

Grain Sorghum Performance at the Rice Research Station- Crowley

Location Summary

Grain yields ranged from 3,194 lb/a for Dyna-Gro DG778B to 6,530 lb/a for Dekalb DKS53-67 with a trial average of 5,477 lb/a (Table 4). There were ten hybrids in 2008 and four hybrids for 2007 and 2008 that were considered highest yielding (bolded in table). June and July rainfall was well distributed at this location. Test weights were relatively low, ranging from 49.9 lb/bu to 57.5 lb/bu with a trial average of 53.7 lb/bu. Although bird damage was extensive, the damage was relatively uniform across hybrids. Foliar-disease ratings ranged from 2 for several hybrids to 7 for Dyna-Gro DGGX07664 (Table 4). Hybrids with the highest disease ratings generally had the lowest yields. The primary disease present was anthracnose.

| | |
|--------------------|---|
| Soil Type..... | Crowley silt loam |
| Row Spacing..... | 30 inches |
| Seeding Rate..... | 5 seed/ft |
| Fertilization..... | 8-24-24 @ 200 lb/a (5/6) 46-0-0 @ 90 lb N/a (5/27) |
| Herbicides..... | Atrazine @ 2 qt/a (5/5) Facet @ 0.5 lb/a + Permit @ 0.5 oz/a + Crop oil @ 1 qt/a (5/20) |
| Insecticides..... | None |
| Previous Crop..... | Fallow |
| Planting Date..... | May 2 |
| Harvest Date..... | August 23 |

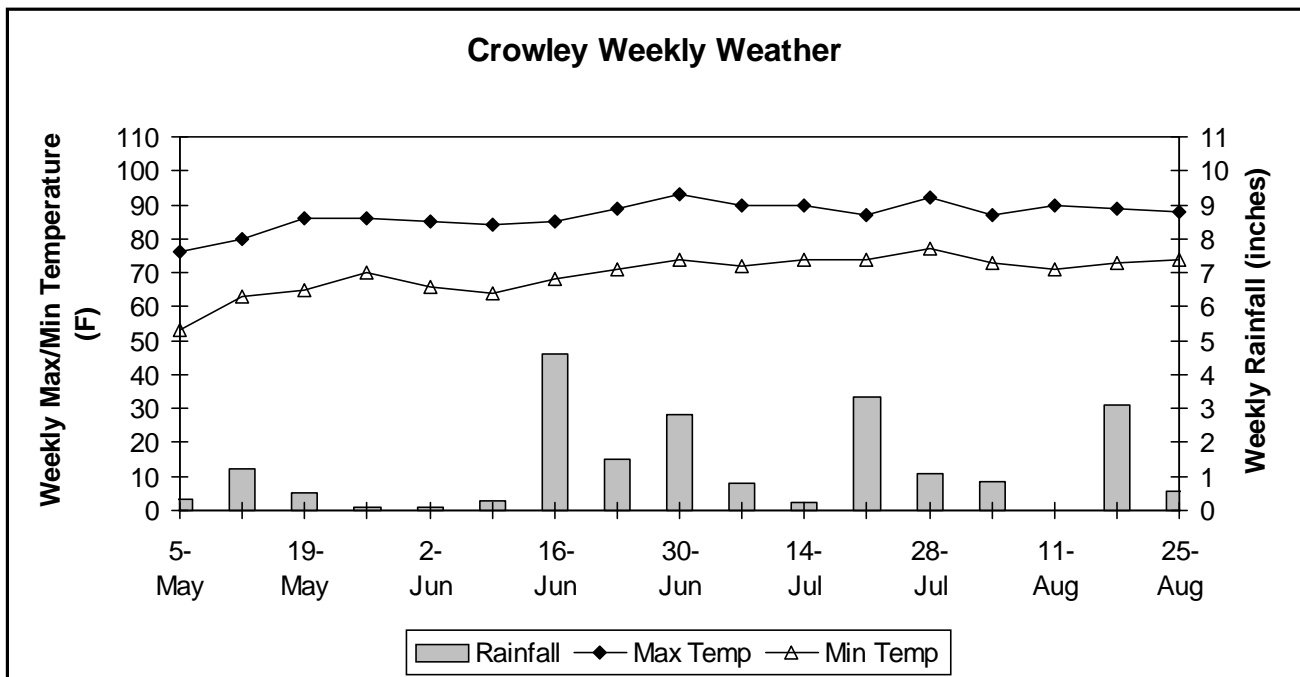


Table 4. Grain sorghum hybrid performance trial at Crowley, 2008.

| Brand/hybrid | 2008 Yield ¹ | 2-Yr avg ² | Grain moist | Test wt | Head date | Head exert | Plant ht | Head type ⁴ | Bird | Dis ⁵ |
|----------------------------|----------------------------|--------------------------|----------------|------------|------------------|---------------|-------------|---------------------------|------|------------------|
| | -----lb/a----- | | % | lb/bu | DAP ³ | inches | inches | | % | |
| Dekalb DKS53-67 | 6,530 | 5,776* | 15.0 | 56.0 | 66 | 4 | 54 | 3 | 15 | 4 |
| Dyna-Gro DGGX08170 | 6,318 | - | 16.1 | 57.5 | 62 | 7 | 60 | 2 | 15 | 4 |
| Terral TV1050 | 6,273 | 5,068 | 14.8 | 54.6 | 65 | 4 | 54 | 3 | 20 | 3 |
| NC+ 8R18 | 6,208 | 5,475* | 15.4 | 54.3 | 65 | 4 | 57 | 2 | 15 | 2 |
| Dekalb DKS54-00 | 6,188 | 5,663* | 15.2 | 53.1 | 68 | 7 | 58 | 3 | 20 | 2 |
| Golden Acres 3552 | 6,178 | - | 14.9 | 54.7 | 62 | 5 | 51 | 4 | 20 | 2 |
| Dyna-Gro DG780B | 6,177 | 5,327 | 15.3 | 57.0 | 68 | 2 | 56 | 2 | 15 | 3 |
| Pioneer brand 83G66 | 6,098 | - | 15.7 | 53.9 | 66 | 3 | 56 | 3 | 15 | 5 |
| Pioneer brand 84G62 | 5,880 | 5,470* | 13.8 | 54.1 | 65 | 1 | 49 | 5 | 20 | 6 |
| Golden Acres 3696 | 5,843 | - | 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 |

¹Hybrids in bold are the highest yielding for this location in 2008.

²Hybrids in bold with an asterisk (*) are the highest yielding in both 2007 and 2008.

³DAP=days after planting.

⁴Head type, 1-5; 1=compact ...5=open.

⁵Diseases (foliar), 1-10; 1=no foliar diseases ...10=severe foliar diseases.