

**Table A. New Mexico 2010 Dryland Forage Sorghum 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: 2-Jun Harvest Date: 30-Sep  <hr/> <b>Production Inputs</b> <hr/> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Rate</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td>Nitrogen</td> <td>24 lb/a</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>85 lb/a</td> <td>1-Jun</td> </tr> <tr> <td>P<sub>2</sub>O<sub>5</sub></td> <td>40 lb/a</td> <td>1-Jun</td> </tr> <tr> <td>S</td> <td>13 lb/a</td> <td>1-Jun</td> </tr> <tr> <td>Zn</td> <td>1 lb/a</td> <td>1-Jun</td> </tr> <tr> <td colspan="3"><b>Herbicides:</b></td> </tr> <tr> <td>Atrazine</td> <td>2 pt/a</td> <td>3-Jun</td> </tr> <tr> <td>Yukon</td> <td>5 oz/a</td> <td>22-Jun</td> </tr> <tr> <td>Dual II Mag</td> <td>1 pt/a</td> <td>22-Jun</td> </tr> <tr> <td>Clarity</td> <td>6 oz/a</td> <td>1-Jul</td> </tr> <tr> <td colspan="3"><b>Insecticides:</b></td> </tr> <tr> <td>Lorsban</td> <td>1 pt/a</td> <td>4-Aug</td> </tr> <tr> <td>Fanfare</td> <td>6.4 oz/a</td> <td>4-Aug</td> </tr> </tbody> </table>		Rate	Date	<b>Fertilizer:</b>			Nitrogen	24 lb/a	carryover	Nitrogen	85 lb/a	1-Jun	P <sub>2</sub> O <sub>5</sub>	40 lb/a	1-Jun	S	13 lb/a	1-Jun	Zn	1 lb/a	1-Jun	<b>Herbicides:</b>			Atrazine	2 pt/a	3-Jun	Yukon	5 oz/a	22-Jun	Dual II Mag	1 pt/a	22-Jun	Clarity	6 oz/a	1-Jul	<b>Insecticides:</b>			Lorsban	1 pt/a	4-Aug	Fanfare	6.4 oz/a	4-Aug	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Average Temp. °F</th> <th style="text-align: center;">Precip. in.</th> <th style="text-align: center;">Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td></td><td></td><td></td></tr> <tr><td>April</td><td></td><td></td><td></td></tr> <tr><td>May</td><td style="text-align: center;">63.0</td><td style="text-align: center;">2.34</td><td></td></tr> <tr><td>June</td><td style="text-align: center;">77.8</td><td style="text-align: center;">2.98</td><td></td></tr> <tr><td>July</td><td style="text-align: center;">76.0</td><td style="text-align: center;">2.30</td><td></td></tr> <tr><td>August</td><td style="text-align: center;">77.0</td><td style="text-align: center;">6.83</td><td></td></tr> <tr><td>September</td><td style="text-align: center;">73.0</td><td style="text-align: center;">1.41</td><td></td></tr> <tr><td>October†</td><td></td><td></td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> <tr> <td style="text-align: right;">Seasonal Precipitation</td> <td></td> <td style="text-align: center;">15.9 in.</td> <td></td> </tr> <tr> <td style="text-align: right;">Total Irrigation</td> <td></td> <td style="text-align: center;">0.0 in.</td> <td></td> </tr> <tr> <td style="text-align: right;">Date of Last Spring Frost:</td> <td></td> <td style="text-align: center;">9-Apr</td> <td></td> </tr> <tr> <td style="text-align: right;">Date of First Fall Frost:</td> <td></td> <td style="text-align: center;">28-Oct</td> <td></td> </tr> <tr> <td style="text-align: right;">Frost Free Period:</td> <td></td> <td style="text-align: center;">202 days</td> <td></td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March				April				May	63.0	2.34		June	77.8	2.98		July	76.0	2.30		August	77.0	6.83		September	73.0	1.41		October†				November				December				Seasonal Precipitation		15.9 in.		Total Irrigation		0.0 in.		Date of Last Spring Frost:		9-Apr		Date of First Fall Frost:		28-Oct		Frost Free Period:		202 days	
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<b>Test Design:</b> Replications: 3 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in.  Seeding Rate: 60,000 seed/a																																																																																																																							

**Table B. New Mexico 2010 Dryland Forage Sorghum Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	Sorghum <sup>†</sup> Type	Moisture			CP	NDF	NDFD 48hr	Ash	TDN	NE <sub>l</sub>	Milk/Ton	Milk/Acre
			Dry Forage	Green Forage	at Harvest								
			t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a
Forage First	FS-5	Conv	7.0	18.3	61.7	7.4	50.3	64.5	5.6	65.1	0.67	3147	22086
Pioneer Hi-Bred Int.	841F	Conv	6.4	17.1	63.1	8.3	47.8	61.9	6.2	66.8	0.69	3291	20933
Eastern Colorado Seeds	HP95BMR	BMR	6.2	14.2	56.2	7.9	46.4	64.8	5.8	69.4	0.71	3513	21906
Pioneer Hi-Bred Int.	849F	Conv	5.7	14.5	60.7	8.4	49.6	65.6	5.6	65.8	0.68	3204	18274
B-H Genetics	BH 312FBD	BMR	5.6	15.8	63.9	7.9	49.5	62.8	6.9	66.3	0.68	3254	18338
Eastern Colorado Seeds	HP120BMR DW	BMR	5.6	16.2	65.7	8.6	49.4	63.5	6.9	67.5	0.70	3359	18897
Warner Seeds, Inc.	2 way F104	Conv	5.3	13.6	60.8	8.4	48.4	60.3	5.6	65.7	0.68	3196	17043
Eastern Colorado Seeds	HP1010BMR	BMR	4.9	14.4	65.8	8.6	49.4	65.3	6.5	69.0	0.71	3479	17167
B-H Genetics	BH 304FB	BMR	4.3	12.3	65.0	8.6	48.6	72.8	6.6	69.1	0.71	3492	15013
Trial Mean			5.7	15.2	62.5	8.3	48.8	64.6	6.2	67.2	0.69	3326	18850
LSD			NS	NS	4.0	NS	NS	NS	1.0	1.4	0.01	110	NS
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			18.6	17.1	3.7	7.7	4.7	9.3	9.2	1.2	1.2	1.2	17.9
F Test			0.1650	0.2143	0.0021	0.3117	0.6251	0.4476	0.0290	<0.0001	<0.0001	<0.0001	0.2308

<sup>†</sup> Sorghum Type: Conv = Conventional, BMR = Brown Midrib