



## 2014 Texas Panhandle Sorghum Silage Trial

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### Introduction

The 2014 Texas A&M AgriLife Extension 2014 Forage Sorghum Silage Trial at Bushland Forage Sorghum Silage Trial consisted of 90 entries of which 44 were non-BMR (brown midrib) and 46 were BMR forage sorghum and sorghum-sudangrass hybrids. Nine non-BMR and six BMR varieties were photoperiod sensitive. In regions beef cattle and dairy production, forage sorghums for silage are an alternative to corn silage; especially in areas with diminishing well capacities. The objective of this trial is to provide regional producers and seed companies unbiased agronomic and forage quality data.

### Materials and Methods

The trial was funded by commercial company entry fees. Varieties were evaluated based upon fee based entries from seed companies. Entries were planted in a randomized complete block design. Photoperiod sensitive (PS) entries were blocked separately. Plots were four, 30" rows by Varieties were harvested for forage yield when grain reached soft dough except varieties harvested on October 6 with days to half-bloom (HB) >115 days. Irrigation was applied with a center-pivot sprinkler with mid-elevation nozzles on 60 inch spacings, and scheduled by the cooperator based on crop water demand. Approximately 8.5 inches of irrigation was applied. In-season precipitation was 9.2 inches. In addition to in-season precipitation, 5.3 inches of precipitation was received in May and June prior to planting.

### Cultural Practices:

Trial Location: 1 mile northeast of Bushland (35.201684, -102.046253)

Cooperator: Michael Menke

Previous Crop: Fallow

Soil Type: Pullman Clay Loam

Planting Date: June 13, 2014

Planting Rate: 100,000 seeds/acre

Herbicides: Atrazine (1.5 lbs a.i./ac) prior to planting

Fertilizer: 10 tons manure/ac

Irrigation: 8.5 inches

Precipitation: 9.2 inches

Soil Type: Pullman Clay Loam, pH 7.5

Plot Size: Four, 30 inch rows by 25 ft.

Replications: 3

Study Design: Randomize Complete Block

Forages (silage) were sampled for yield at or near soft-dough from a 50 ft<sup>2</sup> area (2 rows by 10 ft.) in each plot. Lodging was recorded at harvest as a percent of significantly falling or fallen plants. Photosensitive varieties that had not reached soft-dough were all harvested on the last sampling date (October 6). Sub-samples from each yield sample were immediately collected following harvest, chopped and oven dried at 140F to acquire harvested moisture. Sub-samples from each yield sample were also composited by entry and submitted to Dairy One Lab, Ithaca, NY for forage quality analyses. Nutrient constituents were reported on a dry matter (DM) basis.

**Nutrient Analysis Included:**

- CP: Crude Protein is 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; a constituent of the cell wall includes cellulose and lignin, which is inversely related to energy availability
- IVTD: % In Vitro true Digestibility; positively related to energy availability
- NDFD: Neutral detergent fiber digestibility is the % of 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. A RFV of 100 is considered the average score representing alfalfa hay containing 41% ADF and 53% NDF on a DM basis.
- 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 is 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.
- TDN: Total Digestible Nutrients: An indication of the energy
- Milk lbs/ton: A projection of potential milk yield per ton of forage dry matter.

Average trial yield was 21.7 tons/acre across all hybrids with the average yields of photosensitive, non-BMR hybrids being greatest (Table 1). Yields ranged from 36.6 to 11.6 tons/acre (Table 2); however, when evaluating the top yield performance of the top yielding hybrids there was no statistical difference between the top 11 hybrids with yields ranging from 29.1 to 36.6 tons/ac (Table 5). Because ideal growing conditions in 2014 contributed to

increased performance, especially in adaptive hybrids, it is recommended that multiple locations and years are evaluated when choosing hybrids.

Lodging is an important characteristic of forage sorghum. In 2014, lodging was a factor of late season winds. Lodging was not equally distributed among plots rather; the percentage of fallen or nearly fallen hybrids was greatest in the third rep where the row orientation on the pivot was directly impacted by late season winds. There were no statistical differences in lodging between hybrids (Table 2). Of the lodged hybrids, lodging was greatest in the BMR hybrids, which is a factor of the lower lignin concentrations (Table 1).

Days to half-bloom (HB) were recorded for all varieties based on visual observations. In this trial, the average days to HB were 67 with the minimum number of days being 51; several PS varieties did not reach HB during the evaluation period. Half-bloom expression in grain sorghums is affected by phenotypic expressions and maturity; however, expression of flowering is strongly affected by the interdependence between available moisture, daylength (photoperiod), temperature, radiation intensity, and seeding rates. Growing degree day (GDD) accumulation provides a good measure of the seasonal air temperatures. While GDD is not a limiting factor in sorghum production on the Texas High Plains, early maturing varieties require fewer GDD to reach maturity than later maturing varieties. Research has also shown that developmental progression is delayed when sorghum experiences water stress resulting in increased cumulative GDD and thus a greater number of days to HB. In 2014, 67 days post planting, we had received 1743 GDD (F). The average cumulative GDD (F) required for early to medium maturity hybrids is 1848 GDD, and medium to full hybrids require approximately 1995 GDD. Seeding rates are also a factor in sorghum maturity and HB expression. As seeding rate increases, research has shown that the cumulative growing degree days to reach maturity decreases. In 2014, the number of days to the expression HB is attributed to a planting population (100,000 seeds/acre) and optimal soil moisture.

Forages were evaluated for nutritional composition and quality. Quality was greatest for the BMR hybrids as estimated by lignin, ADF, NDF, IVTD, NDFD, estimated milk per tons and RRQ (Table 3). The photoperiod sensitive hybrids tended to be lower quality than other hybrids as reflected by the greater lignin and lower digestibility components, which is reflected in lower relative feed quality scores. Milk production (lbs/ton) was calculated for all hybrids. Production ranged from 1618.4 to 3354.2 tons/ac (Table 5). The greatest milk production was achieved from BMR hybrids. Overall quality was greatest for BMR hybrids with RFQ comparable to corn (Table 6).

Statistical analyses were completed using SAS 9.4. Adjusted least significant differences for multiple comparisons were determined using Tukey's HSD. Effects and comparisons were determined significant at the 0.05 probability level.

**Table 1. Summary of key characteristics by sorghum type.**

| Sorghum Type*                                | Avg Yield (tons/ac) | % Lodging | % CP | % ADF | % NDF | % Lignin | % NDFD48 | % Starch | Relative Feed Quality (RFQ) | Milk lbs/ton |
|--|---------------------|-----------|------|-------|-------|----------|----------|----------|-----------------------------|--------------|
| NonBMR (45)                                  | 22.2                | 15.8      | 7.6  | 37.4  | 53.8  | 6.0      | 54.1     | 17.1     | 109.9                       | 2531.7       |
| BMR (45)                                     | 21.1                | 18.6      | 7.8  | 35.0  | 50.5  | 4.9      | 58.3     | 18.3     | 127.9                       | 2736.3       |
| Test Average                                 | 21.7                | 17.2      | 7.7  | 36.2  | 52.2  | 5.5      | 56.2     | 17.7     | 118.9                       | 2634.0       |
| <b>Sorghum Type by Photoperiod Response*</b> |                     |           |      |       |       |          |          |          |                             |              |
| NonBMR (36)                                  | 20.2                | 18.1      | 7.9  | 35.2  | 50.2  | 5.8      | 55.1     | 21.0     | 121.6                       | 2630.1       |
| NonBMR PS (9)                                | 30.2                | 6.7       | 6.5  | 46.5  | 68.3  | 7.1      | 50.2     | 1.4      | 63.3                        | 2138.4       |
| BMR (39)                                     | 20.3                | 20.0      | 7.9  | 33.7  | 48.7  | 4.8      | 59.0     | 20.4     | 134.7                       | 2765.3       |
| BMR PS (6)                                   | 26.2                | 26.2      | 7.2  | 42.9  | 62.2  | 5.8      | 53.8     | 4.7      | 83.4                        | 2547.6       |

\*The number in parentheses represents the number of hybrids that make up each sorghum type. BMR= Brown midrib, PS = Photoperiod sensitive.

**Table 2.** 2014 comparison of agronomic characteristics, yield and lodging. \*Variety information was provided by seed companies. Male sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum. Means followed by the same letter do not significantly differ using LSD (0.05).

| Variety Information*     |                    |              |          |              |              | Mean Days to Half-Bloom, Harvest Date, Lodging, Moisture and Yield |              |          |            |                              |      |
|--------------------------|--------------------|--------------|----------|--------------|--------------|--|--------------|----------|------------|------------------------------|------|
| Hybrid                   | Company            | Sorghum Type | Maturity | Brown Midrib | Male Sterile | Days to HB   | Harvest Date | % Lodged | % Moisture | Yield (tons/ac) 65% Moisture | CV   |
| Alta AF7101              | Advanta US         | FS           | E        | Y            | N            | 52   | 9/5/14       | 26.7 a   | 69.1 a-d   | 20.2 e-t                     | 0.15 |
| Alta AF7102              | Advanta US         | FS           | E        | Y            | N            | 61   | 9/5/14       | 53.3 a   | 65.8 a-d   | 21.6 c-t                     | 0.12 |
| Alta AF7202              | Advanta US         | FS           | ME       | Y            | N            | 61   | 9/5/14       | 50.0 a   | 67.2 a-e   | 19.9 e-t                     | 0.17 |
| Alta AF7401              | Advanta US         | FS           | L        | Y            | N            | 71   | 9/10/14      | 0.0 a    | 70.6 a-d   | 19.7 e-t                     | 0.24 |
| XF30231                  | Advanta US         | FS (X)       | E        | Y            | N            | 52   | 8/29/14      | 0.0 a    | 70.8 de    | 18.4 g-t                     | 0.16 |
| Alta AF7301              | Advanta US         | FS           | ML       | Y            | Y            | 60   | 9/7/14       | 13.3 a   | 69.6 a-d   | 19.8 e-t                     | 0.08 |
| Alta AS6401              | Advanta US         | SS           | ML       | Y            | N            | 66   | 9/14/14      | 6.7 a    | 67.2 a-d   | 20.0 e-t                     | 0.08 |
| Alta AS6402              | Advanta US         | SS           | L        | Y            | N            | 66   | 9/26/14      | 0.0 a    | 66.5 a-e   | 18.4 g-t                     | 0.08 |
| Alta AS6501              | Advanta US         | SS           | PS       | Y            | N            | 70   | 9/14/14      | 0.0 a    | 68.1 a-d   | 17.1 j-t                     | 0.17 |
| Alta AF8301              | Advanta US         | FS           | M        | N            | N            | 68   | 9/11/14      | 60.0 a   | 70.7 b-e   | 27.7 a-l                     | 0.10 |
| BH312FBD                 | B-H Genetics       | FS           |          | Y            | N            | 67   | 9/14/14      | 0.0 a    | 64.3 cde   | 25.4 j-t                     | 0.18 |
| XPF1460FBD               | B-H Genetics       | FS           |          | Y            | N            | 64   | 9/5/14       | 50.0 a   | 65.7 a-e   | 19.0 d-t                     | 0.13 |
| XPF1461FBD               | B-H Genetics       | FS           |          | Y            | N            | 64   | 9/5/14       | 48.3 a   | 68.5 a-d   | 18.9 b-t                     | 0.18 |
| SeaHawk 6                | Blue River Hybrids | SS           | M        | Y            |              | 52   | 8/29/14      | 11.7 a   | 67.2 a-d   | 17.1 a-q                     | 0.11 |
| Blackhawk 12             | Blue River Hybrids | SS           | M        | Y            |              | 63   | 9/8/14       | 0.0 a    | 63.7 a-e   | 19.6 g-t                     | 0.18 |
| Warbler                  | Blue River Hybrids | FS           | ML       | Y            |              | 67   | 9/22/14      | 0.0 a    | 60.4 a-d   | 22.3 g-t                     | 0.12 |
| Browning Cadan 99B       | Browning Seed Inc. | SS           | ME       | N            | N            | 55   | 9/5/14       | 0.0 a    | 67.0 de    | 16.5 l-t                     | 0.17 |
| Browning Tridan          | Browning Seed Inc. | SS           | M        | N            | N            | 58   | 8/29/14      | 13.3 a   | 68.7 a-e   | 15.5 n-t                     | 0.24 |
| Browning Sweet Sioux WMR | Browning Seed Inc. | SS           | M        | N            | N            | 65   | 8/29/14      | 0.0 a    | 70.5 b-e   | 17.0 j-t                     | 0.09 |
| Browning Sweet Sioux BMR | Browning Seed Inc. | SS           | M        | Y            | N            | 62   | 9/14/14      | 0.0 a    | 69.5 a-e   | 19.3 f-t                     | 0.02 |
| Browning Silage Master   | Browning Seed Inc. | FS           | ML       | N            | N            | 69   | 9/14/14      | 33.3 a   | 67.1 a-e   | 24.2 a-r                     | 0.06 |
| Browning Bundle King     | Browning Seed Inc. | FS           | M        | N            | Y            | 59   | 9/5/14       | 30.0 a   | 65.6 abc   | 12.5 st                      | 0.05 |

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| Variety Information*  |                       |              |          |              |              | Mean Days to Half-Bloom, Harvest Date, Lodging, Moisture and Yield |              |          |            |                                 |      |  |
|-----------------------|-----------------------|--------------|----------|--------------|--------------|--|--------------|----------|------------|---------------------------------|------|--|
| Hybrid                | Company               | Sorghum Type | Maturity | Brown Midrib | Male Sterile | Days to HB   | Harvest Date | % Lodged | % Moisture | Yield (tons/ac)<br>65% Moisture | CV   |  |
| Browning Exp. Avenger | Browning Seed Inc.    | FS           | ML       | Y            | N            | 113  | 10/6/14      | 0.0 a    | 67.1 abc   | 25.7 a-p                        | 0.14 |  |
| Browning Exp. F-15    | Browning Seed Inc.    | SS           | M        | N            | N            | 56   | 9/5/14       | 20.0 a   | 69.9 a-e   | 14.8 p-t                        | 0.25 |  |
| Browning Exp. B-52    | Browning Seed Inc.    | SS           | PS       | N            | N            | 115  | 10/6/14      | 6.7 a    | 71.0 a-d   | 30.2 a-f                        | 0.12 |  |
| Browning Exp. 747     | Browning Seed Inc.    | SS           | M        | N            | N            | 111  | 10/7/14      | 3.3 a    | 70.7 a-d   | 29.1 a-h                        | 0.13 |  |
| Browning Exp. Apache  | Browning Seed Inc.    | FS           | L        | N            | N            | 75   | 9/17/14      | 0.0 a    | 67.5 a-d   | 18.6 g-t                        | 0.08 |  |
| Browning Exp. RTC     | Browning Seed Inc.    | FS           | ML       | N            | N            | 59   | 9/1/14       | 23.3 a   | 65.2 a     | 18.4 g-t                        | 0.08 |  |
| Browning Exp. RO      | Browning Seed Inc.    | FS           | M        | N            | Y            | 61   | 9/7/14       | 21.7 a   | 63.4 b-e   | 15.9 m-t                        | 0.15 |  |
| Browning Exp. HG      | Browning Seed Inc.    | FS           | ML       | N            | N            | 51   | 8/29/14      | 26.7 a   | 63.6 a-d   | 17.4 l-t                        | 0.07 |  |
| Browning Exp. PP      | Browning Seed Inc.    | SS           | M        | N            | N            | 65   | 9/14/14      | 0.0 a    | 62.5 a-d   | 13.8 rst                        | 0.20 |  |
| 841F                  | DuPont Pioneer        | FS           | M        | N            | N            | 61   | 9/8/14       | 33.3 a   | 63.1 e     | 20.8 d-t                        | 0.07 |  |
| 849F                  | DuPont Pioneer        | FS           | ML       | N            | N            | 60   | 9/8/14       | 0.0 a    | 63.5 cde   | 25.4 a-q                        | 0.09 |  |
| Nutricane II          | Monsanto              | FS           | M        | N            | Y            | 63   | 9/14/14      | 0.0 a    | 74.8 a-d   | 23.8 b-r                        | 0.10 |  |
| Nutrichoice II        | Monsanto              | FS           | ML       | N            | N            | 63   | 9/7/14       | 33.3 a   | 76.5 b-e   | 18.1 n-t                        | 0.25 |  |
| DKS53-67              | Monsanto              | GS           | ML       | N            | N            | 59   | 9/8/14       | 0.0 a    | 72.1 abc   | 22.7 abc                        | 0.20 |  |
| Ambar                 | Monsanto              | GS           | ML       | N            | N            | 59   | 9/8/14       | 60.0 a   | 68.1 abc   | 20.1 a-d                        | 0.18 |  |
| Litio                 | Monsanto              | GS           | ML       | N            | N            | 59   | 9/8/14       | 33.3 a   | 64.3 a-e   | 19.0 a                          | 0.11 |  |
| DKS-46                | Monsanto              | GS           | ML       | N            | N            | 59   | 9/8/14       | 33.3 a   | 65.8 a-d   | 20.5 b-s                        | 0.15 |  |
| DKS-44                | Monsanto              | GS           | ML       | N            | N            | 60   | 9/7/14       | 33.3 a   | 66.9 b-e   | 14.4 c-t                        | 0.20 |  |
| Cobalto               | Monsanto              | GS           | ML       | N            | N            | 57   | 9/10/14      | 0.0 a    | 67.9 a-d   | 15.2 i-t                        | 0.16 |  |
| DKS51-01              | Monsanto              | GS           | ML       | N            | N            | 60   | 9/5/14       | 0.0 a    | 66.2 a-d   | 19.8 t                          | 0.18 |  |
| Bundle King BMR       | Richardson Seeds, Ltd | FS           | L        | Y            | Y            | 69   | 9/13/14      | 26.7 a   | 66.1 abc   | 23.9 a-m                        | 0.14 |  |
| Dairy Master BMR      | Richardson Seeds, Ltd | FS           | ML       | Y            | N            | 59   | 9/8/14       | 26.7 a   | 67.9 a-d   | 15.4 c-t                        | 0.16 |  |

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|-------------------------|-----------------------|--------------|----------|--------------|--------------|--|--------------|----------|------------|------------------------------|------|
| Hybrid                  | Company               | Sorghum Type | Maturity | Brown Midrib | Male Sterile | Days to HB   | Harvest Date | % Lodged | % Moisture | Yield (tons/ac) 65% Moisture | CV   |
| Pacesetter BMR          | Richardson Seeds, Ltd | FS           | PS       | Y            | N            | >115   | 10/6/14      | 13.3 a   | 66.9 a-d   | 32.4 e-t                     | 0.07 |
| Pacesetter BMR Red      | Richardson Seeds, Ltd | FS           | PS       | Y            | N            | >115   | 10/6/14      | 30.0 a   | 67.6 a-d   | 31.8 d-t                     | 0.21 |
| Silo 700D               | Richardson Seeds, Ltd | FS           | ML       | N            | N            | 66   | 9/17/14      | 0.0 a    | 67.1 a-e   | 36.6 k-t                     | 0.09 |
| Silo 700D BMR           | Richardson Seeds, Ltd | FS           | L        | Y            | N            | 74   | 9/17/14      | 0.0 a    | 69.9 a-e   | 23.6 j-t                     | 0.22 |
| 9500W                   | Richardson Seeds, Ltd | FS           | ML       | N            | N            | 61   | 9/8/14       | 33.3 a   | 70.3 b-e   | 21.4 k-t                     | 0.10 |
| Sweeter'N Honey BMR     | Richardson Seeds, Ltd | SS           | ME       | Y            | N            | 56   | 9/8/14       | 63.3 a   | 70.9 a-d   | 17.7 e-t                     | 0.24 |
| Sweeter'N Honey BMR Red | Richardson Seeds, Ltd | SS           | ME       | Y            | N            | 61   | 9/8/14       | 50.0 a   | 67.3 a-d   | 11.6 a-m                     | 0.21 |
| 115392X                 | Richardson Seeds, Ltd | FS           | L        | Y            | N            | 76   | 9/17/14      | 33.3 a   | 66.4 a-d   | 27.0 e-t                     | 0.08 |
| 88366X                  | Richardson Seeds, Ltd | FS           | ML       | Y            | N            | 63   | 9/12/14      | 3.3 a    | 66.4 a-d   | 21.6 c-t                     | 0.17 |
| Great Scott BMR-R       | Scott Seed Co.        | FS           | L        | Y            | N            | 67   | 9/17/14      | 33.3 a   | 69.1 a-d   | 20.5 c-t                     | 0.11 |
| Geat Scott BMR-W        | Scott Seed Co.        | FS           | L        | Y            | N            | 68   | 9/12/14      | 33.3 a   | 69.9 a-e   | 21.2 n-t                     | 0.08 |
| Rush                    | Scott Seed Co.        | FS           | M        | N            | N            | 59   | 9/9/14       | 16.7 a   | 66.8 a-e   | 16.8 i-t                     | 0.23 |
| X50623                  | Scott Seed Co.        | FS           | ML       | Y            | N            | 63   | 9/9/14       | 76.7 a   | 61.9 a-d   | 17.1 d-t                     | 0.13 |
| BMR Gold X              | Scott Seed Co.        | FS           | M        | Y            | Y            | 63   | 9/7/14       | 50.0 a   | 60.1 a-d   | 16.8 b-t                     | 0.21 |
| BMR Gold                | Scott Seed Co.        | FS           | M        | Y            | N            | 64   | 9/6/14       | 26.7 a   | 62.4 a-d   | 19.8 a-o                     | 0.18 |
| Premium Stock LS        | Scott Seed Co.        | SS           | PS       | N            | N            | 110  | 10/6/14      | 13.3 a   | 65.9 abc   | 27.1 e-t                     | 0.03 |
| X51423                  | Scott Seed Co.        | FS           | ML       | Y            | N            | 63   | 9/12/14      | 23.3 a   | 65.8 a-d   | 20.2 abc                     | 0.22 |
| X5143                   | Scott Seed Co.        | FS           | M        | Y            | Y            | 59   | 9/5/14       | 0.0 a    | 65.1 a-e   | 22.0 b-s                     | 0.14 |
| Canex                   | Sharp Bros. Seed Co.  | FS           | ME       | N            | Y            | 60   | 8/29/14      | 0.0 a    | 64.3 b-e   | 21.8 j-t                     | 0.20 |
| Canex III               | Sharp Bros. Seed Co.  | FS           | ME       | N            | N            | 61   | 9/5/14       | 60.0 a   | 64.0 a-d   | 15.4 a-g                     | 0.08 |
| CanexBMR 208            | Sharp Bros. Seed Co.  | FS           | M        | Y            | N            | 63   | 9/5/14       | 28.3 a   | 64.7 a-d   | 17.6 abc                     | 0.17 |
| CanexBMR 525            | Sharp Bros. Seed Co.  | FS           | M        | Y            | N            | 67   | 9/17/14      | 0.0 a    | 64.3 a-d   | 20.8 ab                      | 0.06 |

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| Variety Information* |                      |              |          |              |              | Mean Days to Half-Bloom, Harvest Date, Lodging, Moisture and Yield |              |          |            |                                 |      |  |
|----------------------|----------------------|--------------|----------|--------------|--------------|--|--------------|----------|------------|---------------------------------|------|--|
| Hybrid               | Company              | Sorghum Type | Maturity | Brown Midrib | Male Sterile | Days to HB   | Harvest Date | % Lodged | % Moisture | Yield (tons/ac)<br>65% Moisture | CV   |  |
| CanexBMR 550         | Sharp Bros. Seed Co. | FS           | M        | Y            | N            | 67   | 9/14/14      | 0.0 a    | 66.2 a-d   | 21.6 a-j                        | 0.21 |  |
| CanexBMR 600         | Sharp Bros. Seed Co. | FS           | M        | Y            | Y            | 72   | 9/17/14      | 0.0 a    | 65.7 b-e   | 26.2 i-t                        | 0.14 |  |
| SS405                | Sorghum Partners     | FS           | L        | N            | N            | 76   | 9/17/14      | 0.0 a    | 67.1 a-d   | 20.0 a-o                        | 0.16 |  |
| 1990                 | Sorghum Partners     | FS           | PS       | N            | N            | >115   | 9/27/14      | 18.3 a   | 66.7 a-d   | 32.4 a-r                        | 0.08 |  |
| NK300                | Sorghum Partners     | FS           | M        | N            | N            | 61   | 9/8/14       | 66.7 a   | 66.9 a-d   | 23.2 a-q                        | 0.07 |  |
| SD1741 BMR           | Sorghum Partners     | SS           | PS       | Y            | N            | 56   | 9/14/14      | 0.0 a    | 70.5 ab    | 17.1 a-k                        | 0.17 |  |
| SPX901               | Sorghum Partners     | FS           | PS       | N            | N            | >115   | 10/6/14      | 0.0 a    | 71.5 a-d   | 29.3 a-g                        | 0.08 |  |
| SPX902               | Sorghum Partners     | FS           | PS       | N            | N            | >115   | 10/6/14      | 6.7 a    | 74.2 a-d   | 32.5 a-i                        | 0.12 |  |
| SPX1615              | Sorghum Partners     | FS           | PS       | N            | N            | >115   | 10/6/14      | 5.0 a    | 71.7 a-d   | 34.1 a-e                        | 0.04 |  |
| SPX904               | Sorghum Partners     | FS           | PS       | N            | N            | >115   | 10/6/14      | 10.0 a   | 71.8 a-d   | 28.0 c-t                        | 0.14 |  |
| SPX602BD             | Sorghum Partners     | SS           | M        | N            | N            | 58   | 9/14/14      | 0.0 a    | 70.8 b-e   | 17.3 e-t                        | 0.09 |  |
| 3701                 | Sorghum Partners     | FS           | L        | N            | N            | 66   | 9/17/14      | 0.0 a    | 66.5 a-d   | 26.3 a-n                        | 0.07 |  |
| SPX3902BD            | Sorghum Partners     | FS           | L        | N            | N            | 66   | 9/19/14      | 16.7 a   | 64.2 a-e   | 24.2 e-t                        | 0.11 |  |
| SPX-28313            | Sorghum Partners     | FS           | L        | N            | N            | 73   | 9/23/14      | 0.0 a    | 66.9 a-d   | 25.3 rst                        | 0.20 |  |
| Sordan BMR 6131      | Sorghum Partners     | SS           | PS       | Y            | N            | >115   | 10/6/14      | 16.7 a   | 69.6 a-d   | 27.8 b-r                        | 0.24 |  |
| Trudan Headless      | Sorghum Partners     | SU           | PS       | N            | N            | 112  | 10/6/14      | 0.0 a    | 70.7 a-e   | 29.5 h-t                        | 0.12 |  |
| Sordan Headless      | Sorghum Partners     | SS           | PS       | N            | N            | 113  | 10/6/14      | 0.0 a    | 69.6 a-d   | 28.5 c-t                        | 0.10 |  |
| SDH2942BMR           | Sorghum Partners     | SS           | PS       | Y            | Y            | 109  | 10/6/14      | 0.0 a    | 68.9 b-e   | 30.9 e-t                        | 0.22 |  |
| Sweet Bee BMR        | Warner Seeds, Inc    | FS           | ME       | Y            | N            | 67   | 9/17/14      | 0.0 a    | 69.5 a-d   | 22.1 f-t                        | 0.13 |  |
| 2-Way BMR Sterile    | Warner Seeds, Inc    | FS           | M        | Y            | Y            | 59   | 9/5/14       | 0.0 a    | 69.5 a-d   | 19.9 e-t                        | 0.14 |  |
| Integra 32F80        | Wilbur-Ellis Co.     | FS           | L        | Y            | N            | 66   | 9/15/14      | 3.3 a    | 70.1 a-e   | 26.5 q-t                        | 0.14 |  |
| Integra 37F60        | Wilbur-Ellis Co.     | FS           | M        | Y            | N            | 60   | 9/5/14       | 33.3 a   | 69.9 b-e   | 20.4 o-t                        | 0.08 |  |
| Integra 35F45        | Wilbur-Ellis Co.     | FS           | ME       | Y            | N            | 61   | 9/5/14       | 6.7 a    | 72.4 cde   | 13.3 e-t                        | 0.14 |  |
| Check (84G62)        |                      | GS           | ML       | N            | N            | 64   | 9/5/14       | 0.0 a    | 67.8 a-e   | 18.9 g-t                        | 0.13 |  |

**Table 3.** 2014 summary of sorghum varieties for nutritional composition.\*Variety information was provided by seed companies. Male sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum.

| Variety Information*     |                    |              |          | Nutrient Composition and Calculations |      |       |       |          |          |         |          |            |
|--------------------------|--------------------|--------------|----------|---------------------------------------|------|-------|-------|----------|----------|---------|----------|------------|
| Hybrid                   | Company            | Sorghum Type | Maturity | Brown Midrib                          | % CP | % ADF | % NDF | % Lignin | % Starch | % C Fat | % NDFD48 | % IVTMDM48 |
| Alta AF7101              | Advanta US         | FS           | E        | Y                                     | 8.2  | 32.9  | 44.8  | 5.2      | 26.4     | 2.3     | 55.1     | 79.9       |
| Alta AF7102              | Advanta US         | FS           | E        | Y                                     | 8.2  | 30.2  | 40.5  | 5.0      | 30.5     | 2.6     | 54.9     | 81.7       |
| Alta AF7202              | Advanta US         | FS           | ME       | Y                                     | 7.9  | 28.0  | 38.0  | 4.7      | 33.3     | 2.5     | 58.0     | 84.1       |
| Alta AF7401              | Advanta US         | FS           | L        | Y                                     | 8.1  | 33.3  | 49.4  | 4.2      | 17.9     | 2.3     | 58.2     | 79.4       |
| XF30231                  | Advanta US         | FS (X)       | E        | Y                                     | 9.5  | 29.6  | 40.5  | 5.5      | 29.8     | 2.0     | 53.3     | 81.1       |
| Alta AF7301              | Advanta US         | FS           | ML       | Y                                     | 8.0  | 33.6  | 47.2  | 5.6      | 18.3     | 2.6     | 55.2     | 78.9       |
| Alta AS6401              | Advanta US         | SS           | ML       | Y                                     | 7.5  | 37.2  | 54.3  | 4.4      | 10.4     | 1.9     | 58.7     | 77.6       |
| Alta AS6402              | Advanta US         | SS           | L        | Y                                     | 8.6  | 33.4  | 48.7  | 4.4      | 15.1     | 2.4     | 59.0     | 80.1       |
| Alta AS6501              | Advanta US         | SS           | PS       | Y                                     | 7.2  | 41.5  | 58.6  | 5.5      | 8.7      | 1.9     | 51.2     | 71.4       |
| Alta AF8301              | Advanta US         | FS           | M        | N                                     | 7.6  | 34.4  | 49.4  | 5.7      | 22.7     | 2.2     | 54.4     | 77.5       |
| BH312FBD                 | B-H Genetics       | FS           | O        | Y                                     | 7.3  | 33.1  | 47.8  | 4.8      | 20.0     | 2.4     | 59.0     | 80.4       |
| XPF1460FBD               | B-H Genetics       | FS           | O        | Y                                     | 7.5  | 34.4  | 46.7  | 6.2      | 24.2     | 2.5     | 55.2     | 79.1       |
| XPF1461FBD               | B-H Genetics       | FS           | O        | Y                                     | 7.3  | 32.6  | 45.4  | 5.8      | 25.8     | 2.4     | 55.6     | 79.8       |
| SeaHawk 6                | Blue River Hybrids | SS           | M        | Y                                     | 8.5  | 37.0  | 49.9  | 7.7      | 22.6     | 1.9     | 45.1     | 72.6       |
| Blackhawk 12             | Blue River Hybrids | SS           | M        | Y                                     | 7.1  | 36.2  | 52.7  | 5.3      | 16.5     | 2.3     | 57.0     | 77.3       |
| Warbler                  | Blue River Hybrids | FS           | ML       | Y                                     | 8.7  | 34.4  | 51.0  | 5.6      | 21.1     | 1.7     | 59.6     | 79.4       |
| Browning Cadan 99B       | Browning Seed Inc. | SS           | ME       | N                                     | 5.9  | 46.0  | 61.4  | 8.9      | 13.3     | 1.5     | 46.3     | 67.0       |
| Browning Tridan          | Browning Seed Inc. | SS           | M        | N                                     | 7.4  | 43.5  | 57.5  | 9.7      | 18.2     | 1.5     | 46.6     | 69.3       |
| Browning Sweet Sioux WMR | Browning Seed Inc. | SS           | M        | N                                     | 7.8  | 43.8  | 58.5  | 9.8      | 16.7     | 1.2     | 48.0     | 69.6       |
| Browning Sweet Sioux BMR | Browning Seed Inc. | SS           | M        | Y                                     | 7.3  | 35.5  | 50.5  | 4.5      | 15.1     | 2.5     | 54.0     | 76.8       |
| Browning Silage Master   | Browning Seed Inc. | FS           | ML       | N                                     | 8.2  | 35.8  | 52.2  | 5.2      | 13.2     | 2.1     | 57.4     | 77.8       |
| Browning Bundle King     | Browning Seed Inc. | FS           | M        | N                                     | 7.0  | 35.9  | 50.1  | 5.8      | 19.9     | 1.4     | 51.3     | 75.6       |
| Browning Exp. Avenger    | Browning Seed Inc. | FS           | ML       | Y                                     | 6.6  | 44.0  | 64.0  | 5.8      | 2.0      | 0.9     | 54.5     | 70.9       |
| Browning Exp. F-15       | Browning Seed Inc. | SS           | M        | N                                     | 7.1  | 38.2  | 52.1  | 7.0      | 19.7     | 2.0     | 48.8     | 73.3       |

**Table 3 continued.** 2014 summary of sorghum varieties for nutritional composition.\*Variety information was provided by seed companies. Male sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum.

| Variety Information* |                       |              |          | Nutrient Composition and Calculations |      |       |       |          |          |         |          |            |
|----------------------|-----------------------|--------------|----------|---------------------------------------|------|-------|-------|----------|----------|---------|----------|------------|
| Hybrid               | Company               | Sorghum Type | Maturity | Brown Midrib                          | % CP | % ADF | % NDF | % Lignin | % Starch | % C Fat | % NDFD48 | % IVTDMD48 |
| Browning Exp. B-52   | Browning Seed Inc.    | SS           | PS       | N                                     | 6.1  | 47.7  | 68.0  | 7.1      | 1.5      | 1.1     | 48.2     | 64.8       |
| Browning Exp. 747    | Browning Seed Inc.    | SS           | M        | N                                     | 7.2  | 47.3  | 67.6  | 6.6      | 2.6      | 1.0     | 51.6     | 67.3       |
| Browning Exp. Apache | Browning Seed Inc.    | FS           | L        | N                                     | 6.8  | 41.4  | 61.1  | 6.2      | 8.1      | 1.3     | 50.5     | 69.7       |
| Browning Exp. RTC    | Browning Seed Inc.    | FS           | ML       | N                                     | 9.7  | 31.7  | 44.2  | 5.8      | 22.9     | 1.8     | 53.0     | 79.3       |
| Browning Exp. RO     | Browning Seed Inc.    | FS           | M        | N                                     | 7.5  | 29.0  | 41.5  | 4.9      | 29.3     | 3.0     | 54.2     | 81.0       |
| Browning Exp. HG     | Browning Seed Inc.    | FS           | ML       | N                                     | 9.6  | 33.0  | 46.3  | 6.7      | 23.1     | 1.7     | 51.0     | 77.3       |
| Browning Exp. PP     | Browning Seed Inc.    | SS           | M        | N                                     | 7.1  | 42.9  | 59.9  | 6.4      | 9.9      | 1.7     | 52.1     | 71.3       |
| 841F                 | DuPont Pioneer        | FS           | M        | N                                     | 8.9  | 35.6  | 52.0  | 5.1      | 20.5     | 2.1     | 60.0     | 79.2       |
| 849F                 | DuPont Pioneer        | FS           | ML       | N                                     | 8.1  | 34.4  | 48.3  | 5.7      | 21.3     | 2.1     | 56.6     | 79.0       |
| Nutricane II         | Monsanto              | FS           | M        | N                                     | 7.3  | 32.3  | 46.8  | 4.5      | 21.9     | 2.4     | 58.5     | 80.6       |
| Nutrichoice II       | Monsanto              | FS           | ML       | N                                     | 8.9  | 35.0  | 51.8  | 6.5      | 19.8     | 1.8     | 57.0     | 77.7       |
| DKS53-67             | Monsanto              | GS           | ML       | N                                     | 8.6  | 27.8  | 41.2  | 4.0      | 31.5     | 2.8     | 56.6     | 82.1       |
| Ambar                | Monsanto              | GS           | ML       | N                                     | 8.1  | 28.1  | 41.6  | 4.1      | 31.9     | 2.5     | 60.2     | 83.4       |
| Litio                | Monsanto              | GS           | ML       | N                                     | 7.7  | 31.7  | 47.4  | 4.4      | 25.0     | 2.1     | 59.9     | 81.0       |
| DKS-46               | Monsanto              | GS           | ML       | N                                     | 8.1  | 28.7  | 43.0  | 4.4      | 29.1     | 2.2     | 59.3     | 82.5       |
| DKS-44               | Monsanto              | GS           | ML       | N                                     | 7.7  | 30.8  | 42.3  | 4.8      | 31.9     | 2.6     | 56.2     | 81.5       |
| Cobalto              | Monsanto              | GS           | ML       | N                                     | 8.2  | 32.4  | 45.7  | 5.6      | 25.4     | 2.2     | 58.0     | 80.8       |
| DKS51-01             | Monsanto              | GS           | ML       | N                                     | 8.4  | 29.2  | 41.1  | 5.6      | 33.9     | 2.4     | 57.5     | 82.5       |
| Bundle King BMR      | Richardson Seeds, Ltd | FS           | L        | Y                                     | 7.5  | 35.2  | 52.3  | 4.1      | 17.0     | 2.0     | 67.7     | 83.1       |
| Dairy Master BMR     | Richardson Seeds, Ltd | FS           | ML       | Y                                     | 7.9  | 30.4  | 44.5  | 3.5      | 24.9     | 2.2     | 63.3     | 83.7       |
| Pacesetter BMR       | Richardson Seeds, Ltd | FS           | PS       | Y                                     | 6.3  | 46.3  | 70.2  | 4.8      | 2.1      | 1.2     | 63.7     | 74.5       |
| Pacesetter BMR Red   | Richardson Seeds, Ltd | FS           | PS       | Y                                     | 6.5  | 46.8  | 65.7  | 7.2      | 2.0      | 1.3     | 51.9     | 68.4       |
| Silo 700D            | Richardson Seeds, Ltd | FS           | ML       | N                                     | 7.6  | 33.3  | 48.4  | 4.6      | 20.7     | 2.3     | 61.9     | 81.6       |
| Silo 700D BMR        | Richardson Seeds, Ltd | FS           | L        | Y                                     | 7.8  | 33.2  | 50.7  | 4.1      | 19.9     | 2.4     | 67.5     | 83.5       |

**Table 3 continued.** 2014 summary of sorghum varieties for nutritional composition.\*Variety information was provided by seed companies. Male sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum.

| Variety Information*    |                       |              |          | Nutrient Composition and Calculations |      |       |       |          |          |         |          |            |
|-------------------------|-----------------------|--------------|----------|---------------------------------------|------|-------|-------|----------|----------|---------|----------|------------|
| Hybrid                  | Company               | Sorghum Type | Maturity | Brown Midrib                          | % CP | % ADF | % NDF | % Lignin | % Starch | % C Fat | % NDFD48 | % IVTDMD48 |
| 9500W                   | Richardson Seeds, Ltd | FS           | ML       | N                                     | 7.6  | 35.9  | 51.4  | 4.9      | 23.3     | 2.2     | 59.2     | 79.0       |
| Sweeter'N Honey BMR     | Richardson Seeds, Ltd | SS           | ME       | Y                                     | 7.7  | 32.7  | 46.5  | 3.5      | 23.9     | 2.3     | 66.7     | 84.5       |
| Sweeter'N Honey BMR Red | Richardson Seeds, Ltd | SS           | ME       | Y                                     | 7.2  | 37.6  | 53.8  | 4.2      | 17.5     | 2.3     | 66.6     | 82.0       |
| 115392X                 | Richardson Seeds, Ltd | FS           | L        | Y                                     | 6.0  | 35.1  | 51.5  | 4.0      | 16.0     | 2.0     | 65.1     | 82.0       |
| 88366X                  | Richardson Seeds, Ltd | FS           | ML       | Y                                     | 7.3  | 31.8  | 47.4  | 3.3      | 23.4     | 2.1     | 66.2     | 84.0       |
| Great Scott BMR-R       | Scott Seed Co.        | FS           | L        | Y                                     | 8.5  | 37.2  | 54.4  | 4.3      | 15.2     | 2.2     | 60.4     | 78.5       |
| Geat Scott BMR-W        | Scott Seed Co.        | FS           | L        | Y                                     | 9.8  | 37.5  | 57.1  | 4.2      | 10.2     | 1.7     | 66.7     | 81.0       |
| Rush                    | Scott Seed Co.        | FS           | M        | N                                     | 8.5  | 31.0  | 43.9  | 4.2      | 27.0     | 2.1     | 57.2     | 81.2       |
| X50623                  | Scott Seed Co.        | FS           | ML       | Y                                     | 8.2  | 36.9  | 51.9  | 5.8      | 20.7     | 1.9     | 56.6     | 77.4       |
| BMR Gold X              | Scott Seed Co.        | FS           | M        | Y                                     | 7.5  | 32.9  | 46.5  | 4.7      | 18.2     | 2.2     | 53.2     | 78.2       |
| BMR Gold                | Scott Seed Co.        | FS           | M        | Y                                     | 8.4  | 30.9  | 42.0  | 5.0      | 25.1     | 2.4     | 52.9     | 80.2       |
| Premium Stock LS        | Scott Seed Co.        | SS           | PS       | N                                     | 6.4  | 43.7  | 64.7  | 6.8      | 1.6      | 1.1     | 51.2     | 68.5       |
| X51423                  | Scott Seed Co.        | FS           | ML       | Y                                     | 9.4  | 29.1  | 42.7  | 4.3      | 24.2     | 2.6     | 56.7     | 81.5       |
| X5143                   | Scott Seed Co.        | FS           | M        | Y                                     | 7.5  | 31.5  | 46.6  | 4.9      | 19.2     | 2.3     | 56.3     | 79.6       |
| Canex                   | Sharp Bros. Seed Co.  | FS           | ME       | N                                     | 8.4  | 35.4  | 49.9  | 7.7      | 21.4     | 1.8     | 50.0     | 75.1       |
| Canex III               | Sharp Bros. Seed Co.  | FS           | ME       | N                                     | 7.5  | 35.0  | 47.2  | 5.4      | 26.8     | 2.1     | 55.2     | 78.9       |
| CanexBMR 208            | Sharp Bros. Seed Co.  | FS           | M        | Y                                     | 8.6  | 31.7  | 46.2  | 3.9      | 24.9     | 2.5     | 62.7     | 82.8       |
| CanexBMR 525            | Sharp Bros. Seed Co.  | FS           | M        | Y                                     | 7.4  | 35.1  | 54.0  | 4.3      | 19.0     | 2.0     | 68.8     | 83.1       |
| CanexBMR 550            | Sharp Bros. Seed Co.  | FS           | M        | Y                                     | 8.0  | 33.2  | 49.8  | 4.5      | 15.8     | 2.9     | 61.3     | 80.7       |
| CanexBMR 600            | Sharp Bros. Seed Co.  | FS           | M        | Y                                     | 5.8  | 36.5  | 53.5  | 4.2      | 12.2     | 1.7     | 61.1     | 79.2       |
| SS405                   | Sorghum Partners      | FS           | L        | N                                     | 7.3  | 39.5  | 60.5  | 5.6      | 5.7      | 1.6     | 52.8     | 71.4       |
| 1990                    | Sorghum Partners      | FS           | PS       | N                                     | 7.4  | 41.9  | 63.8  | 6.5      | 1.1      | 1.4     | 51.5     | 69.0       |
| NK300                   | Sorghum Partners      | FS           | M        | N                                     | 7.0  | 35.4  | 51.0  | 6.6      | 22.5     | 2.2     | 51.0     | 75.0       |
| SD1741 BMR              | Sorghum Partners      | SS           | PS       | Y                                     | 7.9  | 35.9  | 52.7  | 5.0      | 12.6     | 2.5     | 53.3     | 75.4       |

**Table 3 continued.** 2014 summary of sorghum varieties for nutritional composition.\*Variety information was provided by seed companies. Male sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum.

| Variety Information* |                   |              |          | Nutrient Composition and Calculations |      |       |       |          |          |         |          |            |
|----------------------|-------------------|--------------|----------|---------------------------------------|------|-------|-------|----------|----------|---------|----------|------------|
| Hybrid               | Company           | Sorghum Type | Maturity | Brown Midrib                          | % CP | % ADF | % NDF | % Lignin | % Starch | % C Fat | % NDFD48 | % IVTDMD48 |
| SPX901               | Sorghum Partners  | FS           | PS       | N                                     | 5.9  | 48.5  | 71.9  | 6.9      | 1.2      | 1.1     | 52.7     | 66.0       |
| SPX902               | Sorghum Partners  | FS           | PS       | N                                     | 5.6  | 46.1  | 69.5  | 6.6      | 1.0      | 1.1     | 51.1     | 66.0       |
| SPX1615              | Sorghum Partners  | FS           | PS       | N                                     | 6.3  | 48.2  | 69.7  | 7.7      | 0.9      | 1.0     | 50.2     | 65.3       |
| SPX904               | Sorghum Partners  | FS           | PS       | N                                     | 6.6  | 47.7  | 70.1  | 7.6      | 1.3      | 0.9     | 47.3     | 63.0       |
| SPX602BD             | Sorghum Partners  | SS           | M        | N                                     | 8.0  | 35.1  | 50.1  | 5.5      | 18.2     | 2.7     | 54.4     | 77.1       |
| 3701                 | Sorghum Partners  | FS           | L        | N                                     | 7.4  | 32.3  | 48.4  | 4.2      | 21.7     | 2.3     | 63.7     | 82.4       |
| SPX3902BD            | Sorghum Partners  | FS           | L        | N                                     | 8.8  | 30.6  | 44.5  | 4.0      | 23.6     | 2.4     | 59.9     | 82.1       |
| SPX-28313            | Sorghum Partners  | FS           | L        | N                                     | 7.4  | 42.9  | 63.6  | 6.3      | 6.2      | 1.5     | 52.1     | 69.5       |
| Sordan BMR 6131      | Sorghum Partners  | SS           | PS       | Y                                     | 8.3  | 43.6  | 62.6  | 6.3      | 1.1      | 1.2     | 51.8     | 69.8       |
| Trudan Headless      | Sorghum Partners  | SU           | PS       | N                                     | 6.5  | 47.8  | 68.1  | 7.8      | 1.7      | 1.0     | 49.0     | 65.2       |
| Sordan Headless      | Sorghum Partners  | SS           | PS       | N                                     | 7.7  | 46.9  | 69.1  | 7.0      | 2.1      | 1.0     | 50.4     | 65.7       |
| SDH2942BMR           | Sorghum Partners  | SS           | PS       | Y                                     | 7.0  | 43.3  | 63.4  | 6.0      | 1.5      | 1.2     | 51.2     | 69.1       |
| Sweet Bee BMR        | Warner Seeds, Inc | FS           | ME       | Y                                     | 7.7  | 35.4  | 53.5  | 4.4      | 16.5     | 1.7     | 61.9     | 79.6       |
| 2-Way BMR Sterile    | Warner Seeds, Inc | FS           | M        | Y                                     | 8.2  | 33.6  | 50.1  | 5.5      | 22.3     | 2.2     | 60.4     | 80.2       |
| Integra 32F80        | Wilbur-Ellis Co.  | FS           | L        | Y                                     | 8.0  | 37.0  | 54.5  | 5.1      | 17.5     | 1.9     | 54.5     | 75.2       |
| Integra 37F60        | Wilbur-Ellis Co.  | FS           | M        | Y                                     | 8.3  | 26.7  | 37.3  | 5.0      | 37.3     | 2.5     | 50.4     | 81.5       |
| Integra 35F45        | Wilbur-Ellis Co.  | FS           | ME       | Y                                     | 9.2  | 28.8  | 42.1  | 4.2      | 27.1     | 2.4     | 61.6     | 83.9       |
| Check (84G62)        |                   | GS           | ML       | N                                     | 8.5  | 31.2  | 45.6  | 4.8      | 28.5     | 2.4     | 62.8     | 83.1       |

**Table 4.** 2014 summary of sorghum varieties for nutritional composition.\*Variety information was provided by seed companies. Male sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum.

| Variety Information*     |                    |              |          |              |              | Nutrient Composition and Calculations |       |      |              |
|--------------------------|--------------------|--------------|----------|--------------|--------------|---------------------------------------|-------|------|--------------|
| Hybrid                   | Company            | Sorghum Type | Maturity | Brown Midrib | Male Sterile | RFV                                   | RFQ   | TDN  | Milk lbs/ton |
| Alta AF7101              | Advanta US         | FS           | E        | Y            | N            | 131.4                                 | 138.8 | 55.7 | 3354.2       |
| Alta AF7102              | Advanta US         | FS           | E        | Y            | N            | 150.0                                 | 157.7 | 58.1 | 3219.8       |
| Alta AF7202              | Advanta US         | FS           | ME       | Y            | N            | 164.3                                 | 180.0 | 60.6 | 2948.0       |
| Alta AF7401              | Advanta US         | FS           | L        | Y            | N            | 118.6                                 | 128.0 | 53.8 | 3051.8       |
| XF30231                  | Advanta US         | FS (X)       | E        | Y            | N            | 151.1                                 | 153.4 | 57.5 | 3239.4       |
| Alta AF7301              | Advanta US         | FS           | ML       | Y            | Y            | 124.0                                 | 127.2 | 53.4 | 2766.9       |
| Alta AS6401              | Advanta US         | SS           | ML       | Y            | N            | 102.7                                 | 111.6 | 49.9 | 2977.7       |
| Alta AS6402              | Advanta US         | SS           | L        | Y            | N            | 120.4                                 | 131.5 | 54.0 | 2628.8       |
| Alta AS6501              | Advanta US         | SS           | PS       | Y            | N            | 90.0                                  | 83.9  | 44.2 | 2422.9       |
| Alta AF8301              | Advanta US         | FS           | M        | N            | N            | 116.9                                 | 118.8 | 52.1 | 2643.8       |
| BH312FBD                 | B-H Genetics       | FS           | O        | Y            |              | 122.8                                 | 135.1 | 54.7 | 2698.1       |
| XPF1460FBD               | B-H Genetics       | FS           | O        | Y            |              | 123.7                                 | 130.4 | 53.9 | 2857.7       |
| XPF1461FBD               | B-H Genetics       | FS           | O        | Y            |              | 130.0                                 | 135.9 | 54.7 | 2844.3       |
| SeaHawk 6                | Blue River Hybrids | SS           |          | Y            | N            | 112.2                                 | 95.4  | 47.5 | 2106.0       |
| Blackhawk 12             | Blue River Hybrids | SS           |          | Y            | N            | 107.2                                 | 114.7 | 51.3 | 2748.0       |
| Warbler                  | Blue River Hybrids | FS           |          | Y            | N            | 113.1                                 | 124.1 | 52.3 | 2280.8       |
| Browning Cadan 99B       | Browning Seed Inc. | SS           | ME       | N            | N            | 80.3                                  | 68.8  | 40.7 | 2852.6       |
| Browning Tridan          | Browning Seed Inc. | SS           | M        | N            | N            | 89.2                                  | 78.6  | 42.9 | 2895.0       |
| Browning Sweet Sioux WMR | Browning Seed Inc. | SS           | M        | N            | N            | 87.1                                  | 78.1  | 42.1 | 1953.1       |
| Browning Sweet Sioux BMR | Browning Seed Inc. | SS           | M        | Y            | N            | 113.0                                 | 115.4 | 52.2 | 2099.9       |
| Browning Silage Master   | Browning Seed Inc. | FS           | ML       | N            | N            | 108.8                                 | 117.1 | 52.0 | 2095.7       |
| Browning Bundle King     | Browning Seed Inc. | FS           | M        | N            | Y            | 113.4                                 | 108.9 | 50.3 | 2435.8       |
| Browning Exp. Avenger    | Browning Seed Inc. | FS           | ML       | Y            | N            | 79.2                                  | 77.6  | 41.0 | 2526.3       |
| Browning Exp. F-15       | Browning Seed Inc. | SS           | M        | N            | N            | 105.5                                 | 97.3  | 48.1 | 2429.6       |

**Table 4 continued.** 2014 summary of sorghum varieties for nutritional composition.\*Variety information was provided by seed companies. Male sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum.

| Variety Information* |                       |              |          |              |              | Nutrient Composition and Calculations |       |      |              |
|----------------------|-----------------------|--------------|----------|--------------|--------------|---------------------------------------|-------|------|--------------|
| Hybrid               | Company               | Sorghum Type | Maturity | Brown Midrib | Male Sterile | RFV                                   | RFQ   | TDN  | Milk lbs/ton |
| Browning Exp. B-52   | Browning Seed Inc.    | SS           | PS       | N            | N            | 71.0                                  | 59.9  | 37.1 | 1856.1       |
| Browning Exp. 747    | Browning Seed Inc.    | SS           | M        | N            | N            | 71.4                                  | 64.7  | 36.9 | 2408.4       |
| Browning Exp. Apache | Browning Seed Inc.    | FS           | L        | N            | N            | 86.1                                  | 78.5  | 43.4 | 1618.4       |
| Browning Exp. RTC    | Browning Seed Inc.    | FS           | ML       | N            | N            | 135.3                                 | 133.3 | 53.8 | 1900.1       |
| Browning Exp. RO     | Browning Seed Inc.    | FS           | M        | N            | Y            | 148.5                                 | 155.1 | 59.4 | 2006.0       |
| Browning Exp. HG     | Browning Seed Inc.    | FS           | ML       | N            | N            | 126.8                                 | 120.7 | 52.0 | 2711.4       |
| Browning Exp. PP     | Browning Seed Inc.    | SS           | M        | N            | N            | 86.0                                  | 82.4  | 43.2 | 3103.7       |
| 841F                 | DuPont Pioneer        | FS           | M        | N            | N            | 109.5                                 | 122.8 | 52.1 | 2660.9       |
| 849F                 | DuPont Pioneer        | FS           | ML       | N            | N            | 119.9                                 | 128.7 | 53.5 | 2237.1       |
| Nutricane II         | Monsanto              | FS           | M        | N            | Y            | 127.0                                 | 139.7 | 56.2 | 3022.1       |
| Nutrichoice II       | Monsanto              | FS           | ML       | N            | N            | 110.8                                 | 116.4 | 50.5 | 3240.7       |
| DKS53-67             | Monsanto              | GS           | ML       | N            | N            | 152.2                                 | 160.2 | 58.6 | 2899.8       |
| Ambar                | Monsanto              | GS           | ML       | N            | N            | 149.6                                 | 167.7 | 60.3 | 2765.6       |
| Litio                | Monsanto              | GS           | ML       | N            | N            | 126.0                                 | 139.2 | 55.4 | 3130.6       |
| DKS-46               | Monsanto              | GS           | ML       | N            | N            | 143.9                                 | 155.9 | 57.2 | 3261.9       |
| DKS-44               | Monsanto              | GS           | ML       | N            | N            | 142.9                                 | 152.9 | 57.5 | 3019.7       |
| Cobalto              | Monsanto              | GS           | ML       | N            | N            | 129.8                                 | 140.2 | 54.5 | 3114.5       |
| DKS51-01             | Monsanto              | GS           | ML       | N            | N            | 149.8                                 | 162.9 | 58.9 | 3054.1       |
| Bundle King BMR      | Richardson Seeds, Ltd | FS           | L        | Y            | Y            | 109.1                                 | 142.2 | 55.5 | 2870.1       |
| Dairy Master BMR     | Richardson Seeds, Ltd | FS           | ML       | Y            | N            | 136.5                                 | 161.4 | 58.8 | 2860.4       |
| Pacesetter BMR       | Richardson Seeds, Ltd | FS           | PS       | Y            | N            | 70.1                                  | 90.3  | 43.8 | 3163.5       |
| Pacesetter BMR Red   | Richardson Seeds, Ltd | FS           | PS       | Y            | N            | 74.4                                  | 71.9  | 40.0 | 3184.1       |
| Silo 700D            | Richardson Seeds, Ltd | FS           | ML       | N            | N            | 121.1                                 | 142.0 | 56.2 | 2640.8       |

**Table 4 continued.** 2014 summary of sorghum varieties for nutritional composition.\*Variety information was provided by seed companies. Male sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum.

| Variety Information*    |                       |              |          |              |              | Nutrient Composition and Calculations |       |      |              |
|-------------------------|-----------------------|--------------|----------|--------------|--------------|---------------------------------------|-------|------|--------------|
| Hybrid                  | Company               | Sorghum Type | Maturity | Brown Midrib | Male Sterile | RFV                                   | RFQ   | TDN  | Milk lbs/ton |
| Silo 700D BMR           | Richardson Seeds, Ltd | FS           | L        | Y            | N            | 115.8                                 | 148.5 | 57.3 | 1826.5       |
| 9500W                   | Richardson Seeds, Ltd | FS           | ML       | N            | N            | 110.0                                 | 123.5 | 52.6 | 3039.3       |
| Sweeter'N Honey BMR     | Richardson Seeds, Ltd | SS           | ME       | Y            | N            | 126.8                                 | 160.7 | 58.5 | 3329.4       |
| Sweeter'N Honey BMR Red | Richardson Seeds, Ltd | SS           | ME       | Y            | N            | 103.0                                 | 133.7 | 53.6 | 2876.3       |
| 115392X                 | Richardson Seeds, Ltd | FS           | L        | Y            | N            | 111.2                                 | 140.4 | 56.3 | 3336.7       |
| 88366X                  | Richardson Seeds, Ltd | FS           | ML       | Y            | N            | 125.8                                 | 156.2 | 58.1 | 3133.9       |
| Great Scott BMR-R       | Scott Seed Co.        | FS           | L        | Y            | N            | 102.6                                 | 116.3 | 50.8 | 2847.6       |
| Geat Scott BMR-W        | Scott Seed Co.        | FS           | L        | Y            | N            | 97.1                                  | 123.5 | 51.2 | 3284.2       |
| Rush                    | Scott Seed Co.        | FS           | M        | N            | N            | 137.5                                 | 147.9 | 57.2 | 2831.8       |
| X50623                  | Scott Seed Co.        | FS           | ML       | Y            | N            | 107.7                                 | 112.8 | 49.8 | 3024.5       |
| BMR Gold X              | Scott Seed Co.        | FS           | M        | Y            | Y            | 126.6                                 | 125.6 | 53.3 | 3049.6       |
| BMR Gold                | Scott Seed Co.        | FS           | M        | Y            | N            | 143.8                                 | 144.5 | 56.3 | 2661.9       |
| Premium Stock LS        | Scott Seed Co.        | SS           | PS       | N            | N            | 79.1                                  | 71.4  | 39.9 | 2421.2       |
| X51423                  | Scott Seed Co.        | FS           | ML       | Y            | N            | 144.2                                 | 153.2 | 58.5 | 2763.2       |
| X5143                   | Scott Seed Co.        | FS           | M        | Y            | Y            | 128.3                                 | 133.5 | 54.8 | 1693.8       |
| Canex                   | Sharp Bros. Seed Co.  | FS           | ME       | N            | Y            | 114.6                                 | 108.0 | 50.0 | 2973.3       |
| Canex III               | Sharp Bros. Seed Co.  | FS           | ME       | N            | N            | 121.4                                 | 128.1 | 53.8 | 2621.1       |
| CanexBMR 208            | Sharp Bros. Seed Co.  | FS           | M        | Y            | N            | 129.4                                 | 152.5 | 57.9 | 2570.2       |
| CanexBMR 525            | Sharp Bros. Seed Co.  | FS           | M        | Y            | N            | 105.9                                 | 141.7 | 56.1 | 2810.6       |
| CanexBMR 550            | Sharp Bros. Seed Co.  | FS           | M        | Y            | N            | 117.7                                 | 136.0 | 56.1 | 3224.9       |
| CanexBMR 600            | Sharp Bros. Seed Co.  | FS           | M        | Y            | Y            | 105.0                                 | 123.7 | 53.8 | 3318.1       |
| SS405                   | Sorghum Partners      | FS           | L        | N            | N            | 89.2                                  | 85.1  | 45.5 | 2872.9       |
| 1990                    | Sorghum Partners      | FS           | PS       | N            | N            | 82.0                                  | 75.3  | 42.8 | 2462.3       |
| NK300                   | Sorghum Partners      | FS           | M        | N            | N            | 111.7                                 | 105.5 | 49.8 | 2018.3       |

**Table 4 continued.** 2014 summary of sorghum varieties for nutritional composition.\*Variety information was provided by seed companies. Male sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum.

| Variety Information* |                   |              |          |              |              | Nutrient Composition and Calculations |       |      |              |
|----------------------|-------------------|--------------|----------|--------------|--------------|---------------------------------------|-------|------|--------------|
| Hybrid               | Company           | Sorghum Type | Maturity | Brown Midrib | Male Sterile | RFV                                   | RFQ   | TDN  | Milk lbs/ton |
| SD1741 BMR           | Sorghum Partners  | SS           | PS       | Y            | N            | 107.7                                 | 107.2 | 51.0 | 1755.8       |
| SPX901               | Sorghum Partners  | FS           | PS       | N            | N            | 66.2                                  | 62.5  | 36.7 | 2532.5       |
| SPX902               | Sorghum Partners  | FS           | PS       | N            | N            | 71.0                                  | 63.8  | 38.3 | 2378.7       |
| SPX1615              | Sorghum Partners  | FS           | PS       | N            | N            | 68.4                                  | 61.2  | 37.4 | 1950.0       |
| SPX904               | Sorghum Partners  | FS           | PS       | N            | N            | 68.6                                  | 53.9  | 34.4 | 1768.1       |
| SPX602BD             | Sorghum Partners  | SS           | M        | N            | N            | 114.1                                 | 118.3 | 53.0 | 1751.6       |
| 3701                 | Sorghum Partners  | FS           | L        | N            | N            | 122.6                                 | 145.8 | 56.9 | 1625.1       |
| SPX3902BD            | Sorghum Partners  | FS           | L        | N            | N            | 135.7                                 | 151.8 | 58.1 | 2722.8       |
| SPX-28313            | Sorghum Partners  | FS           | L        | N            | N            | 81.3                                  | 77.4  | 43.1 | 3156.4       |
| Sordan BMR 6131      | Sorghum Partners  | SS           | PS       | Y            | N            | 81.8                                  | 73.7  | 40.2 | 3065.4       |
| Trudan Headless      | Sorghum Partners  | SU           | PS       | N            | N            | 70.5                                  | 61.2  | 37.4 | 2122.4       |
| Sordan Headless      | Sorghum Partners  | SS           | PS       | N            | N            | 70.6                                  | 60.4  | 35.9 | 1754.0       |
| SDH2942BMR           | Sorghum Partners  | SS           | PS       | Y            | Y            | 80.8                                  | 73.6  | 40.6 | 1693.8       |
| Sweet Bee BMR        | Warner Seeds, Inc | FS           | ME       | Y            | N            | 106.4                                 | 123.0 | 52.5 | 1807.6       |
| 2-Way BMR Sterile    | Warner Seeds, Inc | FS           | M        | Y            | Y            | 116.7                                 | 132.6 | 54.7 | 1693.7       |
| Integra 32F80        | Wilbur-Ellis Co.  | FS           | L        | Y            | N            | 102.5                                 | 103.3 | 49.1 | 2895.7       |
| Integra 37F60        | Wilbur-Ellis Co.  | FS           | M        | Y            | N            | 170.1                                 | 166.2 | 59.6 | 3026.8       |
| Integra 35F45        | Wilbur-Ellis Co.  | FS           | ME       | Y            | N            | 146.8                                 | 166.3 | 58.5 | 2592.7       |
| Check (84G62)        |                   | GS           | ML       | N            | N            | 131.8                                 | 154.0 | 56.9 | 2968.6       |

**Table 5.** 2014 summary of the top 20 yielding sorghum varieties. \*Variety information was provided by seed companies. Male sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum. Means followed by the same letter do not significantly differ using LSD (0.05).

| Variety Information* |                       |              |          |              |              | Mean Days to Half-Bloom, Harvest Date, Lodging, Moisture and Yield |              |          |            |                              |      |
|----------------------|-----------------------|--------------|----------|--------------|--------------|--|--------------|----------|------------|------------------------------|------|
| Hybrid               | Company               | Sorghum Type | Maturity | Brown Midrib | Male Sterile | Days to HB   | Harvest Date | % Lodged | % Moisture | Yield (tons/ac) 65% Moisture | CV   |
| Silo 700D            | Richardson Seeds, Ltd | FS           | ML       | N            | N            | 66   | 9/17/14      | 0.0      | 67.1       | 36.6 a                       | 0.09 |
| SPX1615              | Sorghum Partners      | FS           | PS       | N            | N            | >115   | 10/6/14      | 5.0      | 71.7       | 34.1 a                       | 0.04 |
| SPX902               | Sorghum Partners      | FS           | PS       | N            | N            | >115   | 10/6/14      | 6.7      | 74.2       | 32.5 a                       | 0.12 |
| Pacesetter BMR       | Richardson Seeds, Ltd | FS           | PS       | Y            | N            | >115   | 10/6/14      | 13.3     | 66.9       | 32.4 a                       | 0.07 |
| 1990                 | Sorghum Partners      | FS           | PS       | N            | N            | >115   | 9/27/14      | 18.3     | 66.7       | 32.4 a                       | 0.08 |
| Pacesetter BMR Red   | Richardson Seeds, Ltd | FS           | PS       | Y            | N            | >115   | 10/6/14      | 30.0     | 67.6       | 31.8 a                       | 0.21 |
| SDH2942BMR           | Sorghum Partners      | SS           | PS       | Y            | Y            | 109  | 10/6/14      | 0.0      | 68.9       | 30.9 a                       | 0.22 |
| Browning Exp. B-52   | Browning Seed Inc.    | SS           | PS       | N            | N            | 115  | 10/6/14      | 6.7      | 71.0       | 30.2 a                       | 0.12 |
| Trudan Headless      | Sorghum Partners      | SU           | PS       | N            | N            | 112  | 10/6/14      | 0.0      | 70.7       | 29.5 a                       | 0.12 |
| SPX901               | Sorghum Partners      | FS           | PS       | N            | N            | >115   | 10/6/14      | 0.0      | 71.5       | 29.3 a                       | 0.08 |
| Browning Exp. 747    | Browning Seed Inc.    | SS           | M        | N            | N            | 111  | 10/7/14      | 3.3      | 70.7       | 29.1 a                       | 0.13 |
| Sordan Headless      | Sorghum Partners      | SS           | PS       | N            | N            | 113  | 10/6/14      | 0.0      | 69.6       | 28.5 ab                      | 0.10 |
| SPX904               | Sorghum Partners      | FS           | PS       | N            | N            | >115   | 10/6/14      | 10.0     | 71.8       | 28.0 ab                      | 0.14 |
| Sordan BMR 6131      | Sorghum Partners      | SS           | PS       | Y            | N            | >115   | 10/6/14      | 16.7     | 69.6       | 27.8 ab                      | 0.24 |
| Alta AF8301          | Advanta US            | FS           | M        | N            | N            | 68   | 9/11/14      | 60.0     | 70.7       | 27.7 ab                      | 0.10 |
| Premium Stock LS     | Scott Seed Co.        | SS           | PS       | N            | N            | 110  | 10/6/14      | 13.3     | 65.9       | 27.1 ab                      | 0.03 |
| 115392X              | Richardson Seeds, Ltd | FS           | L        | Y            | N            | 76   | 9/17/14      | 33.3     | 66.4       | 27.0 ab                      | 0.08 |
| Integra 32F80        | Wilbur-Ellis Co.      | FS           | L        | Y            | N            | 66   | 9/15/14      | 3.3      | 70.1       | 26.5 ab                      | 0.14 |
| 3701                 | Sorghum Partners      | FS           | L        | N            | N            | 66   | 9/17/14      | 0.0      | 66.5       | 26.3 ab                      | 0.07 |
| CanexBMR 600         | Sharp Bros. Seed Co.  | FS           | M        | Y            | Y            | 72   | 9/17/14      | 0.0      | 65.7       | 26.2 ab                      | 0.14 |

**Table 6.** 2014 summary of the top 20 quality sorghum varieties. \*Variety information was provided by seed companies. Male sterile entries were pollinated by other varieties. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum

| Variety Information* |                       |              |          |              |              | Nutrient Composition and Calculations |       |      |              |
|----------------------|-----------------------|--------------|----------|--------------|--------------|---------------------------------------|-------|------|--------------|
| Hybrid               | Company               | Sorghum Type | Maturity | Brown Midrib | Male Sterile | RFV                                   | RFQ   | TDN  | Milk lbs/ton |
| Alta AF7202          | Advanta US            | FS           | ME       | Y            | N            | 164.3                                 | 180.0 | 60.6 | 2948.0       |
| Ambar                | Monsanto              | GS           | ML       | N            | N            | 149.6                                 | 167.7 | 60.3 | 2765.6       |
| Integra 35F45        | Wilbur-Ellis Co.      | FS           | ME       | Y            | N            | 146.8                                 | 166.3 | 58.5 | 2592.7       |
| Integra 37F60        | Wilbur-Ellis Co.      | FS           | M        | Y            | N            | 170.1                                 | 166.2 | 59.6 | 3026.8       |
| DKS51-01             | Monsanto              | GS           | ML       | N            | N            | 149.8                                 | 162.9 | 58.9 | 3054.1       |
| Dairy Master BMR     | Richardson Seeds, Ltd | FS           | ML       | Y            | N            | 136.5                                 | 161.4 | 58.8 | 2860.4       |
| Sweeter'N Honey BMR  | Richardson Seeds, Ltd | SS           | ME       | Y            | N            | 126.8                                 | 160.7 | 58.5 | 3329.4       |
| DKS53-67             | Monsanto              | GS           | ML       | N            | N            | 152.2                                 | 160.2 | 58.6 | 2899.8       |
| Alta AF7102          | Advanta US            | FS           | E        | Y            | N            | 150.0                                 | 157.7 | 58.1 | 3219.8       |
| 88366X               | Richardson Seeds, Ltd | FS           | ML       | Y            | N            | 125.8                                 | 156.2 | 58.1 | 3133.9       |
| DKS-46               | Monsanto              | GS           | ML       | N            | N            | 143.9                                 | 155.9 | 57.2 | 3261.9       |
| Browning Exp. RO     | Browning Seed Inc.    | FS           | M        | N            | Y            | 148.5                                 | 155.1 | 59.4 | 2006.0       |
| Check (84G62)        |                       | GS           | ML       | N            | N            | 131.8                                 | 154.0 | 56.9 | 2968.6       |
| XF30231              | Advanta US            | FS (X)       | E        | Y            | N            | 151.1                                 | 153.4 | 57.5 | 3239.4       |
| X51423               | Scott Seed Co.        | FS           | ML       | Y            | N            | 144.2                                 | 153.2 | 58.5 | 2763.2       |
| DKS-44               | Monsanto              | GS           | ML       | N            | N            | 142.9                                 | 152.9 | 57.5 | 3019.7       |
| CanexBMR 208         | Sharp Bros. Seed Co.  | FS           | M        | Y            | N            | 129.4                                 | 152.5 | 57.9 | 2570.2       |
| SPX3902BD            | Sorghum Partners      | FS           | L        | N            | N            | 135.7                                 | 151.8 | 58.1 | 2722.8       |
| Silo 700D BMR        | Richardson Seeds, Ltd | FS           | L        | Y            | N            | 115.8                                 | 148.5 | 57.3 | 1826.5       |
| Rush                 | Scott Seed Co.        | FS           | M        | N            | N            | 137.5                                 | 147.9 | 57.2 | 2831.8       |