

Table 3A. New Mexico 2013 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis

Investigators: M.A. Marsalis, A. Scott, and B. Niece

Test Description

<p>Location: County/Area: Curry Longitude: -103.22 Latitude: 34.60 Elevation: 4435 ft. Soil Name: Olton Soil Texture: clay loam Soil Depth: >60 in.</p> <p>Test Design: Replications: 3 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 29,000 seed/a</p> <p>Notes: 0.75" (7/21) and 0.35" (7/24) for emergence</p>	<p>Management Practices: Previous Crop: fallow Planting Date: 19-Jun Harvest Date: 24-Oct</p> <p>Production Inputs</p> <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td>Nitrogen</td> <td>33 lb/a</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>50 lb/a</td> <td>17-Jun</td> </tr> <tr> <td>P₂O₅</td> <td>25 lb/a</td> <td>17-Jun</td> </tr> <tr> <td>S</td> <td>8 lb/a</td> <td>17-Jun</td> </tr> <tr> <td>Zn</td> <td>2 qt/a</td> <td>17-Jun</td> </tr> </tbody> </table> <p>Herbicides:</p> <table border="1"> <tbody> <tr> <td>Bicep Lite Mag II</td> <td>3 pt/a</td> <td>19-Jun</td> </tr> <tr> <td>Permit</td> <td>1 oz/a</td> <td>12-Jul</td> </tr> <tr> <td>MeeToo-Lachlor II</td> <td>1 pt/a</td> <td>12-Jul</td> </tr> </tbody> </table> <p>Insecticides:</p> <p>None</p>		Rate	Date	Fertilizer:			Nitrogen	33 lb/a	carryover	Nitrogen	50 lb/a	17-Jun	P ₂ O ₅	25 lb/a	17-Jun	S	8 lb/a	17-Jun	Zn	2 qt/a	17-Jun	Bicep Lite Mag II	3 pt/a	19-Jun	Permit	1 oz/a	12-Jul	MeeToo-Lachlor II	1 pt/a	12-Jul	<p>Growing Conditions:</p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>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></td><td></td><td></td></tr> <tr><td>June</td><td>74.7</td><td>1.67</td><td>1.1[†]</td></tr> <tr><td>July</td><td>74.0</td><td>3.26</td><td></td></tr> <tr><td>August</td><td>75.0</td><td>1.49</td><td></td></tr> <tr><td>September</td><td>69.0</td><td>4.25</td><td></td></tr> <tr><td>October</td><td>55.0</td><td>0.12</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> </tbody> </table> <p>†Emergence irrigations</p> <p>Seasonal Precipitation: 10.79 in. Total Irrigation: 1.10 in.</p> <p>Date of Last Spring Frost: 3-May Date of First Fall Frost: 19-Oct Frost Free Period: 169 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March				April				May				June	74.7	1.67	1.1 [†]	July	74.0	3.26		August	75.0	1.49		September	69.0	4.25		October	55.0	0.12		November				December			
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Table 3B. New Mexico 2013 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis

Brand/Company Name	Hybrid/Variety Name	Maturity Class	Head Date	Plant Height in.	Head Exertion in.	Moisture %	Yield lb/A	Yield bu/A	Test Weight lb/bu
DuPont/Pioneer	85Y40	M	20-Aug	27.0	2.0	14.2	4509	80.5	55.8
DuPont/Pioneer	85G01	M	16-Aug	24.3	0.0	12.2	4191	74.8	54.7
Advanta US, Inc	AG2115	M	16-Aug	24.0	3.3	11.5	4075	72.8	54.5
Terral Seed	RV 9782	ML	17-Aug	22.7	1.0	11.4	4036	72.1	53.2
Advanta US, Inc	XG1323	ME	17-Aug	21.0	3.7	17.2	3859	68.9	52.2
Monsanto Company	DeKalb DKS44-20	M	15-Aug	25.3	1.0	12.7	3844	68.6	53.9
Sorghum Partners, LLC	NK7633	ML	20-Aug	24.7	2.3	13.9	3836	68.5	51.1
Terral Seed	RV 9562	M	19-Aug	24.3	0.7	10.9	3821	68.2	53.0
DuPont/Pioneer	85G03	M	21-Aug	23.7	0.0	13.8	3801	67.9	50.8
Advanta US, Inc	XG1123	ME	17-Aug	24.3	1.0	16.2	3772	67.4	47.6
Sorg. Part./Chromatin	KS 585	M	17-Aug	22.7	1.0	10.7	3750	67.0	52.5
Browning Seed Inc.	775 W	ME	18-Aug	23.3	3.0	12.4	3656	65.3	52.3
Advanta US, Inc	XG1213	ME	15-Aug	22.0	1.0	13.9	3649	65.2	53.5
Sorghum Partners, LLC	NK 5418	M	14-Aug	23.0	4.3	9.8	3630	64.8	50.4
Triumph Seed Co. Inc.	TRX 85131	ML	21-Aug	28.3	0.3	16.5	3622	64.7	51.3
Tx. A&M AgriLife Res.	ATx399 x RTx430	ML	22-Aug	23.0	0.0	13.3	3536	63.1	51.1
DuPont/Pioneer	86G32	ME	13-Aug	25.0	2.3	9.4	3518	62.8	51.0
Monsanto Company	DeKalb DKS37-07	ME	14-Aug	22.0	2.7	11.2	3441	61.4	50.7
Sorg. Part./Chromatin	KS 310	E	8-Aug	20.0	4.7	9.0	3405	60.8	55.6
Monsanto Company	DeKalb DKS29-28	E	11-Aug	19.7	5.3	9.0	3405	60.8	53.3
Advanta US, Inc	XG2113	M	18-Aug	22.7	4.7	12.9	3359	60.0	54.1
Monsanto Company	DeKalb DKS26-60	E	5-Aug	19.0	6.7	8.7	3282	58.6	52.0
Sorghum Partners, LLC	SP6929	ML	14-Aug	21.7	4.3	14.9	3255	58.1	53.9
Triumph Seed Co. Inc.	TR 4941	M	22-Aug	23.0	0.3	16.8	3244	57.9	52.9
Sorg. Part./Chromatin	SP 3425	ME	13-Aug	21.3	2.3	8.8	3079	55.0	52.1
Browning Seed Inc.	Challenger BMX	M	21-Aug	23.7	0.3	16.0	3072	54.9	47.4
Tx. A&M AgriLife Res.	ATx2752 x RTx430	ML	20-Aug	24.7	0.0	14.9	2858	51.0	50.0
Sorg. Part./Chromatin	251	E	4-Aug	19.7	7.0	8.4	2834	50.6	53.9
Monsanto Company	DeKalb DKS28-05	E	7-Aug	20.3	5.3	8.7	2756	49.2	54.4
Triumph Seed Co. Inc.	TR 4955	ML	22-Aug	27.3	1.0	14.2	2071	37.0	43.8
Tx. A&M AgriLife Res.	ATx378 x RTx430	ML	23-Aug	24.7	0.0	15.9	1483	26.5	41.2
	Trial Mean		16-Aug	23.2	2.3	12.6	3440	61.4	51.7
	LSD			2.0	3.2	1.7	833	14.9	3.0
	LSD P >			0.05	0.05	0.05	0.05	0.05	0.05
	CV			2.3	8.3	65.3	8.3	14.8	3.5
	F Test			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001