

**New Mexico 2007 Full Irrigated Grain Sorghum Performance Test - Agricultural Science Center at Clovis**

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**Test Description**

**Location:**  
 County/Area: Curry  
 Longitude: -103.22  
 Latitude: 34.60  
 Elevation: 4435 ft.  
 Soil Name: Olton  
 Soil Texture: clay loam  
 Soil Depth: >60 in.

**Test Design:**  
 Replications: 4  
 Plot Length: 20 ft.  
 Rows per Plot: 2  
 Row Spacing: 30 in.  
 Seeding Rate: 128,000 seed/a

**Management Practices:**  
 Previous Crop: Wheat  
 Planting Date: 15-Jun  
 Harvest Date: 1-Nov

**Production Inputs**

	Rate	Date
<b>Fertilizer:</b>		
Nitrogen	110 lb/a	8-Jun
P <sub>2</sub> O <sub>5</sub>	50 lb/a	8-Jun
Zn	0.5 lb/a	8-Jun
<b>Herbicides:</b>		
Buccaneer	1 pt/a	3-May
HiDep	1 pt/a	3-May
Aatrex	2 pt/a	6-Jun
<b>Insecticides:</b>		
None		

**Growing Conditions:**

	Average Temp. °F	Precip. in.	Irrigation in.
January	29.5	0.9	
February	40.0	0.2	
March	49.0	3.7	
April	51.0	0.2	
May	66.0	2.4	
June	70.0	3.9	0.3
July	75.0	0.9	3.0
August	77.0	1.2	6.5
September	70.5	4.2	1.8
October	60.5	0.2	
November	46.5	0.1	
December	40.0	1.8	

Seasonal Precipitation: 19.7 in.  
 Total Irrigation: 11.6 in.

Date of Last Spring Frost: 26-Apr  
 Date of First Fall Frost: 22-Oct  
 Frost Free Period: 179 days

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Brand/Company Name	Hybrid/Variety Name	Grain Yield	Grain Yield	Moisture	Test Weight	Head Exertion	Heading Date
				at Harvest			
		bu/a	lb/a	%	lb/bu	in	
UAP	752 B	168.8	9455	11.6	60.2	4.6	16-Aug
NC+ Hybrids	NC+ 7B51	165.3	9258	12.5	60.5	5.4	15-Aug
UAP	780 B	158.6	8884	12.6	61.0	3.3	22-Aug
UAP	772 B	158.0	8849	11.9	61.0	6.1	11-Aug
NC+ Hybrids	NC+ 7R83	157.5	8819	12.1	60.3	7.2	16-Aug
NC+ Hybrids	NC+ 8R18	156.9	8787	12.6	61.1	8.3	19-Aug
DOW/Mycogen	737	150.4	8420	11.7	59.9	5.6	12-Aug
UAP	762 B	149.6	8379	11.6	60.0	5.2	9-Aug
UAP	71F90	149.4	8367	12.5	60.9	5.9	17-Aug
UAP	758 B	148.9	8336	12.0	60.8	5.9	14-Aug
DOW/Mycogen	1G600	148.3	8306	11.9	60.4	6.7	11-Aug
DOW/Mycogen	M3838	138.8	7773	11.4	60.2	6.7	8-Aug
DOW/Mycogen	627	136.2	7626	11.5	59.5	11.6	7-Aug
DOW/Mycogen	1G557	129.2	7234	11.1	59.8	5.6	6-Aug
	Trial Mean	151.1	8463.8	11.9	60.4	6.3	13-Aug
	LSD (P > 0.05)	15.5	870.0	0.4	0.9	1.3	1.6
	CV	7.2	7.2	2.2	1.1	14.8	0.5
	F Test	<0.0003	<0.0003	<0.0001	<0.0206	<0.0001	<0.0001