

**Table A. New Mexico 2008 Irrigated Sorghum x Sudangrass Performance Test - Agricultural Science Center at Clovis**

**Investigators:** M.A. Marsalis, R.E. Kirksey, B. Niece, and A. Scott

**Test Description**

<b>Location:</b>	<b>Management Practices:</b>	<b>Growing Conditions:</b>																																																									
County/Area: Curry Longitude: -103.22 Latitude: 34.60 Elevation: 4435 ft. Soil Name: Olton Soil Texture: clay loam Soil Depth: >60 in.	Previous Crop: fallow Planting Date: 20-May  <table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;"><u>1st Cutting</u></td> <td style="text-align: center;"><u>2nd Cutting</u></td> </tr> <tr> <td>Harvest Dates:</td> <td style="text-align: center;">22-Jul</td> <td style="text-align: center;">31-Oct</td> </tr> <tr> <td></td> <td style="text-align: center;">28-Jul</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">4-Aug</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">7-Aug</td> <td></td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td colspan="3"><u>Production Inputs</u></td> </tr> <tr> <td></td> <td style="text-align: center;"><u>Rate</u></td> <td style="text-align: center;"><u>Date</u></td> </tr> </table> Fertilizer:  <table border="0" style="width: 100%;"> <tr> <td>Nitrogen</td> <td style="text-align: center;">17 lb/a</td> <td style="text-align: center;">carryover</td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;">70 lb/a</td> <td style="text-align: center;">27-Feb</td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;">50 lb/a</td> <td style="text-align: center;">21-Aug</td> </tr> <tr> <td>P2O5</td> <td style="text-align: center;">50 lb/a</td> <td style="text-align: center;">27-Feb</td> </tr> <tr> <td>S</td> <td style="text-align: center;">10 lb/a</td> <td style="text-align: center;">27-Feb</td> </tr> <tr> <td>Zn</td> <td style="text-align: center;">0.5 lb/a</td> <td style="text-align: center;">27-Feb</td> </tr> </table> Herbicides: <table border="0" style="width: 100%;"> <tr> <td>Atrazine</td> <td style="text-align: center;">2 pt/a</td> <td style="text-align: center;">20-May</td> </tr> </table> Insecticides: <table border="0" style="width: 100%;"> <tr> <td>Intrepid</td> <td style="text-align: center;">8 oz/a</td> <td style="text-align: center;">9-Aug</td> </tr> </table>		<u>1st Cutting</u>	<u>2nd Cutting</u>	Harvest Dates:	22-Jul	31-Oct		28-Jul			4-Aug			7-Aug		<u>Production Inputs</u>				<u>Rate</u>	<u>Date</u>	Nitrogen	17 lb/a	carryover	Nitrogen	70 lb/a	27-Feb	Nitrogen	50 lb/a	21-Aug	P2O5	50 lb/a	27-Feb	S	10 lb/a	27-Feb	Zn	0.5 lb/a	27-Feb	Atrazine	2 pt/a	20-May	Intrepid	8 oz/a	9-Aug	<table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;"><u>Average</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">Temp.</td> <td style="text-align: center;">Precip.</td> <td style="text-align: center;">Irrigation</td> </tr> <tr> <td></td> <td style="text-align: center;">°F</td> <td style="text-align: center;">in.</td> <td style="text-align: center;">in.</td> </tr> </table> January February March            46.9 April            53.7            0.73 May              62.5            1.75            1.80 June             75.5            3.95            2.90 July              73.0            4.74            2.60 August          73.0            3.56            5.30 September      64.8            1.02            2.60 October                            4.51 November December		<u>Average</u>				Temp.	Precip.	Irrigation		°F	in.	in.
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<b>Test Design:</b> Replications: 3 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in.  Seeding Rate: 128000 seeds/a		<table border="0" style="width: 100%;"> <tr> <td>Seasonal Precipitation:</td> <td style="text-align: center;">20.3 in.</td> </tr> <tr> <td>Total Irrigation:</td> <td style="text-align: center;">15.2 in.</td> </tr> </table> Date of Last Spring Frost: 11-May Date of First Fall Frost: 23-Oct Frost Free Period: 165 days	Seasonal Precipitation:	20.3 in.	Total Irrigation:	15.2 in.																																																					
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**Table B. New Mexico 2008 Irrigated Sorghum x Sudangrass Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	Cutting 1					Cutting 2					Total Dry Forage		
		Dry Forage	Green Forage	Moisture		Milk/ Ton	Milk/ Acre	Dry Forage	Green Forage	Moisture			Milk/ Ton	Milk/ Acre
				at Harvest	%					at Harvest	%			
t/a	t/a	%	lb/t	lb/a	t/a	t/a	%	lb/t	lb/a	t/a				
Curtis and Curtis Seed, Inc.	Triplegainer BMR	5.6	23.5	76.1	3001	16857	4.1	18.4	77.4	2567	10661	9.8		
Dyna-Gro/UAP	DG Danny Boy	5.3	24.8	78.4	2876	15568	4.4	20.6	78.6	2601	11449	9.8		
Scott Seed Co.	BMR Gold II	3.9	21.4	81.7	2259	8837	5.2	18.5	72.0	2638	13670	9.1		
Sorghum Partners, Inc.	Sordan 79	3.1	17.9	82.8	2557	7922	5.8	19.1	69.8	2557	14860	8.9		
Sorghum Partners, Inc.	Sordan Headless	4.8	27.0	82.3	2657	12706	4.1	16.2	74.7	2536	10439	8.9		
Sorghum Partners, Inc.	Trudan Headless	4.4	23.2	81.0	2698	11885	4.4	16.1	72.8	2470	10794	8.8		
Eastern Colorado Seeds	HP 200 BMR	4.1	19.6	79.0	2190	9027	4.1	14.5	71.7	2729	11150	8.2		
Eastern Colorado Seeds	HP 300 BMR PS	4.3	24.5	82.6	2953	12545	3.6	17.9	80.1	2524	9038	7.8		
Scott Seed Co.	Premium Stock LS	4.2	27.4	84.6	2711	11469	3.5	15.0	76.9	2426	8429	7.7		
Coffey Forage Seeds, Inc.	EXP 3017	2.3	15.0	84.5	2782	6483	4.6	12.3	62.4	2844	13182	7.0		
Curtis and Curtis Seed, Inc.	Wondergraze	2.2	13.6	84.1	2628	5722	4.5	14.6	69.0	2398	10926	6.7		
Eastern Colorado Seeds	HP 3030 DW BMR	3.6	16.7	78.5	2942	10553	3.1	10.9	71.3	2652	8244	6.7		
Sorghum Partners, Inc.	Trudan BMR	3.5	17.9	80.6	2883	9985	3.2	12.3	73.7	2587	8405	6.7		
Coffey Forage Seeds, Inc.	EXP 2017	2.7	14.8	81.6	2152	5863	3.6	11.7	68.7	2905	10590	6.4		
Coffey Forage Seeds, Inc.	EXP 2017 DW	3.4	17.6	80.6	2853	9778	2.4	9.7	75.3	2476	5901	5.8		
	Trial Mean	3.8	20.3	81.2	2676	10347	4.0	15.2	73.0	2594	10515	7.9		
	LSD	0.9	1.9	3.8	199	2992	0.6	1.8	3.0	232	2288	1.3		
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		
	CV	14.6	5.7	2.8	4.5	17.3	8.8	6.9	2.4	5.4	13.0	9.6		
	F Test	<0.0001	<0.0001	0.0022	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0041	<0.0001	<0.0001		

**Table C. New Mexico 2008 Irrigated Sorghum x Sudangrass Performance Test - Agricultural Science Center at Clovis**

<b>Results</b>															
<b>Brand/Company Name</b>	<b>Hybrid/Variety Name</b>	<b>Cutting 1</b>							<b>Cutting 2</b>						
		<b>CP</b>	<b>ADF</b>	<b>NDFD</b>		<b>Ash</b>	<b>TDN</b>	<b>NE<sub>i</sub></b>	<b>CP</b>	<b>ADF</b>	<b>NDFD</b>		<b>Ash</b>	<b>TDN</b>	<b>NE<sub>i</sub></b>
		%	%	%	%	%	%	Mcal/lb	%	%	%	%	%	%	Mcal/lb
Curtis and Curtis Seed, Inc.	Triplegainer BMR	10.4	32.5	57.5	72.6	8.2	61.6	0.63	11.0	34.9	62.1	66.3	8.6	56.2	0.57
Dyna-Gro/UAP	DG Danny Boy	10.0	33.6	59.3	70.8	8.1	60.1	0.61	10.5	34.5	61.4	66.2	8.4	56.7	0.58
Scott Seed Co.	BMR Gold II	9.5	40.3	70.0	62.0	6.4	52.4	0.53	8.9	34.1	62.2	65.7	7.2	57.2	0.58
Sorghum Partners, Inc.	Sordan 79	13.1	34.0	60.7	63.0	7.4	56.4	0.57	8.0	34.9	62.6	62.6	6.4	56.5	0.57
Sorghum Partners, Inc.	Sordan Headless	9.1	36.2	61.1	65.2	7.3	57.6	0.59	9.1	35.3	62.8	63.4	7.1	56.1	0.57
Sorghum Partners, Inc.	Trudan Headless	9.9	35.2	60.8	65.5	7.0	58.1	0.59	8.6	35.8	63.8	62.7	7.1	55.2	0.56
Eastern Colorado Seeds	HP 200 BMR	14.6	36.5	66.3	59.2	7.3	51.7	0.52	9.2	32.3	60.2	66.2	7.3	58.4	0.60
Eastern Colorado Seeds	HP 300 BMR PS	9.4	34.0	58.7	71.2	7.5	61.1	0.63	9.7	37.6	64.8	66.9	8.3	55.5	0.56
Scott Seed Co.	Premium Stock LS	9.9	35.0	59.9	66.3	7.7	58.2	0.59	10.3	35.6	63.2	62.5	7.9	54.6	0.55
Coffey Forage Seeds, Inc.	EXP 3017	13.0	31.3	58.8	68.0	8.0	59.0	0.60	8.2	31.4	59.5	67.8	6.9	59.9	0.61
Curtis and Curtis Seed, Inc.	Wondergraze	11.1	33.8	60.7	64.1	7.1	57.3	0.58	8.8	34.7	62.6	60.2	7.2	54.5	0.55
Eastern Colorado Seeds	HP 3030 DW BMR	9.8	31.8	57.6	70.4	7.8	61.0	0.63	11.7	31.8	58.6	65.5	8.6	57.5	0.59
Sorghum Partners, Inc.	Trudan BMR	11.9	31.0	55.4	68.2	8.4	60.4	0.62	11.2	33.3	60.2	64.9	8.4	56.6	0.58
Coffey Forage Seeds, Inc.	EXP 2017	15.4	36.3	66.7	59.4	7.7	51.2	0.52	9.7	29.9	56.5	67.7	7.4	60.8	0.62
Coffey Forage Seeds, Inc.	EXP 2017 DW	12.1	30.3	56.7	69.0	8.6	59.9	0.61	11.9	33.8	62.2	64.8	8.9	55.1	0.56
	Trial Mean	11.3	34.1	60.7	66.3	7.6	57.7	0.59	9.8	34.0	61.5	64.9	7.7	56.7	0.58
	LSD	2.2	2.2	2.9	3.6	1.0	2.5	0.03	1.2	2.2	3.6	3.0	0.6	3.0	0.03
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	11.9	3.9	2.9	3.3	7.6	2.5	2.8	7.2	3.9	3.5	2.7	4.7	3.1	3.4
	F Test	<0.0001	<0.0001	<0.0001	<0.0001	0.0061	<0.0001	<0.0001	<0.0001	<0.0001	0.0058	0.0003	<0.0001	0.0050	0.0041