

2010 Texas Panhandle Forage Sorghum Silage Trial

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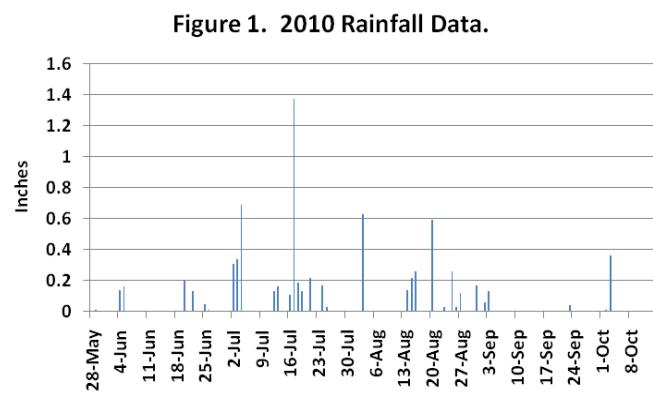
Introduction

This year's silage trial consisted of 56 entries that included 16 conventional and 32 BMR forage sorghums (including sorghum-sudangrass). Eight photoperiod sensitive (PS) sorghums were also entered in the trial. The trial was located at the Texas AgriLife Research Station approximately 8 miles west of Amarillo. Silage trial summaries from previous years are posted at the Amarillo AgriLife website at <http://amarillo.tamu.edu/programs>. In addition to the silage trials, summaries of limited irrigated sorghum hay trials are posted at the same website.

Methods and Materials

Seed companies on a per fee basis submitted all varieties that are included in the trial. Several male sterile varieties were included. With the exception of the photoperiod sensitive (PS) varieties, all entries were capable of producing grain due to cross-pollination that occurred in the field with other varieties. Seed companies will provide pollinator seed for male sterile varieties upon request. Entries were planted in a randomized block design in four row plots planted on 30-inch raised beds. Irrigation was applied by furrow and the three replications (blocks) were

stacked with the first replication being closest to the gated pipe, followed by the second and third replications. Irrigation scheduling was determined by monitoring gypsum blocks in four randomly selected plots. Each of these plots had three gypsum blocks placed in the soil at depths of 1, 2, and 3 feet. Gypsum blocks were read weekly and all plots were irrigated when the average of the three moisture blocks fell below 60. Approximately 12 inches of irrigation



Other cultural practices and study information are listed below:

| | |
|----------------------|--|
| Trial Location: | Bush farm located one mile north of Bushland, TX |
| Cooperator: | Texas AgriLife Research |
| Previous Crop: | Fallow |
| Soil Type: | Pullman Clay Loam, pH = 7.4 |
| Plot Size: | Four, 30 inch rows by 25 ft |
| Replications: | 3 |
| Study Design: | Randomized complete block |
| Planting Date: | May 28, 2010 |
| Planting Rate: | 100,000 seed/acre |
| Seed Method: | John Deere Max-emerge Planter |
| Fertilizer: | Applied 212 lb/acre N and 80 lb/acre P ₂ O ₅ based on soil test results for a 30 ton/acre yield. |
| Herbicide: | One lb/acre atrazine applied three days after planting. |
| Irrigation: | Furrow irrigated based on moisture block readings. |
| Silage Harvest Date: | Approximately 12 inches applied during the growing season. Plots were checked weekly and harvested when grain was in the soft dough stage. Harvest dates ranged from September 1 st to October 13 th and are reported in Table 2. |
| Grain Harvest Date: | November 2 nd . Only from those entries where it was requested by the specific seed company. |

Data Collected:

- Plant height (ft) at silage harvest
- Lodging at silage harvest. Percent of fallen or significantly leaning plants per plot.
- Forage (silage) yield. Collected at or near the soft dough stage from 10 feet of row. Yield is reported at 65% moisture in tons/acre.
- Nutrient analysis: Whole plant sub-samples were collected from the yield sample immediately after harvest, chopped, and frozen. These sub-samples were sent to Dairy One Laboratory, Ithaca, NY for analysis. All nutrient constituents were adjusted to a 100% moisture-free basis.
- Grain yield was collected from 10 feet of row. Samples were thrashed and yield reported in lb/acre. *Grain yield was not corrected for moisture.*
- Key Nutrient Analysis Definitions

Crude Protein: 6.25 times % total nitrogen

TDN: Estimate of Total Digestible Nutrients

NDF: Neutral Detergent Fiber; cell wall fraction of the forage

ADF: % Acid Detergent Fiber; constituent of the cell wall includes cellulose and lignin; inversely related to energy availability

NEl: Estimate of Net Energy for lactation

NEm: Estimate of Net Energy for maintenance

NEG: Estimate of Net Energy for gain

IVTD: % In Vitro True Digestibility; positively related to energy availability

NDFD The % of the NDF that is digestible in the rumen

| | |
|-----------------------------------|---|
| RFV: | Relative Feed Value is an index for comparing forages based on digestibility and intake potential. RFV is calculated from ADF and NDF. An RFV of 100 is considered the average score and represents alfalfa hay containing 41% ADF and 53% NDF on a dry matter digestibility. |
| RFQ: | Relative Forage Quality is an index for comparing forages. RFQ is calculated from CP, ADF, NDF, fat, ash and NDF digestibility measured at 48 hours. It should be more reflective of the feeding value of the forage. RFQ is based on the same scoring system as RFV with an average score of 100. The higher the RFQ score the better the quality. |
| Milk lbs/ton: Kd, %/hr | A projection of potential milk yield per ton for forage dry matter. NDF digestion rate |

Results and Discussion

A summary of yield, agronomic traits, and nutrient composition, are reported by groups of different sorghum types in Table 1. See Table 2 for a comparison of each specific variety's agronomy characteristics, yield, and nutrient composition.

Table 1. Summary of key characteristics by sorghum type.

| Sorghum Type ¹⁾ | % Lodging @ Harvest | Tons/ac @ 65% Moist. | % Crude Protein | % ADF | % NDF | % Lignin | % Starch | % IVTD | % NDFD | Milk lbs/ton DM | Relative Forage Quality (RFQ) |
|----------------------------|---------------------|----------------------|-----------------|-------------|-------------|-------------|--------------|-------------|-------------|-----------------|-------------------------------|
| NonBMR (16) | 5.8 | 24.6 | 7.9 | 30.9 | 48.1 | 3.9 | 19.9 | 78.6 | 55.7 | 2,751 | 143.0 |
| BMR (32) | 17.8 | 23.1 | 8.1 | 29.6 | 46.8 | 3.2 | 16.9 | 81.5 | 60.7 | 2,917 | 154.6 |
| PS NonBMR (5) | 13.0 | 29.6 | 6.1 | 35.8 | 55.8 | 4.0 | 5.6 | 74.5 | 54.5 | 2,486 | 112.5 |
| PS BMR (3) | 6.1 | 26.3 | 5.7 | 34.6 | 54.6 | 3.3 | 5.4 | 77.4 | 58.4 | 2,626 | 116.6 |
| Test Avg. | 13.3 | 24.3 | 8.0 | 30.8 | 48.4 | 3.47 | 16.11 | 79.8 | 58.3 | 2,816 | 145.5 |

¹⁾ Number in parenthesis is the number of hybrids that make up each sorghum type. BMR = Brown midrib, PS = Photoperiod sensitive.

Forage yield test average was 24.3 ton/acre (Tables 1 and 2). As in previous years, average yield was higher with the nonBMR forage sorghums compared to the BMR forage sorghums. However, the gap between the two types appears to be narrowing with the BMRs yielded only 6.5% less than the nonBMRs. Lodging was higher with the BMR sorghums averaging 17.8% compared to 5.8% with the nonBMRs. BMR lodging ranged from 0 to 65% while lodging of the nonBMR sorghums ranged from 0 to 47% (Table 2).

Digestibility and overall forage quality was highest with BMR varieties as estimated by ADF, NDF, IVTD, NDFD, estimated milk produced per ton, and relative forage quality (Table 1). Starch content was higher with the NonBMR sorghums indicating higher grain content.

Highest yield was obtained with the five Photoperiod sensitive (PS) nonBMR varieties averaging 29.6 ton/acre. The PS BMR varieties averaged 26.3 ton/acre. Because of their longer growing season, the PS varieties received 3.5 inches of additional irrigation at the end of the season (Sep 4). Forage digestibility, as measured by % IVTD, was approximately 3 percentage points higher with the PS BMR varieties than the PS nonBMR varieties but less than the non PS sorghums.

Varieties can be ranked in various ways depending on the selection criteria. For this study, it was decided to place an emphasis on digestibility (energy), lodging and yield (Table 3). A list of the top 25% of the varieties was developed by first selecting only the varieties that were statistically highest in % IVTD. Second, all varieties that lodged more than 20% were eliminated. From the remaining varieties, the 14 highest yielding were considered the top 25% varieties in the trial. Of these varieties, yield ranged from a low of 17.4 ton/acre with Sweet Choice BMR to a high of 28.2 ton/acre with GW8528F. Percent IVTD was very good with all varieties and ranged from 82.3% to 86.0%. No lodging was observed in 7 of the varieties. Three of the 14 varieties, BMR Gold X, 84G62, and DairyMaster, also ranked in the top 25% of the 2009 trial.

Many producers are primarily concerned with yield and the ability to not lodge. Figure 2 is a summary of varieties with yields of 25 ton/acre or greater. Of these varieties, 7 had lodging scores of less than 10%. These were; Silobuster, GW3072F GW8528F, SiGro H-44, Millennium, 350FS and FS-5.

Grain yield was collected only from those entries as requested by the seed companies (Table 4). Yield was obtained on November 2nd and 3rd. We were unable to compare grain yield of these forage sorghums to commonly grown grain sorghum varieties. However, in the 2009 trial, MMR 381/73 yielded 106% of the grain yield of the average of AsGrow 571 and Pioneer brand 84G62. These are typically two of the better grain yielding varieties in Texas AgriLife trials. As such, grain yield of the forage sorghums were compared to MMR 381/73. Four varieties 73366X, 105392X, Silo 700D and Great Scott BMR yielded at least 80% of the grain yield of MMR 381/73, or what would be considered the expected yield of good grain sorghum varieties.

Table 2. 2010 Comparison of sorghum hybrids for agronomic characteristics, yield and nutrient composition.

| Variety Information ¹⁾ | | | | | | Lodging, Height, Moisture and Forage Yield ²⁾ | | | | |
|-----------------------------------|-----------------------------|------|----------|-----|--------------|--|----------|---------|------------|-----------------------|
| Hybrid | Company | Type | Maturity | BMR | Male Sterile | Harvest Date | % Lodged | Ht. Ft. | % Moisture | Ton/ac, 65% Moist. |
| GW3072F | Advanta U.S. dba Crosbyton | FS | M | N | N | 7-Sep | 8.3 efg | 6.3 l-o | 66.0 i-q | 30.2 a-e |
| GW8528F | Advanta U.S. dba Crosbyton | FS | M | Y | N | 31-Aug | 5.0 fg | 8.0 f-i | 65.0 l-r | 28.2 a-i |
| Sweet Choice BMR | AR-B Seeds, Inc | FS | M | Y | Y | 31-Aug | 0.0 g | 7.8 ghi | 75.2 a | 17.4 no |
| AS781 | AR-B Seeds, Inc | FS | ML | Y | N | 20-Sep | 23.3 def | 6.0 m-p | 65.6 j-q | 24.9 c-n |
| Blackhawk 12 | Blue River Hybrids | SS | M | Y | N | 7-Sep | 0.0 g | 8.7 def | 67.5 f-o | 19.6 l-o |
| Exp 6810 | Coffey Forage Seeds, Inc | FS | ML | Y | Y | 7-Sep | 0.0 g | 7.7 hij | 66.3 g-p | 24.1 c-o |
| Centurian | Coffey Forage Seeds, Inc | FS | ML | Y | Y | 14-Sep | 15.0 efg | 7.5 hij | 69.1 c-m | 21.6 i-o |
| DSS 73862 | Drussel Seed & Supply, Inc. | FS | L | Y | N | 20-Sep | 65.0 a | 6.0 m-p | 57.7 t | 27.2 b-k |
| HP 1010 BMR | Eastern Colorado Seeds, LLC | FS | ML | Y | Y | 7-Sep | 1.7 g | 8.0 f-i | 70.5 a-j | 23.0 d-o |
| HP BMRDW | Eastern Colorado Seeds, LLC | FS | M | Y | N | 20-Sep | 53.3 ab | 5.8 nop | 58.6 t | 24.2 c-o |
| HP 95BMR | Eastern Colorado Seeds, LLC | FS | ME | Y | N | 31-Aug | 8.3 efg | 7.7 hij | 65.5 j-r | 24.8 c-n |
| MMR 381/73 | MMR Genetics, Ltd | FS | ML | N | N | 7-Sep | 1.7 g | 6.0 m-p | 66.1 h-q | 22.9 d-o |
| 73366X | MMR Genetics, Ltd | FS | ML | N | N | 31-Aug | 1.7 g | 6.5 lmn | 65.1 k-r | 24.1 c-o |
| 105392X | MMR Genetics, Ltd | FS | L | Y | N | 14-Sep | 18.3 efg | 6.7 klm | 68.1 e-n | 22.1 g-o |
| 88366X | MMR Genetics, Ltd | FS | L | Y | N | 7-Sep | 1.7 g | 6.7 klm | 71.8 a-f | 19.5 l-o |
| 88392X | MMR Genetics, Ltd | FS | L | Y | N | 7-Sep | 23.3 def | 7.3 ijk | 73.1 a-e | 22.4 f-o |
| 110381X | MMR Genetics, Ltd | FS | L | N | N | 28-Sep | 1.7 g | 7.0 jkl | 61.0 q-t | 35.2 a |
| 849F | Pioneer Hi-Bred Int., Inc | FS | M | N | N | 7-Sep | 0.0 g | 8.2 e-h | 71.2 a-h | 23.6 c-o |
| 841F | Pioneer Hi-Bred Int., Inc | FS | M | N | N | 7-Sep | 1.7 g | 5.7 op | 70.3 a-k | 16.8 o |
| Silobuster | Production Plus | FS | ML | N | N | 20-Sep | 46.7 ab | 9.2 d | 67.5 f-o | 30.7 abc |
| Red Top Plus bmr | Production Plus | SS | ML | Y | Y | 7-Sep | 0.0 g | 7.8 ghi | 73.3 a-e | 20.0 k-o |
| Bundle King BMR | Richardson Seeds, Ltd | FS | L | Y | Y | 28-Sep | 8.3 efg | 8.7 def | 70.6 a-j | 23.9 c-o |
| Dairy Master BMR | Richardson Seeds, Ltd | FS | ML | Y | N | 7-Sep | 15.0 efg | 8.7 def | 70.5 a-j | 21.8 h-o |
| Pacesetter BMR | Richardson Seeds, Ltd | FS | PS | Y | N | 13-Oct | 5.0 fg | 11.5 b | 73.4 a-d | 26.7 b-l |
| Silo 700D | Richardson Seeds, Ltd | FS | L | N | N | 7-Sep | 0.0 g | 7.3 ijk | 74.2 abc | 24.4 c-n |
| Sweeter 'N Honey BMR | Richardson Seeds, Ltd | SS | M | Y | N | 31-Aug | 41.7 bcd | 8.5 d-g | 71.4 a-g | 22.9 d-o |
| X38400 | Richardson Seeds, Ltd | SS | M | Y | N | 7-Sep | 1.7 g | 8.7 def | 70.1 a-l | 18.9 mno |
| X70400 | Richardson Seeds, Ltd | FS | PS | Y | N | 13-Oct | 11.7 efg | 10.5 c | 73.5 a-d | 24.7 c-n |
| GS9 | Scott Seed Co. | FS | ML | Y | N | 20-Sep | 45.0 bc | 9.2 d | 68.4 d-n | 27.2 b-k |
| BMR Gold | Scott Seed Co. | FS | M | Y | N | 7-Sep | 0.0 g | 7.8 ghi | 67.2 f-o | 24.1 c-o |
| BMR Gold X | Scott Seed Co. | FS | M | Y | Y | 7-Sep | 3.3 g | 7.7 hij | 68.5 d-n | 20.0 k-o |

Table 2. 2010 Comparison of sorghum hybrids for agronomic characteristics, yield and nutrient composition.

| Variety Information ¹⁾ | | | | | | | Lodging, Height, Moisture and Forage Yield ²⁾ | | | | |
|-----------------------------------|-------------------------|------|----------|-----|--------------|--------------|--|---------|------------|-----------------------|--|
| Hybrid | Company | Type | Maturity | BMR | Male Sterile | Harvest Date | % Lodged | Ht. Ft. | % Moisture | Ton/ac, 65% Moist. | |
| Premium Stock LS | Scott Seed Co. | SS | PS | N | N | 13-Oct | 5.0 fg | 11.7 ab | 70.0 b-m | 29.8 a-f | |
| BMR Gold II | Scott Seed Co. | SS | M | Y | N | 7-Sep | 11.7 efg | 9.0 d | 68.3 d-n | 23.4 c-o | |
| Great Scott BMR | Scott Seed Co. | FS | ML | Y | N | 20-Sep | 65.0 a | 6.5 lmn | 63.8 n-s | 29.5 a-g | |
| Canex BMR208 | Sharp Bros. Seed Co. | FS | ME | Y | N | 31-Aug | 1.7 g | 7.7 hij | 69.1 c-m | 23.0 d-o | |
| Canex BMR403 | Sharp Bros. Seed Co. | FS | M | Y | Y | 31-Aug | 1.7 g | 8.2 e-h | 69.7 b-m | 22.8 e-o | |
| Canex | Sharp Bros. Seed Co. | FS | ME | N | Y | 31-Aug | 0.0 g | 7.5 hij | 73.2 a-e | 21.9 h-o | |
| Si-Gro H-44 | Syngenta Seeds Inc | FS | L | N | N | 7-Sep | 0.0 g | 6.5 lmn | 67.8 f-n | 26.2 b-m | |
| 340BMR | Syngenta Seeds Inc | FS | M | Y | N | 20-Sep | 18.3 efg | 5.5 p | 59.3 st | 22.7 e-o | |
| 350FS | Syngenta Seeds Inc | FS | ML | N | N | 14-Sep | 11.7 efg | 10.5 c | 70.5 a-j | 25.4 b-m | |
| Graze-n-Bale+ | Syngenta Seeds Inc | SS | PS | N | N | 13-Oct | 0.0 g | 11.5 b | 74.5 ab | 29.2 a-h | |
| SuperSile 30 | Triumph Seed Co., Inc | FS | ML | N | N | 7-Sep | 8.3 efg | 7.8 ghi | 70.5 a-j | 24.9 c-n | |
| 4Ever Green | Walter Moss Seed Co. | FS | PS | N | N | 13-Oct | 26.7 cde | 12.3 a | 74.1 abc | 26.1 b-m | |
| 4Ever Green BMR | Walter Moss Seed Co. | FS | PS | Y | N | 13-Oct | 1.7 g | 11.2 bc | 73.7 abc | 27.6 b-j | |
| Mega Green | Walter Moss Seed Co. | SS | PS | N | N | 13-Oct | 23.3 def | 12.3 a | 73.8 abc | 30.3 a-d | |
| Millennium BMR | Walter Moss Seed Co. | FS | ML | Y | N | 7-Sep | 16.7 efg | 8.8 de | 67.3 f-o | 25.7 b-m | |
| F-18 BMR | Walter Moss Seed Co. | FS | L | Y | Y | 20-Sep | 10.0 efg | 8.8 de | 66.1 h-q | 23.7 c-o | |
| Integra 31F20 | Wilbur-Ellis Co. | SS | ME | Y | N | 14-Sep | 5.0 fg | 6.7 klm | 61.2 p-t | 20.3 j-o | |
| Integra F10175 | Wilbur-Ellis Co. | FS | L | Y | N | 20-Sep | 60.0 ab | 6.2 m-p | 64.9 m-r | 26.6 b-l | |
| Integra F10165 | Wilbur-Ellis Co. | FS | ML | Y | Y | 7-Sep | 0.0 g | 8.2 e-h | 69.5 b-m | 23.6 c-o | |
| Check 1(Mega Green) | Texas AgriLife Research | SS | PS | N | N | 13-Oct | 10.0 efg | 11.7 ab | 73.1 a-e | 32.8 ab | |
| Check 2 (A571) | Texas AgriLife Research | GS | ML | N | N | 7-Sep | 0.0 g | 4.7 q | 62.6 o-t | 21.2 i-o | |
| Check 3 (84G62) | Texas AgriLife Research | GS | ML | N | N | 7-Sep | 0.0 g | 4.2 q | 61.3 p-t | 19.4 l-o | |
| FS-5 | Forage First | FS | M | N | N | 31-Aug | 0.0 g | 8.2 e-h | 71.3 a-h | 25.3 c-m | |
| 5909 | Forage First | FS | M | N | N | 7-Sep | 11.7 efg | 6.5 lmn | 70.9 a-i | 21.4 i-o | |
| BMR 108 Leafy | Forage First | FS | L | Y | N | 20-Sep | 48.3 ab | 5.8 nop | 60.4 rst | 19.8 k-o | |
| Mean | | | | | | | 13.3 | 8.0 | 68.4 | 24.3 | |
| CV | | | | | | | 90.59 | 5.88 | 4.68 | 19.11 | |

¹⁾ Variety information provided by seed companies. M. sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum-Sudangrass, GS=grain sorghum.

²⁾ Means followed by the same letter do not significantly differ using LSD (P=0.05).

Table 2. 2010 Comparison of sorghum hybrids for agronomic characteristics, yield and nutrient composition.

| Variety Information ¹⁾ | | | | | | Nutrient Composition & Calculations ²⁾ | | | | |
|-----------------------------------|-----------------------------|------|----------|-----|--------------|---|----------|----------|----------|-----------|
| Hybrid | Company | Type | Maturity | BMR | Male Sterile | % Crude Protein | % ADF | % NDF | % Lignin | % Starch |
| GW3072F | Advanta U.S. dba Crosbyton | FS | M | N | N | 7.6 e-p | 32.2 b-m | 50.1 b-n | 4.17 a-g | 19.60 c-k |
| GW8528F | Advanta U.S. dba Crosbyton | FS | M | Y | N | 8.9 a-g | 27.1 l-s | 43.0 l-t | 3.23 f-m | 19.10 c-l |
| Sweet Choice BMR | AR-B Seeds, Inc | FS | M | Y | Y | 9.3 a-e | 29.4 g-s | 46.4 f-s | 2.73 k-q | 10.43 m-p |
| AS781 | AR-B Seeds, Inc | FS | ML | Y | N | 8.7 a-i | 27.8 k-s | 45.1 h-t | 3.23 f-m | 20.77 b-i |
| Blackhawk 12 | Blue River Hybrids | SS | M | Y | N | 7.2 h-s | 33.0 a-k | 51.5 a-i | 3.47 f-l | 10.13 nop |
| Exp 6810 | Coffey Forage Seeds, Inc | FS | ML | Y | Y | 8.4 a-j | 24.6 s | 38.2 t | 2.23 m-q | 18.37 c-l |
| Centurian | Coffey Forage Seeds, Inc | FS | ML | Y | Y | 8.2 a-j | 30.2 e-r | 47.2 d-r | 2.83 j-p | 17.50 d-n |
| DSS 73862 | Drussel Seed & Supply, Inc. | FS | L | Y | N | 8.4 a-j | 31.2 d-p | 50.3 b-n | 3.80 b-j | 17.83 d-m |
| HP 1010 BMR | Eastern Colorado Seeds, LLC | FS | ML | Y | Y | 8.3 a-j | 29.3 g-s | 44.3 i-t | 2.57 l-q | 11.57 l-p |
| HP BMRDW | Eastern Colorado Seeds, LLC | FS | M | Y | N | 8.6 a-i | 28.6 i-s | 46.6 e-r | 3.27 f-l | 21.07 b-i |
| HP 95BMR | Eastern Colorado Seeds, LLC | FS | ME | Y | N | 8.8 a-i | 32.8 a-k | 50.8 a-k | 4.00 b-i | 15.70 f-n |
| MMR 381/73 | MMR Genetics, Ltd | FS | ML | N | N | 7.5 f-q | 36.6 abc | 56.6 ab | 5.10 a | 15.67 f-n |
| 73366X | MMR Genetics, Ltd | FS | ML | N | N | 8.2 a-j | 27.9 k-s | 42.9 m-t | 3.63 c-k | 27.43 ab |
| 105392X | MMR Genetics, Ltd | FS | L | Y | N | 7.8 c-n | 31.1 d-p | 50.6 a-l | 3.03 i-o | 15.93 f-n |
| 88366X | MMR Genetics, Ltd | FS | L | Y | N | 8.5 a-i | 26.7 n-s | 42.2 o-t | 3.20 g-n | 21.03 b-i |
| 88392X | MMR Genetics, Ltd | FS | L | Y | N | 7.8 d-o | 30.0 f-r | 47.4 d-r | 3.33 f-l | 18.80 c-l |
| 110381X | MMR Genetics, Ltd | FS | L | N | N | 7.1 i-s | 33.0 a-k | 51.8 a-i | 4.57 a-d | 19.70 c-j |
| 849F | Pioneer Hi-Bred Int., Inc | FS | M | N | N | 7.9 c-m | 30.9 d-q | 47.8 d-r | 4.17 a-g | 18.17 c-l |
| 841F | Pioneer Hi-Bred Int., Inc | FS | M | N | N | 9.5 abc | 28.8 h-s | 46.1 f-s | 3.60 c-k | 22.87 a-f |
| Silobuster | Production Plus | FS | ML | N | N | 5.7 rst | 34.5 a-g | 53.4 a-f | 4.77 ab | 18.27 c-l |
| Red Top Plus bmr | Production Plus | SS | ML | Y | Y | 8.3 a-j | 28.6 i-s | 42.8 n-t | 1.77 q | 12.03 k-p |
| Bundle King BMR | Richardson Seeds, Ltd | FS | L | Y | Y | 5.9 q-t | 31.5 b-o | 51.4 a-j | 3.37 f-l | 12.47 j-p |
| Dairy Master BMR | Richardson Seeds, Ltd | FS | ML | Y | N | 7.8 c-n | 29.3 g-s | 45.2 h-t | 2.93 j-o | 16.17 f-n |
| Pacesetter BMR | Richardson Seeds, Ltd | FS | PS | Y | N | 5.4 t | 35.0 a-f | 54.8 a-d | 3.70 c-k | 5.13 p |
| Silo 700D | Richardson Seeds, Ltd | FS | L | N | N | 8.2 a-j | 31.3 d-p | 49.0 b-q | 3.73 c-k | 18.03 c-l |
| Sweeter 'N Honey BMR | Richardson Seeds, Ltd | SS | M | Y | N | 7.2 h-s | 32.3 b-l | 51.8 a-i | 4.23 a-f | 18.97 c-l |
| X38400 | Richardson Seeds, Ltd | SS | M | Y | N | 8.0 a-k | 28.0 j-s | 45.0 h-t | 3.53 e-l | 21.70 b-h |
| X70400 | Richardson Seeds, Ltd | FS | PS | Y | N | 6.4 k-t | 34.3 a-g | 54.2 a-e | 3.30 f-l | 5.37 p |
| GS9 | Scott Seed Co. | FS | ML | Y | N | 5.7 st | 32.3 b-l | 50.6 b-m | 4.07 b-h | 14.23 h-n |
| BMR Gold | Scott Seed Co. | FS | M | Y | N | 8.4 a-j | 26.9 m-s | 40.5 rst | 2.20 n-q | 15.10 g-n |
| BMR Gold X | Scott Seed Co. | FS | M | Y | Y | 9.1 a-f | 25.7 qrs | 38.8 st | 2.10 opq | 18.70 c-l |

Table 2. 2010 Comparison of sorghum hybrids for agronomic characteristics, yield and nutrient composition.

| Variety Information ¹⁾ | | | | | | Nutrient Composition & Calculations ²⁾ | | | | |
|-----------------------------------|-------------------------|------|----------|-----|--------------|---|----------|----------|----------|-----------|
| Hybrid | Company | Type | Maturity | BMR | Male Sterile | % Crude Protein | % ADF | % NDF | % Lignin | % Starch |
| Premium Stock LS | Scott Seed Co. | SS | PS | N | N | 6.1 o-t | 34.0 a-h | 52.9 a-g | 3.50 f-l | 5.63 p |
| BMR Gold II | Scott Seed Co. | SS | M | Y | N | 6.8 j-t | 36.0 a-d | 55.9 abc | 4.23 a-f | 11.63 l-p |
| Great Scott BMR | Scott Seed Co. | FS | ML | Y | N | 9.6 ab | 25.1 rs | 41.8 p-t | 3.07 h-o | 23.77 a-e |
| Canex BMR208 | Sharp Bros. Seed Co. | FS | ME | Y | N | 8.1 a-j | 28.2 i-s | 45.4 g-t | 3.43 f-l | 20.77 b-i |
| Canex BMR403 | Sharp Bros. Seed Co. | FS | M | Y | Y | 8.0 a-k | 28.6 i-s | 46.4 f-s | 2.87 j-p | 17.87 c-m |
| Canex | Sharp Bros. Seed Co. | FS | ME | N | Y | 7.4 g-r | 26.1 p-s | 40.6 rst | 2.17 opq | 17.97 c-m |
| Si-Gro H-44 | Syngenta Seeds Inc | FS | L | N | N | 8.7 a-i | 28.5 i-s | 44.8 h-t | 3.80 b-j | 24.27 a-d |
| 340BMR | Syngenta Seeds Inc | FS | M | Y | N | 8.5 a-i | 31.5 c-o | 50.4 b-n | 3.70 c-k | 18.20 c-l |
| 350FS | Syngenta Seeds Inc | FS | ML | N | N | 6.3 l-t | 32.2 b-l | 50.8 a-k | 3.63 c-k | 11.87 l-p |
| Graze-n-Bale+ | Syngenta Seeds Inc | SS | PS | N | N | 5.8 q-t | 36.8 ab | 56.5 ab | 4.07 b-h | 5.10 p |
| SuperSile 30 | Triumph Seed Co., Inc | FS | ML | N | N | 7.5 f-q | 34.5 a-g | 52.3 a-h | 4.20 a-g | 14.20 h-n |
| 4Ever Green | Walter Moss Seed Co. | FS | PS | N | N | 6.1 p-t | 37.8 a | 58.3 a | 4.60 abc | 5.30 p |
| 4Ever Green BMR | Walter Moss Seed Co. | FS | PS | Y | N | 5.2 t | 34.5 a-g | 54.8 a-d | 3.00 i-o | 5.77 p |
| Mega Green | Walter Moss Seed Co. | SS | PS | N | N | 6.2 n-t | 35.4 a-e | 55.6 abc | 4.07 b-h | 5.70 p |
| Millennium BMR | Walter Moss Seed Co. | FS | ML | Y | N | 8.8 a-h | 26.5 o-s | 41.7 q-t | 2.90 j-o | 21.93 b-g |
| F-18 BMR | Walter Moss Seed Co. | FS | L | Y | Y | 6.4 k-t | 33.2 a-j | 53.0 a-g | 3.53 e-l | 13.83 i-o |
| Integra 31F20 | Wilbur-Ellis Co. | SS | ME | Y | N | 9.7 a | 30.7 e-q | 48.7 c-q | 3.83 b-j | 17.57 d-n |
| Integra F10175 | Wilbur-Ellis Co. | FS | L | Y | N | 8.0 a-k | 33.3 a-i | 52.3 a-h | 3.53 e-l | 15.80 f-n |
| Integra F10165 | Wilbur-Ellis Co. | FS | ML | Y | Y | 8.5 a-i | 27.9 k-s | 43.6 k-t | 1.87 pq | 13.83 i-o |
| Check 1(Mega Green) | Texas AgriLife Research | SS | PS | N | N | 6.3 m-t | 35.1 a-f | 55.8 abc | 3.83 b-j | 6.37 op |
| Check 2 (A571) | Texas AgriLife Research | GS | ML | N | N | 9.4 a-d | 27.3 l-s | 43.7 j-t | 3.57 d-l | 25.43 abc |
| Check 3 (84G62) | Texas AgriLife Research | GS | ML | N | N | 9.2 a-e | 26.7 n-s | 41.6 q-t | 3.40 f-l | 29.83 a |
| FS-5 | Forage First | FS | M | N | N | 8.0 b-l | 32.0 b-n | 49.6 b-o | 4.53 a-e | 18.27 c-l |
| 5909 | Forage First | FS | M | N | N | 8.3 a-j | 31.8 b-n | 48.7 c-q | 3.83 b-j | 16.80 d-n |
| BMR 108 Leafy | Forage First | FS | L | Y | N | 8.0 a-k | 30.9 d-q | 49.4 b-p | 3.50 f-l | 16.40 e-n |
| Mean | | | | | | 7.7 | 30.8 | 48.4 | 3.47 | 16.11 |
| CV | | | | | | 13.45 | 10.57 | 9.84 | 18.21 | 29.15 |

¹⁾ Variety information provided by seed companies. M. sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum-Sudangrass, GS=grain sorghum.

²⁾ Means followed by the same letter do not significantly differ using LSD (P=0.05).

Table 2. 2010 Comparison of sorghum hybrids for agronomic characteristics, yield and nutrient composition.

| Variety Information ¹⁾ | | | | | | Nutrient Composition & Calculations ²⁾ | | | | |
|-----------------------------------|-----------------------------|------|----------|-----|--------------|---|----------|------------|------------|-------------|
| Hybrid | Company | Type | Maturity | BMR | Male Sterile | % C FAT | % TDN | 48 hr IVTD | 48 hr NDFD | NEL Mcal/lb |
| GW3072F | Advanta U.S. dba Crosbyton | FS | M | N | N | 1.83 d-k | 63.7 m-q | 76.7 n-q | 54.0 r-w | 0.63 k-p |
| GW8528F | Advanta U.S. dba Crosbyton | FS | M | Y | N | 2.13 a-f | 70.0 a-i | 82.3 a-h | 59.3 e-o | 0.71 a-g |
| Sweet Choice BMR | AR-B Seeds, Inc | FS | M | Y | Y | 2.20 a-e | 71.0 a-f | 82.7 a-h | 63.0 a-f | 0.72 a-f |
| AS781 | AR-B Seeds, Inc | FS | ML | Y | N | 2.20 a-e | 70.0 a-i | 82.3 a-h | 61.0 c-l | 0.71 a-h |
| Blackhawk 12 | Blue River Hybrids | SS | M | Y | N | 1.73 f-k | 64.3 m-q | 78.3 i-p | 57.7 i-s | 0.63 k-p |
| Exp 6810 | Coffey Forage Seeds, Inc | FS | ML | Y | Y | 2.17 a-e | 73.3 a | 85.7 ab | 62.3 a-h | 0.77 a |
| Centurian | Coffey Forage Seeds, Inc | FS | ML | Y | Y | 2.03 b-i | 69.0 b-k | 82.0 b-i | 62.0 b-i | 0.69 c-l |
| DSS 73862 | Drussel Seed & Supply, Inc. | FS | L | Y | N | 2.23 a-d | 66.0 i-p | 79.7 f-o | 59.3 e-o | 0.65 f-p |
| HP 1010 BMR | Eastern Colorado Seeds, LLC | FS | ML | Y | Y | 2.43 ab | 72.7 abc | 84.7 a-d | 65.3 abc | 0.74 abc |
| HP BMRDW | Eastern Colorado Seeds, LLC | FS | M | Y | N | 2.23 a-d | 68.7 c-l | 81.7 c-j | 60.3 d-m | 0.69 b-k |
| HP 95BMR | Eastern Colorado Seeds, LLC | FS | ME | Y | N | 2.23 a-d | 66.7 g-o | 79.7 f-o | 60.3 d-m | 0.65 e-p |
| MMR 381/73 | MMR Genetics, Ltd | FS | ML | N | N | 2.20 a-e | 59.0 r | 73.7 qr | 53.7 s-w | 0.55 qr |
| 73366X | MMR Genetics, Ltd | FS | ML | N | N | 2.20 a-e | 67.0 f-n | 81.0 d-l | 55.7 n-v | 0.69 b-k |
| 105392X | MMR Genetics, Ltd | FS | L | Y | N | 1.80 e-k | 67.7 d-m | 80.0 e-o | 60.3 d-m | 0.66 d-o |
| 88366X | MMR Genetics, Ltd | FS | L | Y | N | 2.20 a-e | 70.7 a-g | 83.3 a-f | 60.3 d-m | 0.73 a-d |
| 88392X | MMR Genetics, Ltd | FS | L | Y | N | 2.07 b-h | 67.3 e-n | 81.3 d-k | 60.7 d-m | 0.67 c-n |
| 110381X | MMR Genetics, Ltd | FS | L | N | N | 2.23 a-d | 64.7 l-q | 76.3 opq | 54.7 p-w | 0.63 k-p |
| 849F | Pioneer Hi-Bred Int., Inc | FS | M | N | N | 2.17 a-e | 65.7 j-p | 77.3 l-q | 53.0 t-w | 0.65 e-p |
| 841F | Pioneer Hi-Bred Int., Inc | FS | M | N | N | 2.17 a-e | 67.7 d-m | 80.7 e-m | 57.3 j-t | 0.68 c-m |
| Silobuster | Production Plus | FS | ML | N | N | 1.53 k | 61.3 qr | 73.7 qr | 51.0 w | 0.58 pqr |
| Red Top Plus bmr | Production Plus | SS | ML | Y | Y | 2.07 b-h | 71.3 a-e | 84.7 a-d | 63.7 a-e | 0.73 a-d |
| Bundle King BMR | Richardson Seeds, Ltd | FS | L | Y | Y | 1.73 f-k | 65.7 j-p | 78.0 j-p | 57.0 k-u | 0.64 g-p |
| Dairy Master BMR | Richardson Seeds, Ltd | FS | ML | Y | N | 2.10 a-g | 69.7 a-j | 82.3 a-h | 60.7 d-m | 0.70 a-i |
| Pacesetter BMR | Richardson Seeds, Ltd | FS | PS | Y | N | 1.63 ijk | 65.0 k-q | 77.7 k-p | 59.3 e-o | 0.61 m-r |
| Silo 700D | Richardson Seeds, Ltd | FS | L | N | N | 1.83 d-k | 66.0 i-p | 79.0 h-o | 57.0 k-u | 0.65 e-p |
| Sweeter 'N Honey BMR | Richardson Seeds, Ltd | SS | M | Y | N | 2.20 a-e | 65.7 j-p | 79.0 h-o | 59.7 d-n | 0.64 h-p |
| X38400 | Richardson Seeds, Ltd | SS | M | Y | N | 2.43 ab | 69.0 b-k | 81.3 d-k | 59.0 f-p | 0.70 a-j |
| X70400 | Richardson Seeds, Ltd | FS | PS | Y | N | 1.83 d-k | 65.0 k-q | 77.7 k-p | 58.3 g-r | 0.62 l-q |
| GS9 | Scott Seed Co. | FS | ML | Y | N | 1.87 d-k | 63.3 n-q | 76.3 opq | 52.7 uvw | 0.62 k-p |
| BMR Gold | Scott Seed Co. | FS | M | Y | N | 2.17 a-e | 71.7 a-d | 86.0 a | 65.7 ab | 0.74 abc |
| BMR Gold X | Scott Seed Co. | FS | M | Y | Y | 2.17 a-e | 73.0 ab | 85.3 abc | 62.7 a-g | 0.76 ab |

Table 2. 2010 Comparison of sorghum hybrids for agronomic characteristics, yield and nutrient composition.

| Variety Information ¹⁾ | | | | | | Nutrient Composition & Calculations ²⁾ | | | | |
|-----------------------------------|-------------------------|------|----------|-----|--------------|---|----------|------------|------------|-------------|
| Hybrid | Company | Type | Maturity | BMR | Male Sterile | % C FAT | % TDN | 48 hr IVTD | 48 hr NDFD | NEL Mcal/lb |
| Premium Stock LS | Scott Seed Co. | SS | PS | N | N | 1.73 f-k | 63.7 m-q | 77.0 m-q | 56.3 m-u | 0.61 m-r |
| BMR Gold II | Scott Seed Co. | SS | M | Y | N | 1.90 d-k | 63.3 n-q | 77.0 m-q | 58.7 f-q | 0.59 o-r |
| Great Scott BMR | Scott Seed Co. | FS | ML | Y | N | 2.23 a-d | 70.3 a-h | 83.0 a-g | 59.3 e-o | 0.73 a-d |
| Canex BMR208 | Sharp Bros. Seed Co. | FS | ME | Y | N | 2.10 a-g | 68.7 c-l | 81.3 d-k | 59.0 f-p | 0.69 b-k |
| Canex BMR403 | Sharp Bros. Seed Co. | FS | M | Y | Y | 1.83 d-k | 69.7 a-j | 81.3 d-k | 59.7 d-n | 0.70 a-j |
| Canex | Sharp Bros. Seed Co. | FS | ME | N | Y | 1.80 e-k | 71.7 a-d | 83.7 a-e | 60.0 d-n | 0.73 abc |
| Si-Gro H-44 | Syngenta Seeds Inc | FS | L | N | N | 2.50 a | 67.0 f-n | 79.7 f-o | 54.7 p-w | 0.68 c-m |
| 340BMR | Syngenta Seeds Inc | FS | M | Y | N | 2.20 a-e | 66.3 h-p | 80.3 e-n | 61.3 b-k | 0.65 f-p |
| 350FS | Syngenta Seeds Inc | FS | ML | N | N | 1.70 g-k | 65.0 k-q | 76.7 n-q | 54.3 q-w | 0.63 j-p |
| Graze-n-Bale+ | Syngenta Seeds Inc | SS | PS | N | N | 1.67 h-k | 62.3 pqr | 74.7 pqr | 55.0 o-w | 0.58 pqr |
| SuperSile 30 | Triumph Seed Co., Inc | FS | ML | N | N | 1.93 c-k | 65.0 k-q | 79.0 h-o | 59.0 f-p | 0.63 j-p |
| 4Ever Green | Walter Moss Seed Co. | FS | PS | N | N | 1.73 f-k | 59.0 r | 71.7 r | 51.7 vw | 0.54 r |
| 4Ever Green BMR | Walter Moss Seed Co. | FS | PS | Y | N | 1.60 jk | 64.3 m-q | 77.0 m-q | 57.7 i-s | 0.61 n-r |
| Mega Green | Walter Moss Seed Co. | SS | PS | N | N | 1.73 f-k | 62.3 pqr | 74.7 pqr | 54.7 p-w | 0.58 pqr |
| Millennium BMR | Walter Moss Seed Co. | FS | ML | Y | N | 2.33 abc | 70.3 a-h | 83.3 a-f | 60.7 d-m | 0.72 a-e |
| F-18 BMR | Walter Moss Seed Co. | FS | L | Y | Y | 1.63 ijk | 66.0 i-p | 78.0 j-p | 59.0 f-p | 0.63 j-p |
| Integra 31F20 | Wilbur-Ellis Co. | SS | ME | Y | N | 2.17 a-e | 67.3 e-n | 82.3 a-h | 64.0 a-d | 0.67 c-n |
| Integra F10175 | Wilbur-Ellis Co. | FS | L | Y | N | 1.97 c-j | 65.3 k-q | 80.0 e-o | 61.7 b-j | 0.63 i-p |
| Integra F10165 | Wilbur-Ellis Co. | FS | ML | Y | Y | 1.80 e-k | 71.0 a-f | 85.3 abc | 66.7 a | 0.73 a-d |
| Check 1(Mega Green) | Texas AgriLife Research | SS | PS | N | N | 1.87 d-k | 62.7 o-r | 74.7 pqr | 54.7 p-w | 0.59 o-r |
| Check 2 (A571) | Texas AgriLife Research | GS | ML | N | N | 2.50 a | 67.3 e-n | 81.0 d-l | 56.7 l-u | 0.68 c-m |
| Check 3 (84G62) | Texas AgriLife Research | GS | ML | N | N | 2.40 ab | 67.3 e-n | 82.3 a-h | 58.0 h-s | 0.70 a-j |
| FS-5 | Forage First | FS | M | N | N | 2.13 a-f | 65.7 j-p | 77.7 k-p | 54.0 r-w | 0.64 g-p |
| 5909 | Forage First | FS | M | N | N | 2.13 a-f | 65.7 j-p | 79.3 g-o | 58.3 g-r | 0.65 e-p |
| BMR 108 Leafy | Forage First | FS | L | Y | N | 1.87 d-k | 66.7 g-o | 79.3 g-o | 58.3 g-r | 0.66 d-o |
| Mean | | | | | | 2.03 | 66.9 | 79.8 | 58.6 | 0.66 |
| CV | | | | | | 12.9 | 3.99 | 3.02 | 4.77 | 6.63 |

¹⁾ Variety information provided by seed companies. M. sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum-Sudangrass, GS=grain sorghum.

²⁾ Means followed by the same letter do not significantly differ using LSD (P=0.05).

Table 2. 2010 Comparison of sorghum hybrids for agronomic characteristics, yield and nutrient composition.

| Variety Information ¹⁾ | | | | | | Nutrient Composition & Calculations ²⁾ | | | | | |
|-----------------------------------|-----------------------------|------|----------|-----|--------------|---|----------------|----------|----------|----------|----------|
| Hybrid | Company | Type | Maturity | BMR | Male Sterile | NEM Mcal/lb | NEG Mcal/lb | % Ca | % P | % Mg | % K |
| GW3072F | Advanta U.S. dba Crosbyton | FS | M | N | N | 0.62 n-t | 0.35 o-s | 0.30 a-i | 0.21 a-h | 0.21 abc | 1.42 c-o |
| GW8528F | Advanta U.S. dba Crosbyton | FS | M | Y | N | 0.71 a-h | 0.44 a-i | 0.21 g-l | 0.22 a-g | 0.18 b-g | 1.30 g-p |
| Sweet Choice BMR | AR-B Seeds, Inc | FS | M | Y | Y | 0.73 a-f | 0.46 a-f | 0.26 b-l | 0.21 a-i | 0.21 a-d | 1.28 i-p |
| AS781 | AR-B Seeds, Inc | FS | ML | Y | N | 0.71 a-i | 0.44 a-j | 0.26 b-l | 0.23 a-f | 0.17 b-h | 1.31 g-p |
| Blackhawk 12 | Blue River Hybrids | SS | M | Y | N | 0.63 l-t | 0.36 m-s | 0.35 ab | 0.20 a-i | 0.16 b-h | 1.48 a-l |
| Exp 6810 | Coffey Forage Seeds, Inc | FS | ML | Y | Y | 0.77 a | 0.49 a | 0.21 h-l | 0.23 a-f | 0.16 b-h | 1.11 p |
| Centurian | Coffey Forage Seeds, Inc | FS | ML | Y | Y | 0.69 b-m | 0.42 b-m | 0.25 c-l | 0.23 a-e | 0.21 a-d | 1.43 c-o |
| DSS 73862 | Drussel Seed & Supply, Inc. | FS | L | Y | N | 0.65 h-s | 0.38 i-r | 0.30 a-h | 0.24 ab | 0.17 b-h | 1.76 a |
| HP 1010 BMR | Eastern Colorado Seeds, LLC | FS | ML | Y | Y | 0.75 abc | 0.48 abc | 0.25 c-l | 0.20 c-i | 0.15 b-h | 1.22 k-p |
| HP BMRDW | Eastern Colorado Seeds, LLC | FS | M | Y | N | 0.69 b-m | 0.43 a-l | 0.26 b-l | 0.22 a-g | 0.20 a-e | 1.67 a-d |
| HP 95BMR | Eastern Colorado Seeds, LLC | FS | ME | Y | N | 0.66 g-r | 0.39 f-q | 0.28 a-j | 0.21 a-i | 0.17 b-h | 1.36 e-p |
| MMR 381/73 | MMR Genetics, Ltd | FS | ML | N | N | 0.54 uv | 0.28 t | 0.30 a-i | 0.19 d-i | 0.17 b-h | 1.49 a-l |
| 73366X | MMR Genetics, Ltd | FS | ML | N | N | 0.67 e-q | 0.41 d-p | 0.21 g-l | 0.19 d-i | 0.14 d-h | 1.15 nop |
| 105392X | MMR Genetics, Ltd | FS | L | Y | N | 0.67 e-q | 0.40 e-p | 0.28 a-k | 0.21 a-h | 0.21 a-d | 1.50 a-k |
| 88366X | MMR Genetics, Ltd | FS | L | Y | N | 0.73 a-f | 0.45 a-g | 0.24 d-l | 0.21 a-i | 0.15 b-h | 1.29 h-p |
| 88392X | MMR Genetics, Ltd | FS | L | Y | N | 0.67 d-p | 0.41 d-p | 0.25 c-l | 0.20 c-i | 0.13 e-h | 1.44 b-n |
| 110381X | MMR Genetics, Ltd | FS | L | N | N | 0.63 l-t | 0.37 k-s | 0.26 b-l | 0.21 a-h | 0.21 a-d | 1.52 a-j |
| 849F | Pioneer Hi-Bred Int., Inc | FS | M | N | N | 0.65 h-s | 0.38 i-r | 0.30 a-h | 0.19 d-i | 0.12 fgh | 1.36 e-p |
| 841F | Pioneer Hi-Bred Int., Inc | FS | M | N | N | 0.68 d-o | 0.41 d-o | 0.24 d-l | 0.24 abc | 0.22 ab | 1.38 d-p |
| Silobuster | Production Plus | FS | ML | N | N | 0.57 tuv | 0.31 st | 0.18 kl | 0.22 a-g | 0.19 a-f | 1.41 d-o |
| Red Top Plus bmr | Production Plus | SS | ML | Y | Y | 0.73 a-e | 0.46 a-f | 0.22 f-l | 0.23 a-f | 0.17 b-h | 1.36 e-p |
| Bundle King BMR | Richardson Seeds, Ltd | FS | L | Y | Y | 0.64 h-s | 0.38 i-r | 0.18 l | 0.19 e-i | 0.17 b-h | 1.39 d-p |
| Dairy Master BMR | Richardson Seeds, Ltd | FS | ML | Y | N | 0.71 a-i | 0.44 a-j | 0.25 c-l | 0.22 a-g | 0.14 e-h | 1.53 a-j |
| Pacesetter BMR | Richardson Seeds, Ltd | FS | PS | Y | N | 0.62 m-t | 0.36 m-s | 0.32 a-e | 0.17 hi | 0.16 b-h | 1.50 a-k |
| Silo 700D | Richardson Seeds, Ltd | FS | L | N | N | 0.65 h-s | 0.39 h-r | 0.27 a-l | 0.24 a | 0.25 a | 1.33 f-p |
| Sweeter 'N Honey BMR | Richardson Seeds, Ltd | SS | M | Y | N | 0.64 h-s | 0.38 j-s | 0.20 i-l | 0.18 ghi | 0.18 b-h | 1.41 d-o |
| X38400 | Richardson Seeds, Ltd | SS | M | Y | N | 0.70 a-k | 0.43 a-k | 0.25 b-l | 0.23 a-d | 0.16 b-h | 1.40 d-p |
| X70400 | Richardson Seeds, Ltd | FS | PS | Y | N | 0.62 m-t | 0.36 l-s | 0.36 a | 0.18 ghi | 0.13 e-h | 1.59 a-g |
| GS9 | Scott Seed Co. | FS | ML | Y | N | 0.61 o-t | 0.35 o-s | 0.25 c-l | 0.19 d-i | 0.15 b-h | 1.33 f-p |
| BMR Gold | Scott Seed Co. | FS | M | Y | N | 0.74 a-d | 0.47 a-d | 0.27 a-l | 0.21 a-i | 0.15 b-h | 1.21 k-p |
| BMR Gold X | Scott Seed Co. | FS | M | Y | Y | 0.76 ab | 0.49 ab | 0.27 a-l | 0.22 a-g | 0.17 b-h | 1.26 i-p |

Table 2. 2010 Comparison of sorghum hybrids for agronomic characteristics, yield and nutrient composition.

| Variety Information ¹⁾ | | | | | | Nutrient Composition & Calculations ²⁾ | | | | | |
|-----------------------------------|-------------------------|------|----------|-----|--------------|---|----------------|----------|----------|----------|----------|
| Hybrid | Company | Type | Maturity | BMR | Male Sterile | NEM Mcal/lb | NEG Mcal/lb | % Ca | % P | % Mg | % K |
| Premium Stock LS | Scott Seed Co. | SS | PS | N | N | 0.61 p-u | 0.35 o-s | 0.33 a-d | 0.17 hi | 0.11 gh | 1.50 a-k |
| BMR Gold II | Scott Seed Co. | SS | M | Y | N | 0.60 q-v | 0.34 p-t | 0.27 a-l | 0.20 a-i | 0.16 b-h | 1.53 a-j |
| Great Scott BMR | Scott Seed Co. | FS | ML | Y | N | 0.72 a-g | 0.45 a-g | 0.23 e-l | 0.23 a-e | 0.22 ab | 1.19 l-p |
| Canex BMR208 | Sharp Bros. Seed Co. | FS | ME | Y | N | 0.70 b-l | 0.42 b-m | 0.28 a-k | 0.22 a-g | 0.20 a-e | 1.45 b-m |
| Canex BMR403 | Sharp Bros. Seed Co. | FS | M | Y | Y | 0.70 a-j | 0.43 a-k | 0.20 jkl | 0.23 a-f | 0.18 a-f | 1.38 d-p |
| Canex | Sharp Bros. Seed Co. | FS | ME | N | Y | 0.74 a-e | 0.46 a-e | 0.24 e-l | 0.22 a-g | 0.17 b-h | 1.24 j-p |
| Si-Gro H-44 | Syngenta Seeds Inc | FS | L | N | N | 0.67 d-p | 0.41 d-p | 0.34 abc | 0.22 a-g | 0.17 b-h | 1.27 i-p |
| 340BMR | Syngenta Seeds Inc | FS | M | Y | N | 0.66 g-r | 0.39 g-r | 0.28 a-k | 0.21 a-h | 0.19 a-e | 1.73 ab |
| 350FS | Syngenta Seeds Inc | FS | ML | N | N | 0.63 k-t | 0.37 k-s | 0.23 e-l | 0.19 e-i | 0.15 c-h | 1.14 op |
| Graze-n-Bale+ | Syngenta Seeds Inc | SS | PS | N | N | 0.58 s-v | 0.33 rst | 0.27 b-l | 0.18 ghi | 0.15 b-h | 1.43 c-o |
| SuperSile 30 | Triumph Seed Co., Inc | FS | ML | N | N | 0.63 j-t | 0.37 k-s | 0.26 b-l | 0.19 d-i | 0.17 b-h | 1.25 j-p |
| 4Ever Green | Walter Moss Seed Co. | FS | PS | N | N | 0.53 v | 0.28 t | 0.26 b-l | 0.18 ghi | 0.13 e-h | 1.58 a-h |
| 4Ever Green BMR | Walter Moss Seed Co. | FS | PS | Y | N | 0.61 o-t | 0.35 n-s | 0.31 a-f | 0.18 ghi | 0.12 fgh | 1.55 a-i |
| Mega Green | Walter Moss Seed Co. | SS | PS | N | N | 0.58 s-v | 0.33 rst | 0.31 a-f | 0.17 i | 0.16 b-h | 1.52 a-j |
| Millennium BMR | Walter Moss Seed Co. | FS | ML | Y | N | 0.73 a-g | 0.45 a-h | 0.23 e-l | 0.20 a-i | 0.11 h | 1.38 d-p |
| F-18 BMR | Walter Moss Seed Co. | FS | L | Y | Y | 0.64 i-t | 0.37 j-s | 0.27 a-l | 0.20 b-i | 0.16 b-h | 1.59 a-g |
| Integra 31F20 | Wilbur-Ellis Co. | SS | ME | Y | N | 0.67 d-p | 0.41 d-o | 0.20 jkl | 0.19 d-i | 0.16 b-h | 1.63 a-e |
| Integra F10175 | Wilbur-Ellis Co. | FS | L | Y | N | 0.64 i-t | 0.38 j-s | 0.30 a-g | 0.21 a-i | 0.21 a-d | 1.72 abc |
| Integra F10165 | Wilbur-Ellis Co. | FS | ML | Y | Y | 0.73 a-f | 0.46 a-f | 0.27 a-l | 0.21 a-i | 0.14 d-h | 1.27 i-p |
| Check 1(Mega Green) | Texas AgriLife Research | SS | PS | N | N | 0.59 r-v | 0.33 q-t | 0.30 a-h | 0.19 f-i | 0.13 e-h | 1.40 d-p |
| Check 2 (A571) | Texas AgriLife Research | GS | ML | N | N | 0.68 d-o | 0.41 c-o | 0.25 c-l | 0.19 e-i | 0.12 fgh | 1.14 op |
| Check 3 (84G62) | Texas AgriLife Research | GS | ML | N | N | 0.69 c-n | 0.42 c-n | 0.20 jkl | 0.20 c-i | 0.15 b-h | 1.16 m-p |
| FS-5 | Forage First | FS | M | N | N | 0.65 h-s | 0.38 i-r | 0.30 a-g | 0.20 c-i | 0.15 b-h | 1.28 i-p |
| 5909 | Forage First | FS | M | N | N | 0.65 h-s | 0.38 i-r | 0.28 a-j | 0.19 f-i | 0.13 e-h | 1.45 b-m |
| BMR 108 Leafy | Forage First | FS | L | Y | N | 0.66 f-r | 0.40 f-q | 0.28 a-k | 0.21 a-i | 0.17 b-h | 1.62 a-f |
| Mean | | | | | | 0.66 | 0.40 | 0.26 | 0.21 | 0.17 | 1.40 |
| CV | | | | | | 6.72 | 10.06 | 22.1 | 12.33 | 25.18 | 12.94 |

¹⁾ Variety information provided by seed companies. M. sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum-Sudangrass, GS=grain sorghum.

²⁾ Means followed by the same letter do not significantly differ using LSD (P=0.05).

Table 2. 2010 Comparison of sorghum hybrids for agronomic characteristics, yield and nutrient composition.

| Variety Information ¹⁾ | | | | | | Nutrient Composition & Calculations ²⁾ | | | | |
|-----------------------------------|-----------------------------|------|----------|-----|--------------|---|---------------|---------------------|-----------------|----------|
| Hybrid | Company | Type | Maturity | BMR | Male Sterile | % S | Milk lbs/Tons | Rel. Forage Quality | Rel. Feed Value | kd, %/hr |
| GW3072F | Advanta U.S. dba Crosbyton | FS | M | N | N | 0.12 a-h | 2,638 m-q | 126.7 j-n | 120 e-n | 2.59 k-r |
| GW8528F | Advanta U.S. dba Crosbyton | FS | M | Y | N | 0.10 e-l | 3,049 a-h | 171.7 b-g | 147 a-e | 2.97 b-i |
| Sweet Choice BMR | AR-B Seeds, Inc | FS | M | Y | Y | 0.11 b-k | 3,046 a-h | 167.3 b-h | 133 b-k | 3.06 b-g |
| AS781 | AR-B Seeds, Inc | FS | ML | Y | N | 0.11 b-k | 2,980 b-j | 150.3 d-k | 139 b-h | 3.09 b-g |
| Blackhawk 12 | Blue River Hybrids | SS | M | Y | N | 0.09 g-l | 2,628 m-r | 124.7 j-n | 114 g-n | 2.70 h-q |
| Exp 6810 | Coffey Forage Seeds, Inc | FS | ML | Y | Y | 0.09 h-l | 3,323 a | 213.0 a | 170 a | 2.99 b-h |
| Centurian | Coffey Forage Seeds, Inc | FS | ML | Y | Y | 0.12 a-h | 2,908 c-n | 156.0 c-j | 131 b-l | 3.00 b-h |
| DSS 73862 | Drussel Seed & Supply, Inc. | FS | L | Y | N | 0.13 a-f | 2,704 i-q | 134.7 h-n | 120 e-n | 3.00 b-h |
| HP 1010 BMR | Eastern Colorado Seeds, LLC | FS | ML | Y | Y | 0.09 g-l | 3,195 abc | 186.0 a-d | 140 a-h | 3.27 b |
| HP BMRDW | Eastern Colorado Seeds, LLC | FS | M | Y | N | 0.10 c-l | 2,916 c-n | 145.0 e-m | 134 b-j | 3.00 b-h |
| HP 95BMR | Eastern Colorado Seeds, LLC | FS | ME | Y | N | 0.13 a-e | 2,760 f-q | 141.0 e-m | 117 e-n | 3.15 bcd |
| MMR 381/73 | MMR Genetics, Ltd | FS | ML | N | N | 0.14 abc | 2,274 s | 109.3 mn | 101 mn | 2.67 i-r |
| 73366X | MMR Genetics, Ltd | FS | ML | N | N | 0.11 b-k | 2,876 c-n | 158.7 c-j | 146 a-f | 2.79 f-o |
| 105392X | MMR Genetics, Ltd | FS | L | Y | N | 0.10 e-l | 2,819 e-p | 138.7 e-n | 120 d-n | 2.86 d-k |
| 88366X | MMR Genetics, Ltd | FS | L | Y | N | 0.11 a-j | 3,116 a-e | 185.7 a-d | 150 a-d | 3.12 b-e |
| 88392X | MMR Genetics, Ltd | FS | L | Y | N | 0.11 b-k | 2,850 d-o | 150.3 d-k | 130 b-m | 3.00 b-h |
| 110381X | MMR Genetics, Ltd | FS | L | N | N | 0.11 b-k | 2,691 i-q | 128.3 i-n | 114 g-n | 2.72 h-q |
| 849F | Pioneer Hi-Bred Int., Inc | FS | M | N | N | 0.09 f-l | 2,759 f-q | 143.0 e-m | 130 b-m | 2.58 k-r |
| 841F | Pioneer Hi-Bred Int., Inc | FS | M | N | N | 0.11 a-j | 2,875 c-n | 155.3 c-j | 135 b-i | 2.87 d-k |
| Silobuster | Production Plus | FS | ML | N | N | 0.08 jkl | 2,465 qrs | 116.3 k-n | 111 h-n | 2.42 qr |
| Red Top Plus bmr | Production Plus | SS | ML | Y | Y | 0.09 f-l | 3,113 a-e | 190.3 abc | 146 a-f | 2.85 d-l |
| Bundle King BMR | Richardson Seeds, Ltd | FS | L | Y | Y | 0.07 l | 2,759 f-q | 123.0 j-n | 117 f-n | 2.62 j-r |
| Dairy Master BMR | Richardson Seeds, Ltd | FS | ML | Y | N | 0.09 g-l | 3,005 a-i | 156.0 c-j | 137 b-h | 2.96 b-i |
| Pacesetter BMR | Richardson Seeds, Ltd | FS | PS | Y | N | 0.07 l | 2,641 l-q | 115.7 k-n | 105 j-n | 2.87 d-k |
| Silo 700D | Richardson Seeds, Ltd | FS | L | N | N | 0.11 b-k | 2,739 h-q | 135.3 g-n | 123 d-n | 2.80 e-o |
| Sweeter 'N Honey BMR | Richardson Seeds, Ltd | SS | M | Y | N | 0.12 a-g | 2,711 i-q | 129.0 i-n | 116 f-n | 3.16 bcd |
| X38400 | Richardson Seeds, Ltd | SS | M | Y | N | 0.11 b-k | 2,973 b-k | 144.0 e-m | 140 a-h | 2.99 b-i |
| X70400 | Richardson Seeds, Ltd | FS | PS | Y | N | 0.08 i-l | 2,632 m-r | 122.0 j-n | 107 i-n | 2.68 h-q |
| GS9 | Scott Seed Co. | FS | ML | Y | N | 0.07 l | 2,645 k-q | 113.3 lm | 117 e-n | 2.49 o-r |
| BMR Gold | Scott Seed Co. | FS | M | Y | N | 0.09 g-l | 3,160 a-d | 201.7 ab | 157 ab | 3.24 bc |
| BMR Gold X | Scott Seed Co. | FS | M | Y | Y | 0.10 d-l | 3,296 ab | 213.7 a | 170 a | 2.95 b-i |

Table 2. 2010 Comparison of sorghum hybrids for agronomic characteristics, yield and nutrient composition.

| Variety Information ¹⁾ | | | | | | Nutrient Composition & Calculations ²⁾ | | | | |
|-----------------------------------|-------------------------|------|----------|-----|--------------|---|---------------|---------------------|-----------------|----------|
| Hybrid | Company | Type | Maturity | BMR | Male Sterile | % S | Milk lbs/Tons | Rel. Forage Quality | Rel. Feed Value | kd, %/hr |
| Premium Stock LS | Scott Seed Co. | SS | PS | N | N | 0.08 jkl | 2,588 n-s | 116.7 k-n | 110 h-n | 2.57 k-r |
| BMR Gold II | Scott Seed Co. | SS | M | Y | N | 0.12 a-g | 2,525 o-s | 118.3 k-n | 102 lmn | 2.92 c-j |
| Great Scott BMR | Scott Seed Co. | FS | ML | Y | N | 0.11 a-j | 3,083 a-f | 172.7 b-f | 156 ab | 2.97 b-i |
| Canex BMR208 | Sharp Bros. Seed Co. | FS | ME | Y | N | 0.10 c-l | 2,941 c-m | 144.3 e-m | 137 b-h | 2.98 b-i |
| Canex BMR403 | Sharp Bros. Seed Co. | FS | M | Y | Y | 0.08 i-l | 2,968 b-l | 145.7 e-m | 135 b-j | 2.82 e-n |
| Canex | Sharp Bros. Seed Co. | FS | ME | N | Y | 0.08 i-l | 3,164 a-d | 184.0 a-d | 159 ab | 2.72 h-q |
| Si-Gro H-44 | Syngenta Seeds Inc | FS | L | N | N | 0.13 a-f | 2,875 c-n | 155.7 c-j | 139 b-h | 2.69 h-q |
| 340BMR | Syngenta Seeds Inc | FS | M | Y | N | 0.14 ab | 2,745 g-q | 138.3 f-n | 119 e-n | 3.14 bcd |
| 350FS | Syngenta Seeds Inc | FS | ML | N | N | 0.07 l | 2,707 i-q | 122.0 j-n | 118 e-n | 2.51 n-r |
| Graze-n-Bale+ | Syngenta Seeds Inc | SS | PS | N | N | 0.07 l | 2,503 p-s | 112.3 lmn | 99 n | 2.54 l-r |
| SuperSile 30 | Triumph Seed Co., Inc | FS | ML | N | N | 0.12 a-i | 2,652 j-q | 128.3 i-n | 112 h-n | 3.10 b-g |
| 4Ever Green | Walter Moss Seed Co. | FS | PS | N | N | 0.08 i-l | 2,306 rs | 103.3 n | 96 n | 2.35 r |
| 4Ever Green BMR | Walter Moss Seed Co. | FS | PS | Y | N | 0.08 jkl | 2,604 n-r | 112.0 lmn | 105 i-n | 2.53 m-r |
| Mega Green | Walter Moss Seed Co. | SS | PS | N | N | 0.08 kl | 2,504 p-s | 114.0 k-n | 103 k-n | 2.53 m-r |
| Millennium BMR | Walter Moss Seed Co. | FS | ML | Y | N | 0.10 d-l | 3,116 a-e | 187.0 a-d | 156 ab | 2.98 b-i |
| F-18 BMR | Walter Moss Seed Co. | FS | L | Y | Y | 0.08 jkl | 2,711 i-q | 126.0 j-n | 112 h-n | 2.78 g-p |
| Integra 31F20 | Wilbur-Ellis Co. | SS | ME | Y | N | 0.15 a | 2,810 e-p | 146.3 e-l | 125 c-n | 3.60 a |
| Integra F10175 | Wilbur-Ellis Co. | FS | L | Y | N | 0.09 g-l | 2,646 k-q | 130.3 i-n | 113 h-n | 3.11 b-f |
| Integra F10165 | Wilbur-Ellis Co. | FS | ML | Y | Y | 0.10 d-l | 3,070 a-g | 165.0 b-i | 144 a-g | 3.15 bcd |
| Check 1(Mega Green) | Texas AgriLife Research | SS | PS | N | N | 0.08 kl | 2,527 o-s | 116.3 k-n | 103 k-n | 2.47 pqr |
| Check 2 (A571) | Texas AgriLife Research | GS | ML | N | N | 0.13 a-d | 2,892 c-n | 173.0 b-f | 154 abc | 2.85 d-m |
| Check 3 (84G62) | Texas AgriLife Research | GS | ML | N | N | 0.13 a-e | 2,936 c-m | 175.3 b-e | 156 ab | 2.97 b-i |
| FS-5 | Forage First | FS | M | N | N | 0.11 b-k | 2,743 g-q | 140.7 e-m | 123 d-n | 2.79 f-o |
| 5909 | Forage First | FS | M | N | N | 0.09 h-l | 2,727 h-q | 135.7 g-n | 124 c-n | 2.95 b-i |
| BMR 108 Leafy | Forage First | FS | L | Y | N | 0.09 f-l | 2,782 f-q | 137.3 f-n | 124 c-n | 2.81 e-o |
| Mean | | | | | | 0.10 | 2,816 | 145.5 | 127.9 | 2.86 |
| CV | | | | | | 21.32 | 7.22 | 15.66 | 14.57 | 6.97 |

¹⁾ Variety information provided by seed companies. M. sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum-Sudangrass, GS=grain sorghum.

²⁾ Means followed by the same letter do not significantly differ using LSD (P=0.05).

Table 3. Top 25% of varieties in the 2010 trial based on % IVTD, standability, and yield.¹⁾

| Hybrid | Company | Type | BMR | Male Sterile | % Lodging | Ton/ac, 65% Moist. | % Crude Protein | 48 hr IVTD | Rel. Forage Quality |
|------------------|-------------------------|------|-----|--------------|-----------|--------------------|-----------------|------------|---------------------|
| BMR Gold | Scott Seed Co. | FS | Y | N | 0.0 | 24.1 | 8.4 | 86.0 | 202 |
| Exp 6810 | Coffey Forage Seeds | FS | Y | Y | 0.0 | 24.1 | 8.4 | 85.7 | 213 |
| Integra F10165 | Wilbur-Ellis Co. | FS | Y | Y | 0.0 | 23.6 | 8.5 | 85.3 | 165 |
| BMR Gold X | Scott Seed Co. | FS | Y | Y | 3.3 | 20.0 | 9.1 | 85.3 | 214 |
| HP 1010 BMR | E.Colorado Seeds | FS | Y | Y | 1.7 | 23.0 | 8.3 | 84.7 | 186 |
| Red Top Plus BMR | Production Plus | SS | Y | Y | 0.0 | 20.0 | 8.3 | 84.7 | 190 |
| Canex | Sharp Bros. Seed Co. | FS | N | Y | 0.0 | 21.9 | 7.4 | 83.7 | 184 |
| Millennium BMR | Walter Moss Seed Co. | FS | Y | N | 16.7 | 25.7 | 8.8 | 83.3 | 187 |
| 88366X | MMR Genetics, Ltd | FS | Y | N | 1.7 | 19.5 | 8.5 | 83.3 | 186 |
| Sweet Choice BMR | AR-B Seeds, Inc | FS | Y | Y | 0.0 | 17.4 | 9.3 | 82.7 | 167 |
| Integra 31F20 | Wilbur-Ellis Co. | SS | Y | N | 5.0 | 20.3 | 9.7 | 82.3 | 146 |
| Dairy Master BMR | Richardson Seeds | FS | Y | N | 15.0 | 21.8 | 7.8 | 82.3 | 156 |
| GW8528F | Advanta | FS | Y | N | 5.0 | 28.2 | 8.9 | 82.3 | 172 |
| 84G62 | Texas AgriLife Research | GS | N | N | 0.0 | 19.4 | 9.2 | 82.3 | 175 |

¹⁾ The top 25% list was derived by taking those varieties with the highest % IVTD (did not differ statistically ($P=0.05$) and eliminating those varieties that lodged more than 20%. The remaining 14 varieties with the highest yield were then selected.

Figure 2. Lodging of those varieties yielding 25 ton/acre or higher.

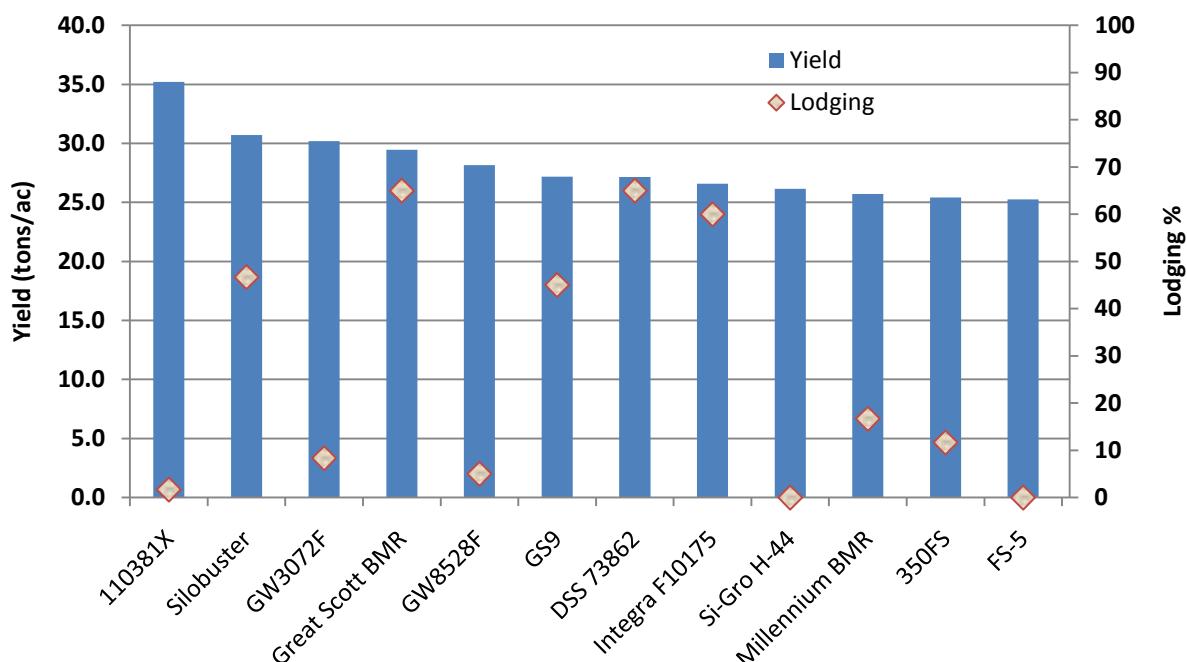


Table 4. Grain yield of selected forage sorghum varieties in comparison to standard grain sorghum varieties.

| Hybrid | Company | Type | Maturity | BMR | Male Sterile | Grain Yield lb/ac | Yield as a % of Grain Sorghum Varieties* |
|----------------------|-----------------------------|------|----------|-----|--------------|-------------------|--|
| GW3072F | Advanta | FS | M | N | N | 4,334 | 69.2 |
| GW8528F | Advanta | FS | M | Y | N | 1,914 | 30.6 |
| Exp 6810 | Coffey Forage Seeds, Inc | FS | ML | Y | Y | 1,144 | 18.3 |
| Centurian | Coffey Forage Seeds, Inc | FS | ML | Y | N | 3,672 | 58.6 |
| DSS 73862 | Drussel Seed & Supply, Inc. | FS | L | Y | N | 3,321 | 53.0 |
| HP BMRDW | E.Colorado Seeds, LLC | FS | M | Y | N | 4,785 | 76.4 |
| HP 95BMR | E.Colorado Seeds, LLC | FS | ME | Y | N | 1,614 | 25.8 |
| MMR 381/73 | MMR Genetics, Ltd | FS | ML | N | N | 6,261 | 100.0 |
| 73366X | MMR Genetics, Ltd | FS | ML | N | N | 5,652 | 90.3 |
| 105392X | MMR Genetics, Ltd | FS | L | Y | N | 5,749 | 91.8 |
| 88366X | MMR Genetics, Ltd | FS | L | Y | N | 3,160 | 50.5 |
| 88392X | MMR Genetics, Ltd | FS | L | Y | N | 2,497 | 39.9 |
| 110381X | MMR Genetics, Ltd | FS | L | N | N | 3,858 | 61.6 |
| Bundle King BMR | Richardson Seeds, Ltd | FS | L | Y | Y | 2,341 | 37.4 |
| Dairy Master BMR | Richardson Seeds, Ltd | FS | ML | Y | N | 1,126 | 18.0 |
| Silo 700D | Richardson Seeds, Ltd | FS | L | N | N | 5,532 | 88.4 |
| Sweeter 'N Honey BMR | Richardson Seeds, Ltd | SS | M | Y | N | 1,297 | 20.7 |
| X38400 | Richardson Seeds, Ltd | SS | M | Y | N | 571 | 9.1 |
| GS9 | Scott Seed Co. | FS | ML | Y | N | 4,457 | 71.2 |
| BMR Gold | Scott Seed Co. | FS | M | Y | N | 1,458 | 23.3 |
| Great Scott BMR | Scott Seed Co. | FS | ML | Y | N | 6,394 | 102.1 |
| Canex BMR208 | Sharp Bros. Seed Co. | FS | ME | Y | N | 2,014 | 32.2 |

* Yield as a percent of MMR 381/73. In last year's trial where a direct comparison was made with A571 and 84G62 grain sorghum varieties, MMR 381/73 yielded 106 percent of these two standard varieties.