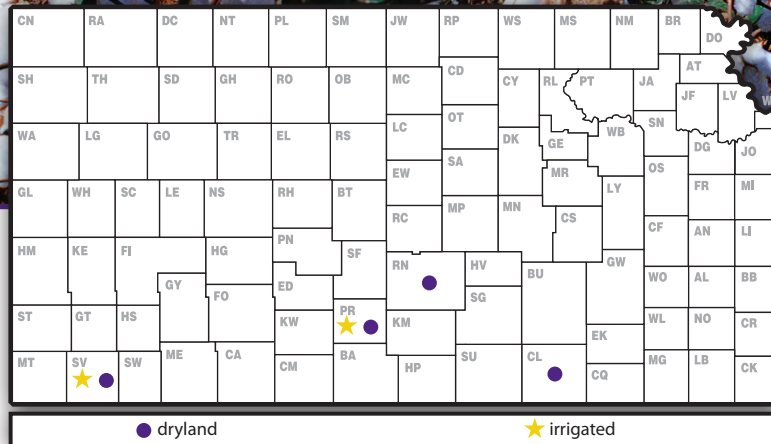
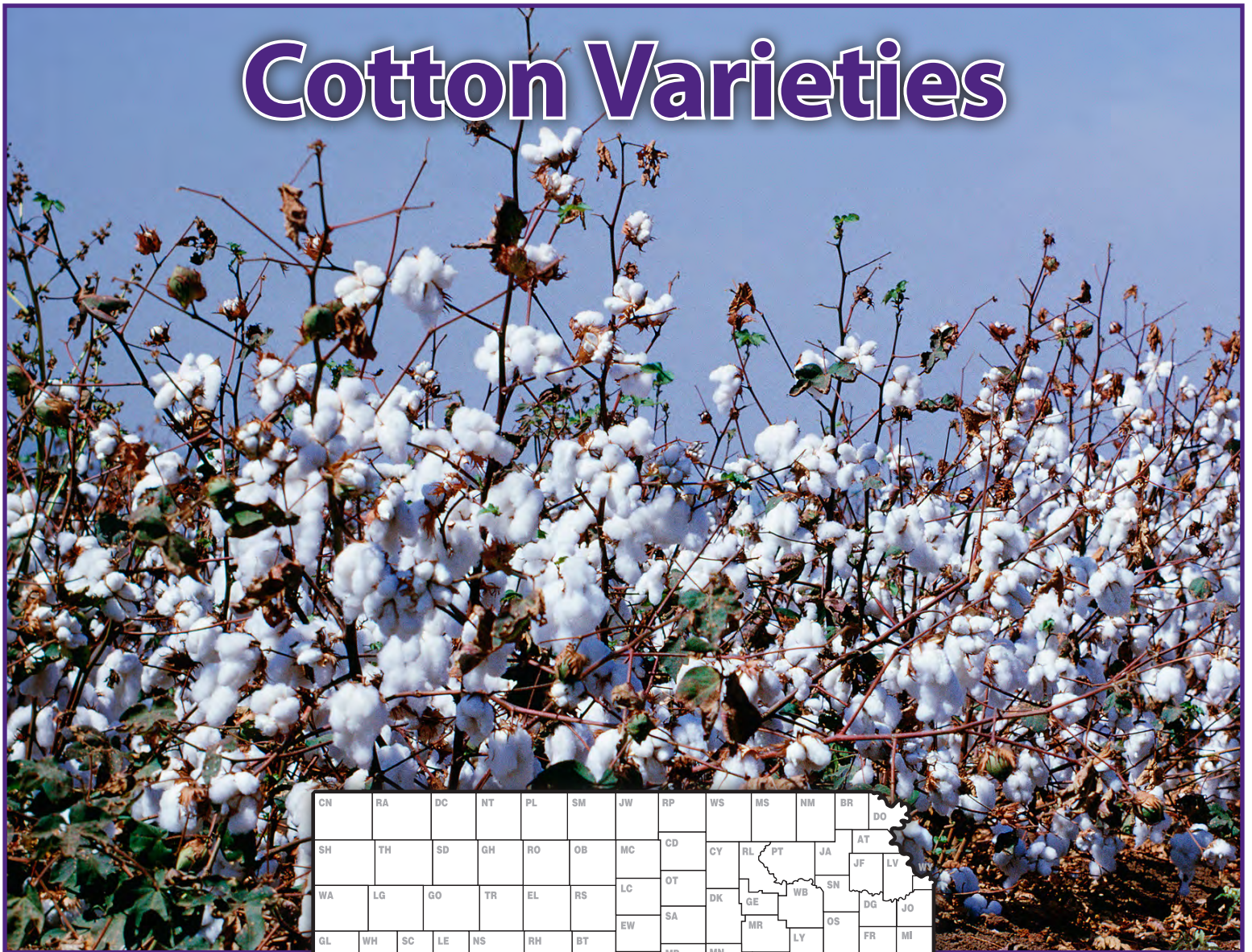


2013 Kansas Performance Tests with

Cotton Varieties



Report of Progress 1100



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2013 Performance Tests

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Entrants in 2013 Kansas Cotton Performance Tests

Americot/Nexgen	Dyna-Gro Seed	PhytoGen
Americot, Inc.	Wichita, KS	Dow AgroSciences
Lubbock, TX	316-794-2231	Indianapolis, IN
806-793-1431		317-337-3000
DP&L (Deltapine)	Fibermax/Stoneville	
Monsanto	Bayer CropScience	
St. Louis, MO	Research Triangle	
800-511-SEED	Park, NC	
	866-99-BAYER	

Contribution no. 14-043-S from the Kansas Agricultural Experiment Station.

2013 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 for micronaire (Mic), length, uniformity index, strength (g/tex), fiber elongation (elon.), degree of grayness (Rd reflect.), degree of yellowness (+b yellow), 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 2013 crop produced an estimated 39,000 bales, down 44% from the previous year. Yields averaged 720 pounds per acre, which is up from the previous year's yield of 622 pounds per acre. Harvested acreage, at 26,000 acres, is down 52% 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 2013, 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 to the heat, however, 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>

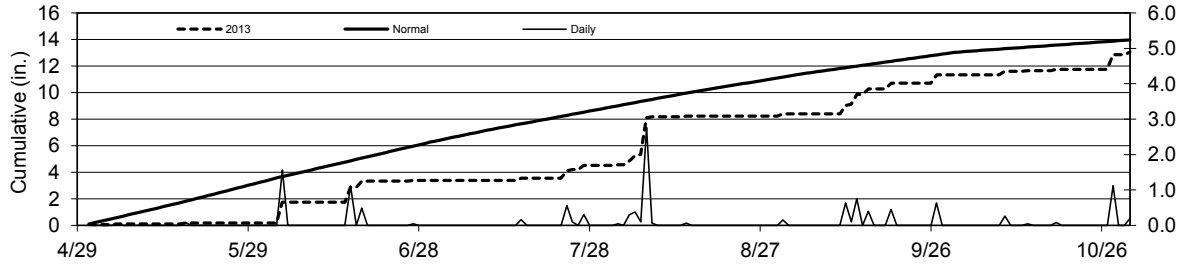
South Central and Southeast:

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

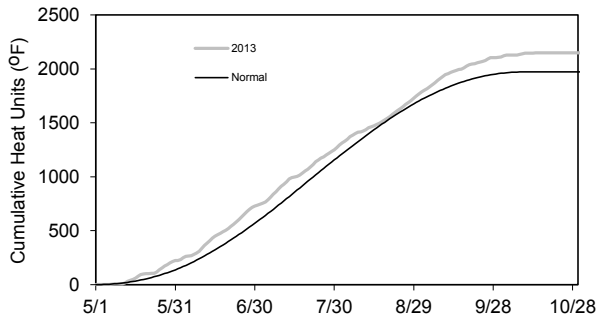
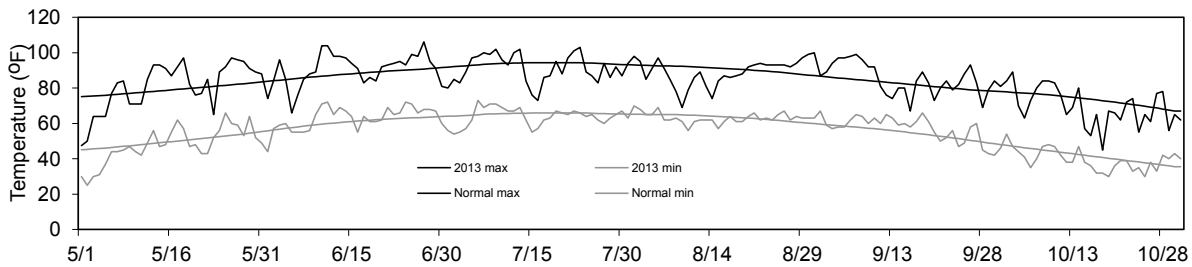
Stevens County Irrigated Cotton Performance Test, 2013

County: Stevens County Irrigated Location: Lahey Farms (Moscow) Soil Type: Zella and Hugoton Loams, 0-1% slope Seeding Rate: 65,000 seeds/a	Dates: Planting: 5/25/2013 Harvest: 11/18/2013 Previous Crop: Wheat
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Precipitation



Temperature



Month	Avg Temp		Precipitation		GDD	
	2013	Normal	2013	Normal	2013	Normal
May	64	64	0.2	3.2	223	138
June	77	74	3.2	3.0	505	431
July	78	80	1.1	2.6	543	607
Aug	76	77	3.9	2.3	500	528
Sept	71	68	3.0	1.9	339	253
Oct	55	56	1.7	1.0	41	16
Total	70	70	13.1	14.0	2150	1972

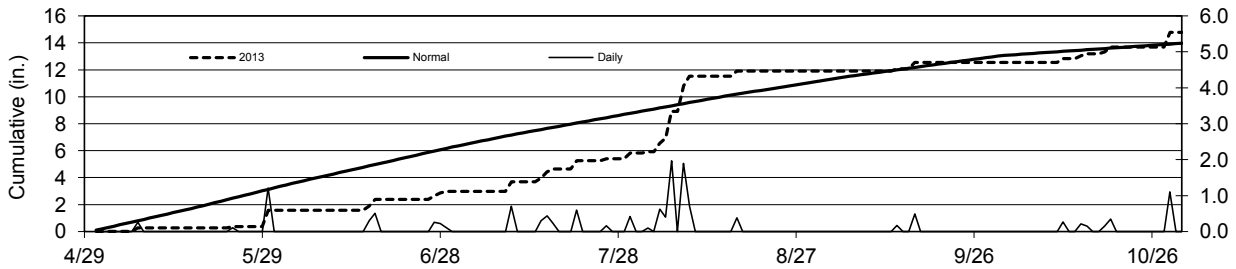
Table 1. Stevens County Irrigated Cotton Performance Test, 2013

Company	Variety	Lint Yield, lb/a					Yield % of test avg	Fiber Quality									
		2013	2012	2011	2yr	3yr		Ginout	Mic	Length in.	Unif. %	Strength g/tex	Elon. %	Rd reflect.	+b yellow	Color grade	
					avg	avg											
Nexgen	NG_1572RF	1504	1243	--	1374	--	134	0.28	2.82	1.15	80.17	26.13	8.77	71.57	6.40	51	1
Nexgen	NG_2549B2RF	1487	1202	1319	1345	1336	133	0.32	3.69	1.06	82.33	27.03	9.20	67.70	7.10	51	2
BayerCS	BX_1347GLB2	1422	--	--	--	--	127	0.32	3.16	1.12	78.53	24.30	7.70	70.23	5.67	51	2
DP&L	DP_1212B2RF	1387	1302	1261	1344	1316	124	0.30	3.11	1.14	80.20	26.87	9.07	71.23	7.60	51	1
DP&L	DP_1321B2RF	1315	1425	--	1370	--	117	0.30	3.22	1.09	80.27	26.47	9.17	70.37	7.30	51	1
Nexgen	NG_3348B2RF	1296	1148	1099	1222	1181	116	0.29	3.15	1.15	80.90	28.03	8.37	68.27	7.10	51	2
BayerCS	BX_1320GL	1241	--	--	--	--	111	0.30	3.17	1.11	80.03	27.57	8.77	74.20	7.23	41	2
Fibermax	FM_9180B2F	1197	1129	1173	1163	1166	107	0.27	3.05	1.12	80.20	27.03	8.17	70.63	6.33	51	1
DP&L	DP_1410B2RF	1184	--	--	--	--	106	0.30	3.10	1.12	78.27	25.37	8.37	67.70	6.70	51	2
Nexgen	NG_1551_RF	1132	1031	--	1082	--	101	0.25	3.44	1.15	81.80	30.27	7.83	68.97	7.03	51	1
PhytoGen	PX312240WRF	1124	--	--	--	--	100	0.28	2.88	1.13	79.23	26.70	8.30	69.30	7.10	51	1
PhytoGen	PHY499_WRF	1091	--	1106	--	--	97	0.30	3.30	1.10	79.40	26.07	9.40	68.77	7.37	51	1
PhytoGen	PHY367_WRF	1069	1188	1103	1128	1120	95	0.27	2.71	1.10	79.13	25.57	9.10	69.80	7.60	51	1
Nexgen	NG_1511B2RF	1042	--	--	--	--	93	0.31	3.14	1.07	79.77	25.37	9.27	69.03	7.73	51	3
Fibermax	FM_2011GT	1020	1112	1266	1066	1133	91	0.31	3.59	1.09	80.93	26.47	8.57	71.93	7.17	51	1
Nexgen	NGX3305B2RF	983	--	--	--	--	88	0.27	2.89	1.11	79.13	25.50	8.00	69.60	6.83	51	1
Fibermax	FM_9250GTLL	957	1049	1194	1003	1067	85	0.29	3.27	1.12	79.60	26.90	6.93	71.20	6.23	51	1
Nexgen	NGX3306B2RF	820	--	--	--	--	73	0.25	2.87	1.12	79.10	25.33	8.23	72.07	6.47	51	1
PhytoGen	PHY_375_WRF	779	1182	911	981	957	70	0.29	3.23	1.06	79.13	23.80	8.30	71.40	7.17	51	1
Nexgen	NGX2306B2RF	745	--	--	--	--	66	0.24	2.98	1.11	81.43	26.30	8.83	71.30	7.07	51	1
PhytoGen	PHY339WRF	732	--	--	--	--	65	0.28	3.43	1.11	79.43	25.73	9.20	68.97	7.07	51	1
	Average	1120	1234	1200	1177	1185	100	0.29	3.15	1.11	79.95	26.32	8.55	70.20	6.97	--	--
	CV (%)	29	17	18	23	21		10	11	3	2	6	8	3	9	--	--
	LSD(0.05)	261	221	227	241	236		0.03	0.46	0.03	1.89	1.88	0.60	2.89	0.69	--	--

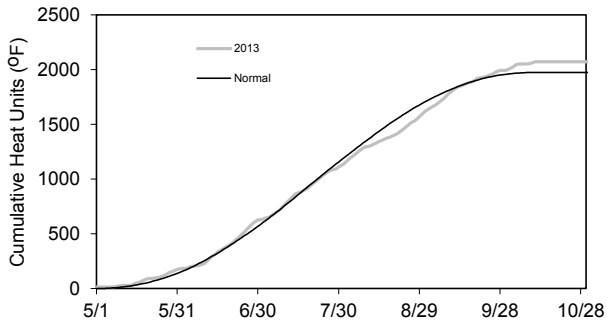
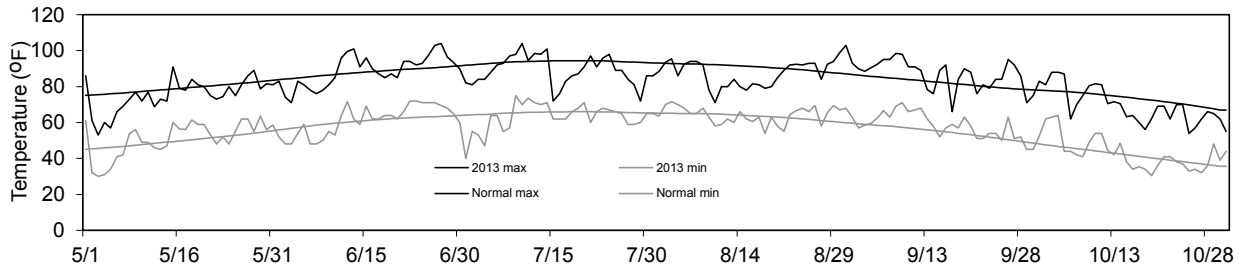
Pratt County Irrigated Cotton Performance Test, 2013

County: Pratt County Irrigated Location: Stuart Briggeman Farm (Cullison) Soil Type: Blanket silt loam, 0-1% slope Seeding Rate: 65,000 seeds/a	Dates: Planting: 5/25/2013 Harvest: 12/3/2013 Previous Crop: Corn
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Precipitation



Temperature



Month	Avg Temp		Precipitation		GDD	
	2013	Normal	2013	Normal	2013	Normal
May	63	64	1.6	3.2	173	138
June	75	74	1.4	3.0	453	431
July	76	80	2.9	2.6	498	607
Aug	76	77	6.1	2.3	492	528
Sept	73	68	0.7	1.9	378	253
Oct	56	58	2.2	1.0	76	16
Total	70	70	14.8	14.0	2070	1972

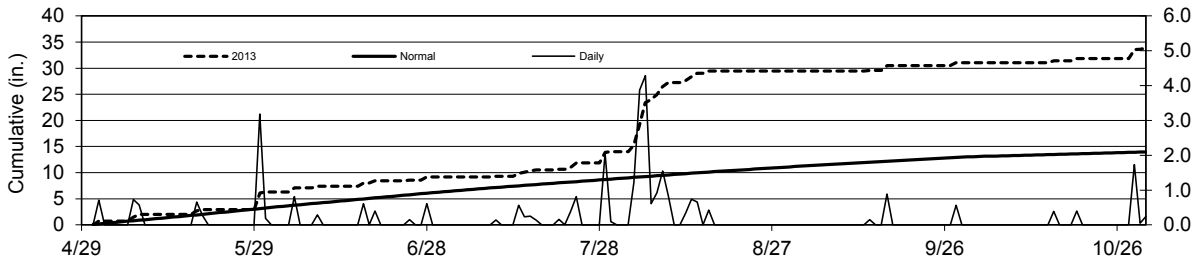
Table 2. Pratt County Irrigated Cotton Performance Test, 2013

Company	Variety	Lint Yield, lb/a					Yield % of test avg	Fiber Quality									
		2013	2012	2011	2yr avg	3yr avg		Ginout	Mic	Length in.	Unif. %	Strength g/tex	Elong. %	Rd reflect.	+b yellow	Color grade	
DP&L	DP_1410B2RF	1330	--	--	--	--	121	0.30	3.91	1.15	81.83	29.70	7.97	70.53	6.83	51	1
DP&L	DP_1212B2RF	1296	1573	1442	1435	1437	118	0.28	3.86	1.17	83.27	31.50	8.73	67.10	8.70	52	1
Nexgen	NG_2051B2RF	1254	1901	1106	1578	1420	114	0.27	3.84	1.08	79.83	26.60	7.67	70.07	6.60	51	1
PhytoGen	PX312240WRF	1250	--	--	--	--	113	0.28	3.36	1.16	82.80	30.17	8.03	71.23	7.50	51	1
PhytoGen	PHY339WRF	1233	--	--	--	--	112	0.28	3.31	1.16	82.80	31.15	8.85	72.60	7.25	41	2
Fibermax	FM_2011GT	1226	1524	1671	1375	1474	111	0.31	3.76	1.11	82.53	28.57	8.07	72.27	6.97	51	1
Fibermax	FM_9250GTLL	1220	1633	1454	1426	1436	111	0.28	3.61	1.16	82.63	29.20	7.00	70.70	6.43	51	1
Fibermax	FM1944GLB2	1204	--	--	--	--	109	0.27	3.45	1.16	81.97	28.73	6.93	72.27	6.60	51	1
PhytoGen	PHY_375_WRF	1180	1570	1195	1375	1315	107	0.28	3.24	1.12	82.57	26.97	8.37	70.40	7.47	51	1
Dyna-Gro	DG_2285	1180	--	--	--	--	107	0.29	3.68	1.11	82.37	27.50	9.20	69.17	8.33	51	3
BayerCS	BX_1347GLB2	1174	--	--	--	--	107	0.29	3.53	1.11	81.53	28.17	7.40	70.17	6.53	51	1
Nexgen	NG_1572RF	1148	--	1092	--	--	104	0.28	3.27	1.14	82.43	28.93	8.33	70.13	6.83	51	1
DP&L	DP_1321B2RF	1143	1737	--	1440	--	104	0.28	3.90	1.11	83.17	29.27	9.53	69.30	8.70	52	1
PhytoGen	PHY367_WRF	1098	1815	1294	1456	1402	100	0.28	3.33	1.14	82.83	29.27	8.63	68.63	7.93	51	3
Fibermax	FM_9180B2F	1090	1742	1141	1416	1324	99	0.27	3.31	1.15	82.37	29.27	8.00	69.27	6.63	51	2
DP&L	DP_104_B2RF	1054	1687	1169	1371	1303	96	0.27	3.47	1.12	82.30	30.43	8.97	69.07	6.60	51	2
Nexgen	NGX3306B2RF	1053	--	--	--	--	96	0.27	3.74	1.13	82.37	28.50	8.17	70.63	7.00	51	1
Dyna-Gro	DG_2570_B2RF	1038	--	--	--	--	94	0.27	3.74	1.10	82.23	28.67	8.83	73.37	7.97	41	2
Nexgen	NGX3305B2RF	1037	--	--	--	--	94	0.26	3.14	1.19	82.47	29.90	7.77	71.23	7.00	51	1
Nexgen	NG_1511B2RF	1037	1723	--	1380	--	94	0.28	3.74	1.11	82.47	28.93	9.20	71.17	8.23	41	4
Nexgen	NG_1551_RF	1033	1752	997	1393	1261	94	0.25	4.06	1.13	83.37	33.70	7.83	66.17	8.03	52	2
Nexgen	NG_2549B2RF	1030	1705	1456	1368	1397	94	0.28	3.97	1.06	82.30	27.63	8.87	68.57	8.03	51	3
Dyna-Gro	DG_2450_B2RF	1007	--	--	--	--	91	0.26	3.37	1.13	82.00	28.00	8.20	71.53	7.20	51	1
BayerCS	BX_1320GL	968	--	--	--	--	88	0.30	3.79	1.15	83.00	31.05	8.30	70.40	7.25	51	1
PhytoGen	PHY499_WRF	942	--	1504	--	--	85	0.27	3.63	1.11	83.40	30.40	9.43	69.33	8.13	51	3
Americot	AM_1550B2RF	891	1790	--	1340	--	81	0.27	3.55	1.08	81.77	27.00	8.43	71.90	8.33	41	4
Nexgen	NG_3348B2RF	881	1739	896	1310	1172	80	0.28	3.63	1.15	83.50	30.37	8.33	67.57	7.73	51	3
Nexgen	NGX2306B2RF	808	--	--	--	--	73	0.24	3.24	1.11	82.80	28.27	8.33	71.30	7.17	51	1
Average		1102	1697	1313	1399	1371	100	0.28	3.59	1.13	82.45	29.16	8.33	70.19	7.43	--	--
CV (%)		20	17	30	18	22		8	10	3	1	6	9	3	11	--	--
LSD(0.05)		235	--	386	--	--		0.02	0.52	0.04	1.29	1.34	0.61	2.64	0.78	--	--

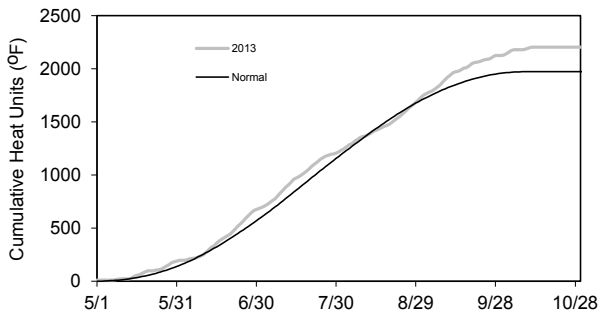
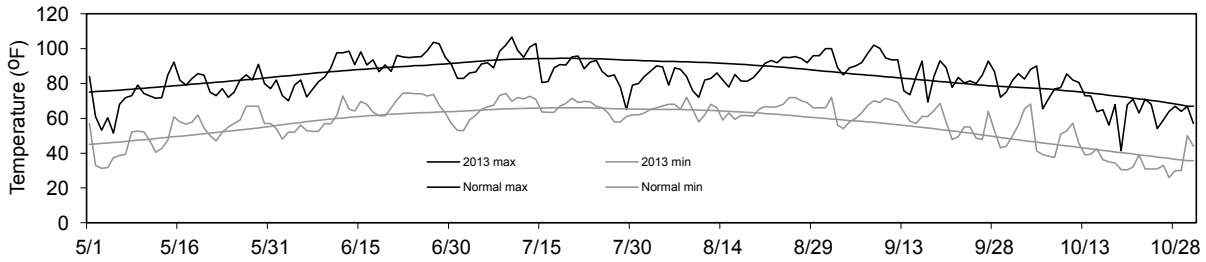
Reno County Dryland Cotton Performance Test, 2013

County: Reno County Dryland Location: K-State South Central Experiment Field (Hutchinson) Soil Type: Ost loam, 0-1% slope Seeding Rate: 38,000 seeds/a	Dates: Planting: 6/11/2013 Harvest: 12/5/2013 Previous Crop: Wheat
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Precipitation



Temperature



Month	Avg Temp		Precipitation		GDD	
	2013	Normal	2013	Normal	2013	Normal
May	64	64	6.3	3.2	188	138
June	76	74	2.9	3.0	489	431
July	77	80	4.8	2.6	542	607
Aug	76	77	15.4	2.3	511	528
Sept	73	68	1.6	1.9	394	253
Oct	56	57	2.8	1.0	80	16
Total	70	70	33.9	14.0	2204	1972

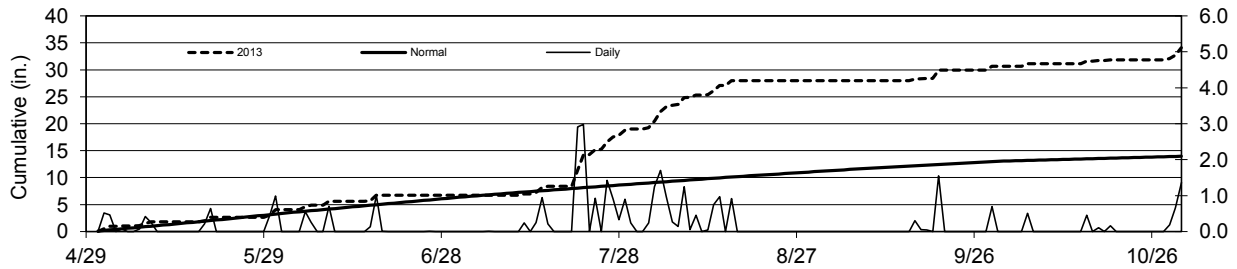
Table 3. Reno County Dryland Cotton Performance Test, 2013

Company	Variety	Lint Yield, lb/a					Yield % of test avg	Fiber Quality									
		2013	2012	2011	2yr avg	3yr avg		Ginout	Mic	Length in.	Unif. %	Strength g/tex	Elon. %	Rd reflect.	+b yellow	Color grade	
PhytoGen	PHY_375_WRF	986	--	--	--	--	119	0.33	4.36	1.06	81.63	26.55	7.80	63.68	9.00	52	2
DP&L	DP_1212B2RF	954	--	--	--	--	115	0.32	4.90	1.13	83.08	30.38	9.08	57.95	11.03	63	3
Americot	AM_1550B2RF	904	--	--	--	--	109	0.28	4.28	1.05	80.83	25.70	8.33	65.45	9.83	53	1
Nexgen	NG_1511B2RF	891	--	--	--	--	107	0.33	4.91	1.08	82.38	29.98	9.43	59.20	10.05	63	1
Fibermax	FM1944B2RF	871	--	--	--	--	105	0.28	4.42	1.12	80.28	28.08	6.73	63.45	8.75	52	2
DP&L	DP_1321B2RF	867	--	--	--	--	104	0.32	4.94	1.08	82.55	28.35	9.10	58.30	11.40	54	2
PhytoGen	PHY339WRF	844	--	--	--	--	101	0.31	4.33	1.11	82.38	29.65	8.55	63.60	8.95	52	2
Fibermax	FM1944GLB2	842	--	--	--	--	101	0.29	4.50	1.11	80.53	27.93	6.85	65.35	8.63	52	2
Nexgen	NG_2051B2RF	831	--	--	--	--	100	0.28	4.62	1.07	80.25	26.35	7.38	62.78	8.58	62	1
DP&L	DP0912_B2RF	817	--	--	--	--	98	0.29	4.64	1.06	81.60	28.03	8.45	61.15	9.95	53	2
Fibermax	FM_1740B2F	810	--	--	--	--	97	0.30	4.53	1.06	81.33	28.48	7.83	65.05	8.88	52	2
Nexgen	NG_1551_RF	744	--	--	--	--	89	0.28	4.66	1.06	81.63	30.70	8.00	63.33	8.63	62	1
Fibermax	FM_9180B2F	704	--	--	--	--	85	0.27	4.30	1.12	82.08	29.75	7.50	66.78	8.10	51	3
DP&L	DP_1219B2RF	573	--	--	--	--	69	0.26	4.13	1.09	81.28	29.23	7.65	65.03	9.28	52	1
	Average	831	--	--	--	--	100	0.30	4.52	1.08	81.52	28.51	8.01	63.11	9.28	--	--
	CV (%)	18	--	--	--	--		9	7	3	1	6	10	5	10	--	--
	LSD(0.05)	182	--	--	--	--		0.02	0.28	0.02	0.95	1.14	0.34	2.18	0.70	--	--

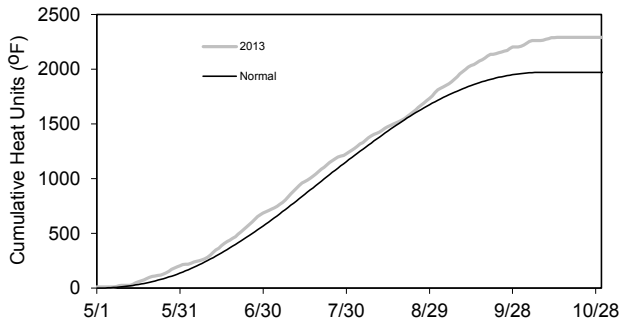
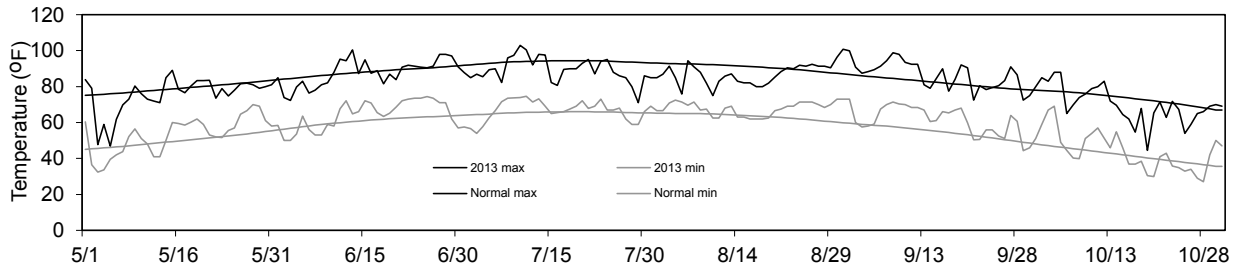
Cowley County Dryland Cotton Performance Test, 2013

County: Cowley County Dryland Location: Matt Smith Farm (Winfield) Soil Type: Vanoss silt loam, 1-3% slope Seeding Rate: 65,000 seeds/a	Dates: Planting: 5/27/2013 Harvest: 11/12/2013 Previous Crop: Soybean
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Precipitation



Temperature



Month	Avg Temp		Precipitation		GDD	
	2013	Normal	2013	Normal	2013	Normal
May	64	64	4.1	3.2	205	138
June	76	74	2.7	3.0	481	431
July	78	80	12.3	2.6	558	607
Aug	77	77	9.0	2.3	540	528
Sept	74	68	2.6	1.9	419	253
Oct	57	59	3.4	1.0	87	16
Total	71	70	34.1	14.0	2290	1972

Table 4. Cowley County Dryland Cotton Performance Test, 2013

Company	Variety	Lint Yield, lb/a					Yield % of test avg	Fiber Quality									
		2013	2012	2011	2yr avg	3yr avg		Ginout	Mic	Length in.	Unif. %	Strength g/tex	Elon. %	Rd reflect.	+b yellow	Color grade	
PhytoGen	PX312240WRF	1442	--	--	--	--	119	0.32	3.86	1.15	81.33	28.20	7.20	63.17	8.30	62	1
Dyna-Gro	DG_2285	1386	--	--	--	--	114	0.31	4.20	1.13	82.63	29.10	8.47	62.47	10.17	53	2
BayerCS	BX_1347GLB2	1373	--	--	--	--	113	0.31	4.20	1.15	80.00	26.57	6.13	65.37	7.87	51	4
PhytoGen	PHY339WRF	1363	--	--	--	--	112	0.30	4.01	1.17	83.27	30.70	8.00	65.70	7.40	51	4
PhytoGen	PHY367_WRF	1322	--	1172	--	--	109	0.31	3.97	1.16	82.50	31.45	8.00	63.70	9.05	52	2
Nexgen	NG_1511B2RF	1296	516	1181	906	998	107	0.32	4.47	1.11	82.63	31.03	8.83	62.70	10.03	53	1
DP&L	DP_1212B2RF	1283	556	1042	919	960	106	0.30	4.43	1.17	83.30	32.63	8.50	61.40	9.83	53	2
PhytoGen	PHY499_WRF	1274	548	1407	911	1076	105	0.31	4.21	1.13	83.07	32.60	8.53	63.80	8.10	62	1
DP&L	DP_1321B2RF	1272	500	--	886	--	105	0.32	4.52	1.15	83.87	31.17	9.23	62.27	9.60	53	2
PhytoGen	PHY_375_WRF	1214	485	1014	849	904	100	0.31	4.19	1.12	82.10	27.93	7.43	64.83	8.87	52	2
Nexgen	NG_1572RF	1207	--	--	--	--	100	0.30	3.55	1.15	82.33	28.73	7.67	64.70	7.33	61	3
Dyna-Gro	DG_2570_B2RF	1174	--	--	--	--	97	0.30	4.36	1.11	82.35	30.05	8.65	66.85	9.30	52	1
Fibermax	FM1944GLB2	1166	419	--	793	--	96	0.29	4.14	1.15	80.63	29.47	6.60	66.50	8.37	52	1
DP&L	DP_1410B2RF	1140	--	--	--	--	94	0.31	4.55	1.17	81.03	29.50	6.73	62.53	7.33	61	3
BayerCS	BX_1320GL	1112	--	--	--	--	92	0.32	4.49	1.14	82.60	32.50	7.90	64.83	8.40	52	2
Nexgen	NG_2549B2RF	1111	429	--	770	--	92	0.31	4.09	1.06	82.03	28.87	8.30	65.13	7.30	61	3
Americot	AM_1550B2RF	1049	473	--	761	--	86	0.29	4.09	1.10	81.80	27.90	8.27	67.43	9.50	52	1
Dyna-Gro	DG_2450_B2RF	1040	--	--	--	--	86	0.28	3.98	1.11	81.77	28.47	7.77	67.73	8.80	52	1
Nexgen	NG_1551_RF	818	--	--	--	--	67	0.25	4.73	1.10	82.73	33.53	7.10	64.83	8.50	52	2
Average		1213	453	1002	833	889	100	0.30	4.22	1.13	82.21	30.00	7.87	64.58	8.64	--	--
CV (%)		19	28	24	23	24		7	8	3	1	7	11	3	12	--	--
LSD(0.05)		214	133	246	174	198		0.02	0.36	0.03	1.48	1.40	0.49	2.16	0.94	--	--

To access crop performance testing information electronically, visit our website. The information contained in this publication, plus more, is available for viewing or downloading at:

www.agronomy.k-state.edu/services/crop-performance-tests/index.html

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