

2014 Texas Panhandle Sorghum Silage Trial
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Introduction

The 2014 Texas A&M AgriLife Research and Extension Forage Sorghum Silage Trial at Bushland consisted of 90 entries of which 45 were non-BMR (brown midrib) and 45 were BMR forage sorghum and sorghum-sudangrass hybrids. Nine non-BMR and six BMR hybrids were photoperiod sensitive. The primary objective of this test was to compare hybrids for harvest as a silage crop.

Materials and Methods

The trial was funded by commercial company entry fees. The evaluated hybrids were entered at the discretion of the seed companies. Entries were planted in a randomized complete block design. Photoperiod sensitive (PS) entries were blocked separately. Irrigation was applied with a center-pivot sprinkler with mid-elevation nozzles on 60-inch spacings and scheduled by the cooperater based on crop water demand.

Cultural Practices:

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

Cooperator: Michael Menke

Previous Crop: Fallow

Soil Type: Pullman clay loam, pH 7.5

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

In-season Irrigation: 8.5 inches

Precipitation: 5.2 in. pre-plant, 9.2 in. in-season

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

Replications: 3

Study Design: Randomized Complete Block

Harvest of the different hybrids did not occur on a single date. Grain producing hybrids were harvested for forage yield when grain reached soft dough. Hybrids that had not reached soft-dough were all harvested on the last sampling date (October 6). This included the photoperiod sensitive hybrids and some late maturing hybrids. Forage yield was estimated by harvesting all plants from 50 ft² area (2 rows by 10 ft.) within each plot. Lodging was recorded at harvest. A portion of the chopped forage was dried at 140°F to determine harvest moisture. The

remaining portion of the chopped forage from each plot were then composited by entry and submitted to Dairy One Lab, Ithaca, NY for forage analyses. Forage constituents are reported on a dry matter (DM) basis.

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.

Nutrient Analysis Included:

Forage Analyses defined:

CP:	Crude Protein
TDN:	Total Digestible Nutrients (by Weiss equation) an index of energy concentration.
NDF:	Neutral Detergent Fiber; cell wall fraction of the forage
ADF:	Acid Detergent Fiber; a fraction of the cell wall includes cellulose and lignin, which is inversely related to energy availability
IVTD:	In Vitro True Digestibility; estimate of forage disappearance in the digestive tract
NDFD:	NDF digestibility; estimated fiber digestibility
RFQ:	Relative Forage Quality - an index for comparing forages, not just alfalfa. RFQ is based on the same scoring system as RFV with an average score of 100; higher scores indicate better feeding value.
Milk/ton:	An index based on several variables that influence intake and nutritive value. These are applied to a standard dairy cow to project milk produced per ton of forage.

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 for the individual hybrids (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). Data for the top 20 yielding hybrids are shown in Table 5. Although the average yield differences between sorghum types are numerically different, evaluation of the individual hybrids reveal an overlap between different hybrids and types. The good growing conditions in 2014 contributed to hybrid performance. If possible, producers should evaluate hybrids based on several years of production data from multiple trial locations to capture differences in the growing season conditions.

Lodging is an important characteristic of forage sorghum. In 2014, late season winds contributed to lodging. 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.

Days to half-bloom (HB) were recorded for all hybrids based on visual observations. In this trial, the average days to HB were 67 with the minimum number of days being 51; several PS hybrids 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, day length (photoperiod), temperature, solar radiation intensity, and seeding rate. 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 hybrids require fewer GDD to reach maturity than later maturing hybrids. 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 cumulative growing degree days to reach maturity decreases. In 2014, the number of days to the expression HB was attributed to planting population (100,000 seeds/acre) and optimal soil moisture.

Forage characteristics contributing to nutritive and feeding values are shown in Tables 1-6. From the broad averages for different forage types shown in Table 1, the photoperiod sensitive types appeared to contain more ADF and NDF, while the BMR types on average contained lower concentrations. The BMR trait reduces lignin concentration in forage and, on average, lignin concentration was lower in BMRs than non-BMRs. BMR-PS also had lower lignin values than the non-BMR PS (Table 1). Lignin reduces fiber digestibility and energy density of forage. Note that fiber digestibility (NDFD48; Table 1) reflected the differences in lignin concentration and was also reflected in the milk/ton indices. Average starch content was lower for the PS hybrids because they do not produce grain.

The discussion above addresses **broad averages** for types of forage sorghums and sorghum/sudangrass hybrids evaluated in the 2014 test. We recommended individual hybrids not be selected or disregarded based on the sorghum type nor based on the relative comparison among types. There is overlap among hybrids in these type categories. Evaluate the data based on the individual hybrid, not the type category.

Table 1. Summary of key characteristics by sorghum type.

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

Sorghum Type*	Avg Yield (tons/ac)	% Lodging	% CP	% ADF	% NDF	% Lignin	% NDFD48	% Starch	Relative Feed Quality (RFQ)	Milk lbs/ton
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
Test Average	21.7	17.2	7.7	36.2	52.2	5.5	56.2	17.7	118.9	2634.0

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

Hybrid 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	69.1 a-d	20.2 e-t	0.15	
Alta AF7102	Advanta US	FS	E	Y	N	61	9/5/14	53.3	65.8 a-d	21.6 c-t	0.12	
Alta AF7202	Advanta US	FS	ME	Y	N	61	9/5/14	50.0	67.2 a-e	19.9 e-t	0.17	
Alta AF7401	Advanta US	FS	L	Y	N	71	9/10/14	0.0	70.6 a-d	19.7 e-t	0.24	
XF30231	Advanta US	FS (X)	E	Y	N	52	8/29/14	0.0	70.8 de	18.4 g-t	0.16	
Alta AF7301	Advanta US	FS	ML	Y	Y	60	9/7/14	13.3	69.6 a-d	19.8 e-t	0.08	
Alta AS6401	Advanta US	SS	ML	Y	N	66	9/14/14	6.7	67.2 a-d	20.0 e-t	0.08	
Alta AS6402	Advanta US	SS	L	Y	N	66	9/26/14	0.0	66.5 a-e	18.4 g-t	0.08	
Alta AS6501	Advanta US	SS	PS	Y	N	70	9/14/14	0.0	68.1 a-d	17.1 j-t	0.17	
Alta AF8301	Advanta US	FS	M	N	N	68	9/11/14	60.0	70.7 b-e	27.7 a-l	0.10	
BH312FBD	B-H Genetics	FS		Y	N	67	9/14/14	0.0	64.3 cde	25.4 j-t	0.18	
XPF1460FBD	B-H Genetics	FS		Y	N	64	9/5/14	50.0	65.7 a-e	19.0 d-t	0.13	
XPF1461FBD	B-H Genetics	FS		Y	N	64	9/5/14	48.3	68.5 a-d	18.9 b-t	0.18	
SeaHawk 6	Blue River Hybrids	SS	M	Y		52	8/29/14	11.7	67.2 a-d	17.1 a-q	0.11	
Blackhawk 12	Blue River Hybrids	SS	M	Y		63	9/8/14	0.0	63.7 a-e	19.6 g-t	0.18	
Warbler	Blue River Hybrids	FS	ML	Y		67	9/22/14	0.0	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	67.0 de	16.5 l-t	0.17	
Browning Tridan	Browning Seed Inc.	SS	M	N	N	58	8/29/14	13.3	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	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	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	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	65.6 abc	12.5 st	0.05	

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

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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	
Browning Exp. Avenger	Browning Seed Inc.	FS	ML	Y	N	113	10/6/14	0.0	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	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	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	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	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	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	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	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	62.5 a-d	13.8 rst	0.20	
841F	DuPont Pioneer	FS	M	N	N	61	9/8/14	33.3	63.1 e	20.8 d-t	0.07	
849F	DuPont Pioneer	FS	ML	N	N	60	9/8/14	0.0	63.5 cde	25.4 a-q	0.09	
Nutricane II	Monsanto	FS	M	N	Y	63	9/14/14	0.0	74.8 a-d	23.8 b-r	0.10	
Nutrichoice II	Monsanto	FS	ML	N	N	63	9/7/14	33.3	76.5 b-e	18.1 h-t	0.25	
DKS53-67	Monsanto	GS	ML	N	N	59	9/8/14	0.0	72.1 abc	22.7 c-t	0.20	
Ambar	Monsanto	GS	ML	N	N	59	9/8/14	60.0	68.1 abc	20.1 e-t	0.18	
Litio	Monsanto	GS	ML	N	N	59	9/8/14	33.3	64.3 a-e	19.0 f-t	0.11	
DKS-46	Monsanto	GS	ML	N	N	59	9/8/14	33.3	65.8 a-d	20.5 e-t	0.15	
DKS-44	Monsanto	GS	ML	N	N	60	9/7/14	33.3	66.9 b-e	14.4 qrst	0.20	
Cobalto	Monsanto	GS	ML	N	N	57	9/10/14	0.0	67.9 a-d	15.2 o-t	0.16	
DKS51-01	Monsanto	GS	ML	N	N	60	9/5/14	0.0	66.2 a-d	19.8 e-t	0.18	
Bundle King BMR	Richardson Seeds, Ltd	FS	L	Y	Y	69	9/13/14	26.7	66.1 abc	23.9 b-r	0.14	
Dairy Master BMR	Richardson Seeds, Ltd	FS	ML	Y	N	59	9/8/14	26.7	67.9 a-d	15.4 n-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	66.9 a-d	32.4 abc	0.07	
Pacesetter BMR Red	Richardson Seeds, Ltd	FS	PS	Y	N	>115	10/6/14	30.0	67.6 a-d	31.8 abcd	0.21	
Silo 700D	Richardson Seeds, Ltd	FS	ML	N	N	66	9/17/14	0.0	67.1 a-e	36.6 a	0.09	
Silo 700D BMR	Richardson Seeds, Ltd	FS	L	Y	N	74	9/17/14	0.0	69.9 a-e	23.6 b-s	0.22	
9500W	Richardson Seeds, Ltd	FS	ML	N	N	61	9/8/14	33.3	70.3 b-e	21.4 c-t	0.10	
Sweeter'N Honey BMR	Richardson Seeds, Ltd	SS	ME	Y	N	56	9/8/14	63.3	70.9 a-d	17.7 i-t	0.24	
Sweeter'N Honey BMR Red	Richardson Seeds, Ltd	SS	ME	Y	N	61	9/8/14	50.0	67.3 a-d	11.6 t	0.21	
115392X	Richardson Seeds, Ltd	FS	L	Y	N	76	9/17/14	33.3	66.4 a-d	27.0 a-m	0.08	
88366X	Richardson Seeds, Ltd	FS	ML	Y	N	63	9/12/14	3.3	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	69.1 a-d	20.5 e-t	0.11	
Geat Scott BMR-W	Scott Seed Co.	FS	L	Y	N	68	9/12/14	33.3	69.9 a-e	21.2 d-t	0.08	
Rush	Scott Seed Co.	FS	M	N	N	59	9/9/14	16.7	66.8 a-e	16.8 k-t	0.23	
X50623	Scott Seed Co.	FS	ML	Y	N	63	9/9/14	76.7	61.9 a-d	17.1 j-t	0.13	
BMR Gold X	Scott Seed Co.	FS	M	Y	Y	63	9/7/14	50.0	60.1 a-d	16.8 k-t	0.21	
BMR Gold	Scott Seed Co.	FS	M	Y	N	64	9/6/14	26.7	62.4 a-d	19.8 e-t	0.18	
Premium Stock LS	Scott Seed Co.	SS	PS	N	N	110	10/6/14	13.3	65.9 abc	27.1 a-m	0.03	
X51423	Scott Seed Co.	FS	ML	Y	N	63	9/12/14	23.3	65.8 a-d	20.2 e-t	0.22	
X5143	Scott Seed Co.	FS	M	Y	Y	59	9/5/14	0.0	65.1 a-e	22.0 c-t	0.14	
Canex	Sharp Bros. Seed Co.	FS	ME	N	Y	60	8/29/14	0.0	64.3 b-e	21.8 c-t	0.20	
Canex III	Sharp Bros. Seed Co.	FS	ME	N	N	61	9/5/14	60.0	64.0 a-d	15.4 n-t	0.08	
CanexBMR 208	Sharp Bros. Seed Co.	FS	M	Y	N	63	9/5/14	28.3	64.7 a-d	17.6 i-t	0.17	
CanexBMR 525	Sharp Bros. Seed Co.	FS	M	Y	N	67	9/17/14	0.0	64.3 a-d	20.8 d-t	0.06	
CanexBMR 550	Sharp Bros. Seed Co.	FS	M	Y	N	67	9/14/14	0.0	66.2 a-d	21.6 b-t	0.21	

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

Hybrid 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	
CanexBMR 600	Sharp Bros. Seed Co.	FS	M	Y	Y	72	9/17/14	0.0	65.7 b-e	26.2 a-o	0.14	
SS405	Sorghum Partners	FS	L	N	N	76	9/17/14	0.0	67.1 a-d	20.0 e-t	0.16	
1990	Sorghum Partners	FS	PS	N	N	>115	9/27/14	18.3	66.7 a-d	32.4 abc	0.08	
NK300	Sorghum Partners	FS	M	N	N	61	9/8/14	66.7	66.9 a-d	23.2 b-s	0.07	
SD1741 BMR	Sorghum Partners	SS	PS	Y	N	56	9/14/14	0.0	70.5 ab	17.1 j-t	0.17	
SPX901	Sorghum Partners	FS	PS	N	N	>115	10/6/14	0.0	71.5 a-d	29.3 a-g	0.08	
SPX902	Sorghum Partners	FS	PS	N	N	>115	10/6/14	6.7	74.2 a-d	32.5 abc	0.12	
SPX1615	Sorghum Partners	FS	PS	N	N	>115	10/6/14	5.0	71.7 a-d	34.1 ab	0.04	
SPX904	Sorghum Partners	FS	PS	N	N	>115	10/6/14	10.0	71.8 a-d	28.0 a-j	0.14	
SPX602BD	Sorghum Partners	SS	M	N	N	58	9/14/14	0.0	70.8 b-e	17.3 i-t	0.09	
SPX3903BD	Sorghum Partners	FS	L	N	N	66	9/17/14	0.0	66.5 a-d	26.3 a-o	0.07	
SPX3902BD	Sorghum Partners	FS	L	N	N	66	9/19/14	16.7	64.2 a-e	24.2 a-r	0.11	
SPX-28313	Sorghum Partners	FS	L	N	N	73	9/23/14	0.0	66.9 a-d	25.3 a-q	0.20	
Sordan BMR 6131	Sorghum Partners	SS	PS	Y	N	>115	10/6/14	16.7	69.6 a-d	27.8 a-k	0.24	
Trudan Headless	Sorghum Partners	SU	PS	N	N	112	10/6/14	0.0	70.7 a-e	29.5 a-g	0.12	
Sordan Headless	Sorghum Partners	SS	PS	N	N	113	10/6/14	0.0	69.6 a-d	28.5 a-i	0.10	
SDH2942BMR	Sorghum Partners	SS	PS	Y	Y	109	10/6/14	0.0	68.9 b-e	30.9 a-e	0.22	
Sweet Bee BMR	Warner Seeds, Inc	FS	ME	Y	N	67	9/17/14	0.0	69.5 a-d	22.1 c-t	0.13	
2-Way BMR Sterile	Warner Seeds, Inc	FS	M	Y	Y	59	9/5/14	0.0	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	70.1 a-e	26.5 a-n	0.14	
Integra 37F60	Wilbur-Ellis Co.	FS	M	Y	N	60	9/5/14	33.3	69.9 b-e	20.4 e-t	0.08	
Integra 35F45	Wilbur-Ellis Co.	FS	ME	Y	N	61	9/5/14	6.7	72.4 cde	13.3 rst	0.14	
Check (84G62)		GS	ML	N	N	64	9/5/14	0.0	67.8 a-e	18.9 g-t	0.13	

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

Hybrid Information*				Nutrient Composition and Calculations								
Hybrid	Company	Sorghum Type	Maturity	Brown Midrib	% CP	% ADF	% NDF	% Lignin	% Starch	% C Fat	% NDFD48	% IVTDMD48
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	0	Y	7.3	33.1	47.8	4.8	20.0	2.4	59.0	80.4
XPF1460FBD	B-H Genetics	FS	0	Y	7.5	34.4	46.7	6.2	24.2	2.5	55.2	79.1
XPF1461FBD	B-H Genetics	FS	0	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 hybrids for nutritional composition.*Hybrid information was provided by seed companies. Male sterile entries were pollinated by other hybrids. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum.

Hybrid 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 hybrids for nutritional composition.*Hybrid information was provided by seed companies. Male sterile entries were pollinated by other hybrids. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum.

Hybrid 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 hybrids for nutritional composition.*Hybrid information was provided by seed companies. Male sterile entries were pollinated by other hybrids. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum.

Hybrid 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 hybrids for nutritional composition.*Hybrid information was provided by seed companies. Male sterile entries were pollinated by other hybrids. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum.

Variety Information*						Nutrient Composition		
Hybrid	Company	Sorghum Type	Maturity	Brown Midrib	Male Sterile	RFQ	TDN	Milk lbs/ton
Alta AF7101	Advanta US	FS	E	Y	N	138.8	55.7	3114.4
Alta AF7102	Advanta US	FS	E	Y	N	157.7	58.1	3279.6
Alta AF7202	Advanta US	FS	ME	Y	N	180.0	60.6	3469.4
Alta AF7401	Advanta US	FS	L	Y	N	128.0	53.8	2944.5
XF30231	Advanta US	FS (X)	E	Y	N	153.4	57.5	3223.1
Alta AF7301	Advanta US	FS	ML	Y	Y	127.2	53.4	2903.6
Alta AS6401	Advanta US	SS	ML	Y	N	111.6	49.9	2657.3
Alta AS6402	Advanta US	SS	L	Y	N	131.5	54.0	2999.3
Alta AS6501	Advanta US	SS	PS	Y	N	83.9	44.2	2312.6
Alta AF8301	Advanta US	FS	M	N	N	118.8	52.1	2897.3
BH312FBD	B-H Genetics	FS		Y		135.1	54.7	3058.5
XPF1460FBD	B-H Genetics	FS		Y		130.4	53.9	3018.5
XPF1461FBD	B-H Genetics	FS		Y		135.9	54.7	3073.7
SeaHawk 6	Blue River Hybrids	SS	M	Y	N	95.4	47.5	2589.3
Blackhawk 12	Blue River Hybrids	SS	M	Y	N	114.7	51.3	2835.7
Warbler	Blue River Hybrids	FS	ML	Y	N	124.1	52.3	2885.0
Browning Cadan 99B	Browning Seed Inc.	SS	ME	N	N	68.8	40.7	2102.2
Browning Tridan	Browning Seed Inc.	SS	M	N	N	78.6	42.9	2308.6
Browning Sweet Sioux WMR	Browning Seed Inc.	SS	M	N	N	78.1	42.1	2252.9
Browning Sweet Sioux BMR	Browning Seed Inc.	SS	M	Y	N	115.4	52.2	2882.3
Browning Silage Master	Browning Seed Inc.	FS	ML	N	N	117.1	52.0	2852.7
Browning Bundle King	Browning Seed Inc.	FS	M	N	Y	108.9	50.3	2763.5
Browning Exp. Avenger	Browning Seed Inc.	FS	ML	Y	N	77.6	41.0	2064.2
Browning Exp. F-15	Browning Seed Inc.	SS	M	N	N	97.3	48.1	2612.9

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

Variety Information*						Nutrient Composition		
Hybrid	Company	Sorghum Type	Maturity	Brown Midrib	Male Sterile	RFQ	TDN	Milk lbs/ton
Browning Exp. B-52	Browning Seed Inc.	SS	PS	N	N	59.9	37.1	1823.7
Browning Exp. 747	Browning Seed Inc.	SS	M	N	N	64.7	36.9	1798.4
Browning Exp. Apache	Browning Seed Inc.	FS	L	N	N	78.5	43.4	2265.9
Browning Exp. RTC	Browning Seed Inc.	FS	ML	N	N	133.3	53.8	3024.0
Browning Exp. RO	Browning Seed Inc.	FS	M	N	Y	155.1	59.4	3414.3
Browning Exp. HG	Browning Seed Inc.	FS	ML	N	N	120.7	52.0	2900.0
Browning Exp. PP	Browning Seed Inc.	SS	M	N	N	82.4	43.2	2253.9
841F	DuPont Pioneer	FS	M	N	N	122.8	52.1	2884.0
849F	DuPont Pioneer	FS	ML	N	N	128.7	53.5	3031.0
Nutricane II	Monsanto	FS	M	N	Y	139.7	56.2	3174.1
Nutrigoice II	Monsanto	FS	ML	N	N	116.4	50.5	2833.8
DKS53-67	Monsanto	GS	ML	N	N	160.2	58.6	3396.8
Ambar	Monsanto	GS	ML	N	N	167.7	60.3	3473.8
Litio	Monsanto	GS	ML	N	N	139.2	55.4	3108.2
DKS-46	Monsanto	GS	ML	N	N	155.9	57.2	3288.7
DKS-44	Monsanto	GS	ML	N	N	152.9	57.5	3305.9
Cobalto	Monsanto	GS	ML	N	N	140.2	54.5	3107.8
DKS51-01	Monsanto	GS	ML	N	N	162.9	58.9	3420.3
Bundle King BMR	Richardson Seeds, Ltd	FS	L	Y	Y	142.2	55.5	3094.6
Dairy Master BMR	Richardson Seeds, Ltd	FS	ML	Y	N	161.4	58.8	3379.7
Pacesetter BMR	Richardson Seeds, Ltd	FS	PS	Y	N	90.3	43.8	2280.0
Pacesetter BMR Red	Richardson Seeds, Ltd	FS	PS	Y	N	71.9	40.0	2089.8
Silo 700D	Richardson Seeds, Ltd	FS	ML	N	N	142.0	56.2	3182.9

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

Variety Information*						Nutrient Composition		
Hybrid	Company	Sorghum Type	Maturity	Brown Midrib	Male Sterile	RFQ	TDN	Milk lbs/ton
Silo 700D BMR	Richardson Seeds, Ltd	FS	L	Y	N	148.5	57.3	3232.6
9500W	Richardson Seeds, Ltd	FS	ML	N	N	123.5	52.6	2925.6
Sweeter'N Honey BMR	Richardson Seeds, Ltd	SS	ME	Y	N	160.7	58.5	3324.4
Sweeter'N Honey BMR Red	Richardson Seeds, Ltd	SS	ME	Y	N	133.7	53.6	2975.8
115392X	Richardson Seeds, Ltd	FS	L	Y	N	140.4	56.3	3158.5
88366X	Richardson Seeds, Ltd	FS	ML	Y	N	156.2	58.1	3299.4
Great Scott BMR-R	Scott Seed Co.	FS	L	Y	N	116.3	50.8	2773.6
Geat Scott BMR-W	Scott Seed Co.	FS	L	Y	N	123.5	51.2	2787.5
Rush	Scott Seed Co.	FS	M	N	N	147.9	57.2	3242.6
X50623	Scott Seed Co.	FS	ML	Y	N	112.8	49.8	2720.6
BMR Gold X	Scott Seed Co.	FS	M	Y	Y	125.6	53.3	2958.9
BMR Gold	Scott Seed Co.	FS	M	Y	N	144.5	56.3	3176.4
Premium Stock LS	Scott Seed Co.	SS	PS	N	N	71.4	39.9	2051.8
X51423	Scott Seed Co.	FS	ML	Y	N	153.2	58.5	3336.1
X5143	Scott Seed Co.	FS	M	Y	Y	133.5	54.8	3068.3
Canex	Sharp Bros. Seed Co.	FS	ME	N	Y	108.0	50.0	2797.7
Canex III	Sharp Bros. Seed Co.	FS	ME	N	N	128.1	53.8	2985.3
CanexBMR 208	Sharp Bros. Seed Co.	FS	M	Y	N	152.5	57.9	3299.2
CanexBMR 525	Sharp Bros. Seed Co.	FS	M	Y	N	141.7	56.1	3148.0
CanexBMR 550	Sharp Bros. Seed Co.	FS	M	Y	N	136.0	56.1	3137.2
CanexBMR 600	Sharp Bros. Seed Co.	FS	M	Y	Y	123.7	53.8	2968.3
SS405	Sorghum Partners	FS	L	N	N	85.1	45.5	2396.3
1990	Sorghum Partners	FS	PS	N	N	75.3	42.8	2212.6
NK300	Sorghum Partners	FS	M	N	N	105.5	49.8	2721.6

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

Variety Information*						Nutrient Composition		
Hybrid	Company	Sorghum Type	Maturity	Brown Midrib	Male Sterile	RFQ	TDN	Milk lbs/ton
SD1741 BMR	Sorghum Partners	SS	PS	Y	N	107.2	51.0	2791.0
SPX901	Sorghum Partners	FS	PS	N	N	62.5	36.7	1796.7
SPX902	Sorghum Partners	FS	PS	N	N	63.8	38.3	1900.8
SPX1615	Sorghum Partners	FS	PS	N	N	61.2	37.4	1836.3
SPX904	Sorghum Partners	FS	PS	N	N	53.9	34.4	1644.7
SPX602BD	Sorghum Partners	SS	M	N	N	118.3	53.0	2944.2
3701	Sorghum Partners	FS	L	N	N	145.8	56.9	3193.0
SPX3902BD	Sorghum Partners	FS	L	N	N	151.8	58.1	3286.4
SPX-28313	Sorghum Partners	FS	L	N	N	77.4	43.1	2247.6
Sordan BMR 6131	Sorghum Partners	SS	PS	Y	N	73.7	40.2	1987.0
Trudan Headless	Sorghum Partners	SU	PS	N	N	61.2	37.4	1839.8
Sordan Headless	Sorghum Partners	SS	PS	N	N	60.4	35.9	1731.2
SDH2942BMR	Sorghum Partners	SS	PS	Y	Y	73.6	40.6	2086.2
Sweet Bee BMR	Warner Seeds, Inc	FS	ME	Y	N	123.0	52.5	2881.6
2-Way BMR Sterile	Warner Seeds, Inc	FS	M	Y	Y	132.6	54.7	3077.3
Integra 32F80	Wilbur-Ellis Co.	FS	L	Y	N	103.3	49.1	2665.6
Integra 37F60	Wilbur-Ellis Co.	FS	M	Y	N	166.2	59.6	3438.5
Integra 35F45	Wilbur-Ellis Co.	FS	ME	Y	N	166.3	58.5	3386.4
Check (84G62)		GS	ML	N	N	154.0	56.9	3277.1

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

Hybrid 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 hybrids. *Hybrid information was provided by seed companies. Male sterile entries were pollinated by other hybrids. FS=Forage Sorghum, SS=Sorghum Sudan, GS=Grain Sorghum

Variety Information*						Nutrient Composition		
Hybrid	Company	Sorghum Type	Maturity	Brown Midrib	Male Sterile	RFQ	TDN	Milk lbs/ton
SD1741 BMR	Sorghum Partners	SS	PS	Y	N	107.2	51.0	2791.0
SPX901	Sorghum Partners	FS	PS	N	N	62.5	36.7	1796.7
SPX902	Sorghum Partners	FS	PS	N	N	63.8	38.3	1900.8
SPX1615	Sorghum Partners	FS	PS	N	N	61.2	37.4	1836.3
SPX904	Sorghum Partners	FS	PS	N	N	53.9	34.4	1644.7
SPX602BD	Sorghum Partners	SS	M	N	N	118.3	53.0	2944.2
3701	Sorghum Partners	FS	L	N	N	145.8	56.9	3193.0
SPX3902BD	Sorghum Partners	FS	L	N	N	151.8	58.1	3286.4
SPX-28313	Sorghum Partners	FS	L	N	N	77.4	43.1	2247.6
Sordan BMR 6131	Sorghum Partners	SS	PS	Y	N	73.7	40.2	1987.0
Trudan Headless	Sorghum Partners	SU	PS	N	N	61.2	37.4	1839.8
Sordan Headless	Sorghum Partners	SS	PS	N	N	60.4	35.9	1731.2
SDH2942BMR	Sorghum Partners	SS	PS	Y	Y	73.6	40.6	2086.2
Sweet Bee BMR	Warner Seeds, Inc	FS	ME	Y	N	123.0	52.5	2881.6
2-Way BMR Sterile	Warner Seeds, Inc	FS	M	Y	Y	132.6	54.7	3077.3
Integra 32F80	Wilbur-Ellis Co.	FS	L	Y	N	103.3	49.1	2665.6
Integra 37F60	Wilbur-Ellis Co.	FS	M	Y	N	166.2	59.6	3438.5
Integra 35F45	Wilbur-Ellis Co.	FS	ME	Y	N	166.3	58.5	3386.4
Check (84G62)		GS	ML	N	N	154.0	56.9	3277.1