

Non-Irrigated and Irrigated Grain Sorghum Performance at the Northeast Research Station – St. Joseph

Location Summary

In the non-irrigated trial, grain yields ranged from 5,249 lb/a for Monsanto MSD477 to 6,952 lb/a for Pioneer brand 84G62, with a trial average of 6,131 lb/a (Table 5). Sixteen hybrids had two-year averages, with an average grain yield of 6,064 lb/a. In the irrigated trial, grain yields ranged from 5,810 lb/a for Monsanto MSD472 to 7,329 lb/a for Dekalb DKS54-00 (Table 6). Sixteen hybrids had two-year averages, with an average grain yield of 6,557 lb/a. Rainfall was only 0.38 inches in June and 4.6 inches in July (see below). There were four furrow irrigations, June 8, June 23, July 14 and August 2, applied in the irrigated trial.

Soil Type.....	Sharkey clay
Row Spacing.....	40 inches
Seeding Rate.....	8 seed/ft
Fertilization.....	
Sidedress.....	120 lb N/a
Herbicides.....	
Atrazine @ 1 qt/a + Dual @ 1 pt/a	
on 5/22	
Insecticides.....	
Karate EC @ 4 oz/a (two applns. @	
heading)	
Previous Crop.....	Soybean
Planting Date.....	May 18
Harvest Date.....	August 30

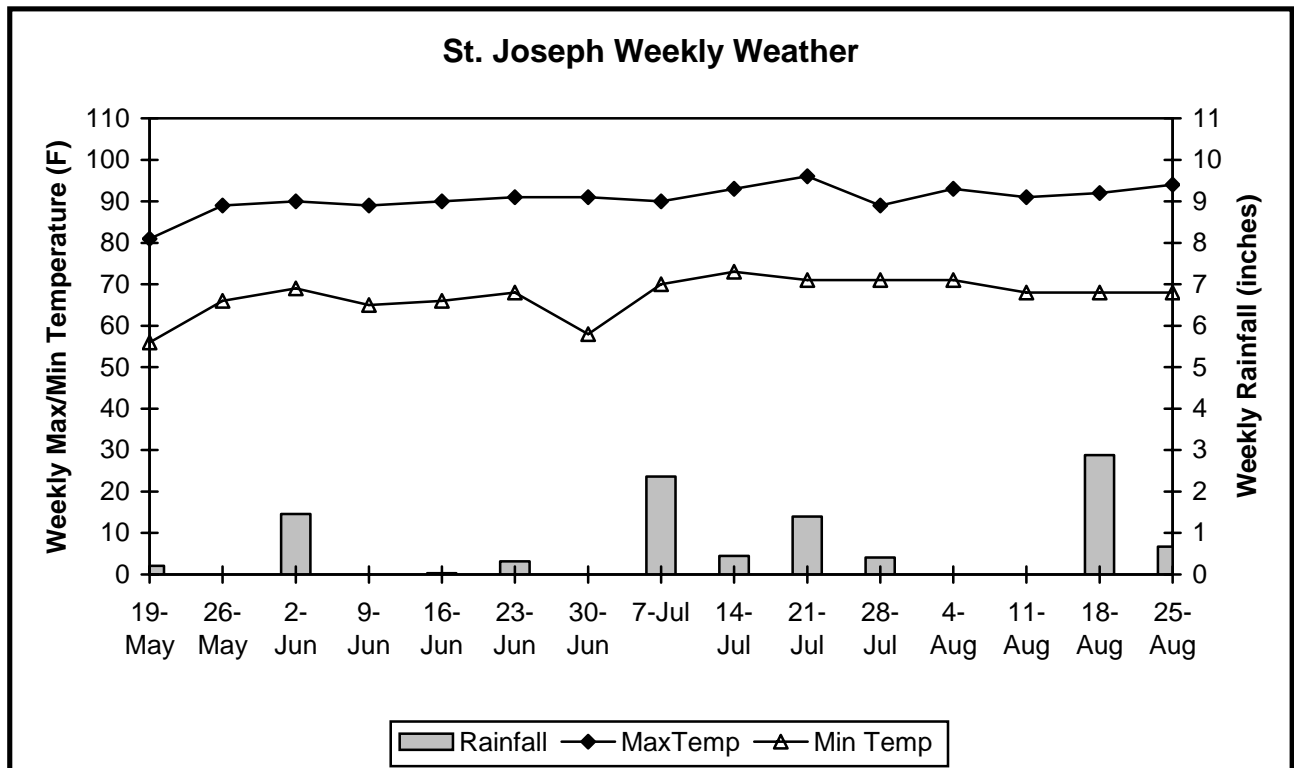


Table 5 . Performance of hybrids in the non-irrigated grain sorghum hybrid performance trial at the Northeast Research Station at St. Joseph, La., 2006.

Brand/hybrid	Yield		Gr mo	Test wt	Mid-head	Pt ht	Head type	Head exer
	2006	2-yr avg						
	-----lb/acre-----		%	lb/bu	DAP	in	0-5	in
Pioneer brand 84G62	6,952	6,779	17.3	57.3	54	52	3.0	4
Monsanto MSC432	6,855	-	17.1	50.9	54	54	3.0	6
Dekalb DKS54-00	6,733	6,892	17.6	54.8	56	54	3.0	7
Terral TV96H81	6,676	5,802	15.8	55.8	53	53	2.0	3
Golden Acres Genetics GA3827	6,595	6,648	16.4	56.7	52	53	3.5	6
Dyna-Gro DG780B	6,379	5,160	16.0	57.4	56	54	2.0	4
NC+ 7B51	6,308	-	14.5	55.4	51	51	3.0	4
Dekalb DKS37-07	6,300	-	15.9	55.2	51	51	3.0	5
Asgrow A571	6,285	6,537	17.1	50.5	53	55	2.5	7
NC+ 7R83	6,263	6,450	15.9	52.1	54	51	2.5	7
Terral TV9421	6,148	6,246	16.3	53.7	51	54	4.0	7
Dyna-Gro DG751B	6,062	5,344	15.8	53.5	53	54	2.0	4
Terral TV 1050	6,029	6,054	15.3	53.1	55	51	2.0	3
Garst 5515	5,994	6,018	14.9	53.8	51	46	3.5	6
Golden Acres Genetics GA444E	5,966	6,247	15.8	53.8	52	54	3.5	6
Garst 5401	5,823	5,530	16.0	53.9	52	58	3.0	6
Monsanto MSD472	5,810	-	15.6	53.6	50	46	3.5	5
Terral TV 93S72	5,732	5,992	16.8	52.9	52	51	3.0	8
Terral TVX96H91	5,729	5,971	17.6	55.0	52	56	3.5	7
Garst 5360	5,728	-	15.8	55.2	52	50	2.0	8
Dyna-Gro DG762B	5,261	5,356	15.8	50.5	50	53	3.0	4
Monsanto MSD477	5,249	-	15.7	56.3	50	54	4.0	8
Average	6,131	6,064	16.1	54.1	52	52	3.0	5
CV, %	8	-	5	4	2	5	15	32
LSD (0.10)	598	-	1.3	3.2	1	4	1.0	3

Table 6. Performance of hybrids in irrigated grain sorghum hybrid performance trial at the Northeast Research Station at St. Joseph, La., 2006.

Brand/hybrid	Yield		Gr mo %	Test wt lb/bu	Mid- head DAP	Pl ht in	Head type 0-5	Head exer in
	2006 -----lb/acre----	2-yr avg						
Dekalb DKS54-00	7,329	7,389	15.3	53.1	54	56	3.0	6
Dyna-Gro DG751B	6,956	6,268	14.2	56.0	54	55	2.5	3
Monsanto MSC432	6,863	-	14.6	54.8	56	60	3.0	7
Garst 5360	6,847	-	15.1	54.4	52	55	2.5	5
Terral TV 9421	6,841	6,729	13.6	54.9	52	55	4.0	5
Golden Acres Genetics GA444E	6,791	6,870	13.8	54.8	51	55	3.5	6
Golden Acres Genetics GA3827	6,664	6,900	14.6	57.5	51	57	3.5	7
NC+ 7R83	6,633	6,725	14.8	52.5	52	55	3.0	4
Terral TV93S72	6,580	6,577	14.2	52.9	52	51	3.0	6
Asgrow A571	6,571	6,885	13.9	53.6	53	54	3.0	6
Dyna-Gro DG780B	6,547	5,641	14.6	58.4	56	57	1.5	1
Terral TV96H81	6,529	6,164	14.8	56.1	53	58	2.0	2
Garst 5401	6,496	6,339	14.2	58.5	53	57	3.0	6
NC+ 7B51	6,490	-	13.4	54.3	50	53	4.0	5
Terral TVX96H91	6,488	6,816	14.8	59.0	51	56	3.5	6
Pioneer brand 84G62	6,282	6,613	13.8	59.4	54	51	3.0	1
Monsanto MSD477	6,212	-	14.4	58.3	50	58	3.5	8
Dekalb DKS37-07	6,197	-	14.6	57.4	50	52	3.5	5
Dyna-Gro DG762B	6,188	6,350	14.2	54.5	51	59	3.5	7
Terral TV1050	6,186	6,589	13.2	55.8	54	55	2.5	1
Garst 5515	6,019	6,064	13.2	55.3	50	51	3.5	5
Monsanto MSD472	5,810	-	13.4	53.0	49	49	3.5	4
Average	6,523	6,557	14.2	55.6	52	55	3.0	5
CV, %	5	-	4	3	2	5	11	282
LSD (0.10)	371	-	0.9	2.5	1	4	0.5	2