

## **Performance of Grain Sorghum Hybrids in Louisiana, 2008**

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Performance of grain sorghum hybrids is annually evaluated by Louisiana Agricultural Experiment Station (LAES) researchers. The purpose of these trials is to provide to Louisiana growers, seedsmen, county agents of the Louisiana Cooperative Extension Service (LCES), and other interested individuals and organizations with unbiased performance data for commercial grain sorghum hybrids submitted for evaluation by private agencies. Results from these trials are used by the LCES for recommending hybrids.

The cooperating LAES units in 2008 were: Dean Lee Research Station, Alexandria; Central Research Station, Baton Rouge; Red River Research Station, Bossier City; Rice Research Station, Crowley; Northeast Research Station, St. Joseph; and Macon Ridge Research Station, Winnsboro.

### **PROCEDURES**

In 2008, 26 grain sorghum hybrids were entered in the LAES yield trials. Soil type, cultural practices, location summaries, and weather graphs are listed prior to data tables for each location. In weather graphs, maximum and minimum temperatures are weekly averages and rainfall weekly totals. Trials were not irrigated, except at St. Joseph, where both irrigated and non-irrigated trials were conducted. Seed were treated with Concept and Gaucho and recommended LSU AgCenter cultural practices were followed at each location.

The experimental design at each location was a randomized complete block design with four replications. Traits measured and rating scales are listed in Table 1. Analysis of variance and least significant differences (LSD) were computed using SAS (Statistical Analysis System). We used the protected F-test, which means LSD's were calculated only if

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differences among hybrids existed at the 90% confidence level. If differences were significant, an LSD at the 10% probability level was calculated. If the LSD (0.10) for yield in a trial is 400 lb/acre, there is a 10% chance that two hybrids with a reported yield difference of 400 lb/acre are genetically equal and a 90% probability they have differences in genetic potential in that particular environment. LSD values are influenced by how well soil fertility, stand establishment, plot length, harvest efficiency, and other variables are controlled and by number of replications. The letters NS are used in the text and tables to indicate lack of significance (**not significantly different**) at the 10% probability level. The coefficient of variation (CV) reflects the magnitude of experimental error (random variation not accounted for by hybrids and replications) in relation to the trial mean. A high CV means that relative differences among hybrids were not consistent among replications, which reduces the precision of a test.

The highest-yielding hybrids are listed in bold print in the “2008 Yield” column in each table. The highest-yielding hybrids for both 2007 and 2008 are also listed in bold print and are marked with an asterisk in the “2-Yr avg” column in each table. These hybrids were determined using the LSD (0.10) values.

Table 1. Traits and rating scales for LAES grain sorghum performance trials.

<b>Trait</b>	<b>Abbreviation</b>	<b>Description</b>
Yield	Yield	Grain yield, lb/a
Grain moisture	Grain moist	Grain moisture at harvest, %
Test weight	Test wt	Volume weight of grain, lb/bu
Heading date	Head date	Date of head emergence in 50% of plants, days after planting (DAP)
Plant height	Plant ht	Plant height from ground to top of head, inches
Head exertion	Head exert	Distance between flag leaf and base of head, inches
Head type	Head type	Head type is a measure of head architecture, with ratings of 1-5; 1-compact, 3-intermediate, and 5-open
Foliar diseases	Dis	Rating of symptoms on foliage and stems; where a ‘0’ indicates none and a ‘9’ indicates severe symptoms.
Bird damage	Bird	Average percent (%) of head damaged

## RESULTS

Yield data and other agronomic data for each location are presented in Tables 2-6. A location summary, soil type, cultural practices and weather information are listed prior to data tables for each location. Yield summary across Louisiana for 2008 is presented in Table 7 and participating seed companies are listed in Table 8. Data from the trials at the Dean Lee Research Station at Alexandria and the Macon Ridge Research Station at Winnsboro were not

reported due to inclement weather conditions during the growing season. Only two of four replications were harvested in the non-irrigated and irrigated trials on the Sharkey silty clay at St. Joseph due to the extremely wet conditions in August and early September.

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## Grain Sorghum Performance at the Central Research Station - Baton Rouge

### Location Summary

Grain yields were excellent, ranging from 5,919 lb/a for Dyna-Gro DG778B to 9,297 lb/a for Pioneer brand 82G10 (Table 2). Nineteen of 26 hybrids had yields greater than 8,000 lb/a. The trial average was 8,170 lb/a. There were three hybrids in 2008 and one hybrid for 2007 and 2008 that were considered highest yielding hybrids (bolded in table). Even though June rainfall was relatively low (see below), high May rainfall probably helped maintain adequate soil moisture during critical growth stages on this Mississippi River alluvial soil. Test weights averaged only 53.2 lb/bu, ranging from 47.7 lb/bu for Terral TV9421 to 59.0 lb/bu for Dyna-Gro DGGX08170 (Table 2).

Soil Type.....Commerce sandy loam  
 Row Spacing.....30 inches  
 Seeding Rate.....5 seed/ft  
 Fertilization.....100/15/15 (5/14)  
 Herbicides.....Pre: Trizmet @ 2 qt/a  
 Insecticides.....Karate Z @ 1 oz/a (7/1/08)  
 Previous Crop.....Soybean  
 Planting Date.....April 24  
 Harvest Date.....August 21

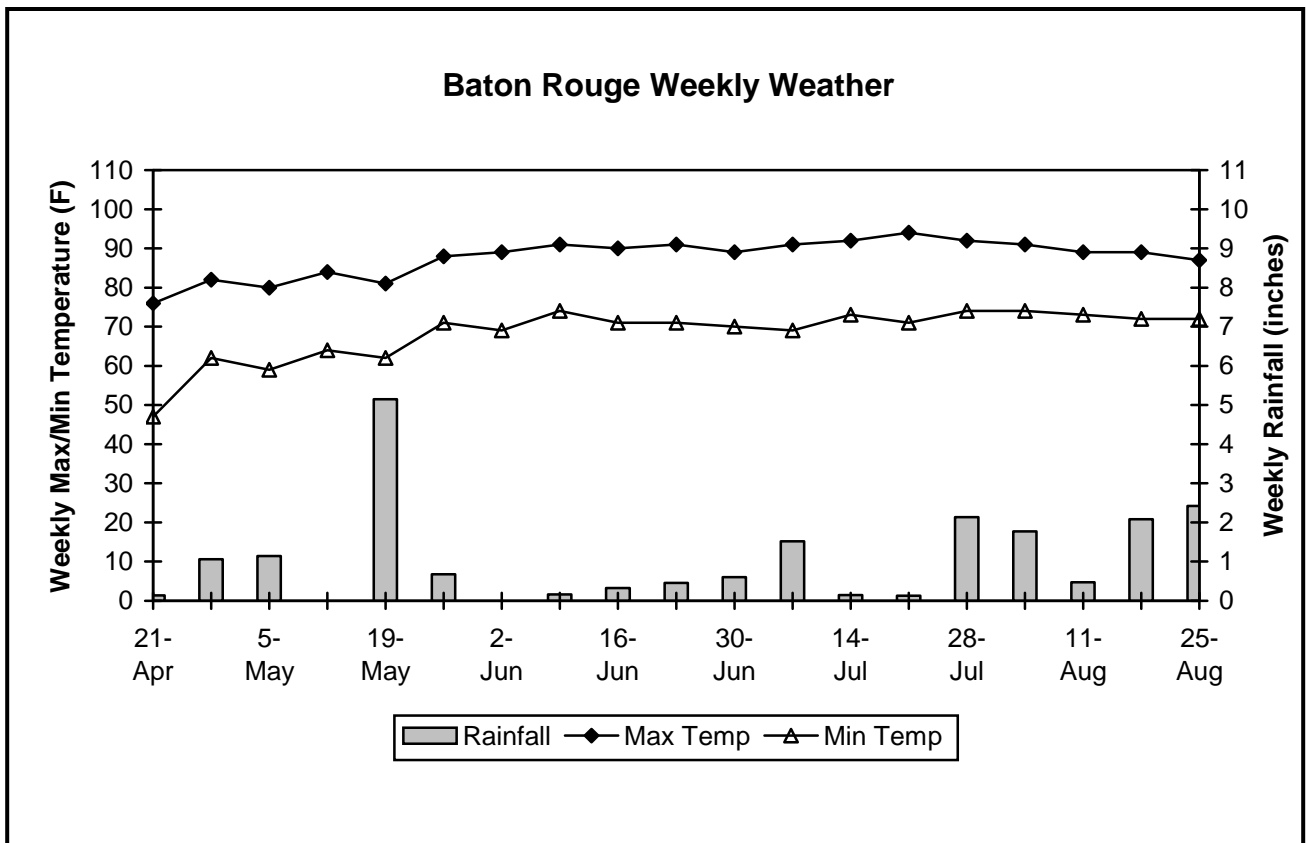


Table 2. Grain sorghum hybrid performance trial at Baton Rouge, 2008.

Brand/hybrid	2008 Yield <sup>1</sup>	2-Yr avg <sup>2</sup>	Grain moist <sup>3</sup>	Test wt	Plant ht
	-----lb/a-----		%	lb/bu	inches
<b>Pioneer brand 82G10</b>	<b>9,297</b>	-	13.4	56.3	61
<b>Dyna-Gro DGGX08170</b>	<b>9,083</b>	-	14.8	59.0	59
<b>Dyna-Gro DG751B</b>	<b>8,836</b>	<b>7,771*</b>	12.9	53.9	61
Dekalb DKS53-67	8,731	7,878	14.7	57.8	59
Terral TV94S91	8,617	-	13.4	54.5	56
Pioneer brand 84G62	8,499	7,581	13.8	56.9	58
Golden Acres 3552	8,443	-	13.7	54.9	55
Dyna-Gro DG780B	8,430	7,509	13.5	56.4	62
Terral TV96H81	8,407	7,506	13.3	54.1	60
Pioneer brand 83G66	8,397	-	14.1	56.0	60
Terral TV1050	8,392	7,384	11.3	49.4	59
NC+ 7R83	8,301	7,202	13.1	50.0	59
Terral TV93S72	8,273	7,192	12.1	49.9	51
Garst 5464	8,224	-	12.9	53.1	60
NC+ 8R18	8,213	7,303	13.4	52.3	63
Dekalb DKS54-00	8,176	7,565	13.6	52.6	60
Terral TV96H91	8,147	7,177	14.0	57.1	56
Terral TV9421	8,108	7,347	11.7	47.7	57
Dyna-Gro DGGX07664	8,062	-	11.7	50.8	49
Dyna-Gro DG758B	7,990	7,190	13.9	53.2	55
Garst 5515	7,861	-	12.8	52.8	54
Asgrow A571	7,655	6,944	12.8	49.9	57
Dekalb DKS54-03	7,633	-	12.7	51.0	60
Dyna-Gro DGGX07163	7,406	-	13.1	50.8	57
Golden Acres 3696	7,317	-	13.0	50.4	56
Dyna-Gro DG778B	5,919	-	14.2	54.7	67
Average	8,170	-	13.2	53.2	57.9
CV, %	5	-	4	1	2
LSD (0.10)	491	-	0.7	0.8	2

<sup>1</sup>Hybrids in bold are the highest yielding for this location in 2008.

<sup>2</sup>Hybrids in bold with an asterisk (\*) are the highest yielding in both 2007 and 2008.

<sup>3</sup>Grain was dried overnight to a relatively constant moisture before taking grain moisture, test weight, and plot grain weight.

## Grain Sorghum Performance at the Red River Research Station – Bossier City

### Location Summary

Grain yields were good, ranging from 4,991 lb/a for Dyna-Gro DG778B to 6,845 lb/a for Pioneer brand 82G10 with a trial average of 6,254 lb/a (Table 3). Twenty of the twenty-six hybrids had yields greater than 6,000 lb/a. There were eight hybrids in 2008 and two hybrids for 2007 and 2008 that were considered highest-yielding hybrids (bolded in table). The lowest yielding hybrid Dyna-Gro DG778B (4,991 lb/a) was also the latest maturing, based on the highest harvest grain moisture (19.1%) and late heading date (68 DAP). Test weights were excellent, ranging from 57.7 lb/bu for NC+7R83 to 60.6 lb/bu for Dyna-Gro DGGX08170.

Soil Type.....	Norwood sandy loam
Row Spacing.....	40 inches
Seeding Rate.....	6-7 seed/ft
Fertilization.....	Urea @ 120 lb N/a (5/12)
Herbicides.....	Pre: Metolachlor@1.75 pts/a + Atrazine@1.5 pts/a Post: Gramoxone@1.5 pt/a
Insecticides.....	Karate Z @ 2.5 oz/a (7/8); Karate Z @ 0.5 oz/a + Tracer @ 1.1 oz/a (7/23)
Previous Crop.....	Grain Sorghum
Planting Date.....	April 29
Harvest Date.....	August 18

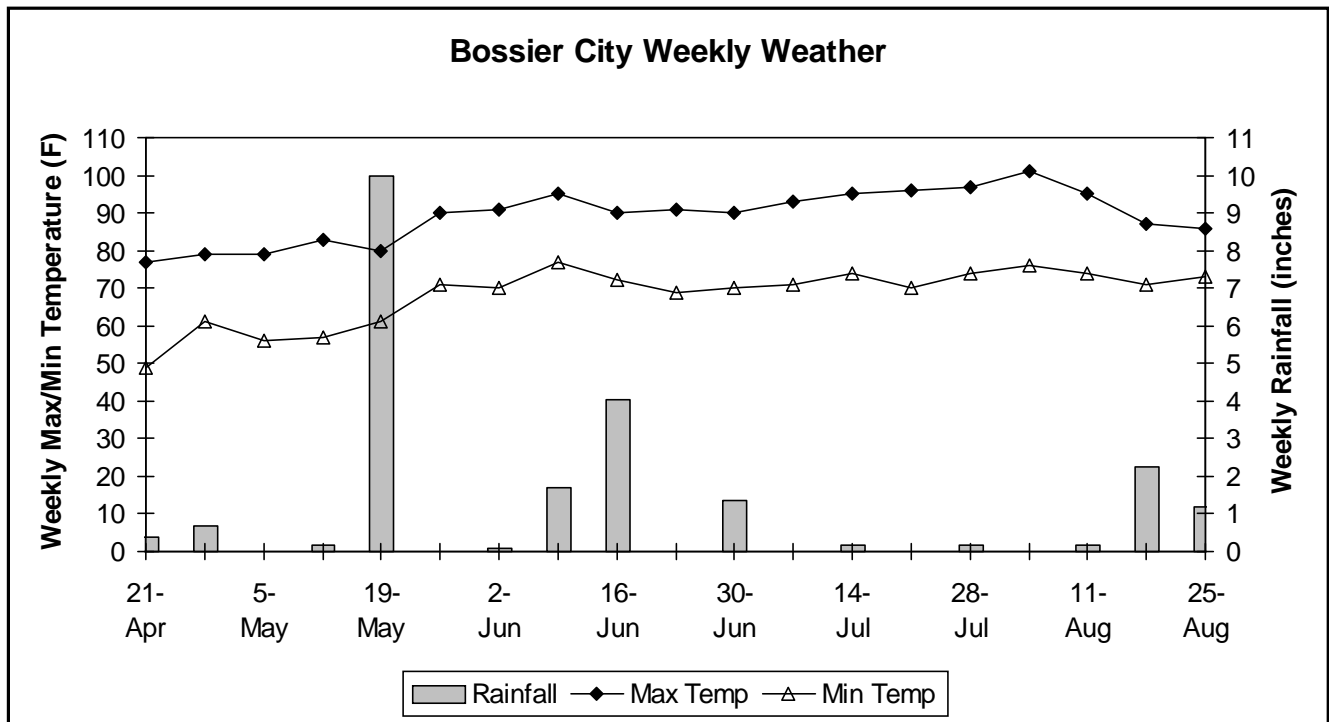


Table 3. Grain sorghum hybrid performance trial at Bossier City, 2008.

Brand/hybrid	2008 Yield <sup>1</sup>	2-Yr avg <sup>2</sup>	Grain moist	Test wt	Head date	Head exert	Plant ht	Head type <sup>4</sup>
	-----lb/a-----		%	lb/bu	DAP <sup>3</sup>	inches	inches	
<b>Pioneer brand 82G10</b>	<b>6,845</b>	-	16.8	59.5	59	4	58	2
<b>Garst 5515</b>	<b>6,714</b>	-	16.9	58.4	59	7	55	3
<b>Golden Acres 3696</b>	<b>6,686</b>	-	16.6	58.3	55	5	58	3
<b>Dyna-Gro DGGX07163</b>	<b>6,653</b>	-	16.5	58.3	56	4	58	3
<b>Pioneer brand 84G62</b>	<b>6,601</b>	<b>6,159*</b>	17.0	59.3	60	3	54	3
<b>Dyna-Gro DGGX07664</b>	<b>6,583</b>	-	16.8	59.6	57	5	49	3
<b>Dekalb DKS53-67</b>	<b>6,559</b>	<b>5,996*</b>	17.2	60.0	61	7	57	2
<b>Pioneer brand 83G66</b>	<b>6,520</b>	-	16.0	58.8	57	6	59	2
Dyna-Gro DG751B	6,401	5,834	16.9	59.7	59	5	60	2
Garst 5464	6,397	-	16.9	59.1	57	8	58	4
Terral TV1050	6,364	5,525	16.0	58.6	58	4	59	2
Terral TV96H81	6,321	5,615	16.8	59.7	58	3	59	1
Terral TV9421	6,297	5,777	17.1	59.0	57	8	58	3
Dekalb DKS54-00	6,261	5,685	17.8	59.0	63	7	61	3
NC+ 8R18	6,249	5,677	17.1	58.9	60	9	61	2
Asgrow A571	6,222	5,845	17.3	58.4	59	7	58	2
Dekalb DKS54-03	6,197	-	17.7	58.7	61	7	59	3
NC+ 7R83	6,144	5,598	16.4	57.7	59	8	59	1
Dyna-Gro DG780B	6,138	5,712	16.6	60.0	60	3	59	2
Terral TV96H91	6,016	5,583	16.5	60.2	61	4	56	3
Terral TV94S91	6,000	-	16.7	59.5	58	6	54	3
Terral TV93S72	5,903	5,589	16.4	59.9	56	10	55	2
Dyna-Gro DGGX08170	5,891	-	17.8	60.6	60	10	64	1
Dyna-Gro DG758B	5,837	-	16.4	59.3	57	4	54	2
Golden Acres 3552	5,826	-	16.4	59.2	58	6	55	3
Dyna-Gro DG778B	4,991	-	19.1	58.3	68	11	67	1
Average	6,254	-	16.9	59.1	59	6	58	2
CV, %	5	-	4	1	2	38	3	22
LSD (0.10)	343	-	0.7	0.7	1	3.8	3	1

<sup>1</sup>Hybrids in bold are the highest yielding for this location in 2008.

<sup>2</sup>Hybrids in bold with an asterisk (\*) are the highest yielding in both 2007 and 2008.

<sup>3</sup>DAP=days after planting.

<sup>4</sup>Head type, 1-5; 1=compact ...5=open.



Table 4. Grain sorghum hybrid performance trial at Crowley, 2008.

Brand/hybrid	2008 Yield <sup>1</sup>	2-Yr avg <sup>2</sup>	Grain moist	Test wt	Head date	Head exert	Plant ht	Head type <sup>4</sup>	Bird	Dis <sup>5</sup>
	-----lb/a-----		%	lb/bu	DAP <sup>3</sup>	inches	inches		%	
<b>Dekalb DKS53-67</b>	<b>6,530</b>	<b>5,776*</b>	15.0	56.0	66	4	54	3	15	4
<b>Dyna-Gro DGGX08170</b>	<b>6,318</b>	-	16.1	57.5	62	7	60	2	15	4
<b>Terral TV1050</b>	<b>6,273</b>	5,068	14.8	54.6	65	4	54	3	20	3
<b>NC+ 8R18</b>	<b>6,208</b>	<b>5,475*</b>	15.4	54.3	65	4	57	2	15	2
<b>Dekalb DKS54-00</b>	<b>6,188</b>	<b>5,663*</b>	15.2	53.1	68	7	58	3	20	2
<b>Golden Acres 3552</b>	<b>6,178</b>	-	14.9	54.7	62	5	51	4	20	2
<b>Dyna-Gro DG780B</b>	<b>6,177</b>	5,327	15.3	57.0	68	2	56	2	15	3
<b>Pioneer brand 83G66</b>	<b>6,098</b>	-	15.7	53.9	66	3	56	3	15	5
<b>Pioneer brand 84G62</b>	<b>5,880</b>	<b>5,470*</b>	13.8	54.1	65	1	49	5	20	6
<b>Golden Acres 3696</b>	<b>5,843</b>	-	14.5	52.9	64	5	54	4	20	5
Asgrow A571	5,814	5,084	14.1	52.4	63	7	53	3	20	4
NC+ 7R83	5,719	5,011	14.6	52.6	63	7	53	3	20	3
Dyna-Gro DGGX07163	5,665	-	14.0	52.9	63	7	51	4	25	6
Garst 5464	5,632	-	14.3	52.8	65	6	57	4	25	4
Dyna-Gro DG758B	5,573	5,272	14.8	54.9	62	5	50	4	20	3
Garst 5515	5,490	-	13.9	54.2	62	6	51	3	20	5
Terral TV94S91	5,352	-	14.9	55.1	63	5	48	4	20	4
Terral TV9421	5,316	4,714	14.0	52.4	63	6	50	5	20	6
Terral TV96H91	5,222	4,881	14.2	54.6	66	6	55	5	20	5
Dyna-Gro DG751B	4,877	4,818	15.2	55.3	64	4	57	3	15	6
Dekalb DKS54-03	4,801	-	13.9	50.3	69	5	54	5	25	5
Dyna-Gro DGGX07664	4,774	-	14.0	52.5	63	2	47	5	25	7
Pioneer brand 82G10	4,594	-	13.1	51.2	69	2	54	4	20	6
Terral TV96H81	4,581	4,620	14.8	54.5	65	5	55	3	20	6
Terral TV93S72	4,113	4,078	14.7	52.0	61	5	47	5	30	8
Dyna-Gro DG778B	3,194	-	16.5	49.9	72	4	62	2	20	6
Average	5,477	-	14.7	53.7	65	5	53	3	20	4
CV, %	11	-	3	2	2	57	5	14	13	22
LSD (0.10)	697	-	0.5	1.2	2	3	3	1	5	1

<sup>1</sup>Hybrids in bold are the highest yielding for this location in 2008.

<sup>2</sup>Hybrids in bold with an asterisk (\*) are the highest yielding in both 2007 and 2008.

<sup>3</sup>DAP=days after planting.

<sup>4</sup>Head type, 1-5; 1=compact ...5=open.

<sup>5</sup>Diseases (foliar), 1-10; 1=no foliar diseases ...10=severe foliar diseases.

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

## Location Summary

Grain yields ranged from 3,576 to 7,336 lb/a in the non-irrigated trial with a trial average of 5,991 lb/a (Table 5). In this trial, there were 12 hybrids in 2008 and five hybrids for 2007 and 2008 that were highest yielding (bolded in table). In the irrigated trial, grain yields ranged from 3,702 to 7,231 lb/a, with a trial average of 6,115 lb/a (Table 6). There were 15 hybrids in 2008 and only one hybrid for 2007 and 2008 that were highest yielding (bolded in table). There were three furrow-irrigations in the irrigated trial, June 17, July 7, and July 17. Grain sorghum in both trials was ready for harvest in early August; however, extremely wet conditions in August and early September caused very late harvest. As a result, yield was probably lost due to seed shattering. In addition, test weights were extraordinarily low, averaging 45.2 lb/bu in the non-irrigated trial and 47.7 lb/bu in the irrigated trial.

Soil Type.....Sharkey silty clay  
 Row Spacing.....40 inches  
 Seeding Rate.....6-7 seed/ft  
 Fertilization.....30-0-0-2 @  
 120 lb N/a (5/20)  
 Herbicides.....  
     Burndown (4/24): Roundup @ 1.5 qt/a  
     Pre: (5/2): Atrazine@ 2 qt/a +  
     Dual @ 1.5 pt/a;  
 Insecticides.....  
     At flowering: Four applns of Karate Z  
     @ 2 oz/a (6/26, 7/3, 7/7, and 7/14; On  
     7/3, Intruder @ 1 oz/a was combined  
     with the Karate)  
 Previous Crop.....Soybean  
 Planting Date.....April 30  
 Harvest Dates.....Sept. 8 (irrigated trial)  
                             Sept. 12 (non-irrigated trial)

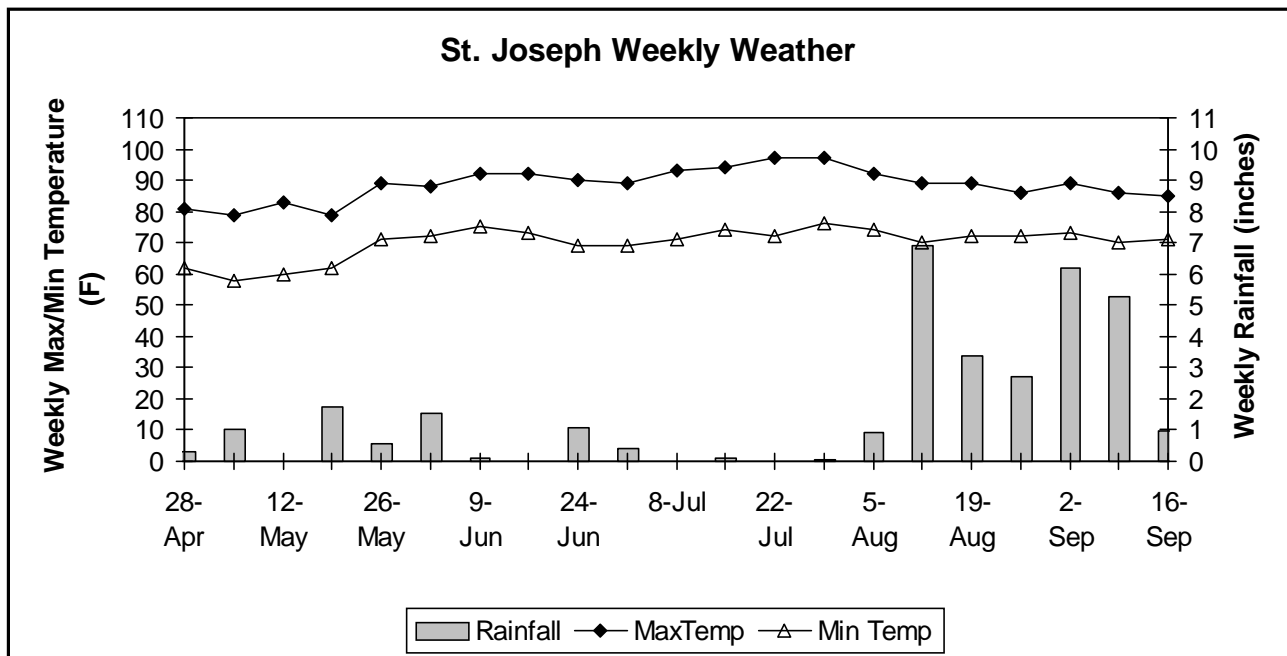


Table 5. Non-irrigated grain sorghum hybrid performance trial at St. Joseph, 2008.

Brand/hybrid	2008 Yield <sup>1</sup>	2-Yr avg <sup>2</sup>	Grain moist	Test wt	Head date	Head exert	Plant ht	Head type <sup>4</sup>
	-----lb/a-----		%	lb/bu	DAP <sup>3</sup>	inches	inches	
<b>Terral TV1050</b>	<b>7,336</b>	6,756	13.6	41.8	58	5	58	3.0
<b>Dekalb DKS53-67</b>	<b>6,974</b>	<b>7,146*</b>	15.3	49.4	62	5	59	2.5
<b>Dekalb DKS54-00</b>	<b>6,909</b>	<b>7,490*</b>	15.1	44.9	65	5	60	3.0
<b>Golden Acres 3696</b>	<b>6,837</b>	-	13.8	45.4	56	4	56	3.5
<b>Pioneer brand 84G62</b>	<b>6,581</b>	<b>6,841*</b>	14.4	48.6	61	2	55	3.5
<b>Terral TV93S72</b>	<b>6,470</b>	6,249	15.4	45.2	57	8	52	3.5
<b>Dekalb DKS54-03</b>	<b>6,368</b>	-	13.3	40.9	64	7	58	3.5
<b>NC+ 8R18</b>	<b>6,352</b>	<b>7,206*</b>	13.0	44.0	62	8	63	3
<b>Dyna-Gro DGGX07163</b>	<b>6,320</b>	-	14.0	44.9	55	6	57	3.5
<b>Asgrow A571</b>	<b>6,317</b>	<b>6,720*</b>	13.0	43.7	59	10	58	3.5
<b>Terral TV96H81</b>	<b>6,285</b>	6,150	14.2	46.2	59	5	57	4.0
<b>Pioneer brand 82G10</b>	<b>6,269</b>	-	13.6	47.5	62	2	57	3.0
Dyna-Gro DG751B	6,195	6,112	15.0	44.5	58	4	59	4.0
Pioneer brand 83G66	6,136	-	15.0	47.6	60	4	60	3.0
Terral TV9421	6,103	5,663	12.9	41.1	56	5	56	4.0
Dyna-Gro DGGX07664	5,919	-	13.6	47.0	57	6	50	3.5
Terral TV94S91	5,911	-	14.1	47.4	57	7	57	3.5
Dyna-Gro DG780B	5,735	6,113	14.9	45.4	62	6	58	4.0
Garst 5515	5,723	-	13.8	42.4	59	6	55	3.0
Terral TV96H91	5,704	5,858	14.6	46.9	63	8	57	4.5
NC+ 7R83	5,697	6,007	12.8	41.0	59	9	58	3.5
Dyna-Gro DGGX08170	5,155	-	16.3	51.5	58	8	62	3.5
Dyna-Gro DG758B	5,145	5,568	14.6	48.2	57	4	55	3.5
Garst 5464	5,091	-	14.3	44.8	57	7	57	4.0
Dyna-Gro DG778B	4,669	-	15.6	44.3	67	6	63	3.0
Golden Acres 3552	3,576	-	14.5	47.1	58	7	58	3.5
Average	5,991	-	14.2	45.2	59	6	57	3.0
CV,%	11	-	6	4	2	28	2	9
LSD (0.10)	1,084	-	1.3	3.3	2	3	2	1.0

<sup>1</sup>Hybrids in bold are the highest yielding for this location in 2008.

<sup>2</sup>Hybrids in bold with an asterisk (\*) are the highest yielding in both 2007 and 2008.

<sup>3</sup>DAP=days after planting.

<sup>4</sup>Head type, 1-5; 1=compact ...5=open.

Table 6. Irrigated grain sorghum hybrid performance trial at St. Joseph, 2008.

Brand/hybrid	2008 Yield <sup>1</sup>	2-Yr avg <sup>2</sup>	Grain moist	Test wt	Head date	Head exert	Plant ht	Head type <sup>4</sup>
	-----lb/a-----		%	lb/bu	DAP <sup>3</sup>	inches	inches	
<b>Terral TV96H81</b>	<b>7,231</b>	6,727	13.7	48.4	56	5	62	3.5
<b>Dekalb DKS54-00</b>	<b>7,227</b>	<b>7,907*</b>	15.4	47.7	65	8	64	3.0
<b>Terral TV9421</b>	<b>7,184</b>	6,238	15.7	45.9	56	7	59	3.5
<b>NC+ 8R18</b>	<b>7,077</b>	7,238	13.7	48.5	62	7	65	2.5
<b>Dekalb DKS53-67</b>	<b>6,885</b>	7,276	13.4	50.0	61	6	62	2.5
<b>Dyna-Gro DG751B</b>	<b>6,881</b>	6,581	15.0	47.3	56	9	63	2.5
<b>Garst 5464</b>	<b>6,873</b>	-	15.1	48.8	58	8	62	4.0
<b>Dekalb DKS54-03</b>	<b>6,743</b>	-	14.3	45.0	63	11	64	3.5
<b>Terral TV1050</b>	<b>6,650</b>	6,669	11.2	44.4	58	5	62	3.0
<b>Terral TV93S72</b>	<b>6,646</b>	5,930	14.7	47.7	55	10	56	3.0
<b>NC+ 7R83</b>	<b>6,537</b>	6,781	14.3	44.9	60	8	59	3.0
<b>Dyna-Gro DGGX07163</b>	<b>6,261</b>	-	15.9	47.8	55	8	59	3.5
<b>Dyna-Gro DG780B</b>	<b>6,206</b>	6,625	12.4	46.7	63	3	64	3.0
<b>Terral TV96H91</b>	<b>6,181</b>	6,448	15.2	51.5	62	8	60	3.5
<b>Pioneer brand 83G66</b>	<b>6,171</b>	-	16.5	48.0	59	7	64	3.0
Dyna-Gro DGGX08170	5,887	-	13.5	52.3	58	8	70	3.0
Golden Acres 3696	5,808	-	14.2	47.5	56	7	61	3.5
Dyna-Gro DG758B	5,768	6,005	15.6	52.0	57	8	58	3.5
Pioneer brand 82G10	5,726	-	12.0	46.9	62	4	61	2.5
Pioneer brand 84G62	5,696	6,693	12.2	48.9	58	6	60	3.5
Asgrow A571	5,571	6,499	11.8	43.2	59	9	60	2.5
Dyna-Gro DGGX07664	5,295	-	14.2	47.1	57	9	53	4.0
Terral TV94S91	5,282	-	15.2	48.8	57	7	59	3.5
Garst 5515	5,263	-	14.2	46.5	58	8	58	3.5
Golden Acres 3552	4,251	-	13.0	49.4	57	6	61	4.0
Dyna-Gro DG778B	3,702	-	15.9	48.2	68	6	69	2.0
Average	6,115	-	14.2	47.7	59	7	61	3.0
CV,%	11	-	16	4	2	26	3	14
LSD (0.10)	1,124	-	NS <sup>5</sup>	3.2	2	3	3	1.0

<sup>1</sup>Hybrids in bold are the highest yielding for this location in 2008.

<sup>2</sup>Hybrids in bold with an asterisk (\*) are the highest yielding in both 2007 and 2008.

<sup>3</sup>DAP=days after planting.

<sup>4</sup>Head type, 1-5; 1=compact ...5=open.

<sup>5</sup>NS=Non-significant.

Table 7. Summary of yield performance of grain sorghum hybrids at four locations<sup>1</sup> in the 2008 LAES hybrid performance trials.

Brand/hybrid	BR	BC	CR	St. Joseph		Avg
				Non irr	Irr	
-----lb/a-----						
Asgrow A571	7,655	6,222	5,814	6,317	5,571	6,316
Dekalb DKS53-67	8,731	6,559	6,530	6,974	6,885	7,136
Dekalb DKS54-00	8,176	6,261	6,188	6,909	7,227	6,952
Dekalb DKS54-03	7,633	6,197	4,801	6,368	6,743	6,348
Dyna-Gro DG751B	8,836	6,401	4,877	6,195	6,881	6,638
Dyna-Gro DG758B	7,990	5,837	5,573	5,145	5,768	6,063
Dyna-Gro DG778B	5,919	4,991	3,194	4,669	3,702	4,495
Dyna-Gro DG780B	8,430	6,138	6,177	5,735	6,206	6,537
Dyna-Gro DGGX07163	7,406	6,653	5,665	6,320	6,261	6,461
Dyna-Gro DGGX07664	8,062	6,583	4,774	5,919	5,295	6,127
Dyna-Gro DGGX08170	9,083	5,891	6,318	5,155	5,887	6,467
Garst 5464	8,224	6,397	5,632	5,091	6,873	6,443
Garst 5515	7,861	6,714	5,490	5,723	5,263	6,210
Golden Acres 3552	8,443	5,826	6,178	3,576	4,251	5,655
Golden Acres 3696	7,317	6,686	5,843	6,837	5,808	6,498
NC+ 7R83	8,301	6,144	5,719	5,697	6,537	6,480
NC+ 8R18	8,213	6,249	6,208	6,352	7,077	6,820
Pioneer brand 82G10	9,297	6,845	4,594	6,269	5,726	6,546
Pioneer brand 83G66	8,397	6,520	6,098	6,136	6,171	6,664
Pioneer brand 84G62	8,499	6,601	5,880	6,581	5,696	6,651
Terral TV1050	8,392	6,364	6,273	7,336	6,650	7,003
Terral TV93S72	8,273	5,903	4,113	6,470	6,646	6,281
Terral TV9421	8,108	6,297	5,316	6,103	7,184	6,602
Terral TV94S91	8,617	6,000	5,352	5,911	5,282	6,232
Terral TV96H81	8,407	6,321	4,581	6,285	7,231	6,565
Terral TV96H91	8,147	6,016	5,222	5,704	6,181	6,254
Average	8,170	6,254	5,477	5,991	6,115	

<sup>1</sup>Locations: BR=Baton Rouge, BC=Bossier City, CR=Crowley.

Table 8. List of participating seed companies and hybrids tested in the LAES 2008 grain sorghum hybrid performance trials.

Company/Institution	Brand/hybrid
Syngenta Seeds 750 Olsen Memorial Hwy Golden Valley, MN 55427	Garst: 5464, 5515
Golden Acres Genetics P.O. Box 579 Buchanan Dam, TX 78609	Golden Acres: 3552, 3696
Monsanto Company 982 U.S. Hwy. 77 Bishop, TX 78343	Asgrow: A571 Dekalb: DKS53-67, DKS54-00, DKS54-03
NC+ Hybrids 3820 N56 St P.O. Box 4408 Lincoln, NE 68504	7R83, 8R18
Pioneer Hi-Bred International 700 Boulevard South SW, Suite 302 Huntsville, AL 35802	Pioneer brand: 82G10, 83G66, 84G62
Terral Seed, Inc. 604 Blount St. Lake Providence, LA 71254	Terral: TV1050, TV93S72, TV9421, TV96H81, TV94S91, TV96H91
UAP Distribution, Inc. - Dyna-Gro Seed 443 East Ave. South Hollandale, MS 38748	Dyna Gro: DG751B, DG758B, DG778B DG780B, DGGX07163, DGGX07664, DGGX08170