



## **Dryland Grain Sorghum Variety Trial – 2007**

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LOCATION: Texas Agricultural Experiment Station, Bushland, TX

SOIL TYPE: Pullman clay loam

ROW WIDTH: 30 PREVIOUS CROP: Wheat

LAND PREPARATION: Disked, bedded

DATE PLANTED: 6-25-07 with cones mounted on a 7100-flex planter

PLANT POPULATION: Seeds were packaged to obtain a final plant population between 25-

30,000 plants per acre

PLOT LENGTH: Two rows 25'

FERTILIZER: None

HERBICIDE: 6-27-07: 2 pt/A of Atrazine 4EC

INSECTICIDE: None

RAINFALL: June= .71", July= 1.44", Aug.= 2.47", Sept.= 1.68", Oct. = .39",

Total: 6.69"

IRRIGATIONS: Pre- irrigated on 5-26-07
DATE HARVESTED: 10-30-07 – Hand harvest
SIZE HARVESTED PLOT: One 30" row x 10'

TEST DESIGN: Randomized complete block

NUMBER ENTRIES: 30 NUMBER REPLICATIONS: 3 NUMBER ROWS/PLOT: 2

TEST MEAN: 3,588 lb/A TEST C.V.: 22.5%

## **COMMENTS:**

This was the first year a dryland grain sorghum performance test was planted in this area under the auspices of the Crop Testing Program. Overall the trial was representative of grain sorghum yields around the area. No insect or significant disease infestations were observed in the trial. Variability between replications was high probably due to poor distribution of seed within the plot. Skips were observed in some of the plots. Grain moisture was not collected on each individual hybrid; however, several hybrids tested at random had 9% moisture.

The same trial was duplicated at Lubbock, Texas and Clovis, New Mexico.

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	Company				Days			
	or	Maturity	Grain	Plant	to			
Hybrid	Brand	Class	Color	Color	50%	%	Yield	Yield
	Name	(1)	(2)	(3)	Flower	Lodge	lb/ac	bu/A
NK7633	Sorghum Partners, Inc.	ML	ΒZ	Р	59	0.0	4,685	83.7
TR458	Triumph Seed Co., Inc.	M	R	Р	59	8.3	4,660	83.2
NC+ 7C22	NC+ Hybrids Inc.	М	CT	Р	57	10.0	4,249	75.9
ATx399 x RTx430	Tx. Agri. Exp. Stat.	ML	BZ	Р	58	5.0	4,177	74.6
DKS37-07	DeKalb	ME	BZ	Р	57	0.0	4,153	74.2
TR459	Triumph Seed Co., Inc.	М	BZ	Р	58	0.0	4,087	73.0
DG 758B	DynaGro Seed	М	ΒZ	Р	60	0.0	4,032	72.0
Pulsar	Pulsar	Е	BZ	Р	57	0.0	3,950	70.5
NK7829	Sorghum Partners, Inc.	ML	BZ	Р	60	3.3	3,909	69.8
NC+ 6B50	NC+ Hybrids Inc.	ME	BZ	Р	57	0.0	3,888	69.4
NK5418	Sorghum Partners, Inc.	М	BZ	Р	57	26.7	3,850	68.8
DG 754B	DynaGro Seed	М	BZ	P	58	0.0	3,817	68.2
TR438	Triumph Seed Co., Inc.	ME	BZ	P	54	30.0	3,795	67.8
DK44	DeKalb	М	BZ	P	58	6.7	3,785	67.6
SP3303	Sorghum Partners, Inc.	ME	CT	Т	57	1.7	3,654	65.3
ATx631 x RTx436	Tx. Agri. Exp. Stat.	ML	W	Т	60	0.0	3,567	63.7
85Y40	Pioneer Hi-Bred Int., Inc.	М	W	R	57	6.7	3,516	62.8
KS585	Sorghum Partners, Inc.	М	BZ	Р	56	0.0	3,482	62.2
NC+ 5B89	NC+ Hybrids Inc.	E	BZ	P	57	3.3	3,398	60.7
KS310	Sorghum Partners, Inc.	Ē	BZ	Р	53	0.0	3,283	58.6
85G46	Pioneer Hi-Bred Int., Inc.	М	R	R	57	10.0	3,272	58.4
NK6638	Sorghum Partners, Inc.	М	BZ	Р	61	5.0	3,103	55.4
DG 762B	DynaGro Seed	М	BZ	P	57	0.0	3,083	55.1
NC+ 5B37	NC+ Hybrids Inc.	E	BZ	P	54	0.0	3,062	54.7
86G08	Pioneer Hi-Bred Int., Inc.	ME	R	R	57	3.3	3,058	54.6
NK4420	Sorghum Partners, Inc.	ME	BZ	Р	57	0.0	2,994	53.5
DKS29-28	DeKalb	E	BZ	Р	54	13.3	2,936	52.4
TR463	Triumph Seed Co., Inc.	M	R	Р	61	0.0	2,884	51.5
	Tx. Agri. Exp. Stat.	ML	BZ	Р	59	3.3	2,882	51.5
ATx378 x RTx430	Tx. Agri. Exp. Stat.	ML	BZ	Р	61	0.0	2,424	43.3
Mean	,					4.56	3,588	64.1
C.V.						241.60	23	22.5
L.S.D05						17.90	1,318	23.5
Standard Deviation						11.00	807	14.4
Treatment Prob (F)						0.14	0.1354	0.1354
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