

Table 4A. New Mexico 2012 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis

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Test Description

Location:	Management Practices:	Growing Conditions:		
County/Area: Curry	Previous Crop: Fallow	Average		
Longitude: -103.22	Planting Date: 11-Jun	Temp.	Precip.	Irrigation
Latitude: 34.60	Harvest Date: 2-Nov	°F	in.	in.
Elevation: 4435 ft.		January		
Soil Name: Olton		February		
Soil Texture: clay loam		March		
Soil Depth: >60 in.		April		
		May	65.5	2.52
		June	75.9	1.31
		July	77.5	0.50
		August	76.0	1.86
		September	68.5	2.06
		October	57.0	0.43
		November		
		December		
		* Emergence and herbicide incorporation irrigations.		
		Seasonal Precipitation:	8.7 in.	
		Total Irrigation:	1.15 in.	
		Date of Last Spring Frost:	16-Apr	
		Date of First Fall Frost:	7-Oct	
		Frost Free Period:	174 days	

Test Design:

Replications: 3
 Plot Length: 20 ft.
 Rows per Plot: 2
 Row Spacing: 30 in.
 Seeding Rate: 29,000 seed/a

Notes:

Full soil moisture profile to start
 Cooler/less windy conditions than in 2011

Production Inputs			
	Rate	Date	
Fertilizer:			
Nitrogen	27 lb/a	Carryover	
Nitrogen	60 lb/a	11-Jun	
P ₂ O ₅	30 lb/a	11-Jun	
S	9 lb/a	11-Jun	
Zn	1 lb/a	11-Jun	
Herbicides:			
Aatrex	2 pts/a	13-Jun	
Me-too-lachlor	1.33 pts/a	13-Jun	
Insecticides:			
None			

Table 4B. New Mexico 2012 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid	Maturity Class	Head Date	Plant Height in.*	Head Exertion in.**	Moisture %	Yield lb/A	Yield bu/A	Test Weight lb/bu
Tx. Agri. Exp. Stat.	ATx2752 x RTx430	ML	20-Aug	30.4	0.7	12.0	4839	86.4	54.7
B-H Genetics	B-H 5566	M	15-Aug	28.5	1.7	11.2	4578	81.7	58.1
B-H Genetics	B-H 3822	M	12-Aug	30.4	3.2	10.5	4506	80.5	57.8
Triumph Seed Co. Inc.	TR 4941	ML	17-Aug	26.5	2.2	11.8	4503	80.4	58.3
Terral Seed	RV9823	ML	20-Aug	31.8	3.3	12.1	4487	80.1	57.2
Triumph Seed Co. Inc.	TRX85131	ML	18-Aug	29.4	3.8	12.9	4430	79.1	56.5
Monsanto Company	DeKalb DKS37-07	ME	9-Aug	25.9	2.0	9.8	4233	75.6	58.9
Pioneer Hi-Bred Int., Inc	85Y40	M	13-Aug	28.6	1.1	10.5	4200	75.0	59.1
Terral Seed	RV 9782	M	10-Aug	26.0	1.7	10.4	4180	74.6	59.1
Terral Seed	RV 9803	M	15-Aug	28.3	2.2	10.8	4174	74.5	57.7
Pioneer Hi-Bred Int., Inc	85G03	M	15-Aug	27.0	2.4	10.5	4090	73.0	59.0
B-H Genetics	B-H 5350	ME	15-Aug	26.4	2.0	10.5	4086	73.0	54.1
Tx. Agri. Exp. Stat.	ATx399 x RTx430	ML	16-Aug	28.0	1.4	11.1	4070	72.7	53.6
Terral Seed	RV 9562	ME	11-Aug	26.4	3.2	10.0	4056	72.4	59.7
Terral Seed	RV9883	ML	17-Aug	30.2	3.0	10.9	4044	72.2	57.6
Pioneer Hi-Bred Int., Inc	86G32	ME	4-Aug	27.2	0.0	10.1	4025	71.9	58.0
Pioneer Hi-Bred Int., Inc	85G01	M	10-Aug	26.6	0.5	10.2	3962	70.7	58.5
Monsanto Company	DeKalb DKS44-20	M	9-Aug	28.4	0.9	10.3	3921	70.0	60.0
B-H Genetics	B-H 3808	E	10-Aug	25.2	3.4	9.6	3796	67.8	58.6
Triumph Seed Co. Inc.	TR 4951	ML	21-Aug	27.3	4.1	10.8	3756	67.1	55.3
Pioneer Hi-Bred Int., Inc	85G46	M	10-Aug	26.5	1.7	10.2	3616	64.6	60.3
Monsanto Company	Asgrow Pulsar	ME	3-Aug	23.6	2.1	9.8	3601	64.3	59.1
Triumph Seed Co. Inc.	TR 438	ME	6-Aug	25.1	2.9	9.8	3527	63.0	58.2
Triumph Seed Co. Inc.	TR 457	M	12-Aug	26.8	0.5	10.8	3519	62.8	56.5
Triumph Seed Co. Inc.	TR 448	ME	8-Aug	26.2	2.6	10.0	3515	62.8	58.5
Tx. Agri. Exp. Stat.	ATx631 x RTx436	ML	18-Aug	31.9	3.8	11.0	3495	62.4	56.8
B-H Genetics	B-H 5224	ME	10-Aug	26.5	2.0	9.8	3467	61.9	59.2
Monsanto Company	DeKalb DKS28-05	E	2-Aug	23.9	0.4	9.0	3297	58.9	58.3
Tx. Agri. Exp. Stat.	ATx378 x RTx430	ML	23-Aug	28.5	1.3	12.7	3265	58.3	52.9
Monsanto Company	DeKalb DKS29-28	E	1-Aug	21.8	0.5	9.4	3144	56.1	58.5
	Trial Mean		12-Aug	27.3	2.0	10.6	3946	70.5	57.7
	LSD			2.5	1.5	0.6	539	9.6	2.0
	LSD P >			0.05	0.05	0.05	0.05	0.05	0.05
	CV			0.7	7.5	45.8	8.4	8.4	2.2
	F Test			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

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

** High variability and limited head exertion due to extreme growing conditions.