2004

Corn Silage and Sorghum-Sudan

Farmer-Strip Trials

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New Mexico 2004 Corn Silage Variety Trial Results - Dona Ana County, Jerry Tallmon

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URL for Further Information: www.cahe.nmsu.edu

Trial Description

Year of Harvest (yyyy)	2004	Country	United States	State/Province	NM	Study Design (number of replications):			
Special Test (Describe)	Corn silage trial.			County/Area	Dona Ana	Replicated Within Site	4		
Soil Name & Texture	clay loam	Soil Depth (inches)		Longitude		Replicated Across Sites			
				Latitude					
Planting (mm/dd/yy)	5/26/2004	Harvest Date(s) (mm/dd/yy)	9/23/2004						
Herbicides/Insecticides						type	lb/a	type	lb/a
Fertilizer Applied (lb/a):	Nitrogen	92	(P2O5)	0	(K20)	0	Other (specify)				
	Plus 20 tons of dairy manure										

	January	February	March	April	May	June	July	August	September	October	November	December
Temperature (deg F)					71.6	78.0	75.7	75.4	69.6			
Rain (inches)					0.1	0.4	1.3	2.9	0.9			
Irrigation (inches)												

Plant Population (number or pounds per acre)	32500	Row Spacing (inches - enter '0' for broadcast)	40.0	Total Rain	5.6
Unusual Conditions (or 'none')	None.			Total Irrigation	

Results

Brand/Company Name	Hybrid/Variety Name	Yield	Moisture at Harvest	Crude Protein	ADF	NDF	IVTD-48hr	NDFD-48hr	Starch	Ash	milk/ton	milk/acre	Yield significance 0.05	milk/acre significance 0.05
		t/a DM	%	%, DM	%, DM	%, DM	%, DM	%, DM	%, DM	%, DM	lb/t	lb/a		
	Trial Mean	5.28	73.0	6.7	25.89	45.0		67.6	35.7	5.0	3,934	20,778		
	LSD	0.98	20.29	0.3796	7.3364	19.6333		5.7558	20.0018	0.0425	0.012	15.7306		
	LSD P >	0.8855 ns	0.6609 ns	0.8069 ns	0.8528 ns	0.8274 ns		0.3918 ns	0.8295 ns	0.2168 ns	0.5263 ns	0.8298 ns		
	CV	18.5519	6.1629	9.19	10.5092	9.87		3.5691	12.4485	4.1958	2.7867	18.9366		
	F Test	0.3176	0.6709	0.4404	0.3697	0.408		1.2484	0.4057	1.9686	0.9204	0.4053		
Grand Valley Hybrids	GVX 0165 RR	5.4	74.3	7.0	24.90	43.5		66.8	37.0	4.9	3,946	21,331	a	a
Grand Valley Hybrids	GVX 0175 RR	4.7	75.5	6.7	26.75	45.5		68.0	36.0	5.1	3,941	18,480	a	a
Grand Valley Hybrids	SX 2696 RR	5.8	69.9	6.6	26.35	46.2		70.8	32.6	5.3	3,959	22,883	a	a
Grand Valley Hybrids	GVX 5975 RR	5.2	74.1	7.0	27.45	47.5		67.9	33.5	5.2	3,890	20,403	a	a
Triumph Seeds	2011 RR	5.0	71.1	6.9	24.35	42.3		66.6	38.2	4.7	3,988	19,813	a	a
Grand Valley Hybrids	GVX 5965 RR	5.6	73.1	6.3	25.53	45.0		65.4	36.9	4.7	3,880	21,756	a	a
Grand Valley Hybrids	GVX0175RR	4.08	77.0	6.90	26.60	44.50		71.4	36.8	4.9	4,111.84	16,786.59		
Grand Valley Hybrids	SX2696RR	4.62	75.1	5.90	30.00	50.90		70.2	26.9	5.3	3,893.46	17,974.00		
Grand Valley Hybrids	GVX5975RR	5.86	71.2	6.90	28.20	49.60		71.0	32.1	4.9	3,990.16	23,385.53		
Triumph Seeds	2011RR	4.45	74.1	6.70	22.70	38.60		65.6	41.9	4.6	4,048.94	18,016.24		
Grand Valley Hybrids	GVX5965RR	5.62	72.0	6.20	29.30	51.10		66.6	32.0	5.0	3,759.32	21,125.87		
Grand Valley Hybrids	GVX0165RR	4.50	77.2	7.00	24.00	42.00		67.0	38.5	5.3	3,962.45	17,842.91		
Grand Valley Hybrids	GVX5965RR	4.14	79.0	7.60	25.90	45.40		64.2	35.5	4.9	3,794.64	15,714.36		
Grand Valley Hybrids	GVX0165RR	5.47	74.6	7.00	27.50	47.50		66.7	33.1	4.9	3,847.91	21,052.53		
Grand Valley Hybrids	GVX0175RR	5.35	74.0	6.50	26.90	46.50		64.6	35.1	5.2	3,770.14	20,173.27		
Grand Valley Hybrids	SX2696RR	6.91	64.6	7.30	22.70	41.40		71.3	38.2	5.3	4,024.03	27,792.12		
Grand Valley Hybrids	GVX5975RR	4.60	77.0	7.00	26.70	45.40		64.8	34.8	5.4	3,789.11	17,421.19		
Triumph Seeds	2011RR	5.50	68.0	7.10	26.00	45.90		67.5	34.5	4.8	3,926.08	21,609.14		
Grand Valley Hybrids	GVX5965RR	5.36	74.9	5.40	23.30	40.50		64.2	40.7	4.4	3,969.06	21,259.63		
Grand Valley Hybrids	GVX0165RR	6.23	71.0	7.10	23.20	41.10		66.6	39.4	4.5	4,028.78	25,096.08		
Grand Valley Hybrids	GVX5965RR	7.23	66.6	6.00	23.60	43.00		66.6	39.4	4.3	3,998.28	28,925.32		

New Mexico 2004 Corn Silage Variety Trial Results - Chaves County, Jerry Wagner

Authors: D. A. McWilliams and J. Duffey

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URL for Further Information: www.cahe.nmsu.edu

Trial Description

Year of Harvest (yyyy)	2004	Country	United States			State/Province	NM	Study Design (number of replications):			
Special Test (Describe)	Corn silage trial.					County/Area	Chaves	Replicated Within Site	4		
Soil Name & Texture	clay loam	Soil Depth (inches)				Longitude		Replicated Across Sites			
						Latitude					
Planting (mm/dd/yy)	5/5/2004	Harvest Date(s) (mm/dd/yy)	9/15/2004								
Herbicides/Insecticides											

Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K20)	Other (specify)	type	lb/a	type	lb/a

	January	February	March	April	May	June	July	August	September	October	November	December
Temperature (deg F)					73.0	78.1	80.2	76.6	72.2			
Rain (inches)					0.5	0.9	0.1	0.9	0.0			
Irrigation (inches)												

Plant Population (number or pounds per acre)	32500	Spacing (inches - enter '0' for broadcast)	40.0	Total Rain	2.4
Unusual Conditions (or 'none')	None.			Total Irrigation	

Results

Brand/Company Name	Hybrid/Variety Name	Yield	Moisture at Harvest	Crude Prot	ADF	NDF	IVTD-48hr	NDFD-48hr	Starch	Ash	milk/ton	milk/acre	Yield significance 0.05	milk/acre significance 0.05
		t/a DM	%	%, DM	%, DM	%, DM	%, DM	%, DM	%, DM	%, DM	lb/t	lb/a		
	Trial Mean	7.77	69.36	6.9	31.99	57.5		67.6	25.9	6.0	3,538.18	3,538.18		
	LSD	0.43								0.0425	0.012	15.7306		
	LSD P >	0.2168 ns								0.2168 ns	0.5263 ns	0.8298 ns		
	CV	4.1958								4.1958	2.7867	18.9366		
	F Test	1.9686								1.9686	0.9204	0.4053		
NC+	5021RB	5.59	77.71	9.0	34.01	60.8		68.5	21.9	6.3	3,518.92	3,518.92	b	a
Grand Valley Hybrids	GVX0175RR	10.50	64.04	4.6	29.71	53.8		65.7	33.3	4.9	3,547.03	3,547.03	a	a
Grand Valley Hybrids	GVX0125RR	7.31	68.10	6.6	32.58	57.9		65.6	25.0	7.0	3,400.82	3,400.82	ab	a
Grand Valley Hybrids	SX2596RR	8.11	64.22	7.3	28.52	52.8		67.4	29.7	6.2	3,560.72	3,560.72	ab	a
Farmer	Golden Acres	7.32	72.75	7.2	35.13	62.1		70.7	19.6	5.6	3,663.39	3,663.39	ab	a

New Mexico 2004 Corn Silage Variety Trial Results - Chaves County, Doug Whitney

Authors: D. A. McWilliams, J. Duffey and D. Peterson

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Trial Description

ear of Harvest (yyyy)	2004	Country	United States			State/Province	NM	Study Design (number of replications):				
ecial Test (Describe)	Corn silage trial.					County/Area	Chaves	licated Within Site	4			
Soil Name & Texture	clay loam	Soil Depth (inches)				Longitude		Replicated Across Sites				
						Latitude						
Planting (mm/dd/yy)	6/4/2004	Harvest Date(s) (mm/dd/yy)			10/19/2004							
erbicides/Insecticides												
									type	lb/a	type	lb/a
rtilizer Applied (lb/a):		Nitrogen		(P2O5)		(K20)		Other (specify)				

	January	February	March	April	May	June	July	August	eptembe	October	November	December
Temperature (deg F)					73.0	78.1	80.2	76.6	72.7	61.1		
Rain (inches)					0.5	0.9	0.1	0.9	3.3	2.6		
Irrigation (inches)												

nt Population (number or pounds per acre)	36000	Row Spacing (inches - enter '0' for broadcast)	40.0	Total Rai	8.3
Unusual Conditions (or 'none')	None.			Total Irrigation	

Results

Brand/Company Name	Hybrid/Variety Name	Yield	Moisture at Harvest	Crude Protein	ADF	NDF	IVTD-48hr	NDFD-48hr	Starch	Ash	milk/ton	milk/acre
		t/a DM	%	%, DM	%, DM	%, DM	%, DM	%, DM	%, DM	%, DM	lb/t	lb/a
	Trial Mean	18.92			40.36				34.36		2970.06	24078.67
	LSD											
	LSD P >											
	CV											
	F Test											
Pioneer	32D99	18.4			40.70				29.40		2900.00	22810.00
Stauffer	2814	18.8			41.20				34.90		3063.00	24780.00
Pioneer	31Y43	18.4			39.10				30.90		2946.00	23260.00
Pioneer	32R25	16.2			40.70				33.30		3117.00	21570.00
Pioneer	31G98	18.9			38.90				32.10		2926.00	23653.00
Pioneer	33R76	18.7			39.60				34.80		3015.00	24155.00
Grand Valley Hybrids	Grand V SX2596RR	18.2			39.20				30.30		2809.00	21906.00
Pioneer	32T22	21.6			41.50				33.20		3073.00	28531.00
Pioneer	31G97	19.3			40.00				33.50		3073.00	25441.00
Pioneer	33B54	16.7			41.00				39.00		2996.00	21485.00
Dyna-Gro	57F87	17.4			39.40				37.20		2950.00	22022.00
Grand Valley Hybrids	X0125	16.8			38.10				35.10		2834.00	20394.00
Pioneer	33R78	18.9			41.90				34.60		3142.00	25398.00
Pioneer	31B13	20.7			38.30				31.90		2613.00	23221.00
Pioneer	31N28	21.7			40.80				35.80		3042.00	28253.00
Pioneer	32P76	20.2			39.80				35.30		2959.00	25624.00
Pioneer	32P76	17.8			43.70				37.00		3109.00	23640.00
Pioneer	32P76	22.0			42.50				40.10		2894.00	27273.00

New Mexico 2004 Corn Silage Variety Trial Results - Chaves County, Schrimsher

Authors: D. A. McWilliams and J. Duffey

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States			State/Province	NM	Study Design (number of replications):			
Special Test (Describe)	Corn silage trial.					County/Area	Chaves	Replicated Within Site	4		
Soil Name & Texture	clay loam	Soil Depth (inches)				Longitude		Replicated Across Sites			
						Latitude					
Planting (mm/dd/yy)	5/5/2004	Harvest Date(s) (mm/dd/yy)	9/12/2004								
Herbicides/Insecticides											

Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K20)	Other (specify)	type	lb/a	type	lb/a

	January	February	March	April	May	June	July	August	September	October	November	December
Temperature (deg F)					73.0	78.1	80.2	76.6	72.2			
Rain (inches)					0.5	0.9	0.1	0.9	0.0			
Irrigation (inches)												

Population (number or pounds per acre)	32500	Row Spacing (inches - enter '0' for broadcast)	40.0	Total Rain	2.4
Unusual Conditions (or 'none')	None.			Total Irrigation	

Results

Brand/Company Name	Hybrid/Variety Name	Yield	Moisture at Harvest	Crude Protei	ADF	NDF	IVTD-48hr	NDFD-48hr	Starch	Ash	milk/ton	milk/acre
		t/a DM	%	%, DM	%, DM	%, DM	%, DM	%, DM	%, DM	%, DM	lb/t	lb/a
	Trial Mean	7.38	68.23	7.0	33.73	60.86		66.9	22.9	7.0	3,365.87	24,724.94
	LSD											
	LSD P >											
	CV											
	F Test											
Grand Valley Hybrids	GVX0125RR	5.41	73.98	8.9	34.67	60.99		68.4	20.9	6.7	3,487.53	18,856.91
Grand Valley Hybrids	GVX1075RR	8.48	66.88	6.9	33.89	60.87		68.0	21.7	7.1	3,443.94	29,211.63
Grand Valley Hybrids	GVX2596RR	8.25	63.82	5.2	32.62	60.71		64.3	26.2	7.1	3,166.15	26,106.27

New Mexico 2004 Corn Silage Variety Trial Results - Lea County, Buddy Goff

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States			State/Province	NM	Study Design (number of replications):				
Special Test (Describe)	Corn silage trial.					County/Area	Lea	Replicated Within Site	4			
Soil Name & Texture	clay loam	Soil Depth (inches)				Longitude		Replicated Across Sites				
						Latitude						
Planting (mm/dd/yy)	5/14/2004	Harvest Date(s) (mm/dd/yy)	9/21/2004									
Herbicides/Insecticides												
									type	lb/a	type	lb/a
Fertilizer Applied (lb/a):	Nitrogen		(P2O5)		(K20)		Other (specify)					

	January	February	March	April	May	June	July	August	September	October	November	December
Temperature (deg F)												
Rain (inches)												
Irrigation (inches)												

Population (number or pounds per acre)	32500	Row Spacing (inches - enter '0' for broadcast)	40.0	Total Rain	
Unusual Conditions (or 'none')	None.			Total Irrigation	

Results

Brand/Company Name	Hybrid/Variety Name	Yield t/a DM	Moisture at Harvest %	Crude Protein %, DM	ADF %, DM	NDF %, DM	IVTD-48hr %, DM	NDFD-48hr %, DM	Starch %, DM	Ash %, DM	milk/ton lb/t	milk/acre lb/a	Yield significance 0.05	milk/acre significance 0.05
	Trial Mean	7.09	60.9	7.3	27.26	47.0		66.7	33.3	4.9	3,615	25,871		
	LSD	1.64	8.85	0.1375	4.9456	10.8683		11.8504	19.1102	0.2954	0.0412	16.286		
	LSD P >	0.4658 ns	0.3319 ns	0.8992 ns	0.5818 ns	0.5409 ns		0.8470 ns	0.3510 ns	0.8899 ns	0.2917 ns	0.7846 ns		
	CV	17.2466	4.8793	5.10	8.1622	7.016		5.1789	13.0608	10.8568	5.6699	15.3118		
	F Test	1.0548	1.4021	0.3331	0.8302	0.904		0.4167	1.3436	0.3486	1.5384	0.5106		
Pioneer	31B13	9.0	57.4	7.2	26.49	45.7		64.8	36.5	5.1	3,345	30,073	a	a
Triumph	2011	6.5	63.6	7.1	29.58	50.6		66.7	28.1	5.2	3,617	23,468	b	a
Grand Valley Hybrids	SX 2596 RR	7.3	62.3	7.1	27.42	46.4		66.0	35.4	5.1	3,618	26,411	ab	a
Grand Valley Hybrids	GVX 0175 RR	6.2	57.7	7.5	26.65	47.8		67.9	30.0	5.1	3,660	25,188	ab	a
Grand Valley Hybrids	GVX5975	7.5	60.1	7.5	26.48	45.6		67.0	34.7	4.9	3,593	27,094	ab	a
Grand Valley Hybrids	GVX5965 RR	6.5	63.4	7.4	28.44	48.2		66.4	34.0	4.6	3,689	24,162	ab	a
Grand Valley Hybrids	GVX0165 RR	6.5	61.9	7.2	25.76	44.9		68.4	34.3	4.5	3,782	24,703	ab	a
Triumph	2011RR	6.9	60.8	7.0	27.35	46.8		66.0	31.6	4.6	3,602.24	24,791.23		
Pioneer	31B13RR	8.9	54.7	7.1	25.76	44.6		64.4	38.2	4.7	3,251.02	28,897.05		
Pioneer	31B13RR	7.2	59.5	7.2	25.28	45.6		67.5	37.7	4.6	3,581.38	25,753.77		
Grand Valley Hybrids	GVX0175RR	7.6	57.7	8.1	28.26	50.0		71.3	24.7	4.9	3,674.04	27,792.45		
Grand Valley Hybrids	SX2596RR	8.7	63.8	7.4	27.66	47.1		65.3	35.8	5.2	3,640.29	31,749.67		
Grand Valley Hybrids	SX2596RR	7.5	59.3	7.1	26.85	44.6		65.6	35.9	5.2	3,496.35	26,100.85		
Grand Valley Hybrids	GVX5975RR	6.9	60.1	7.3	27.47	45.2		63.5	35.4	5.1	3,441.86	23,705.40		
Triumph	2011RR	6.2	66.0	7.3	33.05	56.8		65.2	21.3	6.1	3,444.33	21,213.59		
Pioneer	31B13RR	10.4	57.0	7.3	28.06	46.8		59.9	35.5	6.0	3,040.63	31,756.09		
Grand Valley Hybrids	GVX0165RR	6.3	63.5	7.2	23.96	42.9		68.6	36.2	4.4	3,907.82	24,547.13		
Grand Valley Hybrids	SX2596RR	5.8	63.7	6.9	27.76	47.6		67.1	34.7	5.0	3,718.18	21,382.62		
Grand Valley Hybrids	GVX5975RR	8.1	60.1	7.7	25.48	45.9		70.4	34.1	4.7	3,743.16	30,482.38		
Grand Valley Hybrids	GVX0175RR	6.2	64.1	6.9	25.04	45.7		64.5	35.3	5.3	3,646.86	22,583.55		
Pioneer	31B13RR	9.7	58.6	7.2	26.86	45.8		67.2	34.7	5.2	3,507.90	33,883.30		
Triumph	2011RR	6.4	63.9	7.2	28.35	48.2		68.8	31.4	4.8	3,805.79	24,400.08		
Grand Valley Hybrids	GVX0165RR	6.8	60.2	7.3	27.55	47.0		68.3	32.5	4.7	3,656.21	24,858.45		
Grand Valley Hybrids	GVX5965RR	6.5	63.4	7.4	28.44	48.2		66.4	34.0	4.6	3,689.07	24,161.98		

New Mexico 2004 Corn Silage Variety Trial Results - Roosevelt County, Collin Chandler

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Trial Description

'ear of Harvest (yyyy)	2004	Country	United States			State/Province	NM		Study Design (number of replications):		
ɔecial Test (Describe)	Corn silage trial.					County/Area	Roosevelt		Replicated Within Site	4	
Soil Name & Texture	clay loam		Soil Depth (inches)			Longitude			Replicated Across Sites		
						Latitude					
Planting (mm/dd/yy)	5/20/2004		Harvest Date(s) (mm/dd/yy)		9/21/2004						
erbicides/Insecticides											

									type	lb/a	type	lb/a
ɜrtilizer Applied (lb/a):	Nitrogen		(P2O5)		(K20)		Other (specify)					

	January	February	March	April	May	June	July	August	September	October	November	December
Temperature (deg F)					74.3	75.2	76.5	71.9	70.4			
Rain (inches)					0.0	1.7	1.4	1.6	0.7			
Irrigation (inches)												

Population (number or pounds per acre)	32500	Row Spacing (inches - enter '0' for broadcast)	40.0
Unusual Conditions (or 'none')	None.		

Total Rain 5.4

Total Irrigation

Results

Brand/Company Name	Hybrid/Variety Name	Yield	Moisture at Harvest	Crude Protein	ADF	NDF	IVTD-48hr	NDFD-48hr	Starch	Ash	milk/ton	milk/acre	Yield significance 0.05	milk/acre significance
		t/a DM	%	%, DM	%, DM	%, DM	%, DM	%, DM	%, DM	%, DM	lb/t	lb/a		
	Trial Mean	7.6781	73.2	6.4	30.07	52.0		67.2	26.1	4.9	3,760	29,104		
	LSD	0.3073	2.66	0.3311	5.8692	18.0792		15.0078	18.8392	0.2628	0.0664	13.2379		
	LSD P >	0.0912 ns	0.1367 ns	0.3625 ns	0.3252 ns	0.1863 ns		0.8841 ns	0.6520 ns	0.9355	0.6095 ns	0.5128 ns		
	CV	7.2232	2.2289	9.07	7.9738	8.0917		5.7892	16.8348	10.4489	6.9031	12.6816		
	F Test	3.8307	2.3657	1.3233	1.4302	2.0116		0.4075	0.7538	0.3161	0.8207	0.9884		
Triumph	1866Bt	7.7	73.1	6.5	28.60	50.3		66.1	29.0	5.0	3,749	28,845	abc	a
Dyna-Gro	58K22	7.5	74.0	6.5	29.45	50.8		67.4	27.2	5.0	3,802	28,658	abc	a
Seed Tec	7634RR	7.6	75.3	6.2	31.45	53.7		66.2	24.4	4.9	3,676	27,908	abc	a
Dyna-Gro	58K56RR	6.9	74.1	5.7	32.75	55.7		65.6	22.0	5.1	3,586	26,613	c	a
Aventa	8270RR	8.7	72.7	7.2	29.40	49.6		66.4	27.7	5.0	3,752	33,007	a	a
Seed Tec	7624RR	7.3	73.4	6.7	29.75	50.2		68.3	26.3	4.7	3,867	28,243	bc	a
Aventa	8200YG	7.3	73.7	5.9	32.20	55.6		66.2	23.8	4.8	3,637	26,597	bc	a
Stauffer	2820	7.7	73.3	6.8	24.80	42.2		72.1	31.6	4.3	4,214	32,558	abc	a
Pioneer	31Y43	8.3	68.9	6.0	32.25	59.9		66.8	23.1	5.1	3,553	29,505	ab	a
Triumph	1866Bt	7.11	71.80	7.0	28.2	50.2		64.4	31.0	5.3	3,656.01	26,012.00		
Dyna-Gro	58K22	7.61	73.70	6.7	27.0	46.3		64.0	33.2	5.2	3,745.36	28,516.61		
Triumph	1866Bt	8.24	74.40	5.9	29.0	50.4		67.7	26.9	4.6	3,842.81	31,677.05		
Dyna-Gro	58K22	7.46	74.20	6.2	31.9	55.2		70.7	21.2	4.8	3,858.47	28,799.39		
Seed Tec	7634RR	7.18	75.40	6.0	31.6	54.6		67.5	23.8	4.9	3,719.65	26,700.69		
Seed Tec	7634RR	8.02	75.20	6.4	31.3	52.8		64.8	25.0	4.9	3,632.50	29,115.80		
Dyna-Gro	58K56RR	7.05	74.30	5.0	33.5	56.3		63.7	21.7	5.4	3,462.39	24,425.95		
Aventa	8270RR	8.12	73.90	6.7	32.2	54.1		60.6	25.5	5.3	3,376.20	27,422.58		
Dyna-Gro	58K56RR	6.80	73.80	6.4	32.0	55.0		67.4	22.3	4.8	3,708.72	25,234.65		
Seed Tec	7624RR	6.42	73.80	6.6	30.9	52.7		67.9	23.9	4.7	3,791.75	24,329.31		
Aventa	8270RR	9.35	71.50	7.6	26.6	45.0		72.1	29.9	4.7	4,128.23	38,590.69		
Seed Tec	7624RR	8.16	73.00	6.8	28.6	47.6		68.7	28.6	4.7	3,942.33	32,156.40		
Aventa	8200YG	7.42	75.00	5.9	32.3	53.6		69.2	21.6	4.1	3,875.69	28,738.24		
Stauffer	2820	7.73	73.30	6.8	24.8	42.2		72.1	31.6	4.3	4,213.54	32,557.94		
Aventa	8200YG	7.20	72.40	5.9	32.1	57.6		63.2	25.9	5.5	3,397.54	24,455.76		
Pioneer	31Y43	8.29	66.80	5.5	30.1	56.5		67.0	26.6	4.8	3,666.64	30,408.77		
Pioneer	31Y43	8.31	70.90	6.4	34.4	63.2		66.6	19.6	5.4	3,440.17	28,601.13		

New Mexico 2004 Sorghum-Sudan Variety Trial Results - Grant County, Topper Thorpe

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States			State/Province	NM	Study Design (number of replications):			
Special Test (Describe)	Grazing trial with sorghum-sudans.					County/Area	Grant	Replicated Within Site	4		
Soil Name & Texture	clay loam	Soil Depth (inches)				Longitude		Replicated Across Sites			
						Latitude					
Planting (mm/dd/yy)	6/18/2004	Harvest Date(s) (mm/dd/yy)	6/18/2004	7/23/2004							
Herbicides/Insecticides											
								type	lb/a	type	lb/a
Fertilizer Applied (lb/a):	Nitrogen		(P2O5)		(K20)		Other (specify)				

	January	February	March	April	May	June	July	August	Septembe	October	November	December
Temperature (deg F)						71.1	73.1					
Rain (inches)						0.0	0.6					
Irrigation (inches)												

				Total Rain	0.6
Plant Population (number or pounds per acre)	15#/A	ow Spacing (inches - enter '0' for broadcast)	7 inches	Total Irrigation	
Unusual Conditions (or 'none')	Limited irrigation, grazing preference to SS100 due to extra tillering under heavy catt				
	(60 to 80 head of Mexican steers) during the last half of the season.				

Results

Brand/Company Name	Hybrid/Variety Name	CP, % of DM	ADF, % of DM (optional)	NDF, % of DM	dNDF Dig. 48h, % of NDF	Ash, % of DM	Ether Extract, % of DM	NFC, % of DM	TDN, % of DM	NEl Mcals/lb	NRC 48 h Digestibility	Old DMI lbs/d	Base Forage DMI, lbs/d	Adjusted Total DMI lbs/d	Adjusted Forage DMI, lbs/d	Forage, % of Total DMI	Milk/d from forage (lbs)
	Trial Mean	19.3	33.8	51.1	73.2	11.1	2.5	19.8	61.7	0.633	54.919	51.750	22.766	59.464	30.5	0.513	45.930
Sorghum Partners, Inc.	Sordan Headless	16.9	35.6	52.8	78.7	11.4	2.6	20.1	63.0	0.648	59.033	51.750	21.997	61.515	31.762	0.516	49.918
Barkley Seed, Inc.	Grassroots BMR 5150	21.1	32.8	49.5	72.4	10.8	2.4	19.9	62.1	0.637	54.263	51.750	23.436	59.137	30.822	0.521	46.779
Dyna-Gro	SS100	20.7	32.5	50.5	72.1	11.5	2.4	18.7	61.0	0.625	54.060	51.750	22.999	59.036	30.285	0.513	44.744
Dyna-Gro	SS100	20.2	32.7	49.7	72.4	11.6	2.5	19.8	61.5	0.630	54.323	51.750	23.351	59.166	30.767	0.520	45.970
Barkley Seed, Inc.	Grassroots BMR 5150	20.7	32.2	48.6	74.4	10.9	2.5	21.1	63.4	0.651	55.770	51.750	23.879	59.888	32.017	0.535	50.258
Sorghum Partners, Inc.	Sordan Headless	21.2	33.2	50.7	71.0	11.2	2.5	18.2	60.9	0.623	53.213	51.750	22.917	58.613	29.780	0.508	43.730
Dyna-Gro	SS100	20.0	33.4	50.7	71.3	11.3	2.4	19.5	60.8	0.622	53.460	51.750	22.908	58.736	29.895	0.509	43.823
Sorghum Partners, Inc.	Sordan Headless	19.2	33.4	49.8	72.7	10.9	2.4	21.5	62.1	0.637	54.495	51.750	23.309	59.252	30.811	0.520	46.783
Barkley Seed, Inc.	Grassroots BMR 5150	13.9	38.1	57.8	74.2	10.3	2.7	19.1	60.6	0.620	55.658	51.750	20.100	59.832	28.183	0.471	41.362

New Mexico 2004 Sorghum-Sudan Variety Trial Results - Dona Ana County, Charley Tharp

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States		State/Province	NM		Study Design (number of replications):			
Special Test (Describe)	Grazing and production trial with sorghum-sudans, non-brown				County/Area	Dona Ana		Replicated Within Site	3		
Soil Name & Texture	clay loam	Soil Depth (inches)			Longitude			Replicated Across Sites			
					Latitude						
Planting (mm/dd/yy)	6/1/2004	Harvest Date(s) (mm/dd/yy)		8/20/2004							
Herbicides/Insecticides											

Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K20)	Other (specify)	type	lb/a	type	lb/a

	January	February	March	April	May	June	July	August	September	October	November	December
Temperature (deg F)						75.9	82.5	77.8				
Rain (inches)						0.6	0.0	3.2				
Irrigation (inches)												

Population (number or pounds per acre)	25#/A	Row Spacing (inches - enter '0' for broadcast)	7 inches	Total Rain	3.7
Unusual Conditions (or 'none')	Only one cutting after heading and stalk drying, non-BMR.			Total Irrigation	

Results

Brand/Company Name	Hybrid/Variety Name	CP, % of DM	ADF, % of DM (optional)	NDF, % of DM	dNDF Dig. 48h, % of NDF	Ash, % of DM	Ether Extract, % of DM	NFC, % of DM	TDN, % of DM	NEl Mcals/lb	NRC 48 h Digestibility	Old DMI lbs/d	Base Forage DMI, lbs/d	Adjusted Total DMI lbs/d	Adjusted Forage DMI, lbs/d	Forage, % of Total DMI	from forage (lbs)	Milk per Ton lbs/ton
	Trial Mean	8.0	44.6	70.6	65.0	8.3	1.0	15.9	50.5	0.508	48.743	51.750	16.456	56.384	0.4	0.374	22.649	2146
Local brand	Hegari	8.1	45.1	69.8	64.4	7.7	0.85	17.5	51.0	0.513	48.300	51.750	16.640	56.163	21.054	0.375	22.917	2177
Local brand	Hegari	7.6	43.5	69.9	66.6	8.9	1.1	16.4	51.2	0.515	49.913	51.750	16.612	56.967	21.829	0.383	24.083	2207
Local brand	Hegari	8.3	45.0	72.0	64.0	8.3	1.1	14.0	49.3	0.495	48.015	51.750	16.116	56.021	20.387	0.364	20.948	2055

New Mexico 2004 Sorghum-Sudan Variety Trial Results - Union County, Daren Brown

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States			State/Province	NM	Study Design (number of replications):			
Special Test (Describe)	Grazing/production trial with sorghum-sudans.					County/Area	Union	Replicated Within Site	3		
Soil Name & Texture	clay loam	Soil Depth (inches)				Longitude		Replicated Across Sites			
						Latitude					
Planting (mm/dd/yy)	6/3/2004	Harvest Date(s) (mm/dd/yy)	6/27/2004	7/16/2004							
Herbicides/Insecticides											

Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K20)	Other (specify)	type	lb/a	type	lb/a

	January	February	March	April	May	June	July	August	Septembe	October	November	December
Temperature (deg F)						69.1	72.1					
Rain (inches)						4.5	1.3					
Irrigation (inches)												

Plant Population (number or pounds per acre)	20#/A	Row Spacing (inches - enter '0' for broadcast)	10 inches	Total Rain 5.8
Unusual Conditions (or 'none')	Ample rainfall toward the end of the season produced supplemental hay.			Total Irrigation

Results

Brand/Company Name	Hybrid/Variety Name	CP, % of DM	ADF, % of DM (optional)	NDF, % of DM	dNDF Dig. 48h, % of NDF	Ash, % of DM	Ether Extract, % of DM	NFC, % of DM	TDN, % of DM	NEl Mcals/lb	NRC 48 h Digestibility	Old DMI lbs/d	Base Forage DMI, lbs/d	Adjusted Total DMI lbs/d	Adjusted Forage DMI, lbs/d	Forage, % of Total DMI
	Trial Mean	16.7	35.4	54.7	71.9	9.2	2.2	20.9	61.3	0.628	53.899	51.750	21.251	58.955	28.5	0.483
Buffalo Brand	Grazex BMR	20.1	33.2	52.1	72.5	10.0	2.6	19.1	62.1	0.637	54.360	51.750	22.297	59.185	29.732	0.502
Seed Resource	SS200 BMR	19.5	33.8	53.1	71.5	10.4	2.8	18.1	61.1	0.626	53.610	51.750	21.877	58.811	28.938	0.492
Sorghum Partners, Inc.	Sordan 79	17.1	35.6	55.9	70.9	10.4	2.9	17.6	59.9	0.612	53.168	51.750	20.773	58.590	27.613	0.471
Buffalo Brand	Grazex BMR	14.0	37.2	56.8	72.0	8.6	1.9	22.5	60.7	0.622	54.008	51.750	20.455	59.009	27.714	0.470
Seed Resource	SS200 BMR	13.9	36.4	55.8	70.7	7.8	1.7	24.6	61.2	0.627	53.055	51.750	20.792	58.534	27.576	0.471
Sorghum Partners, Inc.	Sordan 79	15.9	36.0	54.5	73.6	8.0	1.7	23.8	62.7	0.643	55.193	51.750	21.314	59.600	29.165	0.489

Brand/Company Name	Hybrid/Variety Name	Milk/d from forage (lbs)	Milk per Ton lbs/ton
	Trial Mean	42.296	2971
Buffalo Brand	Grazex BMR	45.106	3034
Seed Resource	SS200 BMR	42.790	2957
Sorghum Partners, Inc	Sordan 79	39.550	2865
Buffalo Brand	Grazex BMR	40.641	2933
Seed Resource	SS200 BMR	40.748	2955
Sorghum Partners, Inc	Sordan 79	44.941	3082

New Mexico 2004 Sorghum-Sudan Variety Trial Results - Guadalupe County, Eddy Cordova

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States			State/Province	NM	Study Design (number of replications):				
Special Test (Describe)	Grazing/production trial with sorghum-sudans.					County/Area	Grant	plicated Within Site	4			
Soil Name & Texture	clay loam	Soil Depth (inches)				Longitude		Replicated Across Sites				
						Latitude						
Planting (mm/dd/yy)	6/11/2004	Harvest Date(s) (mm/dd/yy)	7/26/2004	8/27/2004								
Herbicides/Insecticides												

Fertilizer Applied (lb/a):	Nitrogen	(P2O5)	(K20)	Other (specify)	type	lb/a	type	lb/a

	January	February	March	April	May	June	July	August	eptembe	October	Novembe	December
Temperature (deg F)						71.8	73.5					
Rain (inches)						0.0	1.5					
Irrigation (inches)												

ant Population (number or pounds per acre)	15#/A	Row Spacing (inches - enter '0' for broadcast)	10 inches	Total Rai 1.5
Unusual Conditions (or 'none')	Limited irrigation.			Total Irrigation

Results

Brand/Company Name	Hybrid/Variety Name	CP, % of DM	ADF, % of DM (optional)	NDF, % of DM	dNDF Dig. 48h, % of NDF	Ash, % of DM	Ether Extract, % of DM	DM % per A	NFC, % of DM	TDN, % of DM	NEl Mcals/lb	NRC 48 h Digestibility
	Trial Mean	12.0	37.9	58.7	70.6	10.1	2.2	14.5	20.8	58.2	0.593	52.916
Sorghum Partners, Inc.	Sordan Headless	10.1	37.6	57.5	71.9	8.8	2.7		24.7	61.3	0.628	53.918
Seed Resource	SS200 BMR	9.7	38.7	60.2	71.1	7.3	2.4		24.2	60.8	0.623	53.333
Seed Resource	Forage King	10.2	37.4	57.3	72.7	8.0	2.4		26.0	62.2	0.638	54.533
Seed Resource	SS200 BMR	13.8	37.1	57.9	69.0	11.3	1.9	15.5	19.0	56.2	0.572	51.720
Sorghum Partners, Inc.	Sordan Headless	11.0	41.3	64.0	67.6	12.2	1.6	12.8	15.0	51.7	0.521	50.715
Seed Resource	Forage King	17.0	35.5	55.2	71.0	13.2	2.2	15.1	16.1	56.7	0.577	53.280

		Bales	% of A	Bales/A	65#/bale	Tons/A
Yield as of 8/13/2004	Sordan Headless	18.00	0.0661	272.31	17700.2	8.9
(actual yield)	SS200 BMR	16.00	0.0661	242.06	15733.9	7.9
	Forage King	35.00	0.0496	705.65	45867.3	22.9

Brand/Company Name	Hybrid/Variety Name	Old DMI lbs/d	Base Forage DMI, lbs/d	Adjusted Total DMI lbs/d	Adjusted Forage DMI, lbs/d	Forage, % of Total DMI	Milk/d from forage (lbs)	Milk per Ton lbs/ton	Milk per Acre lbs/acre	Estimated ton/acre
	Trial Mean	51.750	19.823	58.465	26.5	0.454	36.486	2738	36263	
Sorghum Partners, Inc.	Sordan Headless	51.750	20.177	58.964	27.392	0.465	40.718	2973		
Seed Resource	SS200 BMR	51.750	19.276	58.673	26.199	0.447	38.439	2934		
Seed Resource	Forage King	51.750	20.265	59.271	27.786	0.469	42.294	3044		
Seed Resource	SS200 BMR	51.750	20.059	57.869	26.177	0.452	33.870	2588	40114	15.5
Sorghum Partners, Inc.	Sordan Headless	51.750	18.138	57.367	23.755	0.414	26.753	2252	28826	12.8
Seed Resource	Forage King	51.750	21.025	58.647	27.922	0.476	36.843	2639	39849	15.1

New Mexico 2004 Sorghum-Sudan Variety Trial Results - Guadalupe County, County Manager

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Trial Description

Year of Harvest (yyyy)	2004	Country	United States			State/Province	NM			Study Design (number of replications):	
Special Test (Describe)	Grazing trial with sorghum-sudans.					County/Area	Grant			Replicated Within Site	4
Soil Name & Texture	clay loam		Soil Depth (inches)			Longitude				Replicated Across Sites	
						Latitude					
Planting (mm/dd/yy)	6/11/2004		Harvest Date(s) (mm/dd/yy)	8/27/2004							
Herbicides/Insecticides											

									type	lb/a	type	lb/a
Fertilizer Applied (lb/a):	Nitrogen		(P2O5)		(K20)		Other (specify)					

	January	February	March	April	May	June	July	August	September	October	November	December
Temperature (deg F)						71.8	73.5					
Rain (inches)						0.0	1.5					
Irrigation (inches)												

Plant Population (number or pounds per acre)	15#/A	Row Spacing (inches - enter '0' for broadcast)	7 inches	Total Rain	1.5
Unusual Conditions (or 'none')	Very little moisture and no supplemental irrigation.			Total Irrigation	

Results

Brand/Company Name	Hybrid/Variety Name	CP, % of DM	ADF, % of DM (optional)	NDF, % of DM	dNDF Dig. 48h, % of NDF	Ash, % of DM	Ether Extract, % of DM	%DM	NFC, % of DM	TDN, % of DM	NEl Mcals/lb	NRC 48 h Digestibility
	Trial Mean	7.3	41.0	67.6	64.4	7.7	1.6	56.9	19.6	53.0	0.536	48.300
Dyna-Gro	Danny Boy	8.2	40.5	66.5	67.0	7.7	1.7	73.0	19.7	54.9	0.557	50.258
Barkley Seed, Inc.	Grassroots 1230	7.3	41.4	68.4	62.5	7.3	1.9	52.1	18.9	52.3	0.528	46.890
Sorghum Partners, Inc.	Sordan79	7.3	41.4	67.7	61.4	7.6	1.5	38.8	19.7	51.3	0.516	46.020
Dyna-Gro	Danny Boy	8.6	40.7	66.8	64.5	8.2	1.6	68.9	18.6	52.8	0.534	48.353
Barkley Seed, Inc.	Grassroots 5150	6.2	41.7	68.9	67.1	8.5	1.7	75.1	18.4	53.1	0.537	50.310
Barkley Seed, Inc.	Grassroots 5150	7.6	40.4	67.0	67.0	8.1	1.5	67.5	19.6	54.1	0.548	50.258
Barkley Seed, Inc.	Grassroots 1230	6.1	42.7	70.3	63.2	6.6	1.7	40.7	19.2	52.3	0.527	47.415
Barkley Seed, Inc.	Grassroots 1230	8.1	40.3	66.3	66.3	8.4	1.8	35.9	19.2	54.2	0.549	49.748
Dyna-Gro	Danny Boy	6.6	40.6	67.1	66.4	8.3	1.5	71.0	20.3	53.5	0.541	49.808
Sorghum Partners, Inc.	Sordan79	7.0	40.6	66.9	59.6	7.5	1.6	42.2	20.7	51.1	0.515	44.700
Sorghum Partners, Inc.	Sordan79	6.6	42.4	69.1	61.2	6.5	1.5	43.5	20.1	51.8	0.522	45.923
Barkley Seed, Inc.	Grassroots 5150	8.0	39.9	65.8	66.6	8.0	1.8	73.6	20.2	54.8	0.556	49.920

Brand/Company Name	Hybrid/Variety Name	Old DMI lbs/d	Base Forage DMI lbs/d	Adjusted Total DMI lbs/d	Adjusted Forage DMI lbs/d	Forage % of Total DMI	Milk/d from forage (lbs)	Milk per Ton lbs/ton	Milk per Acre lbs/acre	Estimated ton/acre
	Trial Mean	51.75	17.189	56.163	21.602	0.384	25.147	2322.75	13315.16	5.7
Dyna-Gro	Danny Boy	51.75	17.459	57.139	22.848	0.400	28.322	2479.21	18098.23	7.3
Barkley Seed, Inc.	Grassroots 1230	51.75	16.969	55.460	20.679	0.373	23.326	2256.01	11753.83	5.2
Sorghum Partners, Inc.	Sordan79	51.75	17.147	55.026	20.423	0.371	22.212	2175.23	8439.89	3.9
Dyna-Gro	Danny Boy	51.75	17.383	56.189	21.822	0.388	25.214	2310.84	15921.70	6.9
Barkley Seed, Inc.	Grassroots 5150	51.75	16.841	57.166	22.256	0.389	26.138	2348.81	17639.57	7.5
Barkley Seed, Inc.	Grassroots 5150	51.75	17.323	57.139	22.713	0.397	27.494	2421.04	16342.05	6.8
Barkley Seed, Inc.	Grassroots 1230	51.75	16.506	55.722	20.477	0.367	23.148	2260.87	9201.75	4.1
Barkley Seed, Inc.	Grassroots 1230	51.75	17.517	56.885	22.652	0.398	27.429	2421.82	8694.33	3.6
Dyna-Gro	Danny Boy	51.75	17.310	56.915	22.475	0.395	26.660	2372.40	16844.04	7.1
Sorghum Partners, Inc.	Sordan79	51.75	17.349	54.368	19.967	0.367	21.457	2149.23	9069.73	4.2
Sorghum Partners, Inc.	Sordan79	51.75	16.807	54.978	20.034	0.364	22.131	2209.34	9610.64	4.4
Barkley Seed, Inc.	Grassroots 5150	51.75	17.658	56.971	22.879	0.402	28.235	2468.23	18166.14	7.4

Sorghum-sudan Variety Trials 2004 for Farmer Strip Trials

Contact: D. McWilliams, 505-646-3455, cell 505-649-4083, fax 505-646-8085, demcwill@nmsu.edu
Locations include: Clayton, Clovis, Santa Rosa, Grant, Las Cruces

Entry	Variety	Company	Type	Maturity Group	Location 2004
1	SS200 BMR	Seed Resource	HFS	Medium	Santa Rosa, Clayton
2	Danny Boy	Dyna-Gro	SS	PS	Santa Rosa, Las Cruces
3	Sordan Headless	Sorghum Partners, Inc.	SS	PS	Clovis, Santa Rosa
4	Sordan 79/98	Sorghum Partners, Inc.	SS	Medium	Santa Rosa, Clayton
5	PS210 BMR	Seed Resource	HFS	Long	Clovis, Las Cruces
6	Forage King	Seed Resource	SS	Long	Santa Rosa, Las Cruces
7	753 BMR	Garst Seed Company	SS	Long	Clovis, Las Cruces
8	SS100 (Dixie Lee, BMR100)	Dyna-Gro	HFS	Medium-Long, 100 days to soft dough	Las Cruces
9	Grassroots BMR 5150	Barkley Seed, Inc.	HFS	Medium	Santa Rosa, Las Cruces
10	Grassroots BMR 1230	Barkley Seed, Inc.	SS	Long	Santa Rosa, Las Cruces
11	Grassroots 500 BMR	Barkley Seed, Inc.	SS	Long	Las Cruces, Grant

Planting Rate Drilled/rowed	Planting Rate Broadcast	Seeds per pound	Soil Temp for Planting
15-20#/A	20-25#/A		60F (May-June)
15-20#/A	20-25#/A		60F, daylight hours are 12 or more (June)
irrigated is 25-50#/A; dryland is 15-25#/A	irrigated is 30-50#/A; dryland is 20-30#/A		60F, daylight hours are 12 or more (June)
irrigated at 26-32 inches, 25-50#/A; dryland or low irrigatic	irrigated at 26-32 inches, 30-50#/A; dryland or low irrigation, 25-30#/A		60F (May-June)
15-20#/A	20-25#/A		60F, daylight hours are 12 or more (June)
irrigated is 25-50#/A; dryland is 15-25#/A	irrigated is 30-50#/A; dryland is 20-30#/A		60F (May-June)
15-20#/A	20-25#/A		60F (May-June)
irrigated, 6#/A, 3-7 seed/ft; dryland, 4-6#/A, 2-4 seed/ft	Irrigated, 7#/A, 3-7 seed/ft; dryland, 4-6#/A, 2-4 seed/ft	16,000; bu wt is 56#	60F (May-June)
15-20#/A	20-25#/A		60F (May-June)
15-20#/A	20-25#/A		60F (May-June)
15-20#/A	20-25#/A		60F (May-June)

Day Length Min.	Plant Characteristics	Harvest Recommendations
	NPS, BMR	Harvest at soft dough stage--later, protein will decline but energy will increase upon heading
Yes	PS, BMR	Harvest at 50 or 70 days, same value through summer, will head out when daylight hours are 12 hours and 20 mi
Yes	PS, not bmr	Harvest at 50 or 70 days, same value through summer, will head out when daylight hours are 12 hours and 20 mi
	NPS, not bmr	Harvest at soft dough stage--later, protein will decline but energy will increase upon heading
Yes	PS, BMR	Harvest at 50 or 70 days, same value through summer, will head out when daylight hours are 12 hours and 20 mi
	NPS, not bmr	Harvest at soft dough stage--later, protein will decline but energy will increase upon heading
	NPS, BMR	Harvest at soft dough stage--later, protein will decline but energy will increase upon heading
	NPS, BMR, resistant to downy mildew, min. pH is 6	Harvest at soft dough stage--later, protein will decline but energy will increase upon heading
	MS, hybrid forage sorghum, BMR	Harvest at 50 or 70 days, same value through summer, will head out when daylight hours are 12 hours and 20 mi
	NPS, BMR	Harvest at soft dough stage--later, protein will decline but energy will increase upon heading
	NPS, BMR	Harvest at soft dough stage--later, protein will decline but energy will increase upon heading

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