

Grain Sorghum Performance at the Macon Ridge Research Station Winnsboro

Location Summary

Grain yields ranged from 2,227 to 4,555 lb/a with a trial average of 3,415 lb/a (Table 6). The low yields were probably due to the extremely low rainfall in June (see weather chart below) on this shallow, drought-prone soil. The very dry conditions during grain fill were born out by the lack of head exertion. Across the trial, heads emerged an average of only 2 inches above the flag leaf. There were six hybrids that fell in the highest-yielding group for 2010 and three hybrids did well both years, 2009 and 2010.

Soil Type.....Gigger silt loam
 Row Spacing.....40 inches
 Seeding Rate.....6-7 seed/ft
 Planting Date:.....April 17
 Previous Crop.....Grain Sorghum
 Fertilization.....
 Preplant: 25 lb/a P₂O₅, 60 lb/a K₂O (Mar 15)
 Sidedress: 30-0-0-2 @ 100 lb N/a (5/22)
 Herbicides.....
 Preemerg: Atrazine @ 1 qt/a, Dual @ 1 pt/a;
 Postemerg: Atrazine @ 1 qt/a;
 Insecticides...Prolex @ 2 oz/a (6/25 & 6/30);
 Brigade @ 5 oz/a, Intrepid @ 6 oz/a (7/24);
 Karate @ 2 oz/a (8/4);
 Harvest Date.....August 19

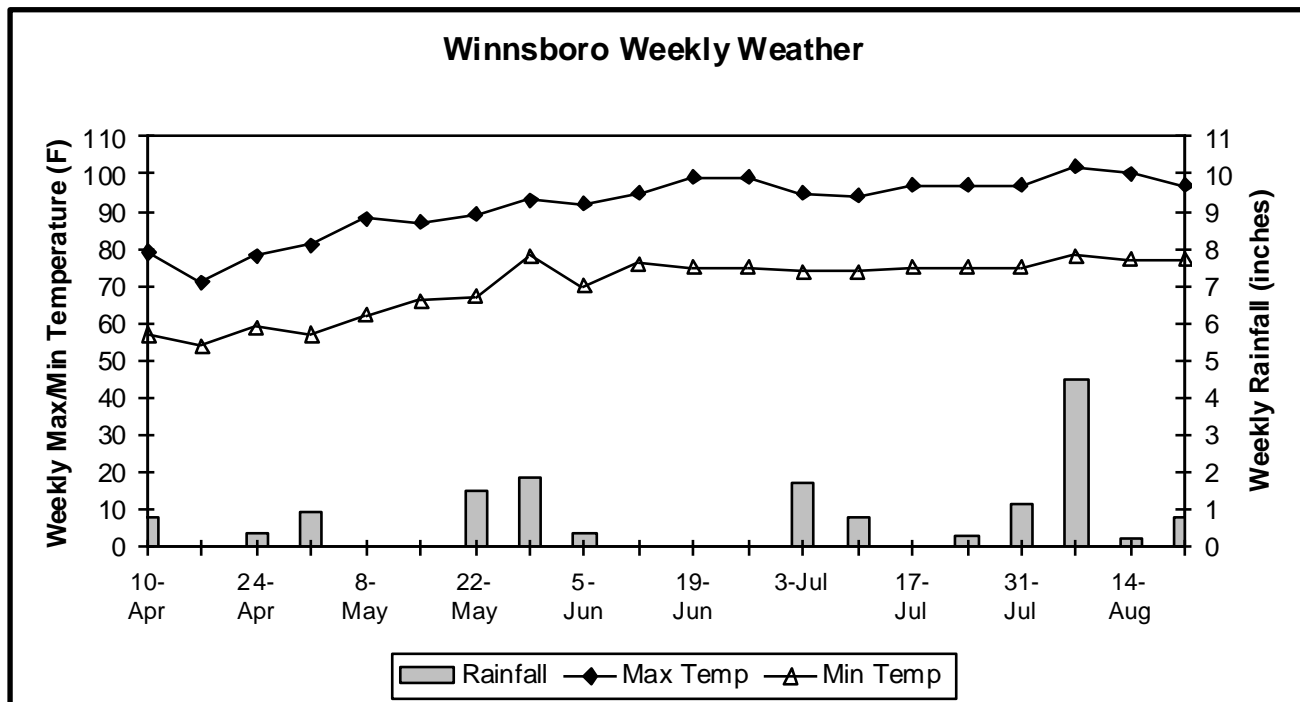


Table 6. Performance of grain sorghum hybrids at Winnsboro, 2010.

Brand/hybrid	2010 Yield ¹	2-Year avg ²	GrMo	Mid- head	Plant ht	Head exert	Midge
	lb/a	lb/a	%	DAP	in	in	%
Dekalb DKS53-67*	4,555	5,170	16.0	57	42	2	0
Dekalb DKS49-45	4,459	-	15.5	57	46	2	0
Pioneer 83P17	4,289	-	17.1	60	47	2	0
Pioneer 84G62*	4,277	5,215	14.7	56	46	3	0
Dekalb DKS54-00*	3,897	4,760	16.5	61	44	3	0
Dyna-Gro 771B	3,879	4,286	15.8	57	42	3	10
Dyna-Gro 780B	3,799	4,117	16.6	58	47	2	0
Terral TV96H91	3,488	4,438	15.1	58	43	3	0
Terral TV9421	3,440	4,249	14.6	57	42	2	15
Dyna-Gro 751B	3,210	3,998	16.6	58	44	3	5
Terral TV96H81	2,978	4,340	15.7	57	44	3	0
Syngenta 5464	2,967	-	15.2	58	41	3	5
Terral TV96H95	2,913	4,168	15.6	57	43	2	10
Golden Acres 3696	2,896	4,194	15.5	58	42	1	5
Dekalb DKS54-03	2,377	3,618	14.7	62	43	3	5
Syngenta 5556	2,227	-	14.7	59	38	2	10
Golden Acres 3566	2,227	-	15.4	56	43	2	0
Average	3,415	.	15.6	58	43	2	5
CV, %	18	.	5	3	5	40	265
LSD (0.10)	723	.	0.9	2	3	1	NS

¹Yields in bold denote hybrids that are in the highest-yielding group in 2010.

²Hybrids in bold with an asterisk (*) were in the highest-yielding group in both years, 2009 and 2010.