

Grain Sorghum Performance at the Macon Ridge Branch of the Northeast Research Station – Winnsboro

Location Summary

Grain yields ranged from 3,444 lb/a for Monsanto MSD477 to 4,843 lb/a for Terral TVX96H91 (Table 7). There were sixteen hybrids with two-year averages, with an average grain yield of 3,489 lb/a. There was an obvious drought stress during the early grain fill period. Rainfall was high in early May but dropped off in late May, with only 1.8 inches of rain in June. Head exertion was low, ranging from 0 to 7 inches, indicating moisture stress during grain development. Even though grain sorghum is relatively tolerant to drought stress, the shallow Macon Ridge soils are drought-prone, and yields are reduced in some years due to lack of adequate soil moisture during critical growth stages.

Soil Type.....Gigger silt loam
 Row Spacing.....40 inches
 Seeding Rate.....8 seed/ft
 Fertilization
 Sidedress.....80 lb N/acre
 Herbicides.....
 Pre: Atrazine @ 1 qt/a + Dual @ 1 pt/a
 Insecticides.....
 Baythroid@ 2 oz/a (three applns@ heading)
 Previous Crop.....Cotton
 Planting Date.....April 27
 Harvest Date.....August 28

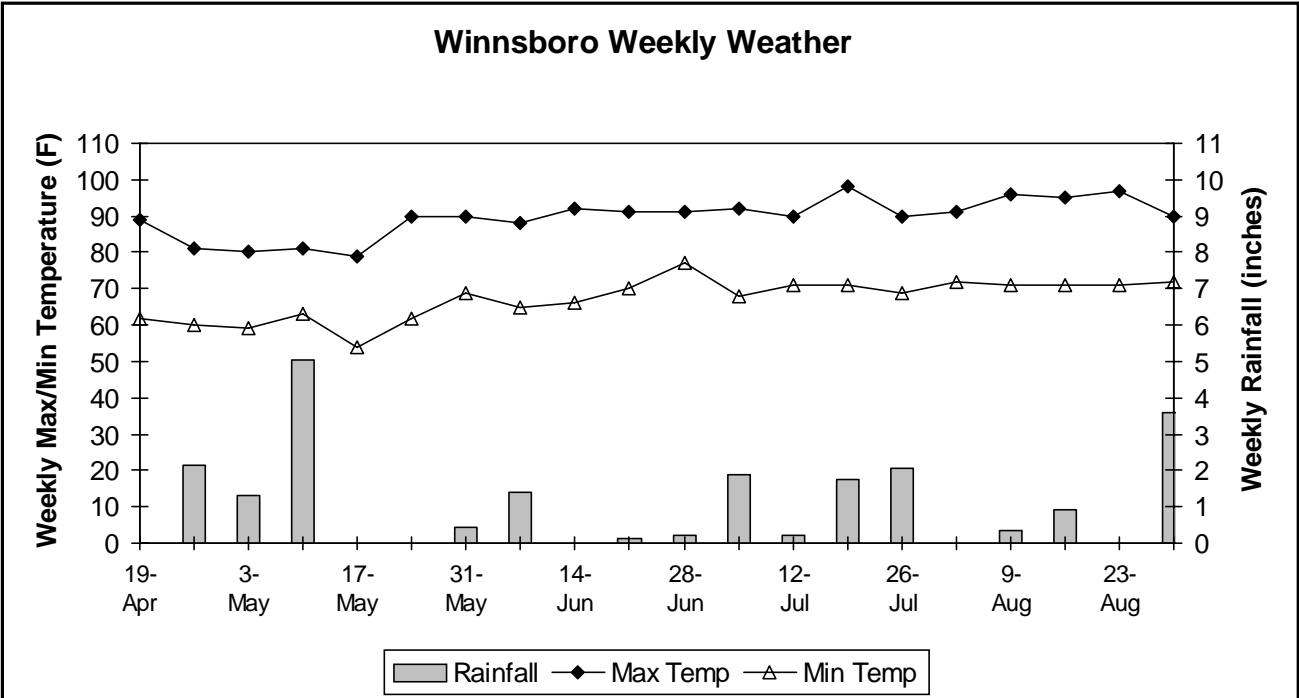


Table 7. Performance of hybrids in grain sorghum hybrid performance trial at Macon Ridge Research Station at Winnsboro, La., 2006.

Brand/hybrid	Yield		Gr mo	Test wt	Mid-head	Pl ht	Head type	Head exert
	2006	2-yr avg						
	-----lb/acre----		%	lb/bu	DAP	in	0-5	in
Terral TVX96H91	4,843	4,368	17.0	57.1	70	43	4.0	6
Golden Acres Genetics GA3827	4,594	4,289	18.3	56.6	71	42	4.5	7
Dekalb DKS37-07	4,429	-	16.6	53.6	68	36	3.0	4
Pioneer brand 84G62	4,348	3,718	17.1	53.7	70	38	3.5	0
Asgrow A571	4,320	3,749	18.1	54.1	69	38	3.0	4
Dekalb DKS 54-00	4,287	3,513	18.7	50.7	77	44	3.0	4
NC+ 7R83	4,273	3,650	18.6	49.9	70	37	3.0	4
Garst 5515	4,256	3,420	16.4	55.3	69	38	4.0	4
NC+ 7B51	4,091	-	15.8	51.5	68	38	3.0	3
Terral TV96H81	3,988	3,357	17.2	54.9	71	40	2.0	3
Terral TV93S72	3,983	3,324	19.1	51.6	69	34	3.0	4
Dyna-Gro DG780B	3,922	3,118	16.8	57.5	73	43	1.0	3
Terral TV1050	3,864	3,237	17.0	54.0	72	40	2.5	4
Monsanto MSD472	3,768	-	16.8	52.9	68	33	2.5	1
Garst 5401	3,723	3,260	16.7	57.7	69	41	3.0	6
Terral TV9421	3,720	3,294	17.1	51.8	69	35	3.5	2
Monsanto MSC432	3,699	-	17.4	55.3	77	47	3.0	3
Dyna-Gro DG762B	3,647	3,159	17.4	51.3	69	37	2.5	3
Dyna-Gro DG751B	3,637	3,237	18.1	53.3	73	41	2.5	3
Garst 5360	3,571	-	19.1	52.4	71	35	2.5	4
Golden Acres GA444E	3,501	3,135	18.4	51.5	69	36	3.5	3
Monsanto MSD477	3,444	-	17.6	54.6	68	39	3.5	4
Average	3,996	3,489	17.5	53.7	70	39	3.0	3
CV, %	12	-	5	3	2	3	12	39
LSD (0.10)	641	-	1.6	3.0	1	2	0.5	2