

**Tabel 7A. New Mexico 2008 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis**

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

**Test Description**

<p><b>Location:</b></p> <p>County/Area: Curry          Longitude: -103.22          Latitude: 34.60          Elevation: 4435 ft.          Soil Name: Olton          Soil Texture: clay loam          Soil Depth: &gt;60 in.</p> <p><b>Test Design:</b></p> <p>Replications: 3          Plot Length: 20 ft.          Rows per Plot: 2          Row Spacing: 30 in.          Seeding Rate: 29000 seed/a</p>	<p><b>Management Practices:</b></p> <p>Previous Crop: fallow          Planting Date: 17-Jun          Harvest Date: 11-Nov</p> <p><b>Production Inputs</b></p> <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td>Nitrogen</td> <td>40 lb/a</td> <td>28-Feb</td> </tr> <tr> <td>P<sub>2</sub>O<sub>5</sub></td> <td>30 lb/a</td> <td>28-Feb</td> </tr> <tr> <td>S</td> <td>5.6 lb/a</td> <td>28-Feb</td> </tr> <tr> <td>Zn</td> <td>1 lb/a</td> <td>28-Feb</td> </tr> <tr> <td colspan="3"><b>Herbicides:</b></td> </tr> <tr> <td>Aatrex</td> <td>2 pts/a</td> <td>18-Jun</td> </tr> <tr> <td colspan="3"><b>Insecticides:</b></td> </tr> <tr> <td>Dimethoate</td> <td>1 pts/a</td> <td>26-Jun</td> </tr> </tbody> </table>		Rate	Date	<b>Fertilizer:</b>			Nitrogen	40 lb/a	28-Feb	P <sub>2</sub> O <sub>5</sub>	30 lb/a	28-Feb	S	5.6 lb/a	28-Feb	Zn	1 lb/a	28-Feb	<b>Herbicides:</b>			Aatrex	2 pts/a	18-Jun	<b>Insecticides:</b>			Dimethoate	1 pts/a	26-Jun	<p><b>Growing Conditions:</b></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>62.5</td><td>1.75</td><td></td></tr> <tr><td>June</td><td>75.5</td><td>3.95</td><td>1.40*</td></tr> <tr><td>July</td><td>73.0</td><td>4.74</td><td></td></tr> <tr><td>August</td><td>73.0</td><td>3.56</td><td></td></tr> <tr><td>September</td><td>65.5</td><td>1.02</td><td></td></tr> <tr><td>October</td><td>56.5</td><td>4.51</td><td></td></tr> <tr><td>November<sup>†</sup></td><td>49.5</td><td>0.02</td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table> <p>* Emergence and soil crust mellowing irrigations.  <sup>†</sup> Nov. 1-11</p> <p>Seasonal Precipitation: 19.6 in.          Total Irrigation: 1.4 in.</p> <p>Date of Last Spring Frost: 11-May          Date of First Fall Frost: 23-Oct          Frost Free Period: 165 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March				April				May	62.5	1.75		June	75.5	3.95	1.40*	July	73.0	4.74		August	73.0	3.56		September	65.5	1.02		October	56.5	4.51		November <sup>†</sup>	49.5	0.02		December			
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**Table 7B. New Mexico 2008 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis****Results**

Brand/Company Name	Hybrid	Maturity Class	Yield	Yield	Test	Head	Plant	Head	Moisture
			lb/a	bu/a	Weight	Date	Height	Exsertion	
					lb/bu		in.	in.	%
Pioneer Hi-Bred Int'l	86G32	ME	6517	116.4	57.7	18-Aug	33.5	2.2	12.2
DeKalb	DeKalb DKS37-07	ME	6211	110.9	59.5	14-Aug	34.8	3.0	12.6
Pioneer Hi-Bred Int'l	86G32	ME	6190	110.5	57.8	21-Aug	32.0	1.6	12.1
Asgrow	Asgrow Pulsar	E	5816	103.9	58.0	21-Aug	33.6	5.0	12.7
Pioneer Hi-Bred Int'l	85G46	M	5712	102.0	59.5	12-Aug	33.2	2.0	12.3
Sorghum Partners, Inc.	NK5418	M	5632	100.6	59.2	19-Aug	32.0	3.9	12.3
Sorghum Partners, Inc.	X 510	M	5606	100.1	58.0	12-Aug	34.6	3.3	12.7
Sorghum Partners, Inc.	KS585	M	5586	99.7	60.0	16-Aug	32.5	2.2	12.6
DeKalb	DeKalb DK44	M	5532	98.8	59.8	13-Aug	35.2	2.9	12.4
Tx. Agri. Exp. Stat.	ATx2752 x RTx430	ML	5503	98.3	55.8	13-Aug	37.4	1.8	13.2
Sorghum Partners, Inc.	NK4420	ME	5460	97.5	57.9	14-Aug	32.8	3.0	12.5
Dyna-Gro/UAP	DG 762B	M	5390	96.3	58.2	13-Aug	36.9	3.4	12.6
NC+ Hybrids Inc.	NC+ 7C22	M	5293	94.5	59.0	15-Aug	35.7	3.7	12.3
DeKalb	DeKalb DKS29-28	E	5164	92.2	59.3	15-Aug	27.8	2.2	12.1
Dyna-Gro/UAP	DG 752B	M	4994	89.2	55.3	14-Aug	35.3	2.6	12.7
NC+ Hybrids Inc.	NC+ 5B89	E	4976	88.9	58.8	21-Aug	30.3	1.2	12.1
Pioneer Hi-Bred Int'l	85G03	M	4974	88.8	57.4	12-Aug	37.5	2.5	12.9
Sorghum Partners, Inc.	NK7633	ML	4945	88.3	57.2	14-Aug	37.7	4.5	13.1
Tx. Agri. Exp. Stat.	ATx378 x RTx430	ML	4930	88.0	55.0	16-Aug	40.6	3.0	13.3
Pioneer Hi-Bred Int'l	85G46	M	4868	86.9	59.6	17-Aug	33.2	1.2	12.1
Triumph Seed Co., Inc.	TR463	M	4863	86.8	55.7	13-Aug	39.4	3.1	13.0
Triumph Seed Co., Inc.	TR458	M	4784	85.4	58.6	11-Aug	35.6	4.1	12.7
Triumph Seed Co., Inc.	TR459	M	4783	85.4	59.2	13-Aug	34.5	4.7	12.9
Triumph Seed Co., Inc.	TR438	ME	4778	85.3	57.6	12-Aug	36.4	3.0	12.6
Tx. Agri. Exp. Stat.	ATx631 x RTx436	ML	4716	84.2	56.1	12-Aug	41.5	4.3	14.4

**Table 7B (cont.). New Mexico 2008 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid	Maturity Class	Yield	Yield	Test Weight	Head Date	Plant Height	Head Exsertion	Moisture
			lb/a	bu/a	lb/bu		in.	in.	%
Dyna-Gro/UAP	DG 772B	M	4685	83.7	56.6	10-Aug	37.0	3.7	13.0
Sorghum Partners, Inc.	NK7829	ML	4633	82.7	57.5	21-Aug	38.7	3.8	12.4
Tx. Agri. Exp. Stat.	ATx399 x RTx430	ML	4630	82.7	54.1	12-Aug	35.0	1.4	12.5
Sorghum Partners, Inc.	NK 7633	ML	4624	82.6	55.5	14-Aug	36.6	4.6	12.6
Triumph Seed Co., Inc.	TRX02783	M	4587	81.9	58.3	14-Aug	36.1	4.5	12.4
DeKalb	DeKalb DK39Y	ME	4571	81.6	57.8	11-Aug	31.8	5.0	12.5
NC+ Hybrids Inc.	NC+ 6B50	ME	4502	80.4	56.6	16-Aug	35.0	3.1	12.6
Pioneer Hi-Bred Int'l	85G03	M	4470	79.8	56.6	21-Aug	39.0	2.2	13.2
NC+ Hybrids Inc.	NC+ 5B37	E	4292	76.7	59.0	16-Aug	31.1	2.5	12.5
DeKalb	DeKalb DK28E	E	4229	75.5	58.9	17-Aug	28.0	1.7	12.5
Sorghum Partners, Inc.	NK6638	M	4221	75.4	56.2	11-Aug	38.1	2.8	12.5
DynaGro Seed	DG 762B	M	4192	74.9	56.6	15-Aug	34.8	2.8	12.7
Sorghum Partners, Inc.	KS310	E	4139	73.9	58.5	17-Aug	29.1	2.9	12.3
DynaGro Seed	DG 754B	M	4052	72.4	57.7	14-Aug	33.6	2.2	12.8
DynaGro Seed	DG 758B	M	3728	66.6	53.5	14-Aug	37.8	2.5	13.7
Sorghum Partners, Inc.	SP3303	ME	3224	57.6	59.2	13-Aug	30.7	2.2	12.3
	Trial Mean		4927	88.0	57.6	15-Aug	34.8	3.0	12.7
	LSD		1124	20.1	1.8	NS	2.4	1.3	0.7
	LSD P >		0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV		14.0	14.0	2.0	2.3	4.3	27.6	3.2
	F Test		<0.0001	<0.0001	<0.0001	0.3535	<0.0001	<0.0001	<0.0001