

Table 3A. New Mexico 2014 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis

Investigators: A. Mesbah, 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>Management Practices: Previous Crop: fallow Planting Date: 20-Jun Harvest Date: 20-Nov</p> <hr/> <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>49 lb/a</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>75 lb/a</td> <td>19-Jun</td> </tr> <tr> <td>P₂O₅</td> <td>30 lb/a</td> <td>19-Jun</td> </tr> <tr> <td>S</td> <td>12 lb/a</td> <td>19-Jun</td> </tr> <tr> <td>Zn</td> <td>2 qt/a</td> <td>19-Jun</td> </tr> </tbody> </table> <p>Herbicides: Bicep Lite Mag II 3 pt/a 20-Jun</p> <p>Insecticides: None</p>		Rate	Date	Fertilizer:			Nitrogen	49 lb/a	carryover	Nitrogen	75 lb/a	19-Jun	P ₂ O ₅	30 lb/a	19-Jun	S	12 lb/a	19-Jun	Zn	2 qt/a	19-Jun	<p>Growing Conditions:</p> <hr/> <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>35.0</td><td></td><td></td></tr> <tr><td>February</td><td>38.4</td><td></td><td></td></tr> <tr><td>March</td><td>45.1</td><td></td><td></td></tr> <tr><td>April</td><td>53.6</td><td></td><td></td></tr> <tr><td>May</td><td>62.9</td><td></td><td></td></tr> <tr><td>June</td><td>73.2</td><td>3.08</td><td></td></tr> <tr><td>July</td><td>75.0</td><td>2.23</td><td></td></tr> <tr><td>August</td><td>75.0</td><td>0.61</td><td></td></tr> <tr><td>September</td><td>67.0</td><td>2.65</td><td></td></tr> <tr><td>October</td><td>60.0</td><td>0.09</td><td></td></tr> <tr><td>November</td><td>41.0</td><td>0.13 *</td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table> <p>* Nov 1-20</p> <p>Seasonal Precipitation: 8.79 in.</p> <p>Date of Last Spring Frost: 14-May Date of First Fall Frost: 11-Nov Frost Free Period: 181 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January	35.0			February	38.4			March	45.1			April	53.6			May	62.9			June	73.2	3.08		July	75.0	2.23		August	75.0	0.61		September	67.0	2.65		October	60.0	0.09		November	41.0	0.13 *		December			
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<p>Test Design: Replications: 3 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 29,000 seed/a</p>																																																																											

Table 3B. New Mexico 2014 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis

Hybrid	Company or Brand Name	Maturity Class	Head Date	Plant Height in.*	Moisture %	Yield lb/A	Yield bu/A	Test Weight lb/bu
Terral Seed	RV 9782	ML	28-Aug	20.2	11.1	2714	48.5	54.3
Monsanto/Dekalb	DKS 41-50	M	21-Aug	20.9	11.1	2544	45.4	54.2
Monsanto/Dekalb	DKS 37-07	ME	20-Aug	21.5	10.9	2374	42.4	50.7
Monsanto/Dekalb	DKS 29-28	E	13-Aug	19.3	10.8	2315	41.3	55.9
Texas A&M Agrilife Res.	ATx378xRTx430	ML	29-Aug	24.0	10.3	2314	41.3	48.7
Advanta US	Alta AG 1203	E	28-Aug	21.4	11.5	2294	41.0	56.2
Sorghum Partners	SP 6929	ML	20-Aug	21.7	10.9	2280	40.7	53.9
Advanta US	Alta AG 1301	ME	29-Aug	21.9	10.4	2137	38.2	53.9
Advanta US	Alta AG 1201	E	17-Aug	20.0	10.4	2090	37.3	53.7
Mycogen Seeds	1G557	E	23-Aug	17.2	10.3	1990	35.5	55.8
Sorghum Partners	NK 5418	M	24-Aug	20.7	10.5	1958	35.0	54.4
Sorghum Partners	KS 310	E	15-Aug	18.0	10.2	1936	34.6	52.8
Armour Seed	Lighting	E	24-Aug	21.3	10.6	1932	34.5	55.4
Advanta US	Alta AG 1101	E	14-Aug	18.6	9.5	1927	34.4	49.3
Sorghum Partners	SP 3425	ME	16-Aug	17.7	10.8	1905	34.0	55.6
Advanta US	XG 02008	ME	27-Aug	21.0	10.3	1842	32.9	54.6
Mycogen Seeds	E 33573	ML	25-Aug	22.4	10.9	1773	31.7	53.5
Sorghum Partners	NK 7633	ML	27-Aug	21.4	10.8	1773	31.6	54.8
Sorghum Partners	SP 3303	ME	21-Aug	19.5	10.1	1763	31.5	53.1
Advanta US	Alta AG 2115	M	23-Aug	21.5	11.1	1739	31.1	55.1
Armour Seed	Outlaw	ML	4-Sep	23.1	11.1	1691	30.2	53.2
Monsanto/Dekalb	DKS 44-20	M	20-Aug	19.7	11.3	1647	29.4	55.5
Sorghum Partners	KS 585	M	28-Aug	22.6	11.1	1610	28.7	56.8
Texas A&M Agrilife Res.	ATx631xRTx436	ML	8-Sep	21.9	10.5	1442	25.8	50.5
Sorghum Partners	K 35-Y5	ME	16-Aug	21.0	10.4	1435	25.6	56.4
Mycogen Seeds	E 33761	ML	2-Sep	21.1	10.4	1393	24.9	52.4
Terral Seed	RV 9562	MWV	28-Aug	20.5	10.3	1307	23.3	53.5
Sorghum Partners	X 445	ME	25-Aug	21.2	10.2	1306	23.3	53.9
Monsanto/Dekalb	DKS 28-05	E	13-Aug	20.9	8.9	1298	23.2	47.7
Warner Seeds, Inc.	W-7012	ML	8-Sep	19.9	10.6	1201	21.5	53.5
Mycogen Seeds	1G688	M	5-Sep	23.4	12.4	1185	21.2	51.7
Advanta US	XG 30001	M	22-Aug	18.2	10.9	1122	20.0	52.1
Advanta US	Alta AG 2105	M	25-Aug	20.9	9.7	1033	18.5	50.8
Armour Seed	Maverick	M	31-Aug	21.2	11.4	872	15.6	51.4
Advanta US	XG 30002	M	25-Aug	19.5	11.3	709	12.7	54.0
Texas A&M Agrilife Res.	ATx2752xRTx430	ML	16-Sep	24.1	10.2	696	12.4	53.3
Mycogen Seeds	1G 855	L	15-Sep	24.3	11.8	681	12.2	46.2
Mycogen Seeds	1G 741	ML	2-Sep	21.1	10.9	520	9.3	51.5
Advanta US	XG 30003	M	7-Sep	20.0	11.7	403	7.2	50.2
	Trial Mean		26-Aug	20.8	10.7	1619	28.9	53.0
	LSD		8.0	3.3	1.0	745	13.3	5.1
	LSD P >		0.05	0.05	0.05	0.05	0.05	0.05
	CV		2.1	9.8	5.7	28.3	28.3	5.9
	F Test		<0.0001	0.0018	<0.0001	<0.0001	<0.0001	0.0106

* Plant height is measured from the ground to the top of the leaf canopy.