

New Mexico 2020 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>Test Design: Replications: 3 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 29000 seed/ac</p>	<p>Management Practices: Previous Crop: fallow Planting Date: 17-Jun Harvest Date: 4-Nov</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>30 lb/ac</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>60 lb/ac</td> <td>1-May</td> </tr> <tr> <td>Phos</td> <td>30 lb/ac</td> <td>1-May</td> </tr> <tr> <td>S</td> <td>9 lb/ac</td> <td>1-May</td> </tr> <tr> <td>Chelated Zn</td> <td>2 qt/ac</td> <td>1-May</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Atrazine</td> <td>2 pt/ac</td> <td>19-Jun</td> </tr> <tr> <td>Warrant</td> <td>2 qt/ac</td> <td>19-Jun</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	30 lb/ac	carryover	Nitrogen	60 lb/ac	1-May	Phos	30 lb/ac	1-May	S	9 lb/ac	1-May	Chelated Zn	2 qt/ac	1-May	Herbicides:			Atrazine	2 pt/ac	19-Jun	Warrant	2 qt/ac	19-Jun	Insecticides:			<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>38.2</td><td></td><td></td></tr> <tr><td>February</td><td>38.0</td><td></td><td></td></tr> <tr><td>March</td><td>51.0</td><td></td><td></td></tr> <tr><td>April</td><td>52.4</td><td></td><td></td></tr> <tr><td>May</td><td>67.2</td><td>0.05</td><td></td></tr> <tr><td>June</td><td>75.8</td><td>1.16</td><td></td></tr> <tr><td>July</td><td>79.0</td><td>3.90</td><td></td></tr> <tr><td>August</td><td>79.0</td><td>0.55</td><td></td></tr> <tr><td>September</td><td>65.5</td><td>0.56</td><td></td></tr> <tr><td>October</td><td>56.0</td><td>0.52</td><td></td></tr> <tr><td>November 1-4</td><td>50.5</td><td>0.00</td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table> <p>Seasonal Precipitation: 6.7 in. Total Irrigation: 0.0 in.</p> <p>Date of Last Spring Frost: 18-Apr Date of First Fall Frost: 16-Oct Frost Free Period: 181 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January	38.2			February	38.0			March	51.0			April	52.4			May	67.2	0.05		June	75.8	1.16		July	79.0	3.90		August	79.0	0.55		September	65.5	0.56		October	56.0	0.52		November 1-4	50.5	0.00		December			
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Brand/Company Name	Hybrid/Variety Name	Grain Yield bu/a	Grain Yield lb/a	Moisture		Plant Height in	Head Exertion in	Lodging %	Heading Date
				at Harvest %	Test Weight lb/bu				
Dyna-Gro Seed	GX17912	102.9 ***	5763 ***	10.7	56.1 *	15.6	0.5 *	0 *	15-Aug *
Dyna-Gro Seed	M57GB19	100.2 *	5610 *	10.5	52.8 *	16.7	0.8 *	0 *	16-Aug *
LG Seeds	2730B	94.1 *	5266 *	11.1 *	52.8 *	21.9 *	1.2 *	0 *	16-Aug *
Dyna-Gro Seed	GX19981	90.4 *	5064 *	10.5	54.3 *	22.6 ***	0.0	0 *	24-Aug *
Dyna-Gro Seed	M59GB94	84.6 *	4739 *	11.4 *	54.6 *	18.4 *	0.0	0 *	15-Aug *
S&W Seed Co.	SP 68M57	79.2 *	4437 *	13.3 ***	53.7 *	16.5	0.4	0 *	17-Aug *
LG Seeds	2620C	78.5 *	4396 *	11.4 *	51.7	17.3	1.0 *	0 *	15-Aug *
Dyna-Gro Seed	M59GB57	74.6 *	4181 *	11.2 *	58.3 ***	16.0	0.4	0 *	10-Aug *
Dyna-Gro Seed	M54GR24	74.4 *	4165 *	10.9	57.2 *	17.6	2.1 ***	0 *	14-Aug *
S&W Seed Co.	SP 43M80	72.5 *	4062 *	10.8	55.0 *	17.3	0.0	3 *	14-Aug *
Dyna-Gro Seed	GX18919	72.0 *	4031 *	11.3 *	57.8 *	16.4	1.6 *	0 *	6-Aug *
LG Seeds	1510C	71.1 *	3979 *	10.8	52.9 *	17.6	0.3	0 *	9-Jul
S&W Seed Co.	SP 31A15	68.0 *	3806 *	11.0 *	54.5 *	15.1	0.5 *	0 *	5-Jul
Dyna-Gro Seed	M74GB17	60.0	3359	12.1 *	54.1 *	16.8	0.0	0 *	25-Aug *
Dyna-Gro Seed	M71GR91	59.1	3309	12.2 *	46.5	20.9 *	0.0	0 *	25-Aug *
Dyna-Gro Seed	M72GB71	58.7	3287	10.8	54.4 *	19.8 *	0.3	0 *	26-Aug ***
LG Seeds	3180B	58.2	3261	13.2 *	50.0	17.6	0.3	0 *	21-Aug *
Dyna-Gro Seed	GX20564	58.1	3255	11.9 *	51.1	20.5 *	0.7 *	0 *	19-Aug *
Dyna-Gro Seed	M60GB31	56.5	3164	11.6 *	52.1 *	18.9 *	0.8 *	0 *	23-Aug *
Dyna-Gro Seed	M57GC29	52.3	2925	11.7 *	54.3 *	15.2	0.4	0 *	16-Aug *
Dyna-Gro Seed	M69GR88	50.8	2847	11.9 *	56.5 *	17.1	1.2 *	0 *	25-Aug *
Dyna-Gro Seed	M60GB88	45.2	2529	11.1 *	54.5 *	13.5	0.0	0 *	18-Aug *
S&W Seed Co.	SP 25C10	43.7	2447	10.6	48.7	17.2	2.1 ***	23 ***	5-Aug *
S&W Seed Co.	SP 33S40	33.0	1848	10.2	53.8 *	20.3	1.4 *	0 *	20-Aug *
	Trial Mean	68.3	3822	11.3	53.7	17.8	0.7	1.1	14-Aug
	LSD (P > 0.05)	35.4	1984.5	2.3	6.2	4.6	1.7	13.6	29.2
	CV	31.6	31.6	12.6	7.1	15.7	153.0	745.4	7.8
	F Test	0.231	0.2308	0.5933	0.9761	0.787	0.4722	0.2835	0.1651

*** Highest numerical value in the column.

* Not significantly different from the highest numerical value in the column based on the 5% LSD.