | 5221              | 9270             |
| 3                 | SunGrazer Plus       | Ryegrass           | Oregro Seeds, Inc     | 1342                    | 1625              | 6084              | 9051             |
| 4                 | Bob                  | Oat                | UA                    | 2251                    | 1389              | 5400              | 9040             |
| 5                 | TAM 90               | Ryegrass           | TAMU                  | 1690                    | 1613              | 5698              | 9000             |
| 6                 | Nelson               | Ryegrass           | TAMU                  | 1136                    | 1730              | 5962              | 8828             |
| 7                 | OKAY                 | Oat                | Noble Foundation      | 1769                    | 1484              | 5538              | 8791             |
| 8                 | Maton II             | Rye                | Noble Foundation      | 2382                    | 2552              | 3853              | 8787             |
| 9                 | Gulf                 | Ryegrass           | TAMU                  | 1490                    | 1752              | 5525              | 8766             |
| 10                | Fridge**             | TRIT               | Elliot Plant Breeding | 1538                    | 619               | 6518              | 8675             |
| 11                | Horizon 306          | Oat                | Plantation Seed       | 2091                    | 1712              | 4836              | 8639             |
| 12                | Oklon                | Rye                | Noble Foundation      | 1708                    | 1380              | 5531              | 8619             |
| 13                | TX07CS2257*          | Oat                | TAMU                  | 1560                    | 1942              | 5028              | 8531             |
| 14                | Heavy Grazer 76-30   | Oat                | East Texas Seed       | 2191                    | 1627              | 4682              | 8500             |
| 15                | Marshal              | Ryegrass           | Wax Company           | 1276                    | 1461              | 5757              | 8495             |
| 16                | P-919**              | WB                 | Paramount Seeds       | 1561                    | 1717              | 5217              | 8495             |
| 17                | Maton                | Rye                | Noble Foundation      | 2031                    | 1889              | 4515              | 8435             |
| 18                | TAMbar 501           | WB                 | TAMU                  | 1066                    | 562               | 6728              | 8355             |
| 19                | TAMTBO               | Ryegrass           | TAMU                  | 1537                    | 1406              | 5356              | 8299             |
| 20                | TAM 114              | HRWW               | TAMU                  | 994                     | 1266              | 6010              | 8270             |
| 21                | RAM 99016            | Oat                | LSU                   | 1449                    | 1551              | 5072              | 8071             |
| 22                | WB Grainfield        | HRWW               | Monsanto              | 1189                    | 1425              | 5345              | 7959             |
| 23                | TAMO 411             | Oat                | TAMU                  | 1277                    | 1730              | 4920              | 7927             |
| 24                | TAMO 606             | Oat                | TAMU                  | 922                     | 1274              | 5615              | 7811             |
| 25                | 25R40                | SRWW               | Pioneer               | 760                     | 619               | 6278              | 7657             |
| 26                | NF 101               | TRIT               | Noble Foundation      | 1274                    | 1380              | 4982              | 7636             |
| 27                | TX08A001249*         | HRWW               | TAMU                  | 888                     | 1115              | 5603              | 7607             |
| 28                | Duster               | HRWW               | OSU                   | 808                     | 1071              | 5705              | 7584             |
| 29                | TX09CS1029*          | Oat                | TAMU                  | 1769                    | 1531              | 4268              | 7568             |
| 30                | Elbon                | Rye                | Noble Foundation      | 1813                    | 1240              | 4389              | 7442             |
| 31                | TX09D1172*           | HRWW               | TAMU                  | 816                     | 1138              | 5464              | 7419             |
| 32                | Trical 348           | TRIT               | Syngenta              | 132                     | 526               | 6714              | 7372             |
| 33                | Walken               | Oat                | UK                    | 1431                    | 1107              | 4822              | 7361             |
| 34                | Weathermaster 135**  | HRWW               | Unknown               | 791                     | 1660              | 4868              | 7319             |
| 35                | TX09CS031*           | Oat                | TAMU                  | 799                     | 1646              | 4833              | 7277             |
| 36                | TAM 204**            | HRWW               | TAMU                  | 1048                    | 1464              | 4731              | 7243             |
| 37                | TAMcale 6331         | TRIT               | TAMU                  | 1712                    | 2223              | 3239              | 7173             |
| 38                | TAMcale 5019         | TRIT               | TAMU                  | 1568                    | 1491              | 4087              | 7145             |
| 39                | NF 201(NF96210)      | TRIT               | Noble Foundation      | 1886                    | 1839              | 3416              | 7141             |
| 40                | SY Razor**           | HRWW               | Syngenta              | 1122                    | 1655              | 4352              | 7129             |
| 41                | TX07CS1948*          | Oat                | TAMU                  | 898                     | 1106              | 5103              | 7107             |
| 42                | TX09A001194*         | HRWW               | TAMU                  | 950                     | 1741              | 4336              | 7028             |
| 43                | Maja                 | WB                 | Oregon State          | 1226                    | 873               | 4819              | 6918             |
| 44                | WB Redhawk           | HRWW               | Monsanto              | 1390                    | 2204              | 3313              | 6907             |
| 45                | TAM 401**            | HRWW               | TAMU                  | 1009                    | 1867              | 4189              | 6893             |
| 46                | Horizon 270          | Oat                | Plantation Seed       | 1500                    | 1149              | 4085              | 6735             |
| 47                | Haybet               | SB                 | USDA/MAES             | 3365                    | 606               | 2372              | 6343             |
| 48                | Fannin               | HRWW               | Syngenta              | 889                     | 1350              | 4064              | 6303             |
| <b>Mean</b>       |                      |                    |                       | <b>1435</b>             | <b>1452</b>       | <b>5004</b>       | <b>7889</b>      |
| <b>LSD (5%)</b>   |                      |                    |                       | <b>811</b>              | <b>483</b>        | <b>1454</b>       | <b>1844</b>      |
| <b>CV (%)</b>     |                      |                    |                       | <b>28<sup>b</sup></b>   | <b>17</b>         | <b>14</b>         | <b>12</b>        |

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>All Ryegrass Varieties are Tetraploids EXCEPT Gulf, Marshal, and TAM 90.

<sup>2</sup>Hard Red Winter Wheat (HRWW)

Soft Red Winter Wheat (SRWW)

Triticale (TRIT)

Spring Barley (SB)

Winter Barley (WB)

<sup>a</sup>Rank is based on Total Forage Weight

<sup>b</sup>Trials with a coefficient of variation (CV)  $\geq$  25% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.

**2015 Small Grains Forage Trial - Comanche (Irrigated) Clip 1 (12/16/14) Forage Quality Data**

|                   |                      |                    |                       |                            | Component of Forage (%) |                               |                            |      |                   |      |
|-------------------|----------------------|--------------------|-----------------------|----------------------------|-------------------------|-------------------------------|----------------------------|------|-------------------|------|
| Rank <sup>a</sup> | Variety <sup>1</sup> | Class <sup>2</sup> | Company               | Dry Matter<br>Yield (lb/a) |                         |                               |                            |      |                   |      |
|                   |                      |                    |                       |                            | Crude<br>Protein        | Neutral<br>Detergent<br>Fiber | Acid<br>Detergent<br>Fiber | TDN  | IVDM <sup>a</sup> | Ash  |
| 1                 | Haybet               | SB                 | USDA/MAES             | 3370                       | 18.9                    | 41.9                          | 27.0                       | 67.4 | 85.8              | 11.1 |
| 2                 | Horizon 201          | Oat                | Plantation Seed       | 2690                       | 21.0                    | 33.6                          | 20.0                       | 73.5 | 89.1              | 11.3 |
| 3                 | Maton II             | Rye                | Noble Foundation      | 2380                       | 25.7                    | 33.6                          | 21.5                       | 74.0 | 88.4              | 12.4 |
| 4                 | Bob                  | Oat                | UA                    | 2250                       | 19.2                    | 29.7                          | 19.0                       | 73.7 | 88.2              | 10.6 |
| 5                 | Heavy Grazer 76-30   | Oat                | East Texas Seed       | 2190                       | 22.1                    | 31.4                          | 19.7                       | 74.1 | 89.7              | 11.0 |
| 6                 | Horizon 306          | Oat                | Plantation Seed       | 2090                       | 18.9                    | 32.5                          | 20.4                       | 72.4 | 89.3              | 10.5 |
| 7                 | Maton                | Rye                | Noble Foundation      | 2040                       | 22.1                    | 36.0                          | 20.5                       | 73.6 | 87.8              | 11.9 |
| 8                 | Prine                | Ryegrass           | UF                    | 1910                       | 21.4                    | 26.4                          | 18.3                       | 75.0 | 88.6              | 12.6 |
| 9                 | NF 201(NF96210)      | TRIT               | Noble Foundation      | 1890                       | 22.4                    | 35.5                          | 21.0                       | 73.3 | 88.1              | 11.3 |
| 10                | Elbon                | Rye                | Noble Foundation      | 1810                       | 20.8                    | 36.8                          | 20.8                       | 72.9 | 87.9              | 11.4 |
| 11                | TX09CS1029*          | Oat                | TAMU                  | 1770                       | 17.7                    | 31.4                          | 18.2                       | 73.8 | 89.4              | 9.9  |
| 12                | OKAY                 | Oat                | Noble Foundation      | 1760                       | 20.0                    | 32.8                          | 18.2                       | 74.6 | 89.2              | 10.3 |
| 13                | TAMcale 6331         | TRIT               | TAMU                  | 1710                       | 20.8                    | 35.5                          | 20.7                       | 72.9 | 86.8              | 10.7 |
| 14                | Oklon                | Rye                | Noble Foundation      | 1710                       | 23.7                    | 36.6                          | 20.4                       | 74.2 | 87.8              | 11.7 |
| 15                | TAM 90               | Ryegrass           | TAMU                  | 1690                       | 22.6                    | 29.5                          | 20.4                       | 73.8 | 88.8              | 13.6 |
| 16                | TAMcale 5019         | TRIT               | TAMU                  | 1570                       | 22.0                    | 32.4                          | 19.5                       | 74.3 | 87.3              | 10.9 |
| 17                | P-919**              | WB                 | Paramount Seeds       | 1560                       | 22.1                    | 32.6                          | 20.6                       | 73.4 | 89.7              | 12.2 |
| 18                | TX07CS2257*          | Oat                | TAMU                  | 1560                       | 22.4                    | 32.1                          | 18.5                       | 75.2 | 88.7              | 11.2 |
| 19                | Fridge**             | TRIT               | Elliot Plant Breeding | 1540                       | 20.6                    | 39.5                          | 24.9                       | 69.7 | 84.2              | 10.9 |
| 20                | TAMTBO               | Ryegrass           | TAMU                  | 1540                       | 22.8                    | 28.6                          | 20.0                       | 74.2 | 88.8              | 13.0 |
| 21                | Horizon 270          | Oat                | Plantation Seed       | 1500                       | 20.5                    | 32.2                          | 19.6                       | 73.6 | 89.6              | 11.5 |
| 22                | Gulf                 | Ryegrass           | TAMU                  | 1490                       | 23.4                    | 29.3                          | 18.9                       | 75.3 | 88.7              | 13.6 |
| 23                | RAM 99016            | Oat                | LSU                   | 1450                       | 21.4                    | 34.7                          | 20.7                       | 73.2 | 89.5              | 11.1 |
| 24                | Walken               | Oat                | UK                    | 1430                       | 21.7                    | 32.1                          | 20.2                       | 73.7 | 88.6              | 11.5 |
| 25                | WB Redhawk           | HRWW               | Monsanto              | 1390                       | 20.6                    | 36.3                          | 20.2                       | 73.3 | 86.2              | 10.6 |
| 26                | SunGrazer Plus       | Ryegrass           | Oregro Seeds, Inc     | 1340                       | 21.5                    | 28.7                          | 19.7                       | 73.9 | 88.2              | 12.8 |
| 27                | Marshal              | Ryegrass           | Wax Company           | 1280                       | 19.6                    | 25.5                          | 18.4                       | 74.3 | 88.9              | 12.2 |
| 28                | NF 101               | TRIT               | Noble Foundation      | 1270                       | 19.1                    | 38.3                          | 22.5                       | 70.9 | 83.4              | 12.1 |
| 29                | TAMO 411             | Oat                | TAMU                  | 1270                       | 20.0                    | 32.9                          | 20.1                       | 73.1 | 89.5              | 11.1 |
| 30                | Maja                 | WB                 | Oregon State          | 1230                       | 21.5                    | 37.5                          | 22.3                       | 72.0 | 87.6              | 12.2 |
| 31                | WB Grainfield        | HRWW               | Monsanto              | 1190                       | 21.2                    | 36.8                          | 19.6                       | 73.9 | 85.3              | 11.3 |
| 32                | Nelson               | Ryegrass           | TAMU                  | 1130                       | 21.0                    | 25.9                          | 18.1                       | 75.0 | 88.8              | 12.3 |
| 33                | SY Razor**           | HRWW               | Syngenta              | 1120                       | 21.6                    | 35.5                          | 20.8                       | 73.1 | 85.6              | 11.4 |
| 34                | TAMbar 501           | WB                 | TAMU                  | 1060                       | 25.3                    | 34.7                          | 21.9                       | 73.6 | 88.4              | 12.1 |
| 35                | TAM 204**            | HRWW               | TAMU                  | 1050                       | 24.6                    | 36.9                          | 21.7                       | 73.6 | 87.1              | 11.9 |
| 36                | TAM 401**            | HRWW               | TAMU                  | 1010                       | 19.9                    | 34.9                          | 20.7                       | 72.6 | 86.7              | 10.9 |
| 37                | TAM 114              | HRWW               | TAMU                  | 990                        | 22.8                    | 35.4                          | 20.5                       | 73.8 | 86.5              | 11.5 |
| 38                | TX09A001194*         | HRWW               | TAMU                  | 950                        | 22.7                    | 34.9                          | 19.2                       | 74.8 | 86.3              | 11.3 |
| 39                | TAMO 606             | Oat                | TAMU                  | 920                        | 20.1                    | 33.7                          | 20.8                       | 72.6 | 88.3              | 10.9 |
| 40                | Fannin               | HRWW               | Syngenta              | 890                        | 20.5                    | 38.8                          | 20.8                       | 72.7 | 86.0              | 11.8 |
| 41                | TX08A001249*         | HRWW               | TAMU                  | 890                        | 21.5                    | 34.6                          | 19.4                       | 74.2 | 86.8              | 11.4 |
| 42                | TX07CS1948*          | Oat                | TAMU                  | 890                        | 20.7                    | 32.5                          | 19.6                       | 73.8 | 88.4              | 11.4 |
| 43                | TX09D1172*           | HRWW               | TAMU                  | 820                        | 25.8                    | 33.8                          | 20.9                       | 74.5 | 87.2              | 11.6 |
| 44                | Duster               | HRWW               | OSU                   | 810                        | 22.3                    | 37.2                          | 19.9                       | 74.1 | 85.9              | 11.6 |
| 45                | TX09CS031*           | Oat                | TAMU                  | 800                        | 22.3                    | 32.7                          | 18.5                       | 75.2 | 88.6              | 11.5 |
| 46                | Weathermaster 135**  | HRWW               | Unknown               | 790                        | 22.1                    | 36.0                          | 19.9                       | 74.0 | 85.7              | 11.5 |
| 47                | 25R40                | SRWW               | Pioneer               | 760                        | 23.0                    | 32.7                          | 19.1                       | 74.9 | 87.3              | 10.9 |
| 48                | Trical 348           | TRIT               | Syngenta              | 130                        | 23.9                    | 32.9                          | 18.9                       | 75.5 | 87.3              | 12.1 |
| Mean              |                      |                    |                       | 1435.3                     | 21.5                    | 33.6                          | 20.2                       | 73.6 | 87.7              | 11.6 |
| LSD (5%)          |                      |                    |                       | 810.6                      | NS                      | 4.4                           | 2.5                        | 2.4  | 2.1               | 1.5  |
| CV (%)            |                      |                    |                       | 28.1 <sup>b</sup>          | 11.3                    | 6.3                           | 6.1                        | 1.6  | 1.1               | 6.5  |

<sup>a</sup>In Vitro True Digestibility

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>All Ryegrass Varieties are Tetraploids EXCEPT Gulf, Marshal, and TAM 90.

<sup>2</sup>Hard Red Winter Wheat (HRWW)

Soft Red Winter Wheat (SRWW)

Spring Barley (SB)

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

<sup>b</sup>Trials with a coefficient of variation (CV)  $\geq$  25% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.

**2015 Small Grains Forage Trial - Comanche (Irrigated) Clip 2 (2/18/15) Forage Quality Data**

| Rank <sup>a</sup> | Variety <sup>1</sup> | Class <sup>2</sup> | Company               | Dry Matter Yield (lb/a) | Component of Forage (%) |                         |                      |             |                   |             |
|-------------------|----------------------|--------------------|-----------------------|-------------------------|-------------------------|-------------------------|----------------------|-------------|-------------------|-------------|
|                   |                      |                    |                       |                         | Crude Protein           | Neutral Detergent Fiber | Acid Detergent Fiber | TDN         | IVDM <sup>a</sup> | Ash         |
| 1                 | Maton II             | Rye                | Noble Foundation      | 2560                    | 16.9                    | 39.7                    | 23.5                 | 69.4        | 83.5              | 8.3         |
| 2                 | TAMcale 6331         | TRIT               | TAMU                  | 2230                    | 15.8                    | 39.0                    | 22.1                 | 70.0        | 82.5              | 8.2         |
| 3                 | WB Redhawk           | HRWW               | Monsanto              | 2210                    | 17.4                    | 36.5                    | 20.9                 | 71.5        | 83.6              | 8.9         |
| 4                 | Prine                | Ryegrass           | UF                    | 2140                    | 18.7                    | 25.8                    | 14.6                 | 76.9        | 88.4              | 10.6        |
| 5                 | TX07CS2257*          | Oat                | TAMU                  | 1940                    | 15.7                    | 31.0                    | 16.7                 | 74.2        | 88.6              | 8.3         |
| 6                 | Maton                | Rye                | Noble Foundation      | 1890                    | 18.4                    | 37.5                    | 21.5                 | 71.4        | 84.6              | 8.6         |
| 7                 | TAMbar 501           | WB                 | TAMU                  | 1870                    | 21.9                    | 32.3                    | 17.6                 | 75.7        | 87.9              | 10.0        |
| 8                 | NF 201(NF96210)      | TRIT               | Noble Foundation      | 1840                    | 17.4                    | 37.0                    | 21.7                 | 70.9        | 84.4              | 8.2         |
| 9                 | Gulf                 | Ryegrass           | TAMU                  | 1750                    | 22.3                    | 27.1                    | 18.5                 | 75.1        | 88.1              | 12.7        |
| 10                | TX09A001194*         | HRWW               | TAMU                  | 1740                    | 18.1                    | 36.7                    | 18.4                 | 73.7        | 85.3              | 8.5         |
| 11                | Nelson               | Ryegrass           | TAMU                  | 1730                    | 17.4                    | 26.7                    | 14.9                 | 76.2        | 86.7              | 10.9        |
| 12                | TAMO 411             | Oat                | TAMU                  | 1730                    | 15.1                    | 30.0                    | 16.7                 | 74.0        | 87.4              | 8.4         |
| 13                | Horizon 306          | Oat                | Plantation Seed       | 1720                    | 14.3                    | 30.5                    | 16.6                 | 73.7        | 87.5              | 8.9         |
| 14                | P-919**              | WB                 | Paramount Seeds       | 1720                    | 13.5                    | 32.9                    | 17.7                 | 72.6        | 87.0              | 7.3         |
| 15                | Weathermaster 135**  | HRWW               | Unknown               | 1660                    | 18.9                    | 35.4                    | 19.7                 | 73.0        | 84.9              | 9.2         |
| 16                | SY Razor**           | HRWW               | Syngenta              | 1650                    | 17.7                    | 34.9                    | 18.6                 | 73.4        | 84.6              | 8.5         |
| 17                | TX09CS031*           | Oat                | TAMU                  | 1640                    | 16.1                    | 34.6                    | 16.6                 | 74.4        | 86.7              | 9.1         |
| 18                | Heavy Grazer 76-30   | Oat                | East Texas Seed       | 1630                    | 17.1                    | 29.8                    | 16.6                 | 74.7        | 87.6              | 8.5         |
| 19                | SunGrazer Plus       | Ryegrass           | Oregro Seeds, Inc     | 1620                    | 19.5                    | 25.0                    | 15.2                 | 76.7        | 87.7              | 11.0        |
| 20                | TAM 204**            | HRWW               | TAMU                  | 1610                    | 21.7                    | 37.7                    | 21.4                 | 72.7        | 84.7              | 10.2        |
| 21                | RAM 99016            | Oat                | LSU                   | 1550                    | 15.0                    | 31.1                    | 14.8                 | 75.4        | 86.1              | 8.5         |
| 22                | TX09CS1029*          | Oat                | TAMU                  | 1530                    | 15.7                    | 32.1                    | 16.6                 | 74.3        | 87.2              | 7.7         |
| 23                | TAMcale 5019         | TRIT               | TAMU                  | 1490                    | 18.5                    | 32.1                    | 18.5                 | 73.8        | 84.5              | 8.9         |
| 24                | OKAY                 | Oat                | Noble Foundation      | 1480                    | 20.2                    | 32.1                    | 18.2                 | 74.7        | 87.9              | 9.9         |
| 25                | Marshall             | Ryegrass           | Wax Company           | 1460                    | 21.8                    | 26.9                    | 17.0                 | 76.1        | 88.3              | 11.6        |
| 26                | TAM 114              | HRWW               | TAMU                  | 1460                    | 20.8                    | 33.5                    | 18.8                 | 74.4        | 85.3              | 9.8         |
| 27                | WB Grainfield        | HRWW               | Monsanto              | 1420                    | 18.0                    | 33.3                    | 17.6                 | 74.3        | 85.6              | 8.7         |
| 28                | TAMTBO               | Ryegrass           | TAMU                  | 1400                    | 21.8                    | 26.3                    | 17.1                 | 76.0        | 88.9              | 12.0        |
| 29                | Bob                  | Oat                | UA                    | 1390                    | 16.7                    | 30.8                    | 17.7                 | 73.8        | 86.8              | 9.6         |
| 30                | NF 101               | TRIT               | Noble Foundation      | 1380                    | 18.9                    | 37.4                    | 21.0                 | 72.1        | 84.0              | 9.5         |
| 31                | Oklon                | Rye                | Noble Foundation      | 1380                    | 19.8                    | 35.2                    | 20.6                 | 72.6        | 86.0              | 9.4         |
| 32                | Fannin               | HRWW               | Syngenta              | 1350                    | 15.6                    | 36.9                    | 18.9                 | 72.4        | 84.4              | 8.9         |
| 33                | TAMO 606             | Oat                | TAMU                  | 1270                    | 17.3                    | 30.7                    | 16.8                 | 74.7        | 87.8              | 9.6         |
| 34                | TAM 90               | Ryegrass           | TAMU                  | 1260                    | 21.6                    | 32.2                    | 19.7                 | 74.0        | 87.7              | 12.8        |
| 35                | Elbon                | Rye                | Noble Foundation      | 1240                    | 17.0                    | 34.9                    | 19.5                 | 72.5        | 85.1              | 8.9         |
| 36                | Horizon 201          | Oat                | Plantation Seed       | 1230                    | 17.8                    | 30.3                    | 16.7                 | 75.0        | 88.2              | 10.0        |
| 37                | Horizon 270          | Oat                | Plantation Seed       | 1150                    | 17.6                    | 34.5                    | 16.8                 | 74.7        | 87.0              | 9.6         |
| 38                | TX09D1172*           | HRWW               | TAMU                  | 1140                    | 21.4                    | 37.0                    | 19.4                 | 74.2        | 86.3              | 10.9        |
| 39                | TX08A001249*         | HRWW               | TAMU                  | 1120                    | 23.5                    | 36.3                    | 20.8                 | 73.9        | 85.9              | 10.8        |
| 40                | TX07CS1948*          | Oat                | TAMU                  | 1110                    | 17.9                    | 31.6                    | 16.3                 | 75.3        | 88.0              | 9.3         |
| 41                | Walken               | Oat                | UK                    | 1110                    | 15.4                    | 28.7                    | 15.2                 | 75.2        | 88.4              | 8.2         |
| 42                | Duster               | HRWW               | OSU                   | 1070                    | 21.8                    | 33.9                    | 19.6                 | 74.2        | 85.4              | 10.5        |
| 43                | Maja                 | WB                 | Oregon State          | 870                     | 18.6                    | 36.0                    | 19.8                 | 72.8        | 86.9              | 9.5         |
| 44                | Fridge**             | TRIT               | Elliot Plant Breeding | 620                     | 19.4                    | 33.7                    | 18.6                 | 74.0        | 85.7              | 9.3         |
| 45                | 25R40                | SRWW               | Pioneer               | 620                     | 21.4                    | 32.4                    | 16.1                 | 76.7        | 85.6              | 9.5         |
| 46                | Haybet               | SB                 | USDA/MAES             | 610                     | 13.7                    | 36.5                    | 21.5                 | 69.8        | 85.8              | 8.7         |
| 47                | TAM 401**            | HRWW               | TAMU                  | 560                     | 13.9                    | 38.5                    | 19.9                 | 71.1        | 82.5              | 8.0         |
| 48                | Trical 348           | TRIT               | Syngenta              | 520                     | 25.4                    | 31.2                    | 16.8                 | 77.6        | 87.9              | 10.6        |
|                   |                      |                    |                       | <b>Mean</b>             | <b>1451.7</b>           | <b>18.1</b>             | <b>32.9</b>          | <b>18.2</b> | <b>73.9</b>       | <b>86.3</b> |
|                   |                      |                    |                       | <b>LSD (5%)</b>         | <b>482.6</b>            | <b>5.4</b>              | <b>4.0</b>           | <b>3.4</b>  | <b>2.3</b>        | <b>1.6</b>  |
|                   |                      |                    |                       | <b>CV (%)</b>           | <b>16.5</b>             | <b>13.9</b>             | <b>5.6</b>           | <b>8.8</b>  | <b>1.5</b>        | <b>0.9</b>  |

<sup>a</sup>In Vitro True Digestibility

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>All Ryegrass Varieties are Tetraploids EXCEPT Gulf, Marshall, and TAM 90.

<sup>2</sup>Hard Red Winter Wheat (HRWW)

Soft Red Winter Wheat (SRWW)

Spring Barley (SB)

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

**2015 Small Grains Forage Trial - Comanche (Irrigated) Clip 3 (4/15/15) Forage Quality Data**

| Rank <sup>a</sup> | Variety <sup>1</sup> | Class <sup>2</sup> | Company               | Dry Matter<br>Yield (lb/a) | Component of Forage (%) |                               |                            |             |                   |             |
|-------------------|----------------------|--------------------|-----------------------|----------------------------|-------------------------|-------------------------------|----------------------------|-------------|-------------------|-------------|
|                   |                      |                    |                       |                            | Crude<br>Protein        | Neutral<br>Detergent<br>Fiber | Acid<br>Detergent<br>Fiber | TDN         | IVDM <sup>a</sup> | Ash         |
| 1                 | TAMO 411             | Oat                | TAMU                  | 6728                       | 11.4                    | 54.3                          | 35.3                       | 58.3        | 71.5              | 9.8         |
| 2                 | SY Razor**           | HRWW               | Syngenta              | 6714                       | 10.7                    | 55.9                          | 33.6                       | 59.4        | 66.0              | 6.4         |
| 3                 | Elbon                | Rye                | Noble Foundation      | 6518                       | 7.5                     | 63.6                          | 41.1                       | 52.4        | 63.0              | 6.4         |
| 4                 | OKAY                 | Oat                | Noble Foundation      | 6278                       | 12.5                    | 54.4                          | 33.1                       | 60.4        | 74.1              | 9.5         |
| 5                 | WB Redhawk           | HRWW               | Monsanto              | 6084                       | 10.6                    | 56.5                          | 33.8                       | 59.2        | 66.8              | 8.2         |
| 6                 | Trical 348           | TRIT               | Syngenta              | 6010                       | 9.5                     | 58.3                          | 36.1                       | 57.0        | 69.8              | 7.9         |
| 7                 | Maton                | Rye                | Noble Foundation      | 5962                       | 10.3                    | 59.7                          | 39.7                       | 54.5        | 65.3              | 7.3         |
| 8                 | Heavy Grazer 76-30   | Oat                | East Texas Seed       | 5757                       | 12.1                    | 53.5                          | 35.6                       | 58.3        | 72.5              | 9.5         |
| 9                 | TAMcale 5019         | TRIT               | TAMU                  | 5705                       | 8.5                     | 63.4                          | 35.5                       | 57.1        | 67.8              | 8.5         |
| 10                | TAM 204**            | HRWW               | TAMU                  | 5698                       | 10.3                    | 59.6                          | 33.5                       | 59.3        | 66.9              | 8.4         |
| 11                | TAM 90               | Ryegrass           | TAMU                  | 5615                       | 7.9                     | 56.2                          | 37.2                       | 55.6        | 69.8              | 8.7         |
| 12                | TX08A001249*         | HRWW               | TAMU                  | 5603                       | 8.6                     | 58.7                          | 33.3                       | 58.8        | 64.6              | 6.4         |
| 13                | NF 101               | TRIT               | Noble Foundation      | 5538                       | 7.7                     | 60.0                          | 33.9                       | 58.1        | 62.3              | 6.9         |
| 14                | NF 201(NF96210)      | TRIT               | Noble Foundation      | 5531                       | 9.7                     | 60.2                          | 38.0                       | 55.6        | 65.6              | 8.1         |
| 15                | Fridge**             | TRIT               | Elliot Plant Breeding | 5525                       | 9.3                     | 61.3                          | 37.2                       | 56.1        | 69.3              | 9.6         |
| 16                | TX09D1172*           | HRWW               | TAMU                  | 5464                       | 9.8                     | 58.8                          | 33.3                       | 59.3        | 67.1              | 8.7         |
| 17                | Bob                  | Oat                | UA                    | 5400                       | 11.8                    | 51.8                          | 35.6                       | 58.2        | 72.4              | 9.8         |
| 18                | TAMbar 501           | WB                 | TAMU                  | 5356                       | 8.9                     | 52.2                          | 37.0                       | 56.1        | 69.4              | 8.6         |
| 19                | WB Grainfield        | HRWW               | Monsanto              | 5347                       | 9.6                     | 59.1                          | 36.1                       | 57.1        | 66.0              | 7.4         |
| 20                | Fannin               | HRWW               | Syngenta              | 5345                       | 10.0                    | 57.6                          | 35.1                       | 58.0        | 66.5              | 8.0         |
| 21                | 25R40                | SRWW               | Pioneer               | 5221                       | 9.9                     | 54.5                          | 31.2                       | 61.0        | 68.4              | 6.2         |
| 22                | Oklon                | Rye                | Noble Foundation      | 5217                       | 9.0                     | 61.5                          | 41.2                       | 52.9        | 66.2              | 7.1         |
| 23                | TX07CS1948*          | Oat                | TAMU                  | 5103                       | 12.1                    | 52.3                          | 33.0                       | 60.3        | 71.9              | 9.6         |
| 24                | RAM 99016            | Oat                | LSU                   | 5072                       | 11.0                    | 54.9                          | 37.2                       | 56.7        | 69.9              | 9.4         |
| 25                | TX07CS2257*          | Oat                | TAMU                  | 5028                       | 12.1                    | 51.3                          | 31.6                       | 61.4        | 74.0              | 9.7         |
| 26                | Maton II             | Rye                | Noble Foundation      | 4982                       | 7.3                     | 67.0                          | 43.0                       | 50.9        | 61.8              | 7.4         |
| 27                | TAM 401**            | HRWW               | TAMU                  | 4920                       | 8.0                     | 60.8                          | 34.4                       | 57.8        | 62.0              | 6.7         |
| 28                | Weathermaster 135**  | HRWW               | Unknown               | 4868                       | 12.0                    | 53.3                          | 29.9                       | 62.7        | 70.8              | 9.4         |
| 29                | Horizon 201          | Oat                | Plantation Seed       | 4836                       | 13.3                    | 50.6                          | 34.5                       | 59.6        | 73.4              | 10.3        |
| 30                | TX09CS031*           | Oat                | TAMU                  | 4833                       | 11.4                    | 54.9                          | 31.7                       | 61.1        | 73.2              | 9.0         |
| 31                | Walken               | Oat                | UK                    | 4822                       | 11.6                    | 51.3                          | 29.3                       | 63.0        | 80.4              | 10.6        |
| 32                | Haybet               | SB                 | USDA/MAES             | 4819                       | 8.5                     | 58.1                          | 31.9                       | 59.9        | 73.9              | 9.1         |
| 33                | SunGrazer Plus       | Ryegrass           | Oregro Seeds, Inc     | 4731                       | 9.3                     | 53.3                          | 34.5                       | 58.1        | 73.4              | 9.6         |
| 34                | Horizon 306          | Oat                | Plantation Seed       | 4682                       | 13.9                    | 51.6                          | 31.9                       | 61.8        | 74.9              | 10.1        |
| 35                | Maja                 | WB                 | Oregon State          | 4515                       | 10.1                    | 50.7                          | 31.4                       | 60.9        | 71.0              | 7.9         |
| 36                | TAMcale 6331         | TRIT               | TAMU                  | 4389                       | 9.9                     | 64.1                          | 36.3                       | 57.0        | 66.6              | 8.9         |
| 37                | P-919**              | WB                 | Paramount Seeds       | 4352                       | 7.3                     | 55.8                          | 34.6                       | 57.4        | 68.0              | 8.7         |
| 38                | TX09A001194*         | HRWW               | TAMU                  | 4337                       | 10.4                    | 58.5                          | 32.5                       | 60.1        | 67.0              | 7.5         |
| 39                | TX09CS1029*          | Oat                | TAMU                  | 4268                       | 13.8                    | 50.1                          | 31.6                       | 62.0        | 76.0              | 9.3         |
| 40                | TAM 114              | HRWW               | TAMU                  | 4189                       | 7.5                     | 60.6                          | 36.4                       | 56.1        | 65.4              | 8.1         |
| 41                | TAMO 606             | Oat                | TAMU                  | 4087                       | 11.9                    | 51.9                          | 35.5                       | 58.3        | 72.9              | 10.1        |
| 42                | Gulf                 | Ryegrass           | TAMU                  | 4085                       | 9.6                     | 55.3                          | 34.7                       | 58.1        | 73.2              | 9.6         |
| 43                | Duster               | HRWW               | OSU                   | 4064                       | 10.5                    | 57.6                          | 31.9                       | 60.6        | 67.7              | 8.3         |
| 44                | Marshall             | Ryegrass           | Wax Company           | 3853                       | 9.6                     | 53.1                          | 35.0                       | 57.9        | 73.9              | 10.5        |
| 45                | Nelson               | Ryegrass           | TAMU                  | 3416                       | 12.3                    | 48.8                          | 31.0                       | 61.9        | 76.1              | 10.5        |
| 46                | Prine                | Ryegrass           | UF                    | 3313                       | 11.6                    | 51.4                          | 32.4                       | 60.6        | 75.0              | 10.6        |
| 47                | TAMTBO               | Ryegrass           | TAMU                  | 3239                       | 12.5                    | 50.4                          | 34.0                       | 59.7        | 76.4              | 10.6        |
| 48                | Horizon 270          | Oat                | Plantation Seed       | 2372                       | 12.7                    | 51.4                          | 31.4                       | 61.8        | 74.8              | 9.2         |
|                   |                      |                    |                       | <b>Mean</b>                | <b>5004.0</b>           | <b>10.3</b>                   | <b>56.0</b>                | <b>34.5</b> | <b>58.5</b>       | <b>69.9</b> |
|                   |                      |                    |                       | <b>LSD (5%)</b>            | <b>1453.8</b>           | <b>3.0</b>                    | <b>4.9</b>                 | <b>4.0</b>  | <b>3.8</b>        | <b>1.7</b>  |
|                   |                      |                    |                       | <b>CV (%)</b>              | <b>14.3</b>             | <b>14.4</b>                   | <b>4.3</b>                 | <b>5.8</b>  | <b>3.2</b>        | <b>2.6</b>  |

<sup>a</sup>In Vitro True Digestibility

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>All Ryegrass Varieties are Tetraploids EXCEPT Gulf, Marshall, and TAM 90.

<sup>2</sup>Hard Red Winter Wheat (HRWW)

Soft Red Winter Wheat (SRWW)

Spring Barley (SB)

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

<sup>b</sup>Trials with a coefficient of variation (CV)  $\geq$  25% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.

### 2015 Small Grains Forage Trial - Comanche (Irrigated) Species Quality Data

#### Clip 1: 12/16/14

|                   |                    | Dry Matter<br>Yield<br>(lb/a) | Component of Forage (%) |                               |                            |      |                   |      |
|-------------------|--------------------|-------------------------------|-------------------------|-------------------------------|----------------------------|------|-------------------|------|
| Rank <sup>a</sup> | Class <sup>1</sup> |                               | Crude<br>Protein        | Neutral<br>Detergent<br>Fiber | Acid<br>Detergent<br>Fiber | TDN  | IVDM <sup>A</sup> | Ash  |
| 1                 | SB                 | 3365                          | 18.9                    | 41.9                          | 27.0                       | 67.4 | 85.8              | 11.1 |
| 2                 | Rye                | 1984                          | 22.8                    | 35.4                          | 20.9                       | 73.5 | 88.0              | 11.9 |
| 3                 | Oat                | 1615                          | 20.6                    | 32.4                          | 19.5                       | 73.7 | 89.0              | 11.0 |
| 4                 | Ryegrass           | 1483                          | 21.8                    | 27.7                          | 19.1                       | 74.5 | 88.7              | 12.9 |
| 5                 | TRIT               | 1352                          | 21.8                    | 35.8                          | 21.1                       | 73.0 | 86.4              | 11.4 |
| 6                 | WB                 | 1284                          | 23.0                    | 35.0                          | 21.6                       | 73.0 | 88.5              | 12.2 |
| 7                 | HRWW               | 991                           | 21.8                    | 36.0                          | 20.2                       | 73.7 | 86.2              | 11.4 |
| Mean              |                    | 1435.3                        | 21.5                    | 33.6                          | 20.2                       | 73.6 | 87.7              | 11.6 |
| LSD (5%)          |                    | 616.5                         | 2.8                     | 2.8                           | 1.7                        | 1.6  | 1.4               | 0.9  |
| CV (%)            |                    | 35.0 <sup>b</sup>             | 10.5                    | 6.7                           | 6.8                        | 1.8  | 1.3               | 6.2  |

#### Clip 2: 2/18/15

|                   |                    | Dry Matter<br>Yield<br>(lb/a) | Component of Forage (%) |                               |                            |      |                   |      |
|-------------------|--------------------|-------------------------------|-------------------------|-------------------------------|----------------------------|------|-------------------|------|
| Rank <sup>a</sup> | Class <sup>1</sup> |                               | Crude<br>Protein        | Neutral<br>Detergent<br>Fiber | Acid<br>Detergent<br>Fiber | TDN  | IVDM <sup>^</sup> | Ash  |
| 1                 | Rye                | 1765                          | 17.4                    | 37.3                          | 21.5                       | 71.1 | 84.4              | 8.6  |
| 2                 | Ryegrass           | 1676                          | 20.4                    | 26.8                          | 16.5                       | 76.0 | 88.0              | 11.5 |
| 3                 | HRWW               | 1496                          | 18.6                    | 35.7                          | 19.3                       | 73.2 | 84.7              | 9.2  |
| 4                 | Oat                | 1463                          | 16.6                    | 31.3                          | 16.6                       | 74.6 | 87.5              | 9.0  |
| 5                 | TRIT               | 1346                          | 18.8                    | 35.2                          | 20.1                       | 72.7 | 84.9              | 9.0  |
| 6                 | WB                 | 1051                          | 18.0                    | 33.7                          | 18.4                       | 73.7 | 87.3              | 9.0  |
| 7                 | SB                 | 607                           | 13.7                    | 36.5                          | 21.5                       | 69.8 | 85.8              | 8.7  |
| Mean              |                    | 1451.7                        | 18.1                    | 32.9                          | 18.2                       | 73.9 | 86.3              | 9.4  |
| LSD (5%)          |                    | 522.1                         | 3.4                     | 2.8                           | 2.1                        | 1.8  | 1.3               | 1.2  |
| CV (%)            |                    | 29.3 <sup>b</sup>             | 15.1                    | 6.9                           | 9.4                        | 1.9  | 1.2               | 10.2 |

#### Clip 3: 4/15/15

|                   |                    | Dry Matter<br>Yield<br>(lb/a) | Component of Forage (%) |                         |                      |      |                   |      |
|-------------------|--------------------|-------------------------------|-------------------------|-------------------------|----------------------|------|-------------------|------|
| Rank <sup>a</sup> | Class <sup>1</sup> |                               | Crude Protein           | Neutral Detergent Fiber | Acid Detergent Fiber | TDN  | IVDM <sup>A</sup> | Ash  |
| 1                 | Ryegrass           | 5657                          | 10.4                    | 52.6                    | 34.1                 | 58.8 | 74.0              | 10.0 |
| 2                 | WB                 | 5588                          | 8.8                     | 52.9                    | 34.3                 | 58.1 | 69.5              | 8.4  |
| 3                 | Oat                | 4968                          | 12.3                    | 52.5                    | 33.4                 | 60.1 | 73.7              | 9.7  |
| 4                 | HRWW               | 4860                          | 9.8                     | 58.1                    | 33.6                 | 59.0 | 66.4              | 7.8  |
| 5                 | TRIT               | 4826                          | 9.1                     | 61.3                    | 36.9                 | 56.3 | 66.8              | 8.2  |
| 6                 | RYE                | 4572                          | 8.4                     | 63.4                    | 41.3                 | 52.6 | 63.3              | 7.0  |
| 7                 | SB                 | 2372                          | 8.5                     | 58.1                    | 31.9                 | 59.9 | 73.9              | 9.1  |
| Mean              |                    | 5004.1                        | 10.3                    | 56.0                    | 34.5                 | 58.5 | 69.9              | 8.7  |
| LSD (5%)          |                    | 1136.3                        | 2.0                     | 3.4                     | 3.1                  | 2.8  | 3.2               | 1.2  |
| CV (%)            |                    | 18.5                          | 15.5                    | 4.9                     | 7.2                  | 3.9  | 3.7               | 10.8 |

<sup>^</sup>In Vitro True Digestibility

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

Spring Barley (SB)

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

<sup>b</sup>Trials with a coefficient of variation (CV) ≥ 25% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.



**2015 Small Grains Forage Trial - McGregor (Dryland)**

| Rank <sup>a</sup> | Variety <sup>1</sup> | Class <sup>2</sup> | Company               | Dry Matter Yield (lb/a) |             |             |
|-------------------|----------------------|--------------------|-----------------------|-------------------------|-------------|-------------|
|                   |                      |                    |                       | Clip 1                  | Clip 2      | Total       |
|                   |                      |                    |                       | 12/17/14                | 4/30/15     | 2 Clips     |
| 1                 | Heavy Grazer 76-30   | Oat                | East Texas Seed       | 1350                    | 10870       | 12160       |
| 2                 | TAMO 411             | Oat                | TAMU                  | 1264                    | 11055       | 12094       |
| 3                 | TX07CS2257*          | Oat                | TAMU                  | 1062                    | 9822        | 10737       |
| 4                 | TAMO 606             | Oat                | TAMU                  | 1295                    | 9279        | 10468       |
| 5                 | NF 201(NF96210)      | TRIT               | Noble Foundation      | 728                     | 9760        | 10313       |
| 6                 | Fridge**             | TRIT               | Elliot Plant Breeding | 1604                    | 8456        | 9802        |
| 7                 | Horizon 306          | Oat                | Plantation Seed       | 1773                    | 8069        | 9797        |
| 8                 | TAMbar 501           | WB                 | TAMU                  | 1065                    | 8762        | 9591        |
| 9                 | TX09CS031*           | Oat                | TAMU                  | 831                     | 8893        | 9521        |
| 10                | Bob                  | Oat                | UA                    | 1371                    | 7900        | 9283        |
| 11                | Horizon 201          | Oat                | Plantation Seed       | 1605                    | 7348        | 8956        |
| 12                | OKAY                 | Oat                | Noble Foundation      | 1726                    | 7187        | 8918        |
| 13                | Marshal              | Ryegrass           | Wax Company           | 670                     | 8077        | 8893        |
| 14                | TAM 204**            | HRWW               | TAMU                  | 770                     | 7697        | 8519        |
| 15                | Walken               | Oat                | UK                    | 1289                    | 7569        | 8493        |
| 16                | Nelson               | Ryegrass           | TAMU                  | 1120                    | 7410        | 8370        |
| 17                | Duster               | HRWW               | OSU                   | 885                     | 7441        | 8269        |
| 18                | RAM 99016            | Oat                | LSU                   | 1261                    | 7146        | 8194        |
| 19                | Oklon                | Rye                | Noble Foundation      | 654                     | 7519        | 8034        |
| 20                | TAM 90               | Ryegrass           | TAMU                  | 809                     | 7116        | 8022        |
| 21                | P-919**              | WB                 | Paramount Seeds       | 1242                    | 6825        | 7938        |
| 22                | TAM 114              | HRWW               | TAMU                  | 965                     | 7087        | 7913        |
| 23                | Prine                | Ryegrass           | UF                    | 1399                    | 6586        | 7898        |
| 24                | TX07CS1948*          | Oat                | TAMU                  | 1080                    | 6939        | 7804        |
| 25                | SunGrazer Plus       | Ryegrass           | Oregro Seeds, Inc     | 1036                    | 6748        | 7780        |
| 26                | TAMTBO               | Ryegrass           | TAMU                  | 759                     | 6702        | 7393        |
| 27                | Gulf                 | Ryegrass           | TAMU                  | 726                     | 6532        | 7097        |
| 28                | TX09CS1029*          | Oat                | TAMU                  | 1140                    | 6242        | 7052        |
| 29                | TAMcale 6331         | TRIT               | TAMU                  | 875                     | 6205        | 7049        |
| 30                | SY Razor**           | HRWW               | Syngenta              | 954                     | 6094        | 6987        |
| 31                | WB Redhawk           | HRWW               | Monsanto              | 203                     | 6680        | 6890        |
| 32                | TX09D1172*           | HRWW               | TAMU                  | 73                      | 6641        | 6697        |
| 33                | Horizon 270          | Oat                | Plantation Seed       | 1273                    | 5538        | 6652        |
| 34                | Maton II             | Rye                | Noble Foundation      | 747                     | 5785        | 6599        |
| 35                | WB Grainfield        | HRWW               | Monsanto              | 99                      | 6497        | 6587        |
| 36                | NF 101               | TRIT               | Noble Foundation      | 572                     | 5992        | 6414        |
| 37                | TAMcale 5019         | TRIT               | TAMU                  | 296                     | 6083        | 6286        |
| 38                | Elbon                | Rye                | Noble Foundation      | 526                     | 5803        | 6111        |
| 39                | TAM 401**            | HRWW               | TAMU                  | 274                     | 5450        | 5777        |
| 40                | Maton                | Rye                | Noble Foundation      | 469                     | 5368        | 5684        |
| 41                | Weathermaster 135**  | HRWW               | Unknown               | 177                     | 5486        | 5648        |
| 42                | TX09A001194*         | HRWW               | TAMU                  | 77                      | 5592        | 5638        |
| 43                | Fannin               | HRWW               | Syngenta              | 277                     | 4989        | 5423        |
| 44                | Trical 348           | TRIT               | Syngenta              | 35                      | 5317        | 5351        |
| 45                | TX08A001249*         | HRWW               | TAMU                  | 64                      | 5326        | 5351        |
| <b>Mean</b>       |                      |                    |                       | <b>855</b>              | <b>7082</b> | <b>7854</b> |
| <b>LSD (5%)</b>   |                      |                    |                       | <b>289</b>              | <b>2967</b> | <b>3051</b> |
| <b>CV (%)</b>     |                      |                    |                       | <b>24</b>               | <b>20</b>   | <b>19</b>   |

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>All Ryegrass Varieties are Tetraploids EXCEPT Gulf, Marshal, and TAM 90.

<sup>2</sup>Hard Red Winter Wheat (HRWW)

Soft Red Winter Wheat (SRWW)

Triticale (TRIT)

Spring Barley (SB)

Winter Barley (WB)

<sup>a</sup>Rank is based on Total Forage Weight



**2015 Small Grains Forage Trial - McGregor (Dryland) Clip 1 (12/17/14) Forage Quality Data**

|                   |                      |                    |                       |                            | Component of Forage (%) |                               |                            |      |                   |      |
|-------------------|----------------------|--------------------|-----------------------|----------------------------|-------------------------|-------------------------------|----------------------------|------|-------------------|------|
| Rank <sup>a</sup> | Variety <sup>1</sup> | Class <sup>2</sup> | Company               | Dry Matter<br>Yield (lb/a) |                         |                               |                            |      |                   |      |
|                   |                      |                    |                       |                            | Crude<br>Protein        | Neutral<br>Detergent<br>Fiber | Acid<br>Detergent<br>Fiber | TDN  | IVDM <sup>a</sup> | Ash  |
| 1                 | Horizon 306          | Oat                | Plantation Seed       | 1773                       | 25.1                    | 33.8                          | 21.0                       | 74.2 | 86.7              | 13.4 |
| 2                 | OKAY                 | Oat                | Noble Foundation      | 1726                       | 24.8                    | 33.8                          | 20.5                       | 74.5 | 87.3              | 13.2 |
| 3                 | Horizon 201          | Oat                | Plantation Seed       | 1605                       | 25.8                    | 33.2                          | 20.8                       | 74.7 | 87.5              | 13.9 |
| 4                 | Fridge**             | TRIT               | Elliot Plant Breeding | 1604                       | 25.6                    | 38.5                          | 24.4                       | 71.8 | 84.9              | 14.2 |
| 5                 | Prine                | Ryegrass           | UF                    | 1399                       | 25.5                    | 30.5                          | 21.1                       | 74.3 | 87.3              | 15.0 |
| 6                 | Bob                  | Oat                | UA                    | 1371                       | 26.3                    | 33.4                          | 20.4                       | 75.2 | 87.0              | 14.0 |
| 7                 | Heavy Grazer 76-30   | Oat                | East Texas Seed       | 1350                       | 26.2                    | 32.5                          | 19.6                       | 75.7 | 87.4              | 13.2 |
| 8                 | TAMO 606             | Oat                | TAMU                  | 1295                       | 26.7                    | 34.3                          | 19.7                       | 75.8 | 87.4              | 14.3 |
| 9                 | Walken               | Oat                | UK                    | 1289                       | 25.4                    | 33.3                          | 20.2                       | 75.0 | 87.5              | 13.6 |
| 10                | Horizon 270          | Oat                | Plantation Seed       | 1273                       | 24.9                    | 33.3                          | 19.1                       | 75.6 | 86.8              | 13.6 |
| 11                | TAMO 411             | Oat                | TAMU                  | 1264                       | 25.7                    | 33.2                          | 20.3                       | 75.0 | 86.7              | 13.5 |
| 12                | RAM 99016            | Oat                | LSU                   | 1261                       | 27.3                    | 32.5                          | 20.0                       | 75.8 | 87.3              | 13.5 |
| 13                | P-919**              | WB                 | Paramount Seeds       | 1242                       | 25.6                    | 34.8                          | 22.0                       | 73.7 | 87.7              | 13.1 |
| 14                | TX09CS1029*          | Oat                | TAMU                  | 1140                       | 25.9                    | 31.2                          | 20.0                       | 75.3 | 87.9              | 13.1 |
| 15                | Nelson               | Ryegrass           | TAMU                  | 1120                       | 24.1                    | 31.9                          | 21.8                       | 73.3 | 87.0              | 15.3 |
| 16                | TX07CS1948*          | Oat                | TAMU                  | 1080                       | 24.7                    | 32.3                          | 19.2                       | 75.5 | 87.4              | 12.8 |
| 17                | TAMbar 501           | WB                 | TAMU                  | 1065                       | 26.7                    | 34.0                          | 22.3                       | 73.8 | 87.3              | 13.8 |
| 18                | TX07CS2257*          | Oat                | TAMU                  | 1062                       | 25.5                    | 31.8                          | 18.9                       | 76.0 | 87.2              | 12.9 |
| 19                | SunGrazer Plus       | Ryegrass           | Oregro Seeds, Inc     | 1036                       | 26.2                    | 30.8                          | 22.3                       | 73.7 | 87.6              | 15.6 |
| 20                | TAM 114              | HRWW               | TAMU                  | 965                        | 26.5                    | 37.3                          | 22.2                       | 73.8 | 85.8              | 13.7 |
| 21                | SY Razor**           | HRWW               | Syngenta              | 954                        | 27.2                    | 37.1                          | 22.4                       | 73.9 | 85.8              | 13.8 |
| 22                | Duster               | HRWW               | OSU                   | 885                        | 25.5                    | 38.5                          | 22.3                       | 73.4 | 85.1              | 14.1 |
| 23                | TAMcale 6331         | TRIT               | TAMU                  | 875                        | 28.7                    | 34.1                          | 21.8                       | 74.9 | 87.0              | 13.7 |
| 24                | TX09CS031*           | Oat                | TAMU                  | 831                        | 27.5                    | 32.8                          | 20.6                       | 75.4 | 86.6              | 13.3 |
| 25                | TAM 90               | Ryegrass           | TAMU                  | 809                        | 26.1                    | 33.4                          | 22.2                       | 73.7 | 86.1              | 15.4 |
| 26                | TAM 204**            | HRWW               | TAMU                  | 770                        | 28.0                    | 36.6                          | 20.7                       | 75.5 | 86.6              | 13.9 |
| 27                | TAMTBO               | Ryegrass           | TAMU                  | 759                        | 25.5                    | 33.0                          | 21.7                       | 73.8 | 86.0              | 14.8 |
| 28                | Maton II             | Rye                | Noble Foundation      | 747                        | 27.7                    | 36.1                          | 21.5                       | 74.8 | 88.2              | 13.4 |
| 29                | NF 201(NF96210)      | TRIT               | Noble Foundation      | 728                        | 28.7                    | 35.2                          | 20.9                       | 75.6 | 87.5              | 14.5 |
| 30                | Gulf                 | Ryegrass           | TAMU                  | 726                        | 25.9                    | 32.2                          | 22.1                       | 73.7 | 86.3              | 15.8 |
| 31                | Marshal              | Ryegrass           | Wax Company           | 670                        | 27.8                    | 31.9                          | 20.6                       | 75.5 | 86.9              | 15.0 |
| 32                | Oklon                | Rye                | Noble Foundation      | 654                        | 28.0                    | 34.6                          | 20.4                       | 75.8 | 87.4              | 13.6 |
| 33                | NF 101               | TRIT               | Noble Foundation      | 572                        | 28.5                    | 36.0                          | 21.7                       | 74.9 | 85.6              | 14.3 |
| 34                | Elbon                | Rye                | Noble Foundation      | 526                        | 26.7                    | 35.4                          | 20.8                       | 75.0 | 87.2              | 13.4 |
| 35                | Maton                | Rye                | Noble Foundation      | 469                        | 27.2                    | 35.5                          | 20.6                       | 75.3 | 87.8              | 13.3 |
| 36                | TAMcale 5019         | TRIT               | TAMU                  | 296                        | 29.6                    | 33.7                          | 19.9                       | 76.7 | 86.5              | 13.8 |
| 37                | Fannin               | HRWW               | Syngenta              | 277                        | 29.2                    | 36.3                          | 20.7                       | 76.0 | 86.1              | 14.5 |
| 38                | TAM 401**            | HRWW               | TAMU                  | 274                        | 29.0                    | 36.1                          | 21.0                       | 75.7 | 86.4              | 14.3 |
| 39                | WB Redhawk           | HRWW               | Monsanto              | 203                        | 27.7                    | 37.6                          | 21.3                       | 74.9 | 86.2              | 13.9 |
| 40                | Weathermaster 135**  | HRWW               | Unknown               | 177                        | 29.9                    | 34.7                          | 20.1                       | 76.7 | 86.7              | 14.6 |
| 41                | WB Grainfield        | HRWW               | Monsanto              | 99                         | 27.2                    | 36.2                          | 20.1                       | 75.7 | 85.5              | 14.1 |
| 42                | TX09A001194*         | HRWW               | TAMU                  | 77                         | 29.0                    | 35.9                          | 20.1                       | 76.4 | 84.7              | 14.0 |
| 43                | TX09D1172*           | HRWW               | TAMU                  | 73                         | 28.9                    | 35.2                          | 20.5                       | 76.0 | 86.2              | 14.6 |
| 44                | TX08A001249*         | HRWW               | TAMU                  | 64                         | 29.9                    | 35.3                          | 20.5                       | 76.4 | 87.2              | 15.5 |
| 45                | Trical 348           | TRIT               | Syngenta              | 35                         | ---                     | ---                           | ---                        | ---  | ---               | ---  |
| Mean              |                      |                    |                       | 854.8                      | 26.9                    | 34.3                          | 20.9                       | 75.0 | 86.8              | 14.0 |
| LSD (5%)          |                      |                    |                       | 288.6                      | 2.3                     | 2.9                           | 1.4                        | 1.6  | 1.6               | 1.2  |
| CV (%)            |                      |                    |                       | 24.1                       | 4.3                     | 4.2                           | 3.3                        | 1.0  | 0.9               | 4.1  |

<sup>a</sup>In Vitro True Digestibility

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>All Ryegrass Varieties are Tetraploids EXCEPT Gulf, Marshal, and TAM 90.

<sup>2</sup>Hard Red Winter Wheat (HRWW)

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

**2015 Small Grains Forage Trial - McGregor (Dryland) Clip 2 (4/30/15) Forage Quality Data (Single Replication)**

| Rank <sup>a</sup> | Variety <sup>1</sup> | Class <sup>2</sup> | Company               | Dry Matter Yield (lb/a) | Component of Forage (%) |                         |                      |      |                   |      |
|-------------------|----------------------|--------------------|-----------------------|-------------------------|-------------------------|-------------------------|----------------------|------|-------------------|------|
|                   |                      |                    |                       |                         | Crude Protein           | Neutral Detergent Fiber | Acid Detergent Fiber | TDN  | IVDM <sup>a</sup> | Ash  |
| 1                 | TAMO 411             | Oat                | TAMU                  | 11055                   | 4.1                     | 57.6                    | 36.2                 | 54.9 | 54.8              | 9.6  |
| 2                 | Heavy Grazer 76-30   | Oat                | East Texas Seed       | 10870                   | 5.3                     | 57.1                    | 36.6                 | 55.1 | 61.2              | 7.6  |
| 3                 | TX07CS2257*          | Oat                | TAMU                  | 9822                    | 4.9                     | 58.1                    | 34.3                 | 56.7 | 54.3              | 6.7  |
| 4                 | NF 201(NF96210)      | TRIT               | Noble Foundation      | 9760                    | 4.5                     | 60.7                    | 39.2                 | 52.8 | 52.3              | 7.8  |
| 5                 | TAMO 606             | Oat                | TAMU                  | 9279                    | 6.3                     | 55.6                    | 36.8                 | 55.3 | 63.0              | 8.8  |
| 6                 | TX09CS031*           | Oat                | TAMU                  | 8893                    | 5.1                     | 56.6                    | 34.2                 | 56.9 | 61.3              | 8.2  |
| 7                 | TAMbar 501           | WB                 | TAMU                  | 8762                    | 5.1                     | 58.9                    | 38.0                 | 54.0 | 55.7              | 9.7  |
| 8                 | Fridge**             | TRIT               | Elliot Plant Breeding | 8456                    | 5.6                     | 66.1                    | 41.5                 | 51.4 | 55.5              | 5.3  |
| 9                 | Marshal              | Ryegrass           | Wax Company           | 8077                    | 5.7                     | 56.8                    | 35.2                 | 56.3 | 63.3              | 7.5  |
| 10                | Horizon 306          | Oat                | Plantation Seed       | 8069                    | 3.9                     | 53.8                    | 36.3                 | 54.9 | 60.1              | 7.9  |
| 11                | Bob                  | Oat                | UA                    | 7900                    | 5.0                     | 53.0                    | 36.1                 | 55.4 | 60.7              | 7.9  |
| 12                | TAM 204**            | HRWW               | TAMU                  | 7697                    | 4.1                     | 65.9                    | 40.4                 | 51.8 | 49.1              | 10.5 |
| 13                | Walken               | Oat                | UK                    | 7569                    | 6.9                     | 61.4                    | 37.9                 | 54.6 | 65.9              | 9.9  |
| 14                | Oklon                | Rye                | Noble Foundation      | 7519                    | 5.3                     | 64.5                    | 39.4                 | 52.9 | 53.5              | 7.2  |
| 15                | Duster               | HRWW               | OSU                   | 7441                    | 3.9                     | 64.3                    | 42.9                 | 49.8 | 47.9              | 11.7 |
| 16                | Nelson               | Ryegrass           | TAMU                  | 7410                    | 3.8                     | 51.0                    | 36.4                 | 54.7 | 65.4              | 5.3  |
| 17                | Horizon 201          | Oat                | Plantation Seed       | 7348                    | 4.8                     | 51.2                    | 34.1                 | 56.8 | 63.2              | 8.1  |
| 18                | OKAY                 | Oat                | Noble Foundation      | 7187                    | 4.8                     | 59.5                    | 37.7                 | 54.1 | 57.1              | 9.2  |
| 19                | RAM 99016            | Oat                | LSU                   | 7146                    | 5.0                     | 54.1                    | 34.8                 | 56.3 | 58.6              | 8.7  |
| 20                | TAM 90               | Ryegrass           | TAMU                  | 7116                    | 4.5                     | 60.8                    | 40.5                 | 51.8 | 55.2              | 8.6  |
| 21                | TAM 114              | HRWW               | TAMU                  | 7087                    | 5.4                     | 58.8                    | 43.4                 | 49.9 | 49.7              | 11.4 |
| 22                | TX07CS1948*          | Oat                | TAMU                  | 6939                    | 5.5                     | 52.8                    | 29.5                 | 60.6 | 63.3              | 10.1 |
| 23                | P-919**              | WB                 | Paramount Seeds       | 6825                    | 3.5                     | 67.0                    | 47.0                 | 46.5 | 50.6              | 9.8  |
| 24                | SunGrazer Plus       | Ryegrass           | Oregro Seeds, Inc     | 6748                    | 4.5                     | 57.8                    | 38.1                 | 53.6 | 61.3              | 7.8  |
| 25                | TAMTBO               | Ryegrass           | TAMU                  | 6702                    | 5.9                     | 52.6                    | 36.2                 | 55.6 | 64.0              | 7.1  |
| 26                | WB Redhawk           | HRWW               | Monsanto              | 6680                    | 5.6                     | 46.2                    | 34.0                 | 57.2 | 52.0              | 8.1  |
| 27                | TX09D1172*           | HRWW               | TAMU                  | 6641                    | 6.2                     | 56.7                    | 34.8                 | 56.8 | 52.8              | 8.4  |
| 28                | Prine                | Ryegrass           | UF                    | 6586                    | 5.8                     | 55.1                    | 37.5                 | 54.5 | 63.9              | 7.8  |
| 29                | Gulf                 | Ryegrass           | TAMU                  | 6532                    | 3.4                     | 58.5                    | 41.5                 | 50.6 | 59.0              | 4.9  |
| 30                | WB Grainfield        | HRWW               | Monsanto              | 6497                    | 5.2                     | 62.0                    | 37.1                 | 54.7 | 56.6              | 10.2 |
| 31                | TX09CS1029*          | Oat                | TAMU                  | 6242                    | 5.0                     | 54.9                    | 34.4                 | 56.7 | 60.7              | 8.2  |
| 32                | TAMcale 6331         | TRIT               | TAMU                  | 6205                    | 4.5                     | 64.0                    | 41.5                 | 51.1 | 49.0              | 8.0  |
| 33                | SY Razor**           | HRWW               | Syngenta              | 6094                    | 5.1                     | 50.2                    | 33.9                 | 57.1 | 53.6              | 7.0  |
| 34                | TAMcale 5019         | TRIT               | TAMU                  | 6083                    | 4.8                     | 64.4                    | 37.0                 | 54.6 | 55.2              | 8.2  |
| 35                | NF 101               | TRIT               | Noble Foundation      | 5992                    | 4.1                     | 67.8                    | 44.1                 | 48.9 | 49.7              | 10.1 |
| 36                | Elbon                | Rye                | Noble Foundation      | 5803                    | 4.5                     | 62.9                    | 39.5                 | 52.6 | 53.1              | 6.5  |
| 37                | Maton II             | Rye                | Noble Foundation      | 5785                    | 3.7                     | 68.7                    | 44.7                 | 48.3 | 46.7              | 6.3  |
| 38                | TX09A001194*         | HRWW               | TAMU                  | 5592                    | 8.5                     | 54.9                    | 35.1                 | 57.4 | 56.0              | 10.0 |
| 39                | Horizon 270          | Oat                | Plantation Seed       | 5538                    | 5.3                     | 54.0                    | 34.8                 | 56.5 | 60.5              | 8.9  |
| 40                | Weathermaster 135**  | HRWW               | Unknown               | 5486                    | 8.8                     | 55.9                    | 34.1                 | 58.3 | 57.6              | 8.9  |
| 41                | TAM 401**            | HRWW               | TAMU                  | 5450                    | 5.3                     | 57.7                    | 33.1                 | 57.8 | 54.4              | 8.9  |
| 42                | Maton                | Rye                | Noble Foundation      | 5368                    | 3.7                     | 69.3                    | 41.8                 | 50.5 | 49.6              | 7.5  |
| 43                | TX08A001249*         | HRWW               | TAMU                  | 5326                    | 5.3                     | 57.3                    | 37.0                 | 54.8 | 55.6              | 8.5  |
| 44                | Trical 348           | TRIT               | Syngenta              | 5317                    | 5.0                     | 58.2                    | 39.1                 | 53.0 | 59.7              | 6.5  |
| 45                | Fannin               | HRWW               | Syngenta              | 4989                    | 5.8                     | 58.7                    | 39.3                 | 53.2 | 52.4              | 9.6  |
|                   |                      |                    |                       | <b>Mean</b>             | <b>7082.0</b>           | ---                     | ---                  | ---  | ---               | ---  |
|                   |                      |                    |                       | <b>LSD (5%)</b>         | <b>2967.4</b>           | ---                     | ---                  | ---  | ---               | ---  |
|                   |                      |                    |                       | <b>CV (%)</b>           | <b>20.3</b>             | ---                     | ---                  | ---  | ---               | ---  |

<sup>a</sup>In Vitro True Digestibility

\*Experimental Lines

\*\*Awnless/Beardless

<sup>1</sup>All Ryegrass Varieties are Tetraploids EXCEPT Gulf, Marshal, and TAM 90.

<sup>2</sup>Hard Red Winter Wheat (HRWW)

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

## 2015 Small Grains Forage Trial - McGregor (Dryland) Species Quality Data

### Clip 1: 12/17/14

|                   |                    | Component of Forage (%)    |                  |                               |                            |      |       |      |
|-------------------|--------------------|----------------------------|------------------|-------------------------------|----------------------------|------|-------|------|
|                   |                    | Dry Matter<br>Yield (lb/a) | Crude<br>Protein | Neutral<br>Detergent<br>Fiber | Acid<br>Detergent<br>Fiber | TDN  | IVDM^ | Ash  |
| Rank <sup>a</sup> | Class <sup>1</sup> |                            |                  |                               |                            |      |       |      |
| 1                 | Oat                | 1309                       | 25.8             | 33.0                          | 20.0                       | 75.3 | 87.2  | 13.4 |
| 2                 | WB                 | 1153                       | 26.1             | 34.4                          | 22.1                       | 73.8 | 87.5  | 13.4 |
| 3                 | Ryegrass           | 931                        | 25.9             | 31.9                          | 21.7                       | 74.0 | 86.8  | 15.3 |
| 4                 | TRIT               | 685                        | 28.2             | 35.4                          | 21.5                       | 75.0 | 86.5  | 14.0 |
| 5                 | Rye                | 599                        | 27.2             | 35.7                          | 21.0                       | 75.0 | 87.7  | 13.4 |
| 6                 | HRWW               | 401                        | 28.2             | 36.4                          | 21.0                       | 75.4 | 86.0  | 14.2 |
| Mean              |                    | 854.8                      | 26.9             | 34.3                          | 20.9                       | 75.0 | 86.8  | 14.0 |
| LSD (5%)          |                    | 230.3                      | 1.3              | 1.4                           | 0.9                        | 1.0  | 0.8   | 0.5  |
| CV (%)            |                    | 42.9 <sup>b</sup>          | 5.2              | 4.3                           | 4.7                        | 1.4  | 1.0   | 4.2  |

### Clip 2: 4/30/15

|                   |                    | Component of Forage (%)    |                  |                               |                            |      |       |      |
|-------------------|--------------------|----------------------------|------------------|-------------------------------|----------------------------|------|-------|------|
|                   |                    | Dry Matter<br>Yield (lb/a) | Crude<br>Protein | Neutral<br>Detergent<br>Fiber | Acid<br>Detergent<br>Fiber | TDN  | IVDM^ | Ash  |
| Rank <sup>a</sup> | Class <sup>1</sup> |                            |                  |                               |                            |      |       |      |
| 1                 | Oat                | 8024                       | 5.1              | 55.7                          | 35.3                       | 56.1 | 60.3  | 8.5  |
| 2                 | WB                 | 7793                       | 4.3              | 63.0                          | 42.5                       | 50.2 | 53.1  | 9.8  |
| 3                 | Ryegrass           | 7025                       | 4.8              | 56.1                          | 37.9                       | 53.9 | 61.7  | 7.0  |
| 4                 | TRIT               | 6969                       | 4.8              | 63.7                          | 40.3                       | 52.1 | 53.5  | 7.6  |
| 5                 | HRWW               | 6281                       | 5.8              | 57.4                          | 37.1                       | 54.9 | 53.2  | 9.4  |
| 6                 | RYE                | 6119                       | 4.0              | 67.0                          | 42.0                       | 50.5 | 49.8  | 6.7  |
| Mean              |                    | 7082.0                     | 5.1              | 58.5                          | 37.7                       | 54.2 | 56.6  | 8.3  |
| LSD (5%)          |                    | 1441.1                     | 1.4              | 5.3                           | 3.8                        | 3.1  | 4.4   | 1.6  |
| CV (%)            |                    | 22.7                       | 20.2             | 6.9                           | 7.6                        | 4.4  | 5.9   | 14.8 |

<sup>^</sup>In Vitro True Digestibility

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

Triticale (TRIT)

Winter Barley (WB)

<sup>a</sup>Rank is based on Forage Yield

<sup>b</sup>Trials with a coefficient of variation (CV)  $\geq$  25% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.

### 2015 Ryegrass Forage Trial - Overton (Dryland)

|                   |                         | Dry Matter Yield (lb/a) |             |             |             |                  |                    |
|-------------------|-------------------------|-------------------------|-------------|-------------|-------------|------------------|--------------------|
| 2015              |                         | Clip 1                  | Clip 2      | Clip 3      | Clip 4      | 2015             | 2012-2015          |
| Rank <sup>a</sup> | Variety                 | 1/27/15                 | 3/25/15     | 4/21/15     | 5/29/15     | Total<br>4 Clips | Average<br>3 Years |
| 1                 | B-13.0414 <sup>*b</sup> | 1404                    | 3960        | 2641        | 2709        | 10714            | ---                |
| 2                 | TAMTBO                  | 470                     | 3650        | 3979        | 2539        | 10638            | 8265               |
| 3                 | Lonestar                | 956                     | 3387        | 3204        | 2501        | 10048            | 7235               |
| 4                 | M2CVS*                  | 638                     | 3141        | 3224        | 2746        | 9749             | 7094               |
| 5                 | Nelson                  | 745                     | 3495        | 2973        | 2424        | 9637             | 7639               |
| 6                 | Jackson                 | 771                     | 3267        | 2784        | 2666        | 9488             | 7400               |
| 7                 | Winterhawk              | 827                     | 3788        | 2338        | 2488        | 9441             | 6681               |
| 8                 | TARX 10-1*              | 647                     | 2915        | 2859        | 2916        | 9337             | 7144               |
| 9                 | Prine                   | 737                     | 3448        | 2952        | 2184        | 9321             | 7033               |
| 10                | ME-4*                   | 906                     | 2939        | 2875        | 2598        | 9318             | 6561               |
| 11                | TARX 10-6*              | 628                     | 2968        | 2869        | 2519        | 8984             | 6642               |
| 12                | Flying A                | 858                     | 2878        | 2625        | 2594        | 8955             | 7629               |
| 13                | GO-FLN2 <sup>*b</sup>   | 380                     | 2783        | 3008        | 2745        | 8916             | ---                |
| 14                | B-14.1187 <sup>*b</sup> | 683                     | 3376        | 2567        | 2289        | 8915             | ---                |
| 15                | GO-TT2 <sup>*b</sup>    | 536                     | 2508        | 3809        | 1989        | 8842             | ---                |
| 16                | TAM 90                  | 611                     | 2470        | 3478        | 2079        | 8638             | 6754               |
| 17                | Marshall                | 714                     | 3315        | 2566        | 2000        | 8595             | 7412               |
| 18                | Diamond T               | 685                     | 3158        | 2465        | 2199        | 8507             | 7288               |
| 19                | Tetrastar               | 578                     | 2389        | 3284        | 2220        | 8471             | 6777               |
| 20                | ME-94*                  | 795                     | 3201        | 2423        | 1867        | 8286             | 6412               |
| 21                | Big Boss                | 703                     | 2905        | 2429        | 2243        | 8280             | 7124               |
| 22                | Maximus                 | 418                     | 2291        | 3295        | 2132        | 8136             | 6417               |
| 23                | Jumbo                   | 540                     | 2877        | 2539        | 2162        | 8118             | 7628               |
| 24                | 07-WW*                  | 707                     | 2868        | 2437        | 2072        | 8084             | 5930               |
| 25                | Bill <sup>b</sup>       | 380                     | 2788        | 2559        | 2282        | 8009             | ---                |
| 26                | Attain <sup>b</sup>     | 502                     | 2016        | 3068        | 2375        | 7961             | ---                |
| 27                | Gulf                    | 551                     | 2524        | 2780        | 2103        | 7958             | 6515               |
| 28                | B-14.0047 <sup>*b</sup> | 460                     | 2708        | 2294        | 2336        | 7798             | ---                |
| 29                | Ed <sup>b</sup>         | 413                     | 2583        | 2510        | 2156        | 7662             | ---                |
| 30                | Fria <sup>b</sup>       | 427                     | 2371        | 2623        | 2199        | 7620             | ---                |
| 31                | Passerel Plus           | 641                     | 2335        | 2654        | 1936        | 7566             | 6268               |
| 32                | Meroa <sup>b</sup>      | 373                     | 2181        | 2707        | 2124        | 7385             | ---                |
| <b>Mean</b>       |                         | <b>646</b>              | <b>2921</b> | <b>2838</b> | <b>2325</b> | <b>8731</b>      | <b>---</b>         |
| <b>LSD (5%)</b>   |                         | <b>481</b>              | <b>874</b>  | <b>736</b>  | <b>572</b>  | <b>1650</b>      | <b>---</b>         |
| <b>CV (%)</b>     |                         | <b>63<sup>c</sup></b>   | <b>25</b>   | <b>22</b>   | <b>21</b>   | <b>16</b>        | <b>---</b>         |

\*Experimental Line - Not commercially available

<sup>a</sup>Rank is based on Total Forage Weight

<sup>b</sup>Entry not tested over last 3 years.

<sup>c</sup>Trials with a coefficient of variation (CV)  $\geq$  25% contain excessive experimental error.

Readers should consider trials in a similar environment to confirm varietal yield.

### 2015 Small Grains Forage Trial - Overton (Dryland)

| Rank <sup>a</sup> | Variety             | Class <sup>1</sup> | Company          | Dry Matter Yield (lb/a) |                   |                       |                  |
|-------------------|---------------------|--------------------|------------------|-------------------------|-------------------|-----------------------|------------------|
|                   |                     |                    |                  | Clip 1<br>1/27/15       | Clip 2<br>3/25/15 | Clip 3<br>4/21/15     | Total<br>3 Clips |
| 1                 | TX RYE Experimental | Rye                | TAMU             | 247                     | 1666              | 4767                  | 6680             |
| 2                 | Heavy Grazer 76-30  | Oat                | East Texas Seed  | 188                     | 1222              | 4650                  | 6060             |
| 3                 | Elbon               | Rye                | Noble Foundation | 245                     | 1781              | 2893                  | 4919             |
| 4                 | Rymin               | Rye                | Hancock Seed Co. | 103                     | 719               | 3206                  | 4028             |
| <b>Mean</b>       |                     |                    |                  | <b>156</b>              | <b>1078</b>       | <b>3103</b>           | <b>4337</b>      |
| <b>LSD (5%)</b>   |                     |                    |                  | <b>109</b>              | <b>215</b>        | <b>1105</b>           | <b>1166</b>      |
| <b>CV (%)</b>     |                     |                    |                  | <b>55<sup>b</sup></b>   | <b>16</b>         | <b>28<sup>b</sup></b> | <b>21</b>        |

<sup>a</sup>Rank is based on Total Forage Weight

<sup>b</sup>Trials with a coefficient of variation (CV)  $\geq 25\%$  contain excessive experimental error.  
 Readers should consider trials in a similar environment to confirm varietal yield.

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