2008 Soybean Variety Performance

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Information on Soybean Variety Trials

Numerous soybean lines and varieties were evaluated in performance tests during 2008. Commercially available varieties, both public and private, and advanced experimental lines were included within the tests. Tests were designed to provide information to assist producers in identifying superior varieties and make crop management decisions. Tests include both early-season and full-season environments. Early-season tests were planted during April and contained maturity group (MG) III and IV. Full-season test were planted during June and into the beginning of July and included varieties in MG IV, V, and VI.

Public varieties included in tests are considered to be competitive for the region, and are represented by established varieties, new releases, and advanced experimental lines. Varieties of private seed company origin are submitted based on decisions by the respective company.

2008 Soybean Crop Overview

The 2008 soybean production season in Oklahoma got off to a cool and wet start. However, as temperatures started to reach near normal in late April and early May the early planted soybean crop took off. The full-season soybean crop in 2008 was planted a little later than normal in many places due to wet soil conditions and in some instances this created maturity problems later in the season.

Planted acreage of this year's soybean crop was measured at 390,000 acres and an estimated 360,000 acres were harvested. Average yield at the time of this report was estimated at 25 bushels per acre. Soybean acreage was up probably a result of the higher commodity price early in the year. Although several producers had difficulty planting their soybean crop during recommended planting dates good yields were still realized due to good growing conditions.

Pest problems

Plant disease was minimal during the 2008 growing season,. Asian soybean rust was not detected in Oklahoma until very late in the growing season. The one case of confirmed Asian soybean rust occurred in extreme southern Oklahoma but after almost all fields were beyond the R3 growth stage. For the most part no major widespread insect problems were observed during the 2008 growing season.

Methods

Early-season test locations were near Chickasha, Haskell, Bixby, Lahoma, Stillwater, and Goodwell. Full-season test locations were near Haskell, Bixby, Chickasha, Cherokee, Lahoma, Ardmore, Miami, and Goodwell. The Haskell location was not harvested due to a poor stand. All test plots were planted using four 30-inch rows that were 25 feet long. Plots were seeded at a rate of eight seeds per row foot (139,392 seeds per acre). At planting, *Bradyrhizobium japonicum* in a liquid formulation was applied with the seed. Tests were conducted using randomized complete block design with three replications. All locations were conventionally tilled prior to seeding with the exception of Cherokee, Miami, and Ardmore. Irrigation was used only at the Goodwell location. Three rows the entire length of the plot was harvested with a small plot combine to determine grain yield.

Interpreting Data

Details of establishment and management of each test are listed in footnotes below the tables. Least significant differences (LSD) are listed at the bottom of all but the Performance Summary tables. Differences between varieties are significant only if they are equal to or greater than the LSD value. If a given variety out yields another variety by as much or more than the LSD value, then we are 95% sure that the yield difference is real, with only a 5% probability that the difference is due to chance alone. For example, if variety X is 5 bushels/acre higher in yield than variety Y, then this difference is statistically significant if the LSD is 5 or less. If the LSD is 5 or greater, then we are less confident that variety X really is higher yielding than variety Y under the conditions of the test.

The CV value or coefficient of variation, listed at the bottom of each table is used as a measure of the precision of the experiment. Lower CV values will generally relate to lower experimental error in the trial.

Uncontrollable or immeasurable variations in soil fertility, soil drainage, and other environmental factors contribute to greater experimental error and higher CV values.

Results reported here should be representative of what might occur throughout the state but would be most applicable under environmental and management conditions similar to those of the tests. The relative yields of all soybean varieties are affected by crop management and by environmental factors including soil type, summer conditions, soil moisture conditions, diseases, and insects.

Additional information on the Web

A copy of this publication as well as additional variety information and more information on soybean management can be found at

www.soybean.okstate.edu/

An individual is encouraged to review 2 to 3 years of variety test results before making a variety selection. Because soybean varieties change often multiple years of data are not compared in this publication but previous years data can be found at the previously mention website.

Sources of Seed for the 2008 Soybean Performance Tests

Dyna-Gro Seeds
101 East Corporate Dr. Suite 180
Lewisville, TX 75067 Telephone: 918-464-2012

Hornbeck Seed Co., Inc.
PO Box 472
Dewitt, AR 72042 Telephone: 870-946-2087

Asgrow
102 W. Carol Ave.
Cortland, IL 60112 Telephone: 815-754-4809

NK Brand Seeds
6711 Hare Hill Dr.
Arlington, IN 38002 Telephone: 901-382-5265

NC+ Hybrids
1551 Highway 210
Huxley, IA 50124 Telephone: 515-597-5903

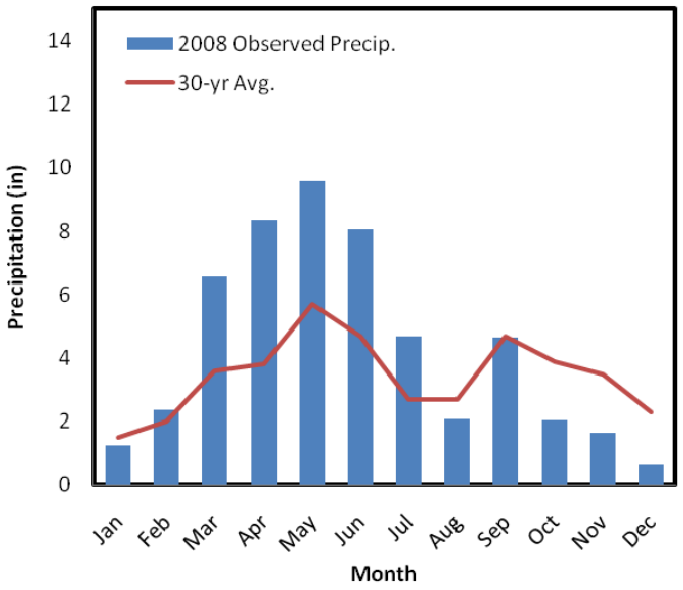
Kansas State University
Agronomy Department
2004 Throckmorton
Manhattan, KS 66506 Telephone: 785-532-6115

Stratton Seed Co.
Stuttgart, AR Telephone: 870-673-4433

Midwest Seed Genetics
1551 Highway 210
Huxley, IA 50124 Telephone: 515-597-5903

2008 Bixby Trial Data

Precipitation



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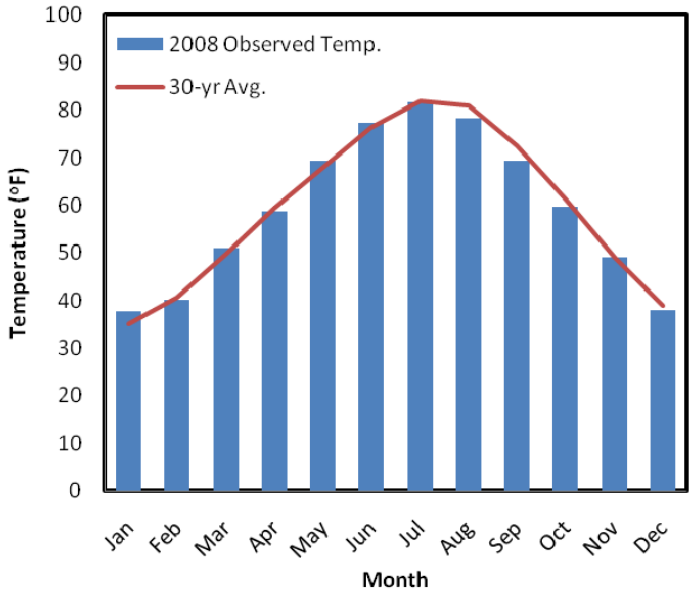


Growing conditions throughout the year at Bixby varied. April—June , plots were saturated by the above normal rainfall which may have decreased plant growth and had a negative effect on yield. Plants were seldom stressed for moisture during the growing season. Grain yields of varieties included in the early-season test were lower than normal. This may have been due to the presence of soybean cyst nematodes (SCN). A soil test taken from the plot area indicated the presence of SCN. The results should be considered to be influenced by the presence of SCN. Varieties containing resistance to SCN would be expected to perform better in an environment such as this. Full-season grain yields were normal but also were planted in an area that tested positive for SCN.

Table 1. Information on soil chemical properties and management practices for the Soybean Production Test at Bixby, OK in 2008.

Soil Properties	Result
pH	6.1
Soil Test P Index	95
Soil Test K Index	257

Cultural Practice	Information
Planting Dates	4/29 and 6/30[1]
Seeding Rate (seeds/foot of row)	8
Seeding Depth (in)	1
Irrigation	none
Harvest Dates	10/28 and 11/9[2]
Soil Moisture at Planting	good

[1]Planting dates for the early and full season tests, respectively.

[2]Harvest dates for the early and full season tests, respectively.

Table 2. Early-season soybean production variety trail Bixby, OK 2008.

Variety	Company	Maturity Group	Height	Shattering[1] Score	Lodging[1] Score	Seed/Lb	Yield[2]
			- in -				- bu/acre -
HBK R4527	Hornbeck Seed Co. Inc.	4.5	35	1	1	3200	45.2
HBK R5123	Hornbeck Seed Co. Inc.	5.1	43	0	1	2900	35.8
HBK HX4843	Hornbeck Seed Co. Inc.	4.8	41	1	2	2950	35.6
495.RC	Stratton Seed Co.	4.9	38	1	2	2650	35.2
HBK R5425	Hornbeck Seed Co. Inc.	5.4	40	0	2	2850	32.8
457.RC	Stratton Seed Co.	4.5	38	1	2	2900	29.4
AG 3803	Asgrow	3.8	28	1	0	2700	26.3
GR 4533	Midwest Seed Genetics	4.5	25	1	2	3200	23.8
KS 3406RR	Kansas State. Univ.	3.4	31	1	2	2800	23.5
AG4606	Asgrow	4.6	32	1	0	3300	21.9
DG 36Y48	Dynagro Seed UAP	4.8	34	1	2	2950	21.8
DG 33Y45	Dynagro Seed UAP	4.5	29	1	0	2750	21.6
DG SXO8341	Dynagro Seed UAP	4.1	26	1	0	2700	17.9
HBK R4924	Hornbeck Seed Co. Inc.	4.9	38	1	1	2800	15.9
DG 36C44	Dynagro Seed UAP	4.4	25	1	0	2650	14.3
DG SXO8940	Dynagro Seed UAP	4.0	31	1	1	2900	14.2
KS 4607 (Non RR)	Kansas State. Univ.	4.6	23	1	0	2850	12.2

[1]0 = no shattering or lodging, 5 = very severe shattering or lodging.

[2]**Mean yield = 25.1 Bu/Acre. LSD @.05 = 6.9 Bu/acre. C.V. = 16.5%.**

Table 3. Full-season resistant soybean production variety trail Bixby, OK 2008.

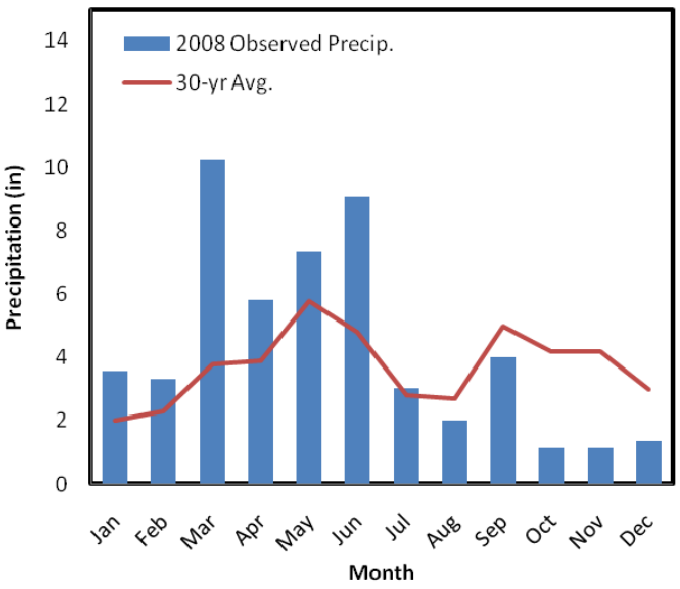
Variety	Company	Maturity Group	Height	Shattering[1] Score	Lodging[1] Score	Seed/Lb	Yield[2]
			- in -				- bu/acre -
HBK R5123	Hornbeck Seed Co. Inc.	5.1	22	1	0	2750	58.7
NC+4A81RS	NC$^+$ Hybrids	4.8	19	1	0	3250	56.7
HBK R5425	Hornbeck Seed Co. Inc.	5.4	26	0	0	3100	55.7
HBK R5525	Hornbeck Seed Co. Inc.	5.5	20	0	0	2750	52.0
HBK R4924	Hornbeck Seed Co. Inc.	4.9	20	1	0	2650	51.0
HBK R5226	Hornbeck Seed Co. Inc.	5.2	21	0	0	2600	48.7
NC+5A31RS	NC$^+$ Hybrids	5.3	23	1	0	3650	48.5
GR 5434	Midwest Seed Genetics	5.4	27	1	0	2850	47.7
495.RC	Stratton Seed Co.	4.9	28	1	0	2850	43.8
DG 36T60	Dynagro Seed UAP	6.0	18	0	0	2600	42.5
DG 31R54	Dynagro Seed UAP	5.4	21	0	0	2650	40.0
GR 5031	Midwest Seed Genetics	5.0	26	1	0	2800	36.9
478.RCS	Stratton Seed Co.	4.7	22	1	0	2750	35.9
DG 33C59	Dynagro Seed UAP	5.9	15	1	0	2650	35.1
KS 5306NRR	Kansas State. Univ.	5.3	20	0	0	3350	33.6
DG 37C62	Dynagro Seed UAP	6.2	20	1	0	2850	32.8
DG 33X55	Dynagro Seed UAP	5.5	18	0	0	2750	32.3
KS 5507NRR	Kansas State. Univ.	5.5	18	0	0	3550	31.5
DG 33B52	Dynagro Seed UAP	5.2	19	0	0	3050	29.7
DG 36N57	Dynagro Seed UAP	5.7	16	0	0	2650	26.1
KS 5004N (non RR)	Kansas State. Univ.	5.0	16	0	0	2950	20.2

[1]0 = no shattering or lodging, 5 = very severe shattering or lodging.

[2]**Mean yield = 40.9 Bu/Acre. LSD @ .05 = 9.3 Bu/Acre. C.V. = 13.8%.**

2008 Haskell Trial Data

Precipitation



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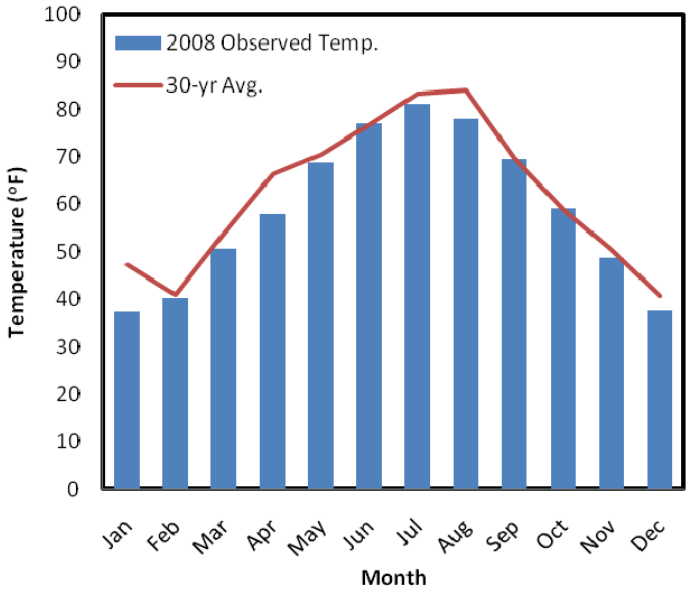


Growing conditions throughout the year at Haskell varied. In June, plots were saturated by the above normal rainfall which may have decreased plant growth and had a negative effect on yield. Plants were seldom stressed for moisture during the growing season. The early season test could not be harvested in a timely manner so some shattering was observed and increased the variability in yield. The full-season test was terminated after planting due to an uneven stand. Average yield for the early season test is below normal and may be an indication that early wet conditions decreased yield potential.

Table 4. Information on soil chemical properties and management practices for the Soybean Production Test at Haskell, OK in 2008.

Soil Properties	Result
pH	5.7
Soil Test P Index	91
Soil Test K Index	271

Cultural Practice	Information
Planting Date	4/29[1]
Seeding Rate (seeds/foot of row)	8
Seeding Depth (in)	1
Irrigation	none
Harvest Date	10/29[2]
Soil Moisture at Planting	good

[1]Planting dates for the early season test.

[2]Harvest dates for early season test.

Table 5. Early-season soybean production variety trail Haskell, OK 2008.

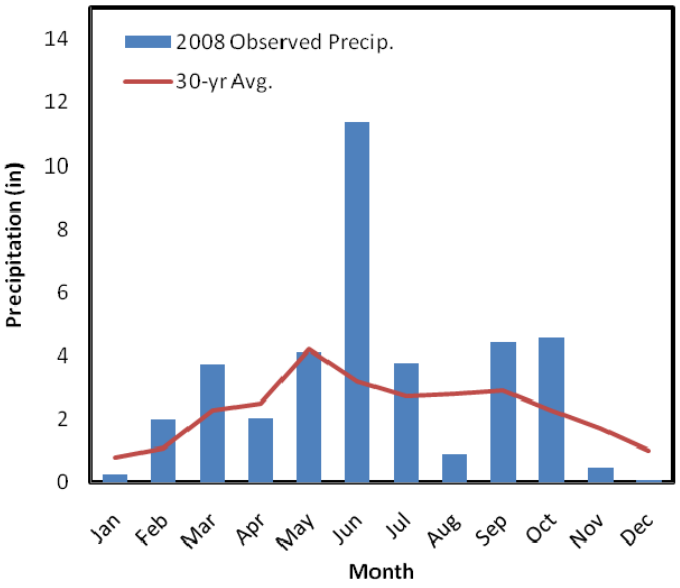
Variety	Company	Maturity Group	Height	Shattering[1] Score	Lodging[1] Score	Seed/Lb	Yield[2]
			- in -				- bu/acre -
DG 36C44	Dynagro Seed UAP	4.4	27	2	0	3550	35.6
457.RC	Stratton Seed Co.	4.5	36	2	2	3200	28.8
KS 4607 (Non RR)	Kansas State. Univ.	4.6	32	1	0	3750	28.2
DG 36Y48	Dynagro Seed UAP	4.8	27	3	0	2800	26.9
HBK R5425	Hornbeck Seed Co. Inc.	5.4	23	0	3	3250	26.5
AG4606	Asgrow	4.6	30	1	0	3750	25.0
KS 3406RR	Kansas State. Univ.	3.4	35	2	1	3600	24.7
495.RC	Stratton Seed Co.	4.9	29	2	1	3900	24.6
HBK R4924	Hornbeck Seed Co. Inc.	4.9	36	2	1	3150	24.2
HBK R5123	Hornbeck Seed Co. Inc.	5.1	37	0	2	3200	22.1
GR 4533	Midwest Seed Genetics	4.5	19	0	2	3550	21.4
DG 33Y45	Dynagro Seed UAP	4.5	25	2	0	2700	20.8
DG SXO8341	Dynagro Seed UAP	4.1	25	2	0	3300	19.7
DG SXO8940	Dynagro Seed UAP	4.0	29	2	0	3450	19.0
HBK HX4843	Hornbeck Seed Co. Inc.	4.8	34	3	0	3600	18.1
HBK R4527	Hornbeck Seed Co. Inc.	4.5	31	2	0	3300	16.7
AG 3803	Asgrow	3.8	31	1	0	3700	15.9

[1]0 = no shattering or lodging, 5 = very severe shattering or lodging.

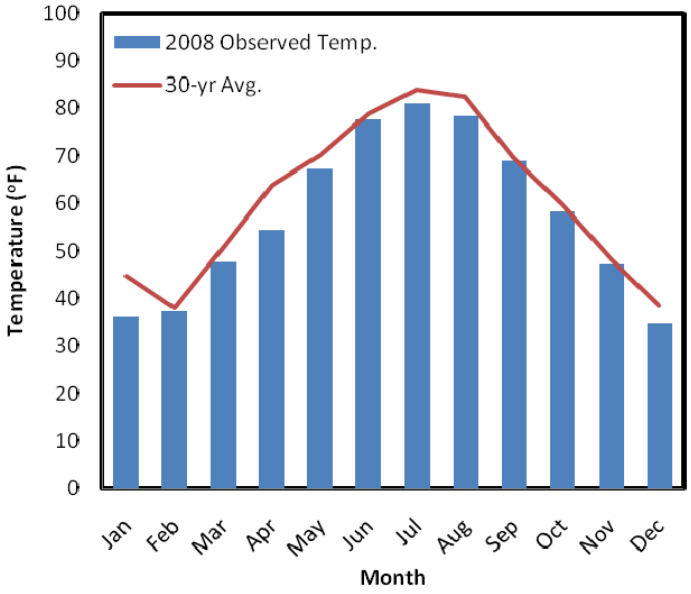
[2]Mean yield = 23.4 Bu/Acre. LSD @.05 = 11.3 Bu/acre. C.V. = 29%.

2008 Lahoma Trial Data

Precipitation



Temperature



Growing conditions throughout the year at Lahoma were good. In June, plots were saturated by the above normal rainfall which may have decreased plant growth and had a negative effect on yield. Both tests were stressed for moisture during the month of August. Yields for both the early- and full -season tests were average to above average. Early season yields were excellent. Maturity of the early season test was delayed due to cool temperatures in August. Typically this trial is harvested in early September but this year we harvested it 6 weeks later due to plants not drying down.

Table 6. Information on soil chemical properties and management practices for the Soybean Production Test at Lahoma, OK in 2008.

Soil Properties	Result
pH	na[1]
Soil Test P Index	na
Soil Test K Index	na

Cultural Practice	Information
Planting Date	4/22 and 6/4[2]
Seeding Rate (seeds/foot of row)	8
Seeding Depth (in)	1.5
Irrigation	none
Harvest Dates	11/3 and 11/3[3]
Soil Moisture at Planting	good

[1]Not available.

[2]Planting dates for the early and full season tests, respectively.

[3]Harvest dates for the early and full season tests, respectively.

Table 7. Early-season soybean production variety trail Lahoma, OK 2008.

Variety	Company	Maturity Group	Height	Shattering[1] Score	Lodging[1] Score	Seed/Lb	Yield[2]
			- in -				- bu/acre -
HBK R4924	Hornbeck Seed Co. Inc.	4.9	24	2	0	3050	61.3
457.RC	Stratton Seed Co.	4.5	21	1	0	2700	47.8
HBK R5425	Hornbeck Seed Co. Inc.	5.4	37	0	0	2750	45.2
DG 36Y48	Dynagro Seed UAP	4.8	28	1	0	3050	41.9
GR 4533	Midwest Seed Genetics	4.5	36	0	0	2900	41.9
HBK R4527	Hornbeck Seed Co. Inc.	4.5	31	2	0	2750	39.8
495.RC	Stratton Seed Co.	4.9	26	1	0	2700	39.1
AG4606	Asgrow	4.6	22	1	0	3150	38.6
AG 3803	Asgrow	3.8	22	1	0	2900	35.6
DG 33Y45	Dynagro Seed UAP	4.5	24	2	0	3150	35.5
HBK HX4843	Hornbeck Seed Co. Inc.	4.8	32	2	0	2800	33.7
HBK R5123	Hornbeck Seed Co. Inc.	5.1	36	0	0	2900	29.0
DG SXO8940	Dynagro Seed UAP	4.0	21	2	0	2750	28.1
KS 3406RR	Kansas State. Univ.	3.4	28	1	0	2600	26.9
DG 36C44	Dynagro Seed UAP	4.4	23	2	0	2600	26.8
KS 4607 (Non RR)	Kansas State. Univ.	4.6	24	1	0	2600	24.9
DG SXO8341	Dynagro Seed UAP	4.1	24	2	0	3200	24.7

[1]0 = no shattering or lodging, 5 = very severe shattering or lodging.

[2]Mean yield = 36.5 Bu/Acre. LSD @.05 = 11.4 Bu/acre. C.V. = 18.7%.

Table 8. Full-season soybean production variety trail Lahoma, OK 2008.

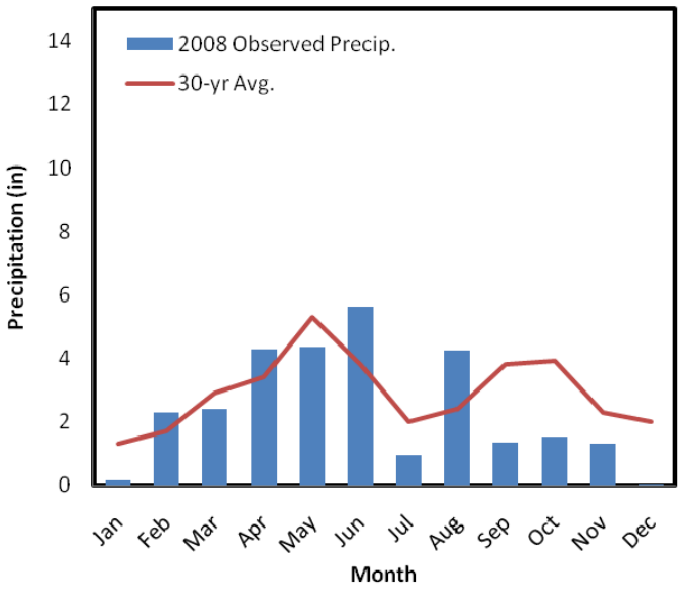
Variety	Company	Maturity Group	Height	Shattering[1] Score	Lodging[1] Score	Seed/Lb	Yield[2]
			- in -				- bu/acre -
DG 33C59	Dynagro Seed UAP	5.9	32	0	0	2900	47.4
GR 5031	Midwest Seed Genetics	5.0	27	0	0	2700	38.2
KS 5507NRR	Kansas State. Univ.	5.5	27	0	0	3200	36.0
NC+4A81RS	NC$^+$Hybrids	4.8	27	0	0	3100	35.7
DG 36N57	Dynagro Seed UAP	5.7	31	0	0	2700	34.8
GR 5434	Midwest Seed Genetics	5.4	24	0	0	2800	34.0
HBK R5525	Hornbeck Seed Co. Inc.	5.5	21	0	0	3450	33.9
NC+5A31RS	NC$^+$Hybrids	5.3	31	0	0	2600	33.7
495.RC	Stratton Seed Co.	4.9	32	0	0	3000	33.5
DG 36T60	Dynagro Seed UAP	6.0	29	0	0	3900	32.8
DG 33X55	Dynagro Seed UAP	5.5	24	0	0	3350	30.2
478.RCS	Stratton Seed Co.	4.7	25	0	0	3050	28.9
HBK R5123	Hornbeck Seed Co. Inc.	5.1	31	0	0	2850	28.7
DG 33B52	Dynagro Seed UAP	5.2	25	0	0	2500	27.8
HBK R5226	Hornbeck Seed Co. Inc.	5.2	26	0	0	3000	26.2
HBK R4924	Hornbeck Seed Co. Inc.	4.9	33	1	0	2650	25.7
HBK R5425	Hornbeck Seed Co. Inc.	5.4	28	0	0	3300	21.6
DG 31R54	Dynagro Seed UAP	5.4	23	0	0	2750	21.4
DG 37C62	Dynagro Seed UAP	6.2	27	0	0	2650	20.9
KS 5004N (non RR)	Kansas State. Univ.	5.0	19	0	0	2850	16.2
KS 5306NRR	Kansas State. Univ.	5.3	23	0	0	2800	15.9

[1]0 = no shattering or lodging, 5 = very severe shattering or lodging.

[2]Mean yield = 29.7 Bu/Acre. LSD @ .05 = 7.7 Bu/Acre. C.V. = 15.7%.

2008 Chickasha Trial Data

Precipitation



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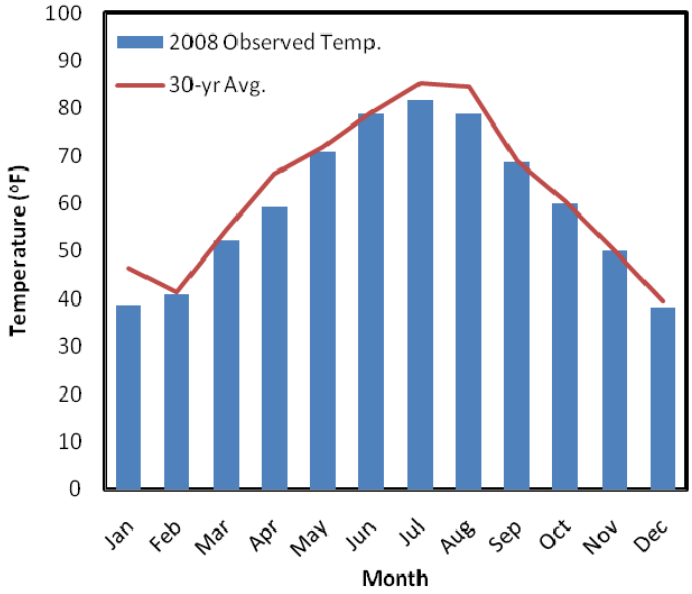


Growing conditions for the early-season test at Chickasha were good. Both tests were stressed for moisture during July. The lack of rainfall during July is probably the cause for low yields in the early-season test. This is evident not only in the grain yields but also the high seeds/lb. Full-season yields were near normal and benefited from timely rains.

Table 9. Information on soil chemical properties and management practices for the Soybean Production Test at Chickasha, OK in 2008.

Soil Properties	Result	Cultural Practice	Information
pH	6.1	Planting Date	4/23 and 6/16[1]
Soil Test P Index	95	Seeding Rate (seeds/foot of row)	8
Soil Test K Index	257	Seeding Depth (in)	1.5
		Irrigation	none
		Harvest Date	10/24 and 10/31[2]
		Soil Moisture at Planting	dry

[1]Planting dates for the early and full season tests, respectively.

[2]Harvest dates for the early and full season tests, respectively.

Table 10. Early-season soybean production variety trail Chickasha, OK 2008.

Variety	Company	Maturity Group	Height	Shattering[1] Score	Lodging[1] Score	Seed/Lb	Yield[2]
			- in -				- bu/acre -
495.RC	Stratton Seed Co.	4.9	32	1	0	2950	18.5
KS 4607 (Non RR)	Kansas State. Univ.	4.6	22	2	0	3550	17.2
HBK R4527	Hornbeck Seed Co. Inc.	4.5	32	3	0	4100	16.7
DG 36C44	Dynagro Seed UAP	4.4	28	2	0	4050	16.4
AG4606	Asgrow	4.6	21	2	0	3250	15.8
HBK R4924	Hornbeck Seed Co. Inc.	4.9	27	1	0	3550	14.9
HBK R5425	Hornbeck Seed Co. Inc.	5.4	30	1	0	4550	14.7
DG 36Y48	Dynagro Seed UAP	4.8	31	1	0	8165	13.8
HBK HX4843	Hornbeck Seed Co. Inc.	4.8	33	2	0	3200	13.6
HBK R5123	Hornbeck Seed Co. Inc.	5.1	30	2	0	3900	13.0
457.RC	Stratton Seed Co.	4.5	34	2	0	3700	12.5
AG 3803	Asgrow	3.8	19	2	0	3300	10.8
GR 4533	Midwest Seed Genetics	4.5	25	1	0	3800	10.5
DG SXO8341	Dynagro Seed UAP	4.1	17	2	0	3100	10.3
DG SXO8940	Dynagro Seed UAP	4.0	17	2	0	3350	9.6
KS 3406RR	Kansas State. Univ.	3.4	31	1	0	3300	8.6
DG 33Y45	Dynagro Seed UAP	4.5	23	2	0	3900	8.1

[1]0 = no shattering or lodging, 5 = very severe shattering or lodging.

[2]Mean yield = 13.2 Bu/Acre. LSD @.05 = 4.1 Bu/acre. C.V. = 18.8%.

Table 11. Full-season soybean production variety trail Chickasha, OK 2008.

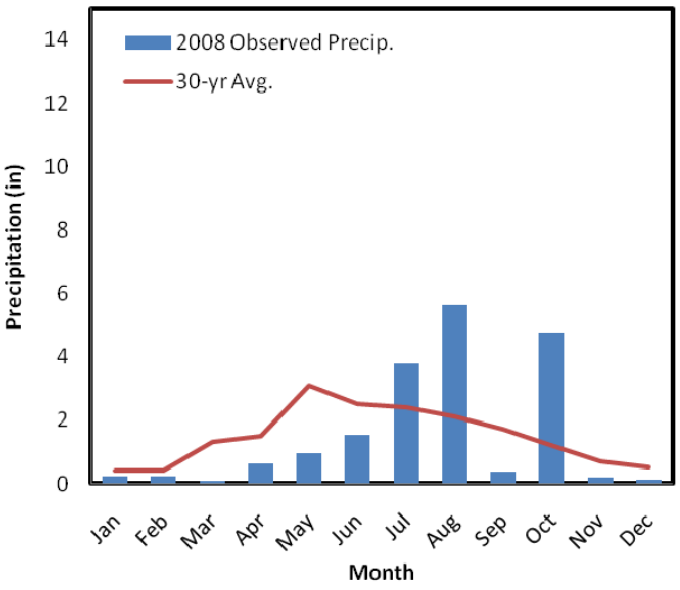
Variety	Company	Maturity Group	Height	Shattering[1] Score	Lodging[1] Score	Seed/Lb	Yield[2]
			- in -				- bu/acre -
DG 31R54	Dynagro Seed UAP	5.4	18	2	0	3300	38.6
DG 36N57	Dynagro Seed UAP	5.7	25	0	0	2800	37.8
DG 33C59	Dynagro Seed UAP	5.9	25	0	0	3500	33.8
KS 5306NRR	Kansas State. Univ.	5.3	24	0	0	3900	33.6
DG 36T60	Dynagro Seed UAP	6.0	24	1	0	3500	33.2
DG 37C62	Dynagro Seed UAP	6.2	24	1	0	3300	33.0
KS 5507NRR	Kansas State. Univ.	5.5	23	0	0	3450	32.9
DG 33B52	Dynagro Seed UAP	5.2	22	0	0	3350	31.5
HBK R5425	Hornbeck Seed Co. Inc.	5.4	23	0	0	3000	31.1
GR 5434	Midwest Seed Genetics	5.4	24	1	0	3250	26.8
NC+5A31RS	NC$^+$ Hybrids	5.3	24	1	0	2750	26.1
HBK R5123	Hornbeck Seed Co. Inc.	5.1	26	0	0	3100	25.5
478.RCS	Stratton Seed Co.	4.7	21	2	0	3000	25.4
HBK R4924	Hornbeck Seed Co. Inc.	4.9	24	2	0	2950	24.1
HBK R5525	Hornbeck Seed Co. Inc.	5.5	21	1	0	3150	22.2
HBK R5226	Hornbeck Seed Co. Inc.	5.2	24	1	0	3200	20.9
DG 33X55	Dynagro Seed UAP	5.5	18	1	0	2850	20.6
NC+4A81RS	NC$^+$ Hybrids	4.8	19	2	0	2950	16.7
495.RC	Stratton Seed Co.	4.9	22	2	0	3050	15.8
KS 5004N (non RR)	Kansas State. Univ.	5.0	22	1	0	3000	14.8
GR 5031	Midwest Seed Genetics	5.0	24	2	0	3250	13.0

[1]0 = no shattering or lodging, 5 = very severe shattering or lodging.

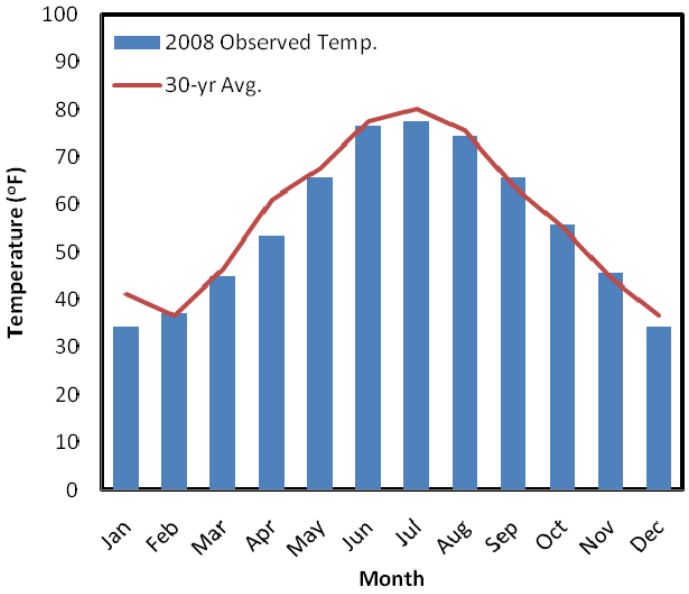
[2]Mean yield = 26.5 Bu/Acre. LSD @.05 = 10.4 Bu/Acre. C.V. = 23.8%.

2008 Goodwell Trial Data

Precipitation



Temperature



The early-season test was planted 2 weeks later than the optimum date so this decreased yield potential. Average yields for both test were a little low, This may be a reflection of planting date.

Table 12. Information on soil chemical properties and management practices for the Soybean Production Test at Goodwell, OK in 2008.

Soil Properties	Result	Cultural Practice	Information
pH	na[1]	Planting Date	5/12[2]
Soil Test P Index	na	Seeding Rate (seeds/foot of row)	8
Soil Test K Index	na	Seeding Depth (in)	1
		Harvest Dates	10/10/2008[3]
		Irrigation	as needed

[1]Not available.

[2]Planting dates for the early and full season tests.

[3]Harvest dates for the early and full season tests.

Table 13. Early-season soybean production variety trail Goodwell, OK 2008.

Variety	Company	Maturity Group	Height	Shattering[1] Score	Lodging[1] Score	Seed/Lb	Yield[2]
			- in -				- bu/acre -
HBK R4924	Hornbeck Seed Co. Inc.	4.9	na	na	na	3450	38.6
HBK HX4843	Hornbeck Seed Co. Inc.	4.8	na	na	na	3800	37.3
HBK R4527	Hornbeck Seed Co. Inc.	4.5	na	na	na	3600	35.8
DG 36Y48	Dynagro Seed UAP	4.8	na	na	na	3300	34.7
HBK R5425	Hornbeck Seed Co. Inc.	5.4	na	na	na	3350	33.9
495.RC	Stratton Seed Co.	4.9	na	na	na	3650	31.9
DG SXO8940	Dynagro Seed UAP	4.0	na	na	na	4500	31.1
HBK R5123	Hornbeck Seed Co. Inc.	5.1	na	na	na	3300	31.1
457.RC	Stratton Seed Co.	4.5	na	na	na	4150	31.1
GR 4533	Midwest Seed Genetics	4.5	na	na	na	3050	31.1
AG 3803	Asgrow	3.8	na	na	na	440	28.0
DG 36C44	Dynagro Seed UAP	4.4	na	na	na	4150	27.8
AG4606	Asgrow	4.6	na	na	na	3700	26.7
DG 33Y45	Dynagro Seed UAP	4.5	na	na	na	3450	25.2
KS 4607 (Non RR)	Kansas State. Univ.	4.6	na	na	na	3200	23.6
KS 3406RR	Kansas State. Univ.	3.4	na	na	na	3450	22.3
DG SXO8341	Dynagro Seed UAP	4.1	na	na	na	4150	20.2

[1]0 = no shattering or lodging, 5 = very severe shattering or lodging.

[2]Mean yield = 30 Bu/Acre. LSD @.05 = 8.3 Bu/acre. C.V. = 16.5%.

Table 14. Full-season soybean production variety trail Goodwell, OK 2008.

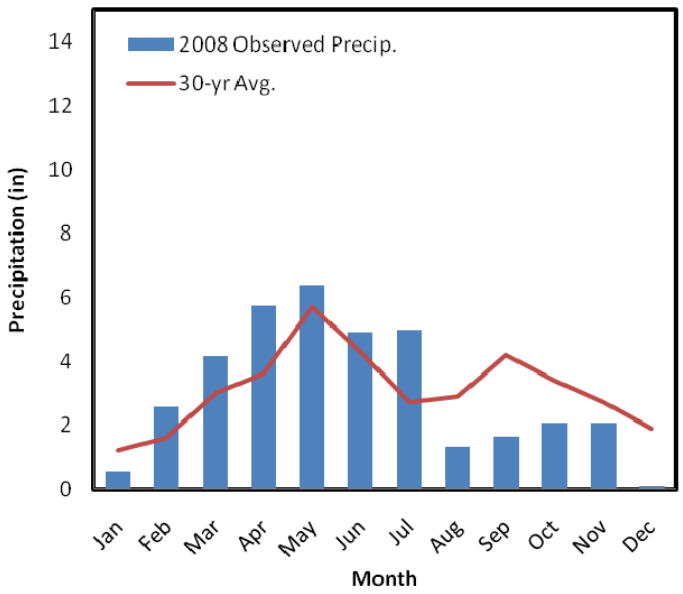
Variety	Company	Maturity Group	Height	Shattering[1] Score	Lodging[1] Score	Seed/Lb	Yield[2]
			- in -				- bu/acre -
DG 33C59	Dynagro Seed UAP	5.9	na	na	na	3450	32.4
HBK R4924	Hornbeck Seed Co. Inc.	4.9	na	na	na	3300	30.6
KS 5507NRR	Kansas State. Univ.	5.5	na	na	na	4500	29.6
NC+4A81RS	NC$^+$Hybrids	4.8	na	na	na	3350	28.3
HBK R5123	Hornbeck Seed Co. Inc.	5.1	na	na	na	3600	27.2
DG 33B52	Dynagro Seed UAP	5.2	na	na	na	4150	26.9
KS 5306NRR	Kansas State. Univ.	5.3	na	na	na	3700	26.6
HBK R5525	Hornbeck Seed Co. Inc.	5.5	na	na	na	3300	25.7
GR 5434	Midwest Seed Genetics	5.4	na	na	na	420	25.7
HBK R5226	Hornbeck Seed Co. Inc.	5.2	na	na	na	3800	25.5
DG 33X55	Dynagro Seed UAP	5.5	na	na	na	3450	25.4
DG 31R54	Dynagro Seed UAP	5.4	na	na	na	4150	25.2
GR 5031	Midwest Seed Genetics	5.0	na	na	na	3900	25.1
NC+5A31RS	NC$^+$Hybrids	5.3	na	na	na	3050	24.9
DG 36T60	Dynagro Seed UAP	6.0	na	na	na	3650	24.5
DG 36N57	Dynagro Seed UAP	5.7	na	na	na	4150	24.2
DG 37C62	Dynagro Seed UAP	6.2	na	na	na	4150	23.6
HBK R5425	Hornbeck Seed Co. Inc.	5.4	na	na	na	3450	23.3
478.RCS	Stratton Seed Co.	4.7	na	na	na	3650	22.1
495.RC	Stratton Seed Co.	4.9	na	na	na	3200	22.0
KS 5004N (non RR)	Kansas State. Univ.	5.0	na	na	na	4400	16.1

[1]0 = no shattering or lodging, 5 = very severe shattering or lodging.

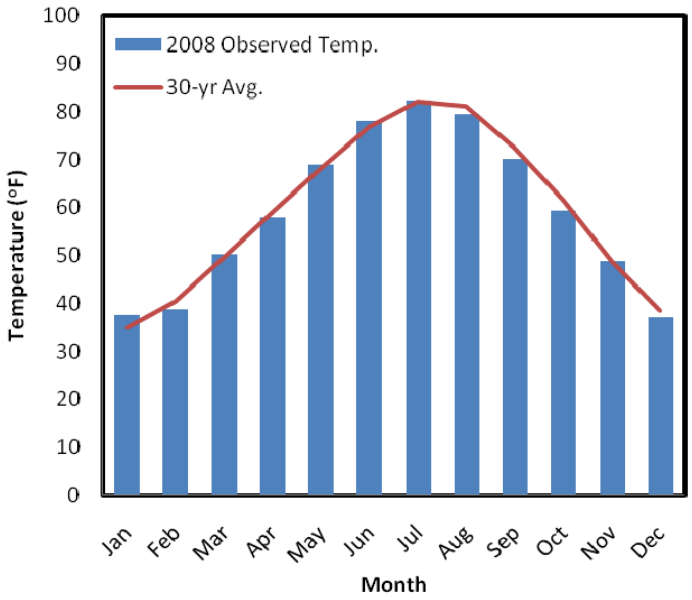
[2]Mean yield = 25.5 Bu/Acre. LSD @ .05 = 5.0 Bu/Acre. C.V. = 11.9%.

2008 Stillwater Trial Data

Precipitation



Temperature



Growing conditions for the early-season test at Stillwater were excellent. Average grain yield across all varieties was 56.4 bu/ac, which is excellent. This location was never stressed for moisture and had little to no pest pressure.

Table 15. Information on soil chemical properties and management practices for the Soybean Production Test at Stillwater, OK in 2008.

Soil Properties	Result
pH	6.1
Soil Test P Index	29
Soil Test K Index	161

Cultural Practice	Information
Planting Date	4/17[1]
Seeding Rate (seeds/foot of row)	8
Seeding Depth (in)	1
Irrigation	none
Harvest Date	9/24[2]
Soil Moisture at Planting	good

[1]Planting dates for the early season test.

[2]Harvest dates for early season test.

Table 16. Early-season soybean production variety trail Stillwater, OK 2008.

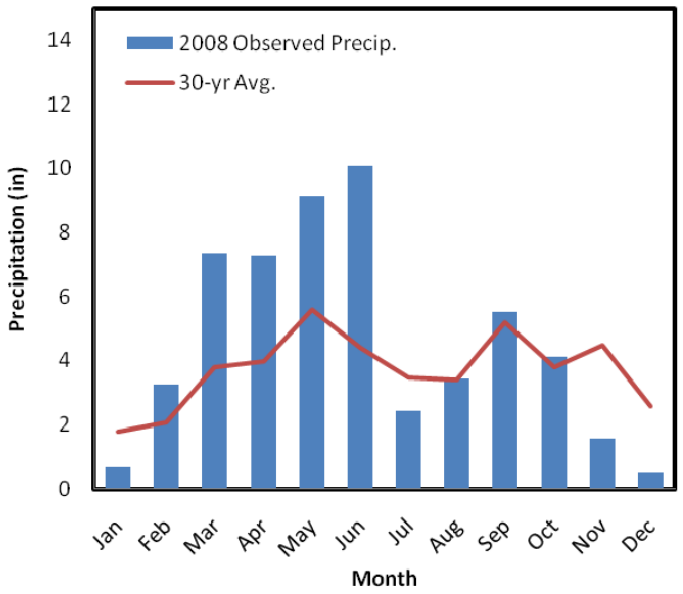
Variety	Company	Maturity Group	Height	Shattering[1] Score	Lodging[1] Score	Seed/Lb	Yield[2]
			- in -				- bu/acre -
DG 36C44	Dynagro Seed UAP	4.4	31	0	0	2650	69.0
KS 4607 (Non RR)	Kansas State. Univ.	4.6	25	0	0	2700	66.6
HBK R4527	Hornbeck Seed Co. Inc.	4.5	47	0	2	3650	63.3
495.RC	Stratton Seed Co.	4.9	45	0	2	3550	63.3
DG SXO8940	Dynagro Seed UAP	4.0	34	0	0	3450	62.9
HBK HX4843	Hornbeck Seed Co. Inc.	4.8	50	0	2	3450	62.8
GR 4533	Midwest Seed Genetics	4.5	38	1	1	3650	62.3
AG4606	Asgrow	4.6	33	0	0	3300	61.2
AG 3803	Asgrow	3.8	28	1	0	3200	59.7
DG SXO8341	Dynagro Seed UAP	4.1	35	0	0	3050	57.7
457.RC	Stratton Seed Co.	4.5	32	0	1	3700	57.1
KS 3406RR	Kansas State. Univ.	3.4	29	1	0	2550	55.0
HBK R4924	Hornbeck Seed Co. Inc.	4.9	49	0	2	3700	51.6
DG 33Y45	Dynagro Seed UAP	4.5	33	0	1	3200	49.3
DG 36Y48	Dynagro Seed UAP	4.8	42	0	1	3600	49.2
HBK R5123	Hornbeck Seed Co. Inc.	5.1	56	0	2	3250	37.0
HBK R5425	Hornbeck Seed Co. Inc.	5.4	48	0	1	3750	30.9

[1]0 = no shattering or lodging, 5 = very severe shattering or lodging.

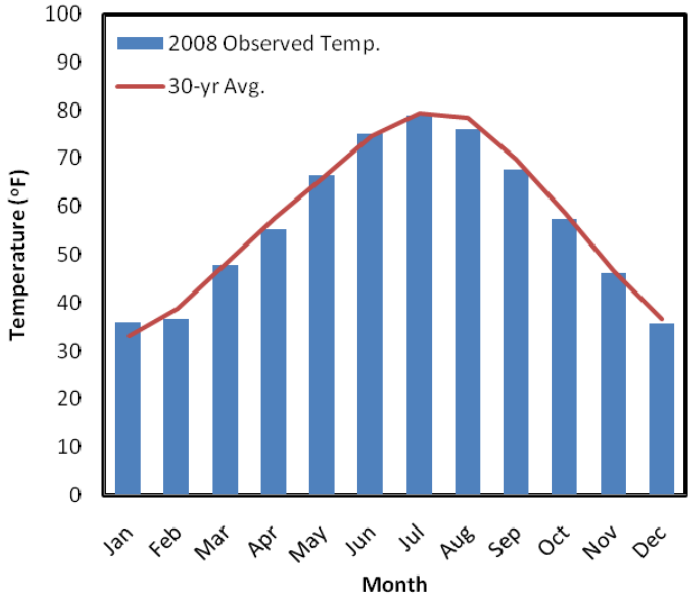
[2]Mean yield = 56.4 Bu/Acre. LSD @.05 = 9.9 Bu/acre. C.V. = 10.5%.

2008 Miami Trial Data

Precipitation



Temperature



Growing conditions for the full-season test at Miami were excellent. This was a double-crop test planted after wheat on a producer's field. Average grain yield across all varieties was 32.3 bu/ac.

Table 17. Information on soil chemical properties and management practices for the Soybean Production Test at Miami, OK in 2008.

Soil Properties	Result
pH	na
Soil Test P Index	na
Soil Test K Index	na

Cultural Practice	Information
Planting Date	6/26[1]
Seeding Rate (seeds/foot of row)	8
Seeding Depth (in)	1
Irrigation	none
Harvest Date	11/4/2008[2]
Soil Moisture at Planting	good

[1]Planting dates for the full season test.

[2]Harvest dates for full season test.

Table 18. Full-season glyphosate resistant soybean production variety trail Miami, OK 2008.

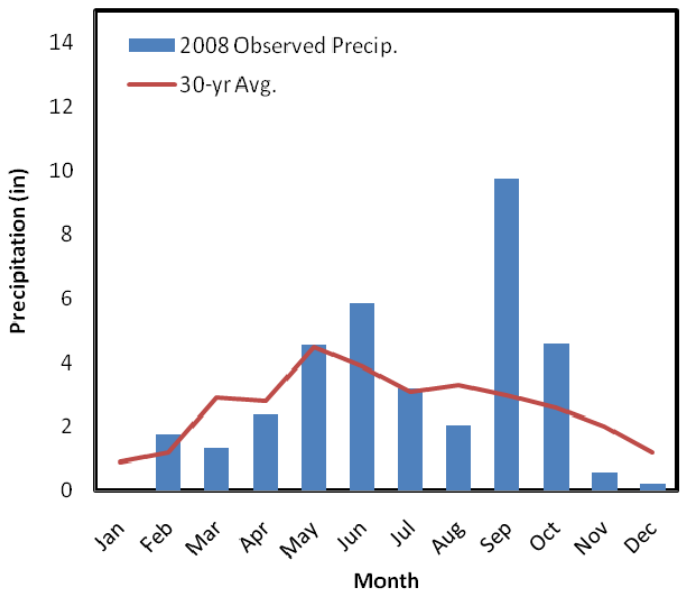
Variety	Company	Maturity Group	Height	Shattering[1] Score	Lodging[1] Score	Seed/Lb	Yield[2]
			- in -				- bu/acre -
HBK R5425	Hornbeck Seed Co. Inc.	5.4	26	0	0	2700	43.6
HBK R5525	Hornbeck Seed Co. Inc.	5.5	27	0	0	2950	41.1
DG 31R54	Dynagro Seed UAP	5.4	27	0	0	3100	40.5
GR 5434	Midwest Seed Genetics	5.4	20	0	0	3100	37.7
DG 33B52	Dynagro Seed UAP	5.2	24	0	0	2900	37.3
GR 5031	Midwest Seed Genetics	5.0	24	0	0	2850	37.1
478.RCS	Stratton Seed Co.	4.7	23	0	0	3000	37.0
HBK R5226	Hornbeck Seed Co. Inc.	5.2	25	0	0	2950	34.9
HBK R4924	Hornbeck Seed Co. Inc.	4.9	26	0	0	2950	34.6
KS 5507NRR	Kansas State. Univ.	5.5	24	0	0	3350	32.9
KS 5306NRR	Kansas State. Univ.	5.3	23	0	0	2900	32.8
DG 33X55	Dynagro Seed UAP	5.5	18	0	0	2800	30.3
DG 33C59	Dynagro Seed UAP	5.9	24	0	0	2850	30.1
495.RC	Stratton Seed Co.	4.9	30	0	0	2900	27.8
NC+4A81RS	NC$^+$ Hybrids	4.8	20	0	0	3150	27.6
DG 36T60	Dynagro Seed UAP	6.0	25	0	0	3200	26.9
NC+5A31RS	NC$^+$ Hybrids	5.3	30	0	0	2800	25.6
DG 37C62	Dynagro Seed UAP	6.2	22	0	0	3300	24.8
HBK R5123	Hornbeck Seed Co. Inc.	5.1	28	0	0	3050	23.6
DG 36N57	Dynagro Seed UAP	5.7	22	0	0	3000	20.1

[1]0 = no shattering or lodging, 5 = very severe shattering or lodging.

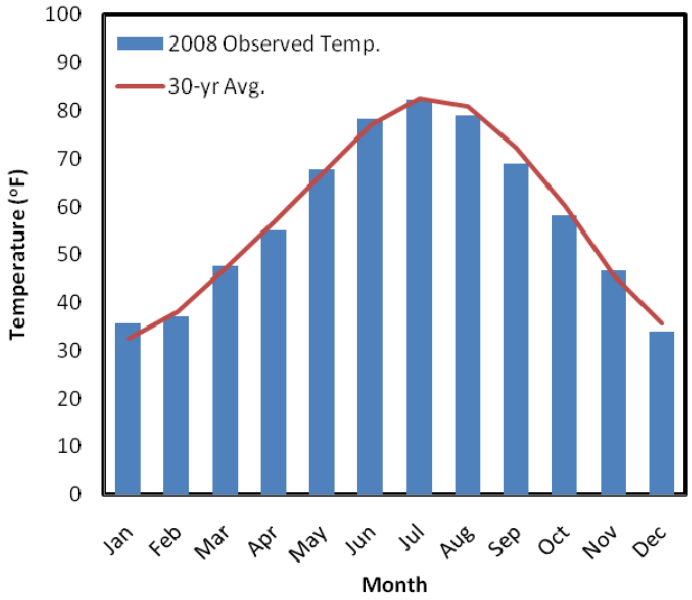
[2]**Mean yield = 32.3 Bu/Acre. LSD @ .05 = 11.2 Bu/Acre. C.V. = 20.9%.**

2008 Cherokee Trial Data

Precipitation



Temperature



Growing conditions at the Cherokee location were good. Plots were stressed for moisture during August but recovered with rainfall in September. This was a double-crop test planted after wheat on a producer's field. Average grain yield across all varieties was 26 bu/ac. This is a very good average for the area and being double-crop.

Table 19. Information on soil chemical properties and management practices for the Soybean Production Test at Cherokee, OK in 2008.

Soil Properties	Result	Cultural Practice	Information
pH	5.9	Planting Date	6/24[1]
Soil Test P Index	40	Seeding Rate (seeds/foot of row)	8
Soil Test K Index	575	Seeding Depth (in)	1
		Irrigation	none
		Harvest Date	11/18[2]
		Soil Moisture at Planting	good

[1]Planting dates for the full season test.

[2]Harvest dates for full season test.

Table 20. Full-season glyphosate resistant soybean production variety trail Cherokee, OK 2008.

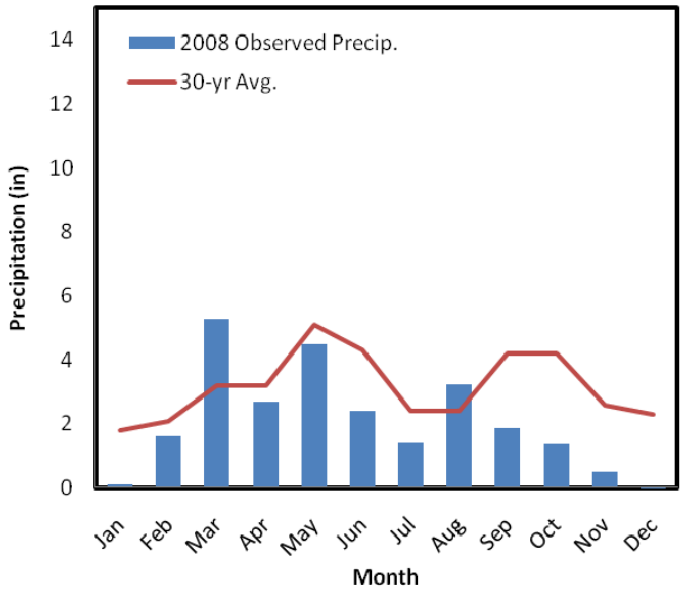
Variety	Company	Maturity Group	Height	Shattering[1] Score	Lodging[1] Score	Seed/Lb	Yield[2]
			- in -				- bu/acre -
495.RC	Stratton Seed Co.	4.9	20	0	0	2700	33.3
DG 33X55	Dynagro Seed UAP	5.5	21	0	0	2400	31.5
DG 37C62	Dynagro Seed UAP	6.2	27	0	0	2400	31.2
HBK R5525	Hornbeck Seed Co. Inc.	5.5	24	0	0	2350	31.0
HBK R5123	Hornbeck Seed Co. Inc.	5.1	26	0	0	2400	29.9
DG 36T60	Dynagro Seed UAP	6.0	26	0	0	2450	29.9
DG 31R54	Dynagro Seed UAP	5.4	22	0	0	2750	29.4
HBK R5226	Hornbeck Seed Co. Inc.	5.2	21	0	0	2350	28.1
KS 5306NRR	Kansas State. Univ.	5.3	16	0	0	2650	27.8
NC+4A81RS	NC$^+$ Hybrids	4.8	23	0	0	2700	27.8
DG 33C59	Dynagro Seed UAP	5.9	24	0	0	2500	26.5
GR 5031	Midwest Seed Genetics	5.0	22	0	0	2450	26.5
HBK R5425	Hornbeck Seed Co. Inc.	5.4	28	0	0	2450	25.4
GR 5434	Midwest Seed Genetics	5.4	24	0	0	2800	24.3
DG 33B52	Dynagro Seed UAP	5.2	18	0	0	2550	23.8
DG 36N57	Dynagro Seed UAP	5.7	21	0	0	2400	19.8
HBK R4924	Hornbeck Seed Co. Inc.	4.9	24	0	0	2500	19.6
478.RCS	Stratton Seed Co.	4.7	24	0	0	2450	19.3
NC+5A31RS	NC$^+$ Hybrids	5.3	24	0	0	2500	18.8
KS 5507NRR	Kansas State. Univ.	5.5	19	0	0	2800	15.6

[1]0 = no shattering or lodging, 5 = very severe shattering or lodging.

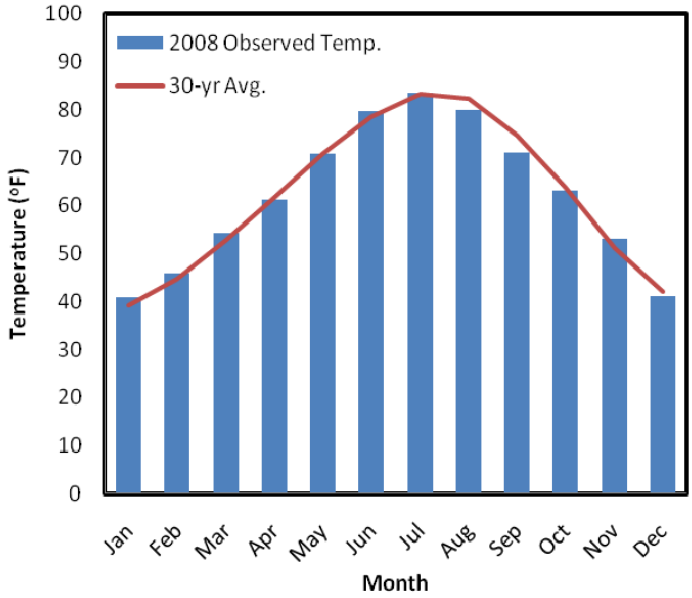
[2]**Mean yield = 26 Bu/Acre. LSD @ .05 = 9.0 Bu/Acre. C.V. = 21.1%.**

2008 Ardmore Trial Data

Precipitation



Temperature



The growing conditions during the season at Ardmore were characterized by below normal precipitation. However, grain yields were decent despite the below normal precipitation. Average grain yield across all varieties was 22.9 bu/ac.

Table 21. Information on soil chemical properties and management practices for the Soybean Production Test at Ardmore, OK in 2008.

Soil Properties	Result	Cultural Practice	Information
pH	6.0	Planting Date	6/19[1]
Soil Test P Index	30	Seeding Rate (seeds/foot of row)	8
Soil Test K Index	330	Seeding Depth (in)	1
		Irrigation	none
		Harvest Date	10/30[2]
		Soil Moisture at Planting	good

[1]Planting dates for the full season test.

[2]Harvest dates for full season test.

Table 22. Full-season glyphosate resistant soybean production variety trail Ardmore, OK 2008.

Variety	Company	Maturity Group	Height	Shattering[1] Score	Lodging[1] Score	Seed/Lb	Yield[2]
			- in -				- bu/acre -
HBK R5425	Hornbeck Seed Co. Inc.	5.4	24	0	0	3600	35.1
DG 36N57	Dynagro Seed UAP	5.7	20	1	0	3200	30.8
HBK R5123	Hornbeck Seed Co. Inc.	5.1	24	0	0	3050	30.5
DG 33B52	Dynagro Seed UAP	5.2	19	0	0	360	29.2
KS 5507NRR	Kansas State. Univ.	5.5	16	1	0	3300	27.4
DG 36T60	Dynagro Seed UAP	6.0	24	2	0	2950	27.2
KS 5306NRR	Kansas State. Univ.	5.3	21	0	0	3200	25.7
NC+5A31RS	NC$^+$ Hybrids	5.3	24	1	0	3350	25.0
DG 37C62	Dynagro Seed UAP	6.2	118	0	0	3050	24.1
DG 31R54	Dynagro Seed UAP	5.4	16	1	0	2950	22.9
DG 33X55	Dynagro Seed UAP	5.5	18	1	0	3250	21.4
495.RC	Stratton Seed Co.	4.9	25	2	0	3200	21.1
HBK R4924	Hornbeck Seed Co. Inc.	4.9	24	1	0	3600	20.9
HBK R5226	Hornbeck Seed Co. Inc.	5.2	16	1	0	3350	20.1
DG 33C59	Dynagro Seed UAP	5.9	23	1	0	2950	19.0
HBK R5525	Hornbeck Seed Co. Inc.	5.5	15	0	0	3000	18.5
NC+4A81RS	NC$^+$ Hybrids	4.8	22	2	0	3200	18.3
GR 5434	Midwest Seed Genetics	5.4	15	2	0	2700	17.0
478.RCS	Stratton Seed Co.	4.7	18	2	0	3400	12.6
GR 5031	Midwest Seed Genetics	5.0	22	2	0	2950	10.7

[1]0 = no shattering or lodging, 5 = very severe shattering or lodging.

[2]**Mean yield = 22.9 Bu/Acre. LSD @ .05 = 6.5 Bu/Acre. C.V. = 17.3%.**