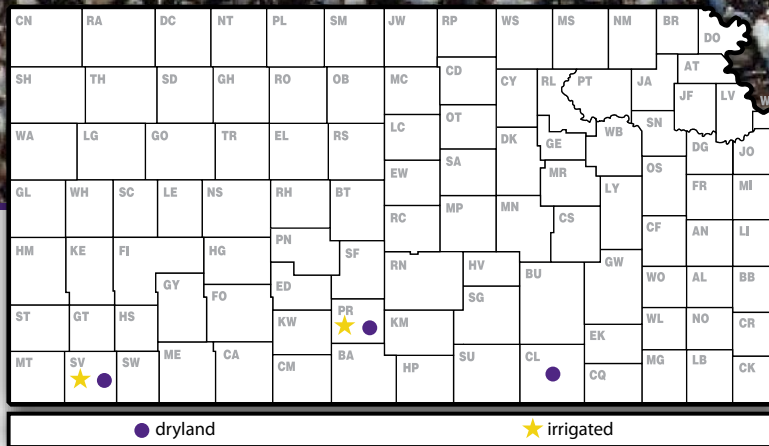


2012 Kansas Performance Tests with

Cotton Varieties



Report of Progress 1082



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2012 Performance Tests

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Electronic Access and University Research Policy	back cover

Entrants in 2012 Kansas Cotton Performance Tests

Americot/Nexgen Americot, Inc. Lubbock, TX 806-793-1431	All-Tex Seed Inc. Levelland, TX 800-725-5839	PhytoGen Dow AgroSciences Indianapolis, IN 317-337-3000
DP&L (Deltapine) Monsanto St. Louis, MO 800-511-SEED	Fiber Max/ Stoneville Bayer CropScience Research Triangle Park, NC 866-99-BAYER	

Contribution no. 13-304-S from the Kansas Agricultural Experiment Station.

2012 PERFORMANCE TESTS

Objectives and Procedures

The Kansas Agricultural Experiment Station established an official cotton testing program in 1980 to provide Kansas growers with unbiased performance comparisons of cotton varieties marketed in the state. Companies enter varieties of their choice and pay entry fees to cover part of the costs of conducting the tests.

Descriptive information is presented with the results for each test. This information, including soil type, establishment methods, irrigation, harvest dates, and growing conditions unique to that location, can help explain test and/or variety performance.

In addition to lint yield and the yield as a percentage of test average, each table includes observations on cotton fiber quality. Each bale receives a rating on micronaire (Mic), length, uniformity index, strength, and color grade.

At the bottom of each column, the least significant difference (LSD) is listed at the 0.05 level. These values indicate how large of a difference is needed to be confident that one variety is superior to another. Differences between varieties that are equal to or greater than the 0.05 LSD have only a 1 in 20 chance of being due to chance or error.

The coefficient of variability (CV) provides an estimate of the consistency of the results of a particular test. In these tests, CV less than 10% generally indicates reliable, uniform data, whereas CV of 10 to 15% are not uncommon and generally indicate the data are acceptable for rough comparisons. Tests with CV greater than 15% still may be useful, but variety comparisons lack precision.

Harvest Statistics

The 2012 crop produced an estimated 65,000 bales. Yields averaged 578 pounds per acre, which is up from the previous year's yield of 510 pounds per acre. Harvested acreage, at 54,000 acres, is down 11,000 acres from last year (Kansas Agricultural Statistics Service, Topeka).

Statewide Growing Conditions

Weather conditions throughout the cotton growing region in Kansas, especially south central and southwest, were dominated by above-normal temperatures and heat unit accumulations and below-normal precipitation. At all testing locations in 2012, in-season precipitation was several inches below normal along with above-normal heat unit accumulation. Despite challenging environmental conditions, all sites that were planted were harvested for yield.

A positive aspect to the heat was the accumulation of heat units, typically a leading challenge in Kansas cotton production. All locations had cumulative heat unit accumulation significantly above normal. Although in some cases drought stress limited boll number per plant, the heat units allowed for a higher percentage of harvestable bolls and had a positive impact on fiber quality. In scenarios where irrigation was adequate, cotton yields were quite productive.

Production

Detailed information on planting, fertilizing, weed control, and disease and insect control can be found in the *Cotton Production in Kansas* publication issued by the Kansas State University Agricultural Experiment Station and Cooperative Extension Service at:

<http://www.ksre.ksu.edu/bookstore/pubs/mf1088.pdf>

Economic Cost-Return Analysis Worksheets from the K-State Department of Agricultural Economics are available by region and production system.

Southwest Dryland:

<http://www.ksre.ksu.edu/bookstore/pubs/MF2565.pdf>

Southwest Irrigated:

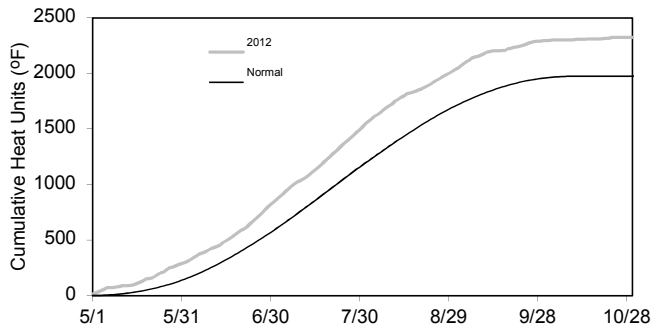
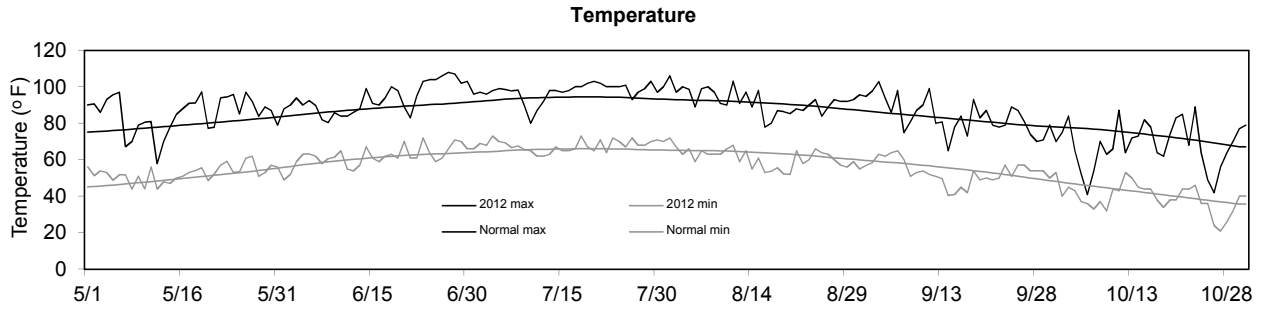
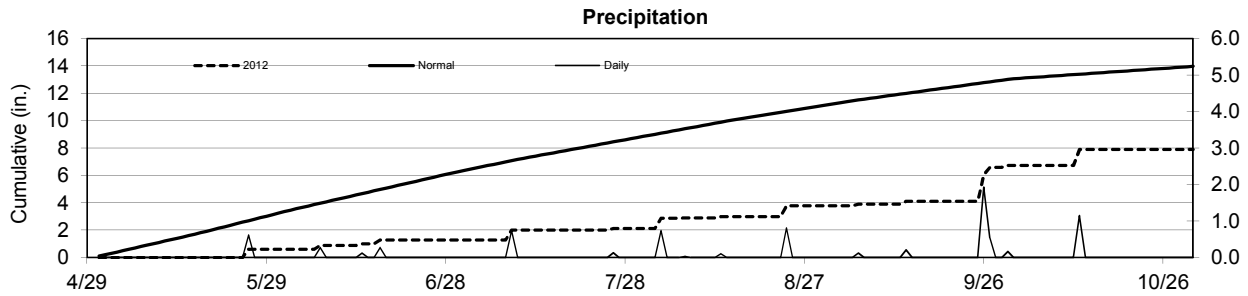
<http://www.ksre.ksu.edu/bookstore/pubs/MF2567.pdf>

South Central and Southeast:

<http://www.ksre.ksu.edu/bookstore/pubs/MF939.pdf>

Stevens County Irrigated Cotton Performance Test, 2012

County: Stevens Co. Irrigated	Soil Test:	P (ppm) -	pH -
Location: Lahey Farms (Moscow)		K (ppm) -	O.M. (%) -
Soil Type: Zelia loam	Previous Crop: Cotton		
Seeding Rate: 70,000 seed/a			
Dates:			
Planting: 5/19/2012			
Harvest: 10/23/2012			



Month	Avg Temp		Precipitation		GDD	
	2012	Normal	2012	Normal	2012	Normal
May	69	64	0.6	3.2	288	138
June	78	74	0.7	3.0	532	431
July	83	80	0.9	2.6	698	607
Aug	77	77	1.7	2.3	512	528
Sept	69	68	3.0	1.9	266	253
Oct	54	56	1.2	1.0	29	16
Total	71	70	7.9	14.0	2324	1972

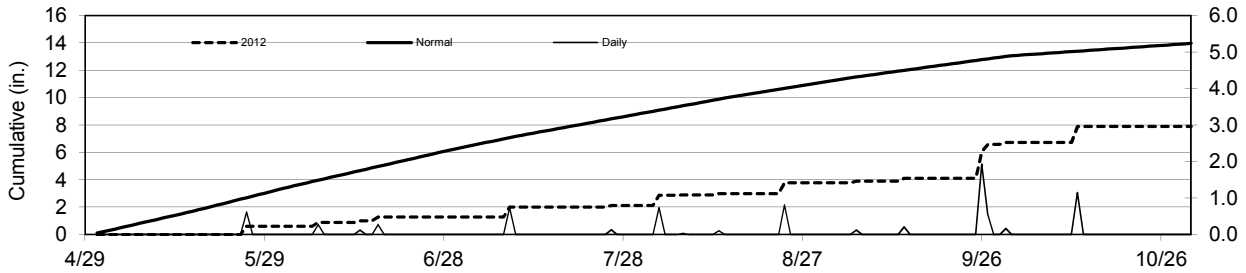
Table 1. Stevens County Irrigated Cotton Performance Test, 2012

		Lint yield, lb/a					2012								
Company	Variety	2012	2011	2010	2-yr avg	3-yr avg	Yield		Length in.	Unif. %	Strength g/tex	Color			
							% of test avg	% lint				Mic	grade		
DP&L	DP_1321B2RF	1425	--	--	--	--	115	0.341	4.46	1.12	82.37	32.73	52	1	
All-Tex	Edge_B2RF	1360	1317	--	1339	--	110	0.318	4.45	1.11	80.90	29.73	51	2	
DP&L	DP_1212B2RF	1302	1261	--	1281	--	105	0.332	4.63	1.13	83.50	32.97	52	1	
All-Tex	Epic_RF	1282	1121	--	1201	--	104	0.330	4.35	1.09	81.77	29.57	42	2	
All-Tex	Rapid_B2RF	1276	1268	--	1272	--	103	0.325	4.74	1.11	82.67	31.63	61	1	
Nexgen	NG_1572RF	1243	--	1743	--	--	101	0.329	4.02	1.09	82.10	28.80	51	4	
All-Tex	ATX9CR253_B2RF	1236	--	--	--	--	100	0.309	4.69	1.13	82.73	31.33	41	1	
DP&L	DP_1311B2RF	1212	--	--	--	--	98	0.342	4.13	1.10	81.83	30.13	51	1	
Nexgen	NG_2549B2RF	1202	1319	1909	1261	1477	97	0.322	4.87	1.04	82.77	29.97	62	1	
PhytoGen	PHY367_WRF	1188	1103	2077	1145	1456	96	0.317	4.52	1.11	81.80	30.87	52	2	
All-Tex	Nitro_B2RF	1185	--	--	--	--	96	0.325	4.13	1.17	84.00	34.37	61	3	
PhytoGen	PHY_375_WRF	1182	911	2075	1047	1389	96	0.331	4.34	1.08	80.23	28.13	51	3	
DP&L	DP_104_B2RF	1160	1174	2078	1167	1470	94	0.306	4.36	1.12	82.60	33.37	51	3	
Nexgen	NG_3348B2RF	1148	1099	--	1123	--	93	0.321	4.22	1.10	81.53	29.77	51	3	
Fibermax	FM_9180B2F	1129	1173	1904	1151	1402	91	0.298	4.34	1.14	83.60	31.90	51	1	
Fibermax	FM_2011GT	1112	1266	--	1189	--	90	0.334	4.36	1.11	81.67	29.93	51	1	
Fibermax	FM_9250GTLL	1049	1194	--	1122	--	85	0.313	4.44	1.11	82.97	29.80	51	1	
Nexgen	NG_1551_RF	1031	--	1672	--	--	84	0.289	4.73	1.09	82.50	32.37	52	1	
Nexgen	NG_2051B2RF	1022	1000	--	1011	--	83	0.295	4.70	1.08	80.90	28.13	51	2	
All-Tex	ATX784381RF	1011	--	--	--	--	82	0.311	3.66	1.12	81.80	29.33	41	4	
Average		1234	1200	2017	1217	1484	100	0.321	4.41	1.11	82.21	30.74	--	--	
CV (%)		17	18	17	18	17		5.179	7	3	1	6	--	--	
LSD(0.05)		221	227	432	224	293		0.011	0.22	0.04	1.29	1.51	--	--	

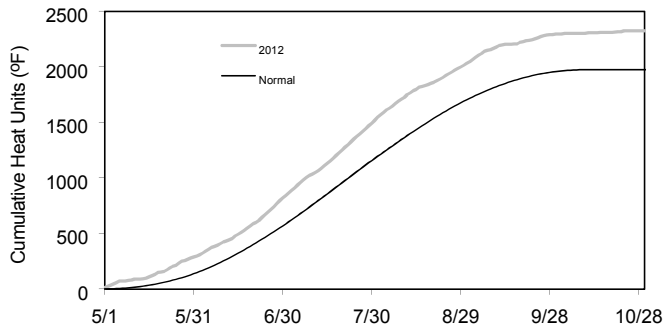
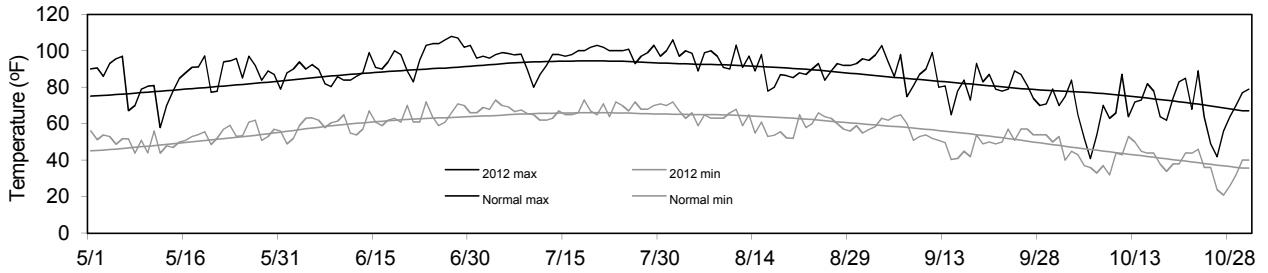
Stevens County Dryland Cotton Performance Test, 2012

County:	Stevens Co. Demonstration	Soil Test:	P (ppm) 0	pH 0
Location:	Marcus Howe (Moscow)		K (ppm) 0	O.M. (%) --
Soil Type:	Hugoton and Zelia loams	Previous Crop:	Wheat	
Seeding Rate:	36,000 seed/a			
Dates:				
Planting:	5/19/2012			
Harvest:	10/23/2012			

Precipitation



Temperature



Month	Avg Temp		Precipitation		GDD	
	2012	Normal	2012	Normal	2012	Normal
May	69	64	0.6	3.2	288	138
June	78	74	0.7	3.0	532	431
July	83	80	0.9	2.6	698	607
Aug	77	77	1.7	2.3	512	528
Sept	69	68	3.0	1.9	266	253
Oct	54	56	1.2	1.0	29	16
Total	71	70	7.9	14.0	2324	1972

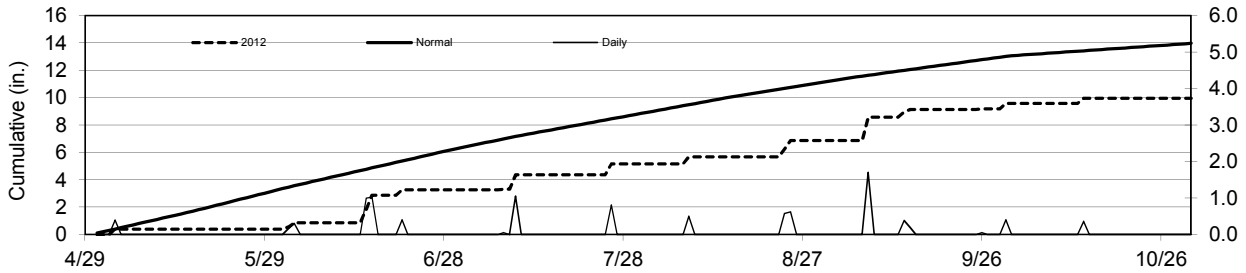
Table 2. Stevens County Dryland Cotton Performance Test, 2012

		Lint yield, lb/a					2012							
Company	Variety	2012	2011	2010	2-yr avg	3-yr avg	Yield	%	Length	Unif.	Strength	Color		
							% of test avg	lint					Mic	in.
DP&L	DP0912_B2RF	472	--	--	--	--	123	0.329	4.24	1.03	79.43	28.07	41	4
PhytoGen	PHY499_WRF	458	--	--	--	--	119	0.340	4.25	1.09	81.20	29.80	41	4
DP&L	DP_1212B2RF	446	--	--	--	--	116	0.333	4.41	1.10	82.20	31.00	52	1
DP&L	DP_1321B2RF	440	--	--	--	--	115	0.343	4.31	1.07	80.85	29.60	41	3
All-Tex	Edge_B2RF	422	--	--	--	--	110	0.303	4.28	1.05	79.85	26.50	51	3
Nexgen	NG_2549B2RF	416	--	--	--	--	108	0.315	4.50	1.00	80.15	28.05	52	1
PhytoGen	PHY_375_WRF	416	--	--	--	--	108	0.329	4.23	1.06	79.70	26.60	51	1
Nexgen	NG_1551_RF	414	--	--	--	--	108	0.295	4.66	1.07	79.25	29.00	42	2
DP&L	DP_1219B2RF	413	--	--	--	--	107	0.321	3.94	1.11	79.05	29.15	41	3
All-Tex	Rapid_B2RF	400	--	--	--	--	104	0.312	4.51	1.10	81.30	30.95	51	2
Nexgen	NG_1572RF	399	--	--	--	--	104	0.314	3.79	1.03	78.15	26.30	41	2
DP&L	DP_104_B2RF	388	--	--	--	--	101	0.292	3.89	1.09	81.45	31.00	51	3
Fibermax	FM_1740B2F	380	--	--	--	--	99	0.331	4.20	1.06	80.55	27.90	41	1
Nexgen	NG_3348B2RF	371	--	--	--	--	97	0.308	3.88	1.06	80.15	28.20	42	2
Fibermax	FM_2011GT	370	--	--	--	--	96	0.327	4.15	1.07	80.50	28.10	41	2
All-Tex	Epic_RF	364	--	--	--	--	95	0.323	4.17	1.05	80.00	27.30	42	1
Nexgen	NG_2051B2RF	354	--	--	--	--	92	0.293	3.91	1.05	77.95	25.55	51	1
Fibermax	FM1944GLB2	340	--	--	--	--	89	0.295	4.20	1.11	79.60	27.30	41	2
DP&L	DP_1311B2RF	334	--	--	--	--	87	0.315	3.77	1.06	79.25	26.60	51	1
Fibermax	FM_9180B2F	334	--	--	--	--	87	0.285	4.10	1.09	81.00	29.45	41	2
All-Tex	ATX784381RF	326	--	--	--	--	85	0.304	3.61	1.09	80.40	26.60	41	1
Fibermax	FM_9250GTL	323	--	--	--	--	84	0.294	3.73	1.08	79.60	27.45	41	2
Average		384	--	--	--	--	100	0.315	4.12	1.07	80.05	28.20	--	--
CV (%)		20	--	--	--	--		6.000	8	3	1	6	--	--
LSD(0.05)		78	--	--	--	--		0.012	0.30	0.04	1.42	1.89	--	--

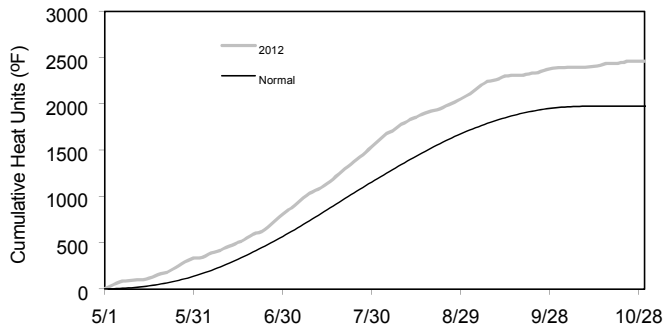
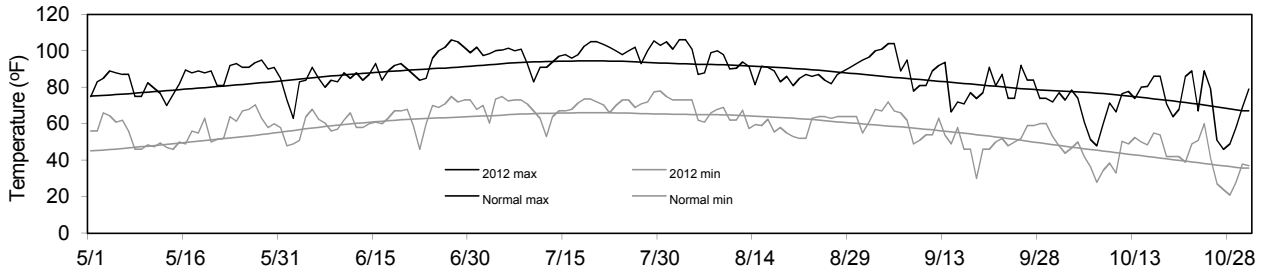
Pratt County Irrigated Cotton Performance Test, 2012

County: Pratt Co. Irrigated	Soil Test:	P (ppm) 0	pH 0
Location: Stuart Briggeman Farm (Cullison)		K (ppm) 0	O.M. (%) --
Soil Type: Hayes fine sandy loam	Previous Crop: Corn		
Seeding Rate: 65,000 seed/a			
Dates:			
Planting: 5/18/2012			
Harvest: 10/24/2012			

Precipitation



Temperature



Month	Avg Temp		Precipitation		GDD	
	2012	Normal	2012	Normal	2012	Normal
May	71	64	0.4	3.2	335	138
June	76	74	2.9	3.0	474	431
July	84	80	1.9	2.6	759	607
Aug	77	77	1.7	2.3	520	528
Sept	70	68	2.7	1.9	302	253
Oct	56	58	0.4	1.0	73	16
Total	72	70	10.0	14.0	2462	1972

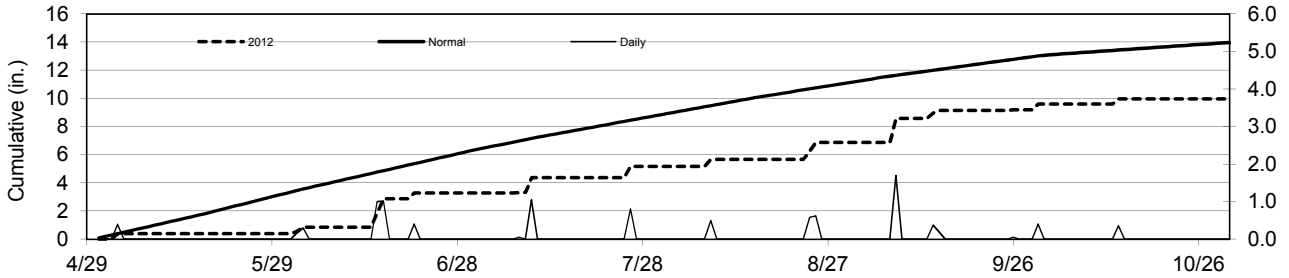
Table 3. Pratt County Irrigated Cotton Performance Test, 2012

		Lint yield, lb/a					Yield							
Company	Variety	2012	2011	2010	2-yr avg	3-yr avg	% of test avg	% lint	Mic	Length in.	Unif. %	Strength g/tex	Color grade	
Nexgen	NG_2051B2RF	1901	1106	--	1504	--	112	0.314	4.09	1.13	81.63	30.83	61	1
PhytoGen	PHY367_WRF	1815	1294	2131	1554	1746	107	0.319	4.01	1.13	80.43	32.20	51	2
Nexgen	NG_1550B2RF	1790	--	--	--	--	105	0.315	3.77	1.13	81.47	32.20	61	1
All-Tex	ATX9CR253_B2RF	1789	--	--	--	--	105	0.333	3.99	1.11	80.83	29.27	61	1
Nexgen	NG_1551_RF	1752	997	--	1375	--	103	0.312	3.92	1.12	81.33	30.87	51	1
All-Tex	Edge_B2RF	1743	1397	--	1570	--	103	0.309	3.83	1.13	82.43	30.53	51	2
Fibermax	FM_9180B2F	1742	1141	2178	1441	1687	103	0.318	4.09	1.12	80.23	30.70	51	4
Nexgen	NG_3348B2RF	1739	896	2115	1317	1583	102	0.306	3.80	1.13	81.67	30.50	51	1
DP&L	DP_1321B2RF	1737	--	--	--	--	102	0.314	4.27	1.14	81.23	32.43	51	1
Americot	AM_1511B2RF	1723	--	--	--	--	102	0.324	4.07	1.13	82.23	30.70	51	1
Nexgen	NG_2549B2RF	1705	1456	--	1581	--	100	0.313	4.18	1.13	82.50	30.90	61	1
All-Tex	Epic_RF	1690	1111	--	1400	--	100	0.325	4.22	1.19	82.20	32.85	51	1
DP&L	DP_104_B2RF	1687	1169	1839	1428	1565	99	0.309	4.17	1.15	82.63	32.90	51	2
All-Tex	ATX784381RF	1685	--	--	--	--	99	0.299	4.00	1.12	81.70	31.07	61	1
Fibermax	FM_9250GTL	1633	1454	--	1543	--	96	0.306	4.14	1.17	82.23	31.07	61	1
DP&L	DP_1311B2RF	1632	--	--	--	--	96	0.299	4.49	1.10	81.83	31.13	51	4
All-Tex	Rapid_B2RF	1626	1531	--	1578	--	96	0.304	4.28	1.16	82.87	32.80	51	2
Nexgen	NG_4010_B2RF	1587	476	2038	1032	1367	94	0.311	4.05	1.14	81.90	31.00	51	4
DP&L	DP_1212B2RF	1573	1442	--	1507	--	93	0.308	3.94	1.14	82.47	31.33	51	2
PhytoGen	PHY_375_WRF	1570	1195	1849	1382	1538	92	0.310	3.77	1.09	81.87	30.90	61	1
Fibermax	FM_2011GT	1524	1671	--	1598	--	90	0.304	3.86	1.13	81.23	29.53	61	1
Average		1697	1313	2084	1505	1698	100	0.312	4.04	1.13	81.71	31.18		--
CV (%)		17	30	23	23	23		6.672	10	3	1	6		--

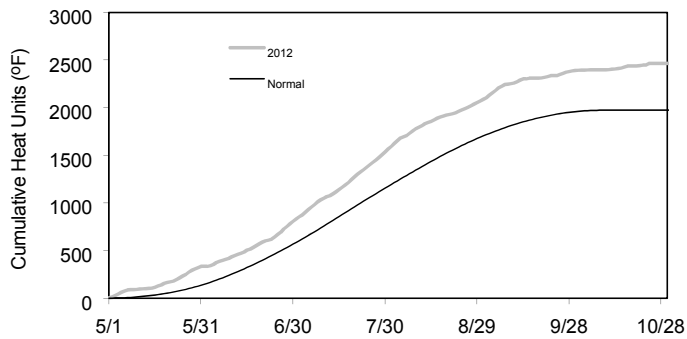
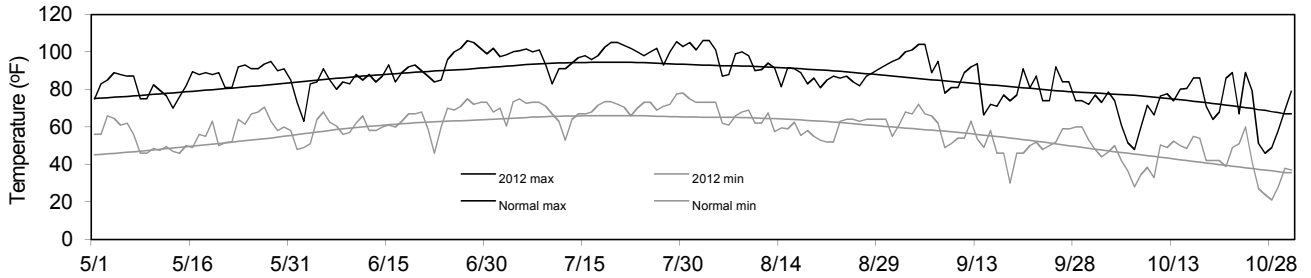
Pratt County Dryland Cotton Performance Test, 2012

County: Pratt Co. Dryland	Soil Test: P (ppm) 0	pH 0
Location: Stuart Briggeman Farm (Cullison)	K (ppm) 0	O.M. (%) --
Soil Type: Blanket silt loam	Previous Crop: Sorghum	
Seeding Rate: 65,000 seed/a		
Dates:		
Planting: 5/18/2012		
Harvest: 10/25/2012		

Precipitation



Temperature



Month	Avg Temp		Precipitation		GDD	
	2012	Normal	2012	Normal	2012	Normal
May	71	64	0.4	3.2	335	138
June	76	74	2.9	3.0	474	431
July	84	80	1.9	2.6	759	607
Aug	77	77	1.7	2.3	520	528
Sept	70	68	2.7	1.9	302	253
Oct	56	58	0.4	1.0	73	16
Total	72	70	10.0	14.0	2462	1972

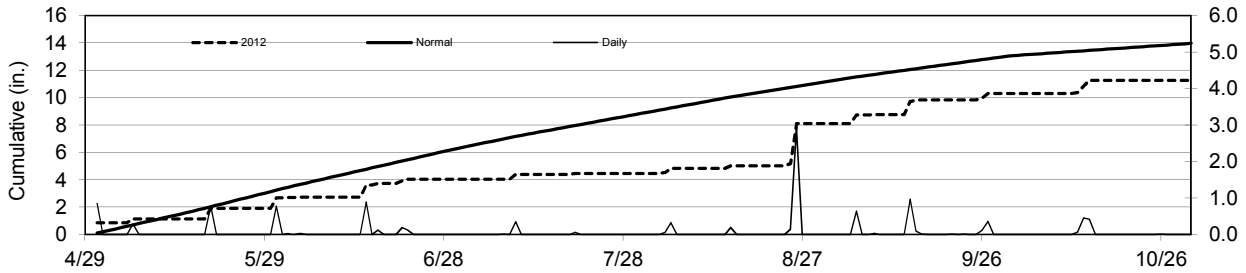
Table 4. Pratt County Dryland Cotton Performance Test, 2012

Company	Variety	Lint yield, lb/a					2012							
		2012	2011	2010	2-yr avg	3-yr avg	Yield % of test avg	% lint	Mic	Length in.	Unif. %	Strength g/tex	Color grade	
		All-Tex	Edge_B2RF	1104					115	0.294	4.05	1.12	80.70	30.63
Nexgen	NG_1551_RF	1099					115	0.304	4.45	1.12	82.30	33.23	41	1
DP&L	DP_1212B2RF	1090					114	0.302	4.11	1.14	83.17	33.63	41	1
DP&L	DP_104_B2RF	1065					111	0.294	3.66	1.12	83.37	32.83	41	2
Nexgen	NG_1550B2RF	1051					110	0.319	3.60	1.07	79.93	28.20	41	1
PhytoGen	PHY499_WRF	1025					107	0.317	3.54	1.10	81.67	30.17	51	1
All-Tex	Rapid_B2RF	1012					106	0.298	4.55	1.17	84.33	33.13	51	2
Fibermax	FM_9180B2F	1002					105	0.298	3.54	1.16	82.70	32.63	41	1
Nexgen	NG_2051B2RF	987					103	0.300	4.09	1.12	80.83	28.03	51	1
DP&L	DP0912_B2RF	970					101	0.313	3.88	1.11	82.83	30.83	41	1
Nexgen	NG_3348B2RF	979					102	0.301	3.86	1.11	82.30	30.40	51	1
Fibermax	FM_9250GTLL	948					99	0.305	3.70	1.15	80.87	30.07	41	1
DP&L	DP_1219B2RF	946					99	0.303	3.16	1.13	80.17	30.63	41	1
DP&L	DP_1321B2RF	924					97	0.287	3.95	1.13	83.10	32.60	41	2
All-Tex	Epic_RF	916					96	0.297	3.91	1.08	81.33	29.40	31	4
Nexgen	NG_4010_B2RF	916					96	0.299	3.57	1.15	82.23	32.57	41	1
Americot	AM_1511B2RF	905					95	0.298	4.15	1.10	81.87	32.13	41	2
Fibermax	FM_2011GT	905					95	0.291	3.89	1.14	81.17	30.77	41	2
Nexgen	NG_2549B2RF	900					94	0.287	4.31	1.07	82.57	30.43	51	1
DP&L	DP_1311B2RF	831					87	0.310	3.47	1.09	81.20	29.20	51	1
PhytoGen	PHY_375_WRF	772					81	0.302	3.97	1.10	81.20	29.13	41	2
All-Tex	ATX784381RF	719					75	0.291	3.12	1.11	80.30	28.80	41	1
	Average	957	356	--	657	--	100	0.301	3.85	1.12	81.85	30.92	--	--
	CV (%)	19	48	--	34	--		7.149	10	3	2	6	--	--
	LSD(0.05)	184	--	--	--	--			0.39	0.04	1.35	1.70	--	--

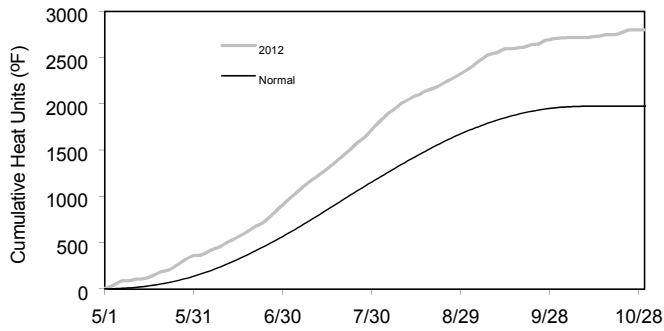
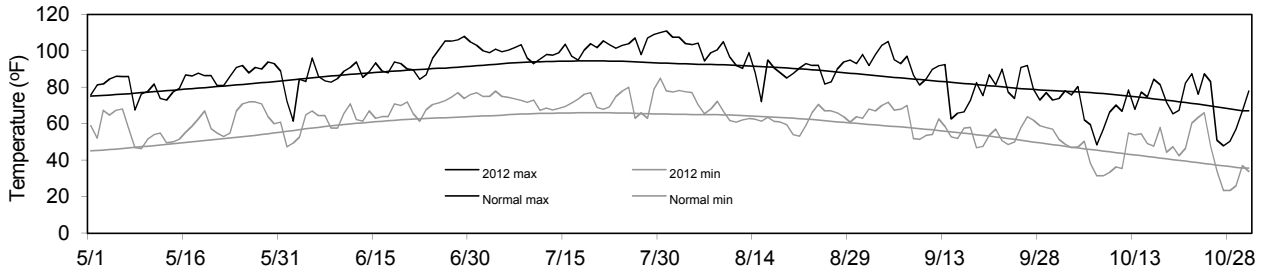
Cowley County Cotton Performance Test, 2012

County:	Cowley Co.	Soil Test:	P (ppm) 0 pH 0
Location:	Ray Farms - David and Martin Ray and Andy Lee		K (ppm) 0 O.M. (%) --
Soil Type:	Norge silt loam	Previous Crop:	Soybean
Seeding Rate:	50,000 seed/a		
Dates:			
Planting:	5/17/2012		
Harvest:	9/25/2012		

Precipitation



Temperature



Month	Avg Temp		Precipitation		GDD	
	2012	Normal	2012	Normal	2012	Normal
May	72	64	2.7	3.2	364	138
June	78	74	1.4	3.0	547	431
July	87	80	0.4	2.6	844	607
Aug	80	77	3.6	2.3	610	528
Sept	71	68	2.2	1.9	342	253
Oct	57	59	1.0	1.0	93	16
Total	74	70	11.3	14.0	2800	1972

Table 5. Cowley County Cotton Performance Test, 2012

		Lint yield, lb/a					2012							
Company	Variety	2012	2011	2010	2-yr avg	3-yr avg	Yield		Length in.	Unif. %	Strength g/tex	Color		
							% of test avg	% lint				Mic	grade	
DP&L	DP_1212B2RF	556	1042	--	799	--	123	0.357	5.21	1.05	80.57	31.07	52	2
PhytoGen	PHY499_WRF	548	1407	--	978	--	121	0.377	5.06	1.02	80.90	32.10	62	1
All-Tex	Rapid_B2RF	546	1071	--	808	--	121	0.352	5.60	1.02	80.57	30.03	61	3
All-Tex	Nitro_B2RF	539	--	--	--	--	119	0.351	5.24	1.10	82.60	33.57	61	3
All-Tex	Edge_B2RF	530	1054	--	792	--	117	0.334	5.30	1.03	79.47	28.13	61	3
Americot	AM_1511B2RF	516	1181	--	849	--	114	0.366	4.85	0.98	79.87	29.93	52	2
DP&L	DP_1321B2RF	500	--	--	--	--	110	0.359	4.90	1.03	80.10	31.47	62	1
PhytoGen	PHY_375_WRF	485	1014	--	749	--	107	0.356	5.17	1.01	79.77	26.73	52	1
DP&L	DP_104_B2RF	476	546	--	511	--	105	0.320	4.73	1.06	81.40	33.07	61	3
Nexgen	NG_1550B2RF	473	--	--	--	--	104	0.329	5.01	1.01	80.10	27.77	52	1
All-Tex	Epic_RF	470	1008	--	739	--	104	0.331	4.89	1.02	80.33	30.13	42	2
Fibermax	FM_2011GT	460	1117	--	788	--	102	0.340	4.92	1.04	79.47	29.73	51	3
Fibermax	FM_1740B2F	452	878	--	665	--	100	0.319	5.10	1.02	80.47	30.40	51	4
Fibermax	FM_9180B2F	435	870	--	652	--	96	0.309	5.10	1.07	81.40	31.33	51	4
Nexgen	NG_2549B2RF	429	--	--	--	--	95	0.337	5.27	1.00	80.07	28.53	62	1
Fibermax	FM1944GLB2	419	--	--	--	--	93	0.316	4.97	1.05	78.77	28.63	61	1
Nexgen	NG_3348B2RF	402	--	--	--	--	89	0.321	4.36	1.02	78.80	27.47	62	1
DP&L	DP_1311B2RF	383	--	--	--	--	85	0.359	4.78	1.00	79.70	28.03	51	4
All-Tex	ATX784381RF	375	--	--	--	--	83	0.317	3.86	1.08	79.17	28.93	51	3
Fibermax	FM_9250GTLL	372	982	--	677	--	82	0.297	4.60	1.06	79.80	28.90	61	3
Nexgen	NG_2051B2RF	364	692	--	528	--	80	0.311	4.47	1.00	78.83	24.77	61	3
All-Tex	ATX9CR253_B2RF	343	--	--	--	--	76	0.312	4.78	1.05	79.50	30.30	51	3
Nexgen	NG_4010_B2RF	340	--	--	--	--	75	0.282	4.45	1.03	80.73	30.43	62	1
Average		453	1002	--	727	--	100	0.333	4.90	1.03	80.10	29.63	--	--
CV (%)		28	24	--	26	--		8.590	9	4	2	8	--	--
LSD(0.05)		133	246	--	190	--		0.022	0.47	0.05	1.39	2.58	--	--

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