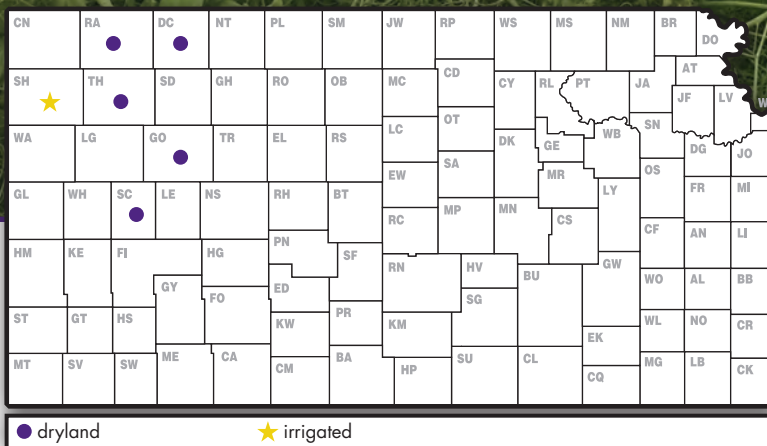
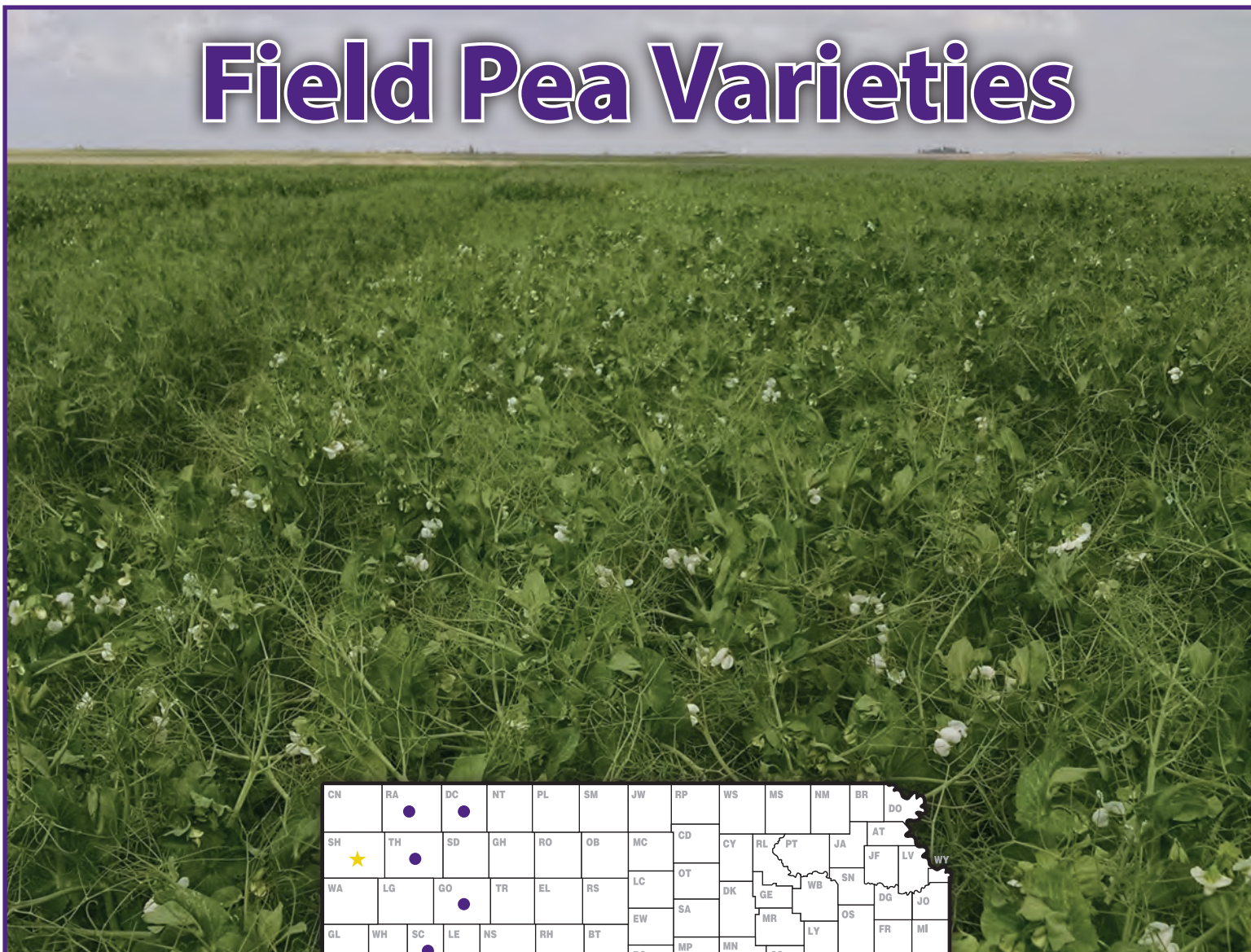


2014-2017 Kansas Performance Tests with

Field Pea Varieties



Report of Progress 1142

K-STATE
Research and Extension

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2014-2017 Performance Tests

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Finney County, dryland, 2014: abandoned, no report

Entrants in 2014-2017 Kansas Field Pea Performance Tests

Crop Development Centre Canada / Univ. of SK Saskatoon, SK (2015)	Great Northern Ag Plaza, ND 701-497-3082 (2016, 2017)	Kauffman Seeds (MonTech Peas) Hutchinson, KS 1-800-634-2836 (2014, 2015, 2016)	Legume Logic Crosby, ND 701-965-6058 (2016, 2017)
Meridian Seeds Mapleton, ND 701-347-9965 (2014, 2015, 2016, 2017)	Photosyntech Fargo, ND 701-226-8958 (2016, 2017)	PulseUSA Bismarck, ND 701-530-0734 (2014, 2015, 2016, 2017)	USDA-ARS Grain Legume Unit Pullman, WA (2015)

Contribution no. 18-147-S from the Kansas Agricultural Experiment Station.

2014-2017 PERFORMANCE TESTS

Objectives and Procedures

Spring field peas are a cool-season, grain legume crop that has emerged in recent years as a potential cash crop in northern Kansas. An official field pea variety testing program was established in 2014 to provide Kansas growers with unbiased performance comparisons of spring field pea varieties. From 2014-2016, the entries consisted entirely of yellow cotyledon type varieties. In 2017, several varieties of green field peas were entered, including CDC Greenwater, PSTSP28, and PSTSP29. Companies enter varieties of their choice and pay entry fees, which are used to cover the expenses of the testing program.

It is important for producers to consider multiple years and site-years of data when evaluating variety performance across a range of potential growing conditions. For this reason, this report is the first official publication of multiple years of data. Subsequent performance test results will be issued annually.

Descriptive information is presented with the results for each test. This information, including soil type, establishment methods, harvest dates, and growing conditions unique to that location, can help explain test and/or variety performance. All plots were planted and harvested with commercial-type equipment modified for use in small research plots. Harvested plot area measured 5 × 40 feet, at a minimum. At each location, varieties were arranged in a randomized complete block design (RCBD) with 5 replications. Prior to 2017, plots were seeded with a double-disk, no-till drill on 7.5-inch spacing. Beginning in 2017, 10-inch row spacing was used. Plots were machine-harvested with a Gleaner E combine modified for plot harvesting and equipped with a Shelbourne Reynolds stripper header. A grain sample from each plot was retained at harvest. Moisture and test weight were obtained with a Dickey-John GAC2100. From each sample, 300 seeds were counted, oven dried to constant weight, and weighed to determine seeds per pound.

Interpretation of Results

For each location report, 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 different than 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. Yields in the top LSD group are shown in bold.

Variety selection decisions should be based on more than a single year or site-year of data. Yield stability over time is an important attribute. Some varieties may have an excellent yield in a particular year but lack yield stability. Use of such a variety would unnecessarily increase production risk.

Summary of Growing Conditions and Test Results

2014-2017 Across Years

Any variety that has two or more years of data is presented in Table 1 on page 3. The most comprehensive data are the four-year averages for DS Admiral, Earlystar, and SW Midas at Rawlins and Thomas counties. The varieties AAC Carver, CDC Amarillo, and CDC Saffron have three-year averages available at Rawlins and Thomas counties as well. Only two-year averages are available for the Decatur (2015-2016) and Gove (2016-2017) locations. Producers should evaluate the yield stability of a given variety across both years and locations as part of their variety selection process.

2014

Growing season precipitation was below normal at all locations for most of the growing season. Only at the very end of the growing season, after yield had been determined, did cumulative growing season precipitation reach normal levels. In general, cumulative heat unit accumulation tracked normal at all locations with higher than normal accumulations at the Rawlins and Thomas locations and slightly below normal at the Scott County location. The Garden City location was abandoned as yields were severely limited by heat stress. Likewise, at the Scott County location, heat, while at normal levels, combined with lack of in-season precipitation severely limited yields. The plots were harvested; however, yields were extremely low and plot-to-plot variability precluded statistically-valid comparisons. These experiences, in conjunction with data collected at the Southwest Research-Extension Center in Garden City, KS, led to the decision to not place field pea variety performance test south of Highway 96 for the foreseeable future. Daytime high temperatures at the Rawlins County location were generally below normal during the time of pod fill, resulting in exceptional grain yields.

2015

The 2015 growing season started off with cumulative precipitation less than normal; however, by the late vegetative stage most locations had started accumulating more than normal precipitation. Higher than normal precipitation at the Sherman County location resulted in little irrigation being applied, approximately 4 inches throughout the growing season. Daytime maximum temperatures immediately prior to and at flowering were below normal, and continued to be moderate throughout flowering and pod fill. Yields were exceptional at the Decatur, Sherman, and Rawlins County locations, and generally above average at Thomas County.

2016

Above normal cumulative precipitation persisted through much of the 2016 growing season. Cumulative heat units for the season finished at or slightly above normal; however, all locations experienced cooler than normal conditions from mid-May through mid-June. Good yields were produced at all locations. A hail storm severely damaged the Gove County plot on May 29. At that time flowering had just started on the earliest varieties. Despite this damage, the plot produced harvestable yields, although the data should be interpreted with caution.

2017

New to the 2017 test were the inclusions of some green cotyledon types of field pea. All locations concluded the 2017 season with slightly to moderately above normal accumulation of heat units. The early weeks of May and the first week of June contained several days of above normal daytime high temperatures. Above normal daily high temperatures occurred June 19 through June 22 that negatively affected flowering and pod fill. The Decatur County location was destroyed by hail on June 29, followed by severe winds on July 2. The July 2 storm also caused some lodging at the Rawlins County location.

Production

Additional information on field pea production practices in Kansas can be found on the Northwest Area Agronomy website,
<http://www.northwest.ksu.edu/agronomy>

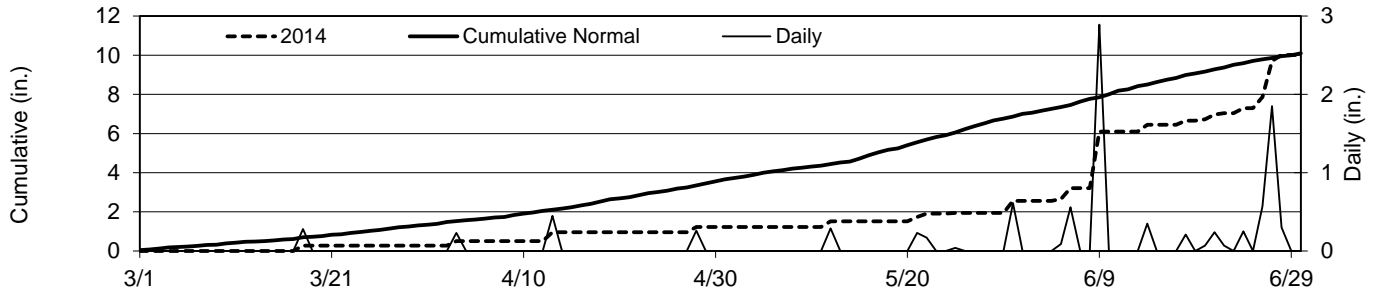
Table 1. Across-years yield averages for field pea varieties at four locations in northwest Kansas.

Company	Variety	Multi-year average, per county							
		<i>Rawlins</i>			<i>Thomas</i>			<i>Gove</i>	<i>Decatur</i>
		2 yr 2016-17	3 yr 2015-17	4 yr 2014-17	2 yr 2016-17	3 yr 2015-17	4 yr 2014-17	2 yr 2016-17	2 yr 2015-16
Great Northern Ag	Bridger	26.7	-	-	30.5	-	-	18.7	22
	Salmanca	29.6	-	-	33.1	-	-	20.2	24.8
	Spider	23.5	-	-	31.1	-	-	22.6	18.5
Legume Logic	Hyline	-	-	-	28.4	-	-	-	-
Meridian Seeds	AAC Carver	32.2	33.1	-	31.8	30.7	-	-	21.7
	CDC Amarillo	25.9	28.6	-	30.2	28.3	-	-	26.3
	CDC Saffron	24.5	28.3	-	26.3	26.4	-	-	24.3
	Earlystar	31.1	31.2	34.3	31.7	31.8	30	-	23
	Jetset	29.1	-	-	32.7	-	-	-	25.3
Photosyntech	PSTSP27	-	-	-	32.2	-	-	18.4	27.1
PulseUSA	DS Admiral	26.1	28.9	32.9	33.4	32.4	31.5	19.2	23.3
	Durwood	28.4	-	-	31.4	-	-	21.9	25.9
	SW Midas	23.3	28.4	33.6	27.1	27.4	26.6	26.6	22.3

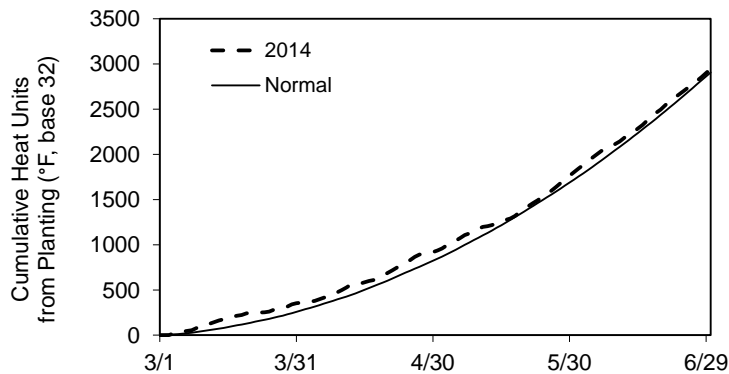
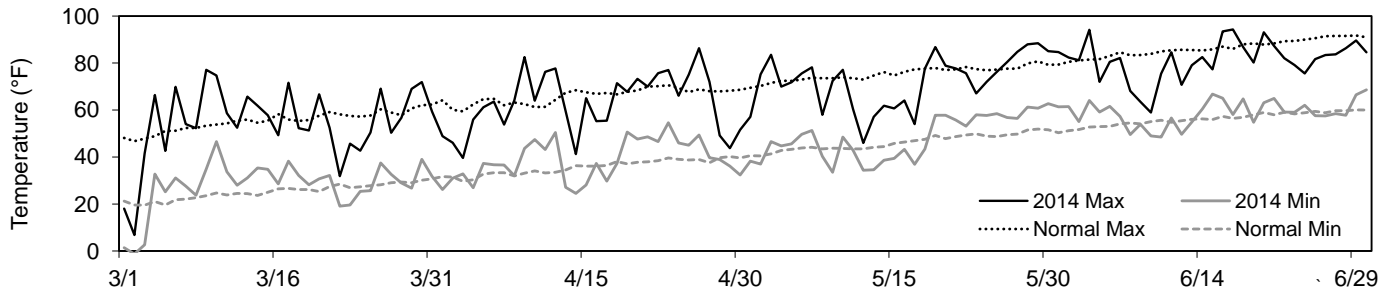
Rawlins County Dryland Field Pea Performance Test, 2014

County:	Rawlins County Dryland	Previous Crop:	Sorghum
Location:	Kastens Inc. - Herndon		
Soil Type:	Keith Silt Loam, 0-1% Slope		
Seeding Rate:	350,000 PLS seed/a	Herbicide	
		Pre-Emerge:	4.5 oz. Spartan 4F + 32 oz. Glyphosate
		Post-Emerge:	None

Precipitation



Temperature



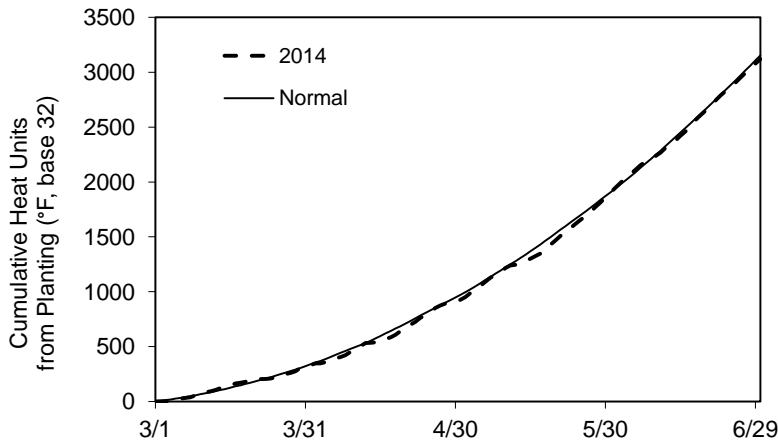
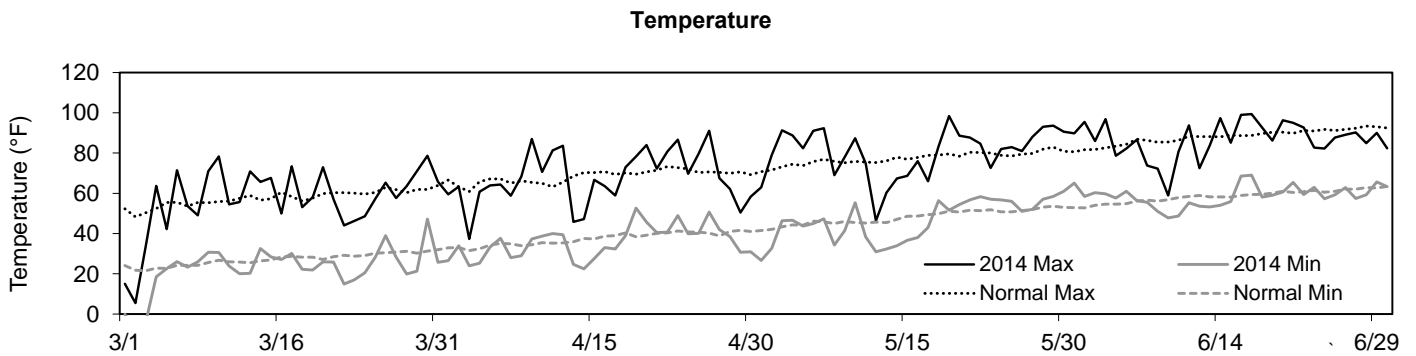
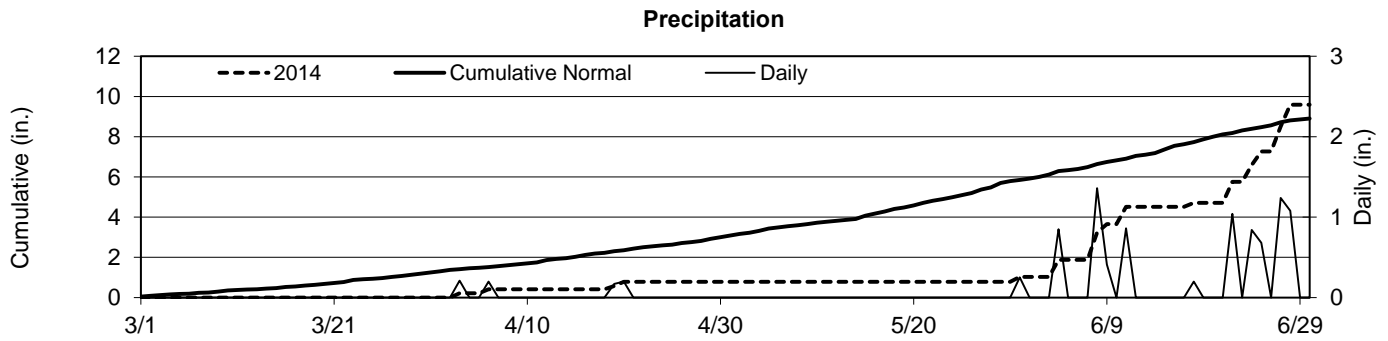
Month	Avg temp		Precipitation		Heat units	
	2014	Normal	2014	Normal	2014	Normal
March	41.2	40.3	0.28	1.34	353	257
April	50.9	50.8	0.94	2.21	567	565
May	60.5	61.0	1.34	3.31	885	898
June	70.0	71.5	7.45	3.23	1140	1185
Total			10.01	10.10	2944	2906

Rawlins County Dryland Field Pea Performance Test, 2014

Company	Variety	Grain Yield, bu/a					2014				
		2014	2013	2012	2yr	3yr	Yield % of	Moisture	Test weight	Plant height	Seeds / lb
					Avg	Avg	Test Avg	%	lb / bu	inches	
MonTech	4152	50.9	--	--	--	--	107	16.3	63.7	21.0	--
Meridian_Seeds	Agassiz	49.3	--	--	--	--	104	16.2	63.7	21.3	--
PulseUSA	SW_Midas	49.1	--	--	--	--	103	14.6	64.3	20.1	--
PulseUSA	Nette_2010	47.5	--	--	--	--	100	13.6	64.5	16.6	--
PulseUSA	DS_Admiral	44.9	--	--	--	--	94	13.8	64.0	18.8	--
Meridian_Seeds	Earlystar	43.5	--	--	--	--	92	14.7	63.7	18.3	--
	Average	47.5	--	--	--	--		14.9	64.0	19.3	--
	LSD(0.05)	5.5	--	--	-	-		0.8	1.0	2.3	--

Scott County Dryland Field Pea Performance Test, 2014

County:	Scott County Dryland		
Location:	1/2 mi NW of Shallow Water		
Soil Type:	Ulysses Silt Loam, 0-1% Slope	Previous Crop:	Sorghum
Seeding Rate:	350,000 PLS seed/a	Herbicide	
		Pre-Emerge:	4.5 oz. Spartan 4F + 32 oz. Glyphosate
		Post-Emerge:	None



Month	Avg temp		Precipitation		Heat units	
	2014	Normal	2014	Normal	2014	Normal
March	39.8	42.4	0.00	1.25	319	322
April	51.8	52.9	0.78	1.75	595	626
May	63.9	62.9	0.25	2.84	989	958
June	72.5	73.6	8.56	3.05	1215	1247
Total	23		9.59	8.90	3119	3153

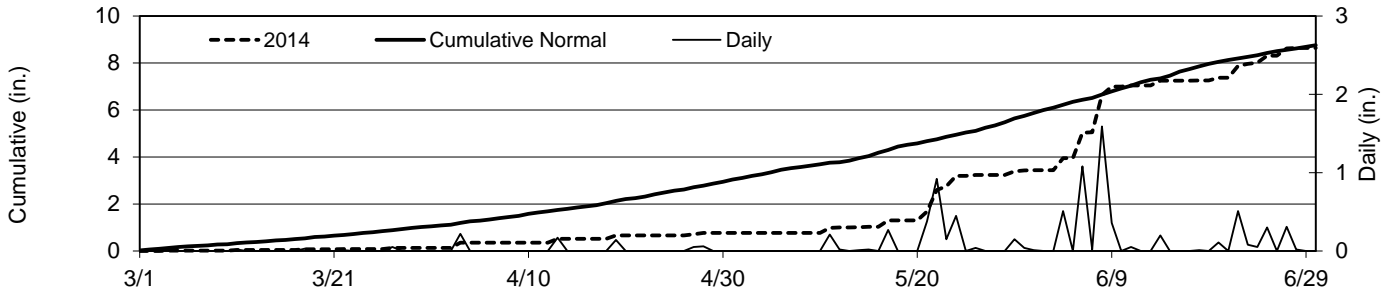
Scott County Dryland Field Pea Performance Test, 2014

Company	Variety	Grain Yield, bu/a					2014				
		2014	2013	2012	2yr	3yr	Yield % of	Moisture	Test weight	Plant height	Seeds / lb
					Avg	Avg	Test Avg	%	lb / bu	inches	
MonTech	4152	5.2	--	--	--	--	113	13.3	58.5	8.9	--
Meridian_Seeds	Earlstar	4.0	--	--	--	--	87	13.3	59.8	9.4	--
Meridian_Seeds	Agassiz	4.6	--	--	--	--	99	13.4	55.9	10.3	--
	Average	4.6	--	--	--	--		13.3	57.8	9.5	--
	LSD(0.05)	3.8	--	--	--	--		0.4	6.4	1.6	--

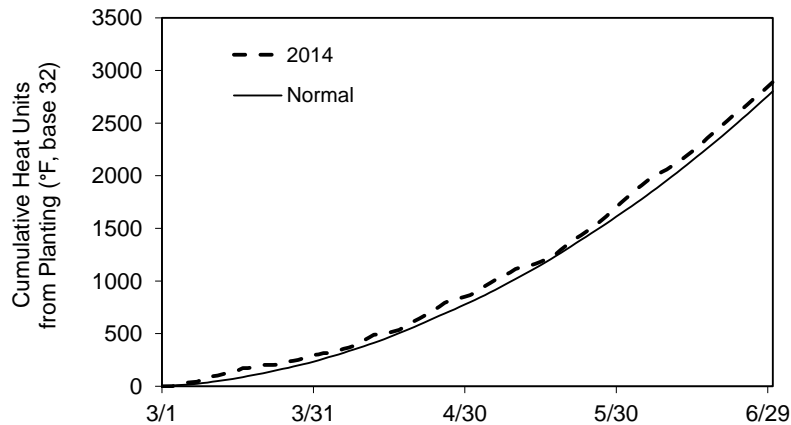
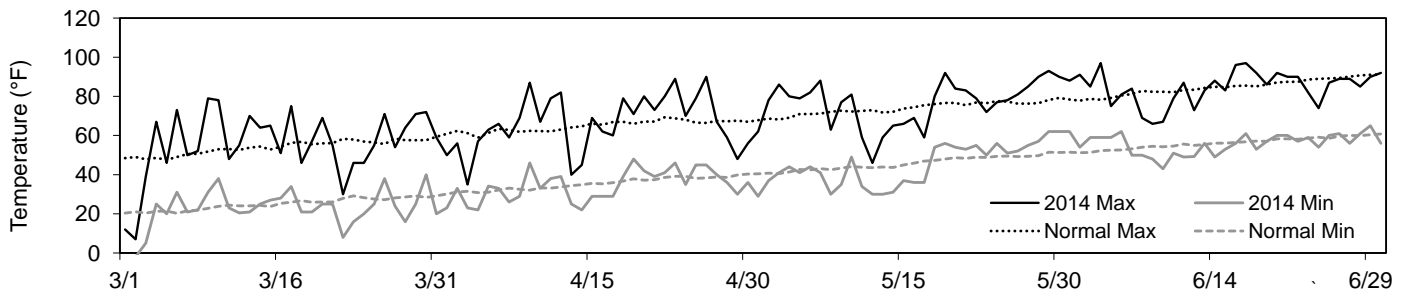
Thomas County Dryland Field Pea Performance Test, 2014

County:	Thomas County Dryland		
Location:	K-State NWREC, Colby		
Soil Type:	Keith Silt Loam, 0-1% Slope	Previous Crop:	Sorghum
Seeding Rate:	350,000 PLS seed/a	Herbicide	
		Pre-Emerge:	5 oz. Spartan Charge
		Post-Emerge:	None

Precipitation



Temperature



Month	Avg temp		Precipitation		Heat units	
	2014	Normal	2014	Normal	2014	Normal
March	39.0	39.5	0.13	1.05	297	233
April	50.4	50.1	0.64	1.89	554	543
May	60.9	60.0	2.66	2.81	896	868
June	70.1	70.6	5.21	3.01	1143	1158
Total			8.64	8.76	2890	2803

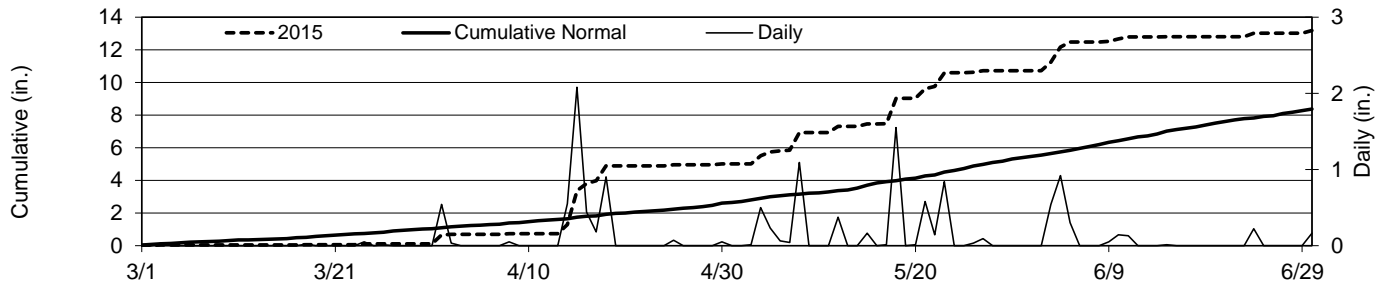
Thomas County Dryland Field Pea Performance Test, 2014

Company	Variety	Grain Yield, bu/a					2014					
		2014	2013	2012	2yr	3yr	Yield % of	Moisture	Test weight	Plant height	Bloom date	Seeds / lb
					Avg	Avg	Test Avg	%	lb / bu	inches	DOY	
PulseUSA	DS_Admiral	28.8	--	--	--	--	111	12.7	63.8	20.3	--	--
PulseUSA	Nette_2010	28.7	--	--	--	--	111	14.2	63.9	18.9	--	--
MonTech	4152	27.1	--	--	--	--	105	14.6	62.7	19.0	--	--
Meridian_Seeds	Earlystar	24.6	--	--	--	--	95	14.4	63.1	20.1	--	--
PulseUSA	SW_Midas	24.3	--	--	--	--	94	13.2	63.3	18.5	--	--
Meridian_Seeds	Agassiz	21.3	--	--	--	--	82	16.9	61.0	18.7	--	--
	Average	25.9	--	--	--	--		14.2	63.0	19.3	--	--
	LSD(0.05)	3.0	--	--	--	--		0.8	1.3	2.0	--	--

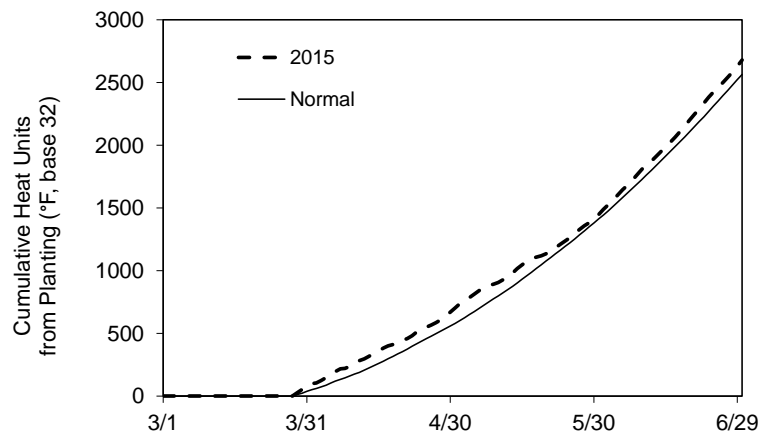
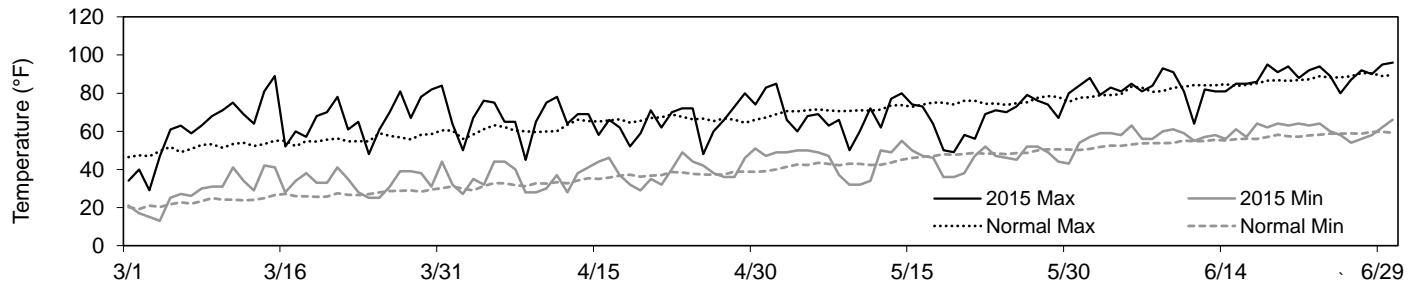
Sherman County Irrigated Field Pea Performance Test, 2015

County:	Sherman County Irrigated		
Location:	1 mi. S of Goodland		
Soil Type:	Keith Silt Loam, 0-1% Slope	Previous Crop:	Irrigated Corn
Seeding Rate:	350,000 PLS seed/a		
Dates			
Planting:	3/30/2015		
Harvest:	7/18/2015		

Precipitation



Temperature



Month	Avg temp		Precipitation		Heat units	
	2015	Normal	2015	Normal	2015	Normal
March	47.7	39.5	0.11	1.03	83	36
April	51.6	49.4	4.89	1.56	587	521
May	57.1	59.6	5.71	2.79	779	854
June	73.1	70.4	2.47	2.99	1232	1153
Total			13.18	8.38	2680	2565

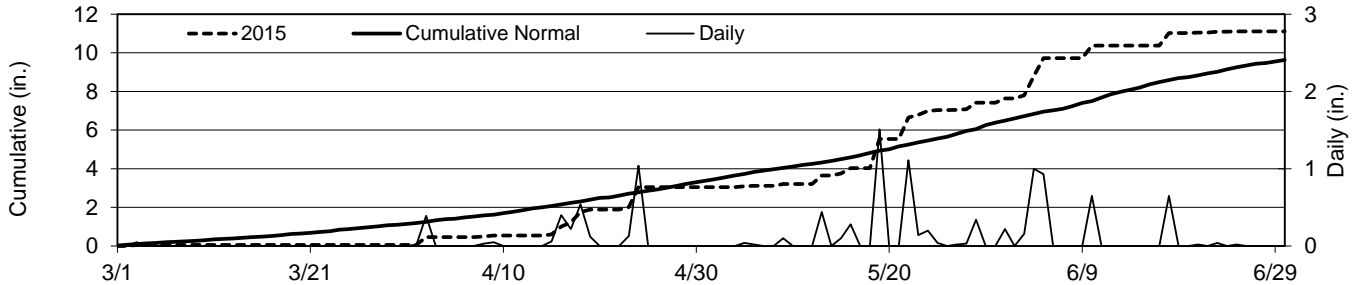
Sherman County Irrigated Field Pea Performance Test, 2015

Company	Variety	Grain Yield, bu/a					2015					
		2015	2014	2013	2yr	3yr	Yield % of	Moisture	Test weight	Plant height	Bloom date	Seeds / lb
					Avg	Avg	Test Avg	%	lb / bu	inches	DOY	
CDC/Meridian_Seeds	CDC_Amarillo	57.7	--	--	--	--	114	10.1	62.3	32.5	161.4	2748
Meridian_Seeds	Earlstar	54.9	--	--	--	--	108	9.6	60.8	36.0	157.4	2996
MonTech	4193	54.8	--	--	--	--	108	9.6	60.1	28.3	159.2	2777
CDC	CDC_Meadow	54.4	--	--	--	--	107	9.5	62.2	27.3	157.8	3212
Meridian_Seeds	AAC_Carver	54.3	--	--	--	--	107	9.8	61.9	30.3	160.0	2872
CDC/Meridian_Seeds	CDC_Saffron	51.3	--	--	--	--	101	9.7	61.6	27.0	160.6	2933
MonTech	4152	47.1	--	--	--	--	93	9.8	61.1	33.0	156.0	2719
Meridian_Seeds	Agassiz	37.5	--	--	--	--	74	9.7	60.0	26.7	160.0	2832
	Average	50.7	--	--	--	--		9.7	61.1	30.5	159.1	2833
	LSD(0.05)	5.1	--	--	--	--		0.2	0.9	--	0.7	116

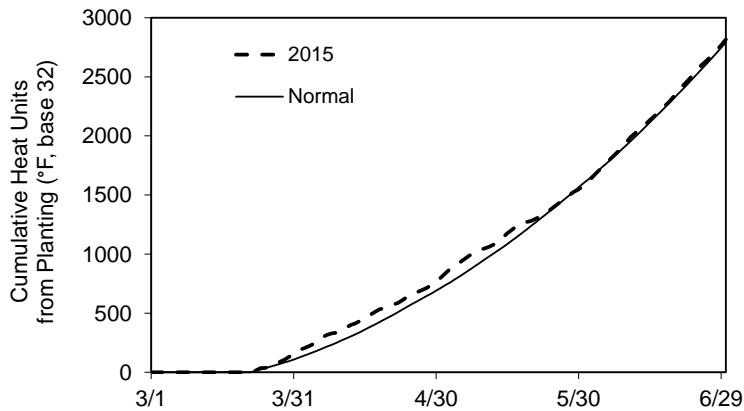
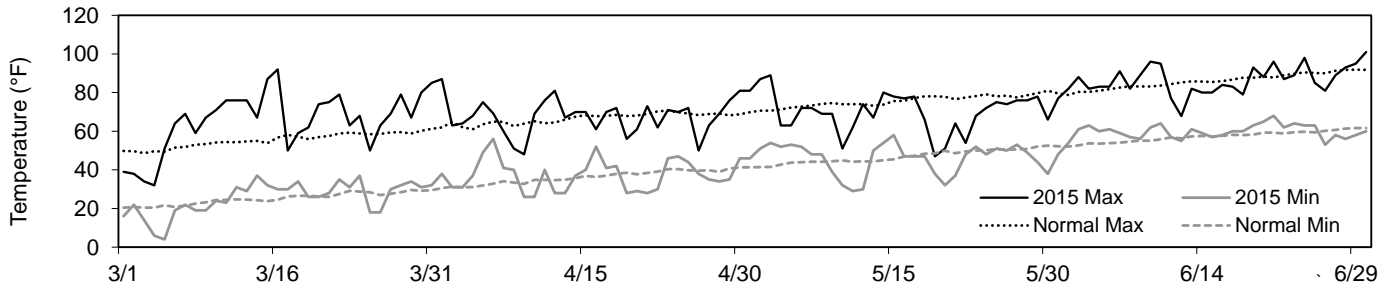
Decatur County Dryland Field Pea Performance Test, 2015

County:	Decatur County Dryland		
Location:	5 mi. W/NW of Lyle		
Soil Type:	Holdrege Silt Loam, 1-3% Slope	Previous Crop:	Corn
Seeding Rate:	350,000 PLS seed/a	Herbicide	
		Pre-Emerge:	5 oz. Spartan Charge
		Post-Emerge:	None
Dates			
Planting:	3/24/2015		
Harvest:	7/19/2015		

Precipitation



Temperature



Month	Avg temp		Precipitation		Heat units	
	2015	Normal	2015	Normal	2015	Normal
March	45.3	40.3	0.05	1.14	156	108
April	52.5	51.4	3.00	2.15	614	582
May	58.1	61.3	4.37	3.09	809	908
June	73.3	71.7	3.69	3.25	1238	1192
Total			11.11	9.63	2816	2791

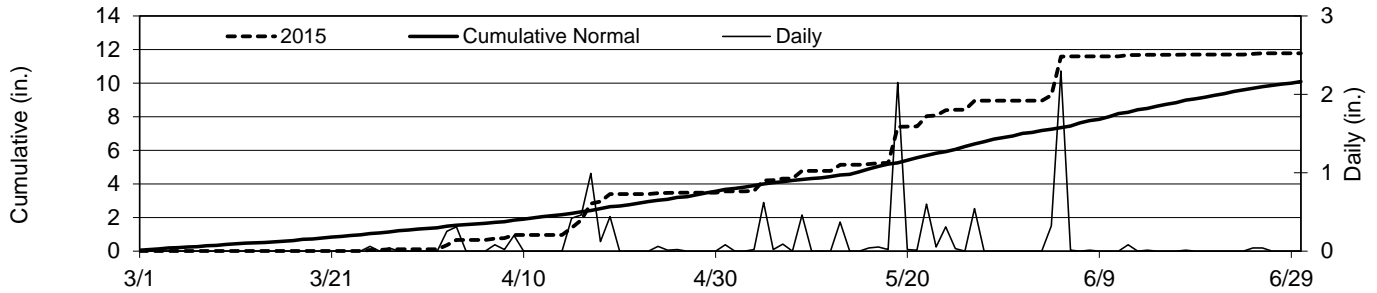
Decatur County Dryland Field Pea Performance Test, 2015

Company	Variety	Grain Yield, bu/a					2015					
		2015	2014	2013	2yr	3yr	Yield % of	Moisture	Test weight	Plant height	Bloom date	Seeds / lb
					Avg	Avg	Test Avg	%	lb / bu	inches	DOY	
MonTech	4193	50.8	--	--	--	--	125	11.9	58.9	--	--	2343
CDC/Meridian_Seeds	CDC_Saffron	48.0	--	--	--	--	118	12.4	59.8	--	--	2477
CDC	CDC_Meadow	43.7	--	--	--	--	108	11.2	60.9	--	--	2924
CDC/Meridian_Seeds	CDC_Amarillo	41.2	--	--	--	--	101	11.8	60.8	--	--	2624
MonTech	4152	37.9	--	--	--	--	93	12.4	59.3	--	--	2322
	Average	40.6	--	--	--	--		11.9	59.7	--	--	2586
	LSD(0.05)	8.5	--	--	--	--		0.3	0.9	--	--	183

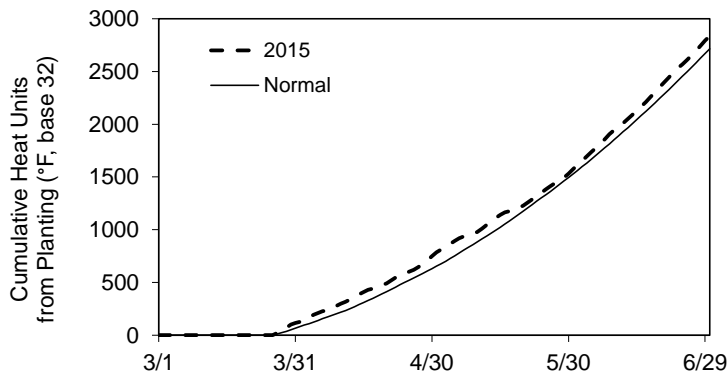
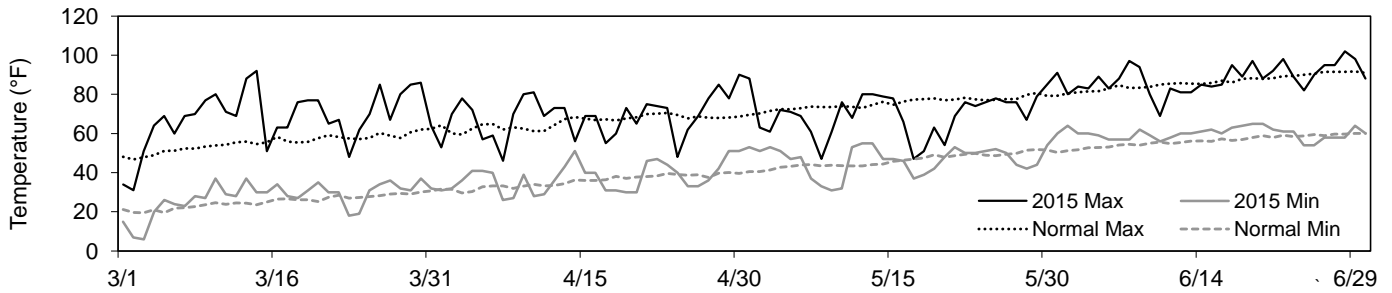
Rawlins County Dryland Field Pea Performance Test, 2015

County:	Rawlins County Dryland		
Location:	6 mi. N of Atwood		
Soil Type:	Kuma Silt Loam, 0-1% Slope	Previous Crop:	Corn
Seeding Rate:	350,000 PLS seed/a	Herbicide	
		Pre-Emerge:	4.5oz Spartan 4F + 32 oz. Glyphosate
		Post-Emerge:	None
Dates			
Planting:	3/28/2015		
Harvest:	7/20/2015		

Precipitation



Temperature



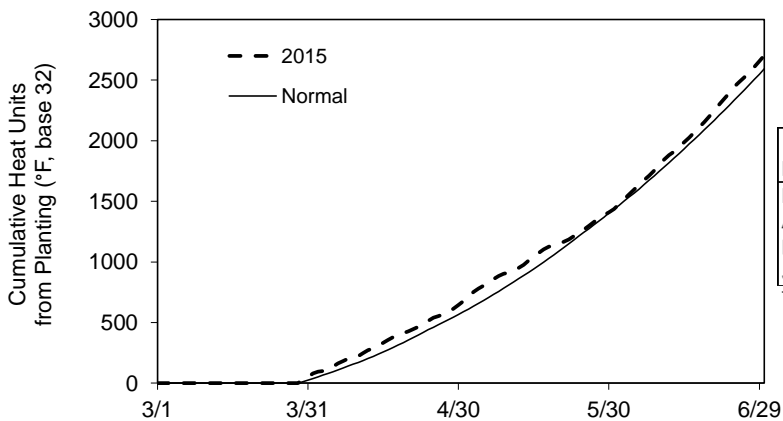
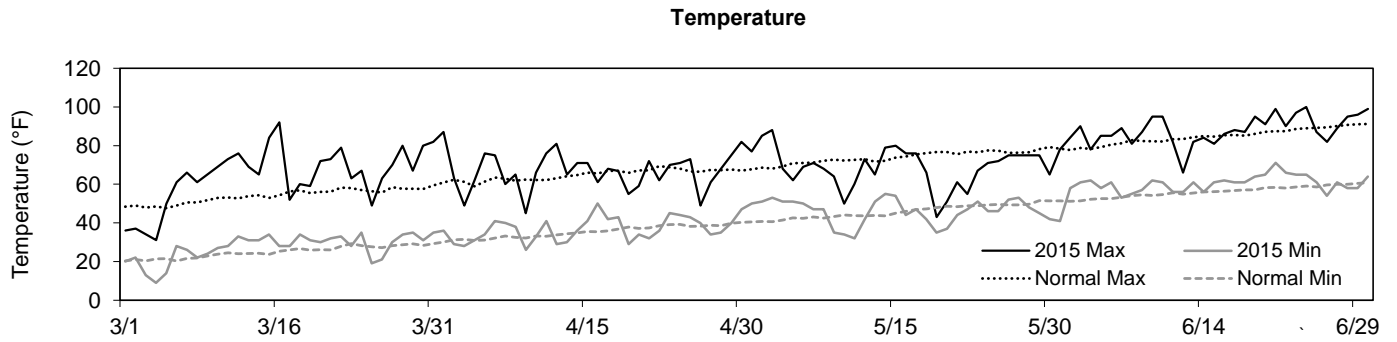
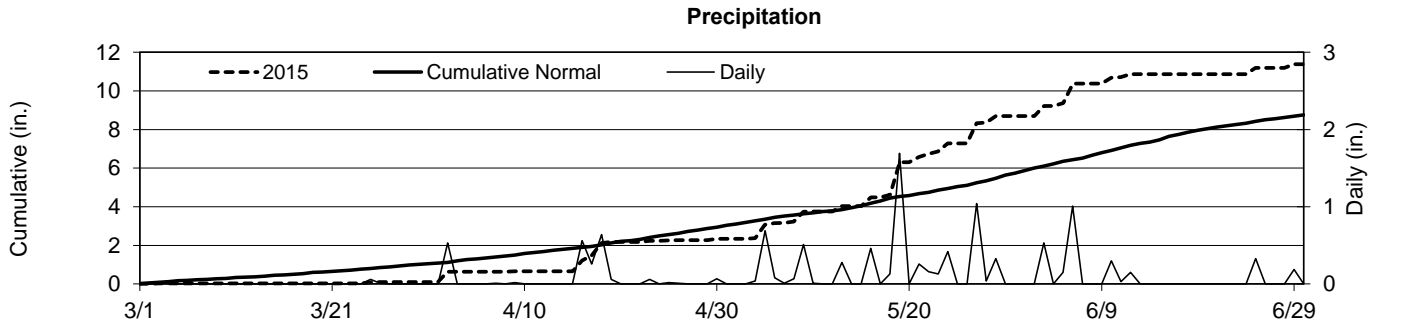
Month	Avg temp		Precipitation		Heat units	
	2015	Normal	2015	Normal	2015	Normal
March	47.8	40.3	0.10	1.34	115	65
April	53.1	50.8	3.38	2.21	633	565
May	58.7	61.0	5.48	3.31	827	898
June	74.1	71.5	2.82	3.23	1262	1185
Total			11.78	10.10	2836	2714

Rawlins County Dryland Field Pea Performance Test, 2015

Company	Variety	Grain Yield, bu/a					2015				
		2015	2014	2013	2yr	3yr	Yield % of	Moisture	Test weight	Plant height	Seeds / lb
					Avg	Avg	Test Avg	%	lb / bu	inches	
PulseUSA	Abarth	46.2	--	--	--	--	136	11.9	60.8	29.0	2509
PulseUSA	Nette_2010	39.5	47.5	--	43.5	--	116	10.2	61.4	26.0	2923
CDC	CDC_Meadow	39.4	--	--	--	--	116	11.5	61.1	29.0	3016
PulseUSA	SW_Midas	38.5	49.1	--	43.8	--	113	12.4	59.8	23.9	2947
CDC/Meridian_Seeds	CDC_Saffron	36.1	--	--	--	--	106	13.6	60.4	29.3	2636
Meridian_Seeds	AAC_Carver	34.9	--	--	--	--	103	11.2	61.4	--	2729
MonTech	4193	34.7	--	--	--	--	102	12.5	59.6	26.7	2545
MonTech	4152	34.5	50.9	--	42.7	--	102	13.0	60.0	29.1	2432
PulseUSA	DS_Admiral	34.4	44.9	--	39.7	--	101	12.8	60.2	29.5	2513
CDC/Meridian_Seeds	CDC_Amarillo	34.0	--	--	--	--	100	13.1	61.6	31.3	2740
USDA-ARS	PS08100950	33.0	--	--	--	--	97	12.2	60.7	20.6	2311
Meridian_Seeds	Earlystar	31.5	43.5	--	37.5	--	93	12.5	60.4	28.3	2770
USDA-ARS	PS08101004	27.9	--	--	--	--	82	12.6	59.4	22.6	2445
USDA-ARS	PS07100925	27.9	--	--	--	--	82	12.2	59.5	21.8	2377
USDA-ARS	PS08101022	27.5	--	--	--	--	81	12.8	60.4	21.8	2403
Meridian_Seeds	Agassiz	22.9	49.3	--	36.1	--	67	12.6	59.8	23.1	2580
	Average	34.0	47.5	--	40.7	--		12.2	60.4	26.3	2641
	LSD(0.05)	9.8	5.5	--	-	-		0.6	0.8	3.2	120

Thomas County Dryland Field Pea Performance Test, 2015

County:	Thomas County Dryland		
Location:	K-State NWREC, Colby		
Soil Type:	Keith Silt Loam, 0-1% Slope	Previous Crop:	Sorghum
Seeding Rate:	350,000 PLS seed/a	Herbicide	
		Pre-Emerge:	4 oz. Spartan Charge + 32 oz. Glyphosate
		Post-Emerge:	None
Dates			
Planting:	3/31/2015		
Harvest:	7/21/2015		



Month	Avg temp		Precipitation		Heat units	
	2015	Normal	2015	Normal	2015	Normal
March	45.7	39.5	0.10	1.05	50	23
April	51.9	50.1	2.24	1.89	596	543
May	57.5	60.0	6.35	2.81	790	868
June	74.3	70.6	2.69	3.01	1270	1158
Total			11.38	8.76	2705	2593

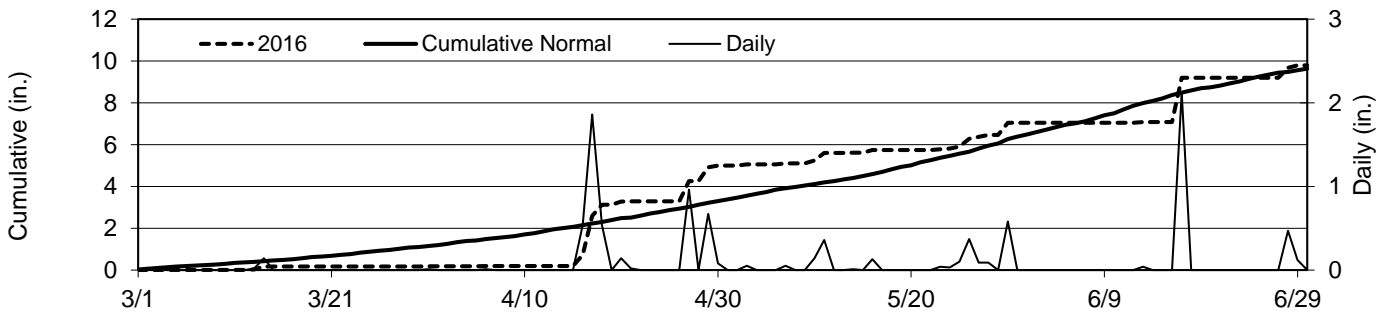
Thomas County Dryland Field Pea Performance Test, 2015

Company	Variety	Grain Yield, bu/a					2015					
		2015	2014	2013	2yr	3yr	Yield % of	Moisture	Test weight	Plant height	Bloom date	Seeds / lb
					Avg	Avg	Test Avg	%	lb / bu	inches	DOY	
PulseUSA	Abarth	33.3	--	--	--	--	134	11.0	58.8	32.1	153.0	2990
Meridian_Seeds	Earlstar	32.0	24.6	--	28.3	--	129	11.0	59.2	31.2	153.4	3466
MonTech	4193	30.6	--	--	--	--	124	10.8	58.3	29.4	154.2	3153
PulseUSA	DS_Admiral	30.5	28.8	--	29.7	--	123	11.0	58.7	30.0	153.4	3036
Meridian_Seeds	AAC_Carver	28.6	--	--	--	--	116	10.3	59.6	30.3	154.8	3619
PulseUSA	SW_Midas	28.0	24.3	--	26.2	--	113	11.6	57.5	26.6	154.4	3652
PulseUSA	Nette_2010	28.0	28.7	--	28.3	--	113	11.5	59.6	29.1	152.0	3578
CDC	CDC_Meadow	27.0	--	--	--	--	109	10.8	59.1	28.9	154.0	3992
CDC/Meridian_Seeds	CDC_Saffron	26.4	--	--	--	--	107	11.6	59.2	28.8	155.0	3463
MonTech	4152	24.8	27.1	--	26.0	--	100	11.3	58.7	29.0	152.0	3057
CDC/Meridian_Seeds	CDC_Amarillo	24.6	--	--	--	--	99	11.8	60.1	32.3	156.4	3554
USDA-ARS	PS08101022	18.6	--	--	--	--	75	10.7	58.9	26.5	151.3	3154
USDA-ARS	PS07100925	18.5	--	--	--	--	75	10.9	59.0	25.3	153.7	2704
Meridian_Seeds	Agassiz	16.5	21.3	--	18.9	--	66	11.6	58.2	26.6	155.4	3116
USDA-ARS	PS08101004	13.8	--	--	--	--	56	10.1	58.6	26.6	155.0	3572
USDA-ARS	PS08100950	10.6	--	--	--	--	43	10.5	58.5	24.0	155.3	3022
	Average	24.7	25.9	--	25.3	--		11.2	58.8	28.7	154.2	3292
	LSD(0.05)	6.0	3.0	--	--	--		1.0	1.1	2.6	0.8	201

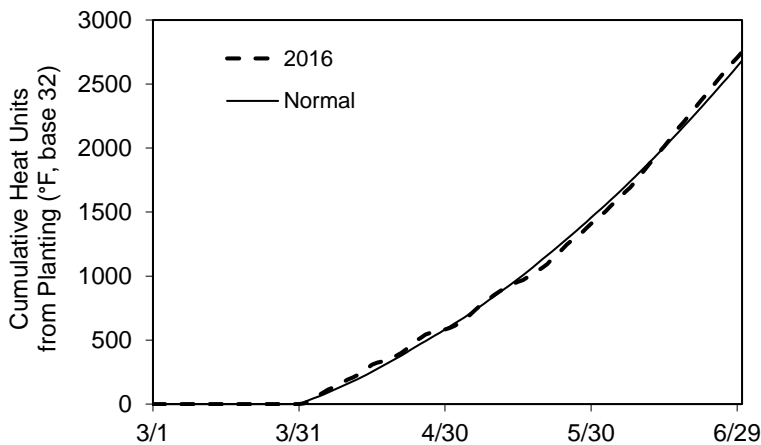
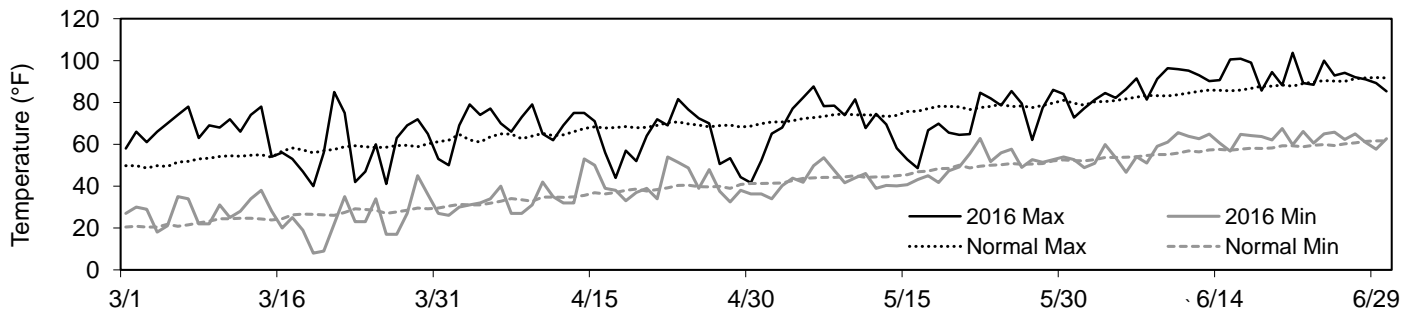
Decatur County Dryland Field Pea Performance Test, 2016

County:	Decatur County Dryland		
Location:	4 mi. NW of Lyle		
Soil Type:	Holdrege Silt Loam, 1-3% Slope	Previous Crop:	Corn
Seeding Rate:	350,000 PLS seed/a	Herbicide	
		Pre-Emerge:	5 oz. Spartan Charge
		Post-Emerge:	None
Dates:			
Planting:	4/1/2016		
Harvest:	7/8/2016		

Precipitation



Temperature



Month	Avg temp		Precipitation		Heat units	
	2016	Normal	2016	Normal	2016	Normal
March	44.4	40.3	0.18	1.14	0	0
April	51.4	51.4	4.82	2.15	583	582
May	59.7	61.3	2.04	3.09	858	908
June	75.6	71.7	2.75	3.25	1309	1192
Total			9.79	9.63	2750	2683

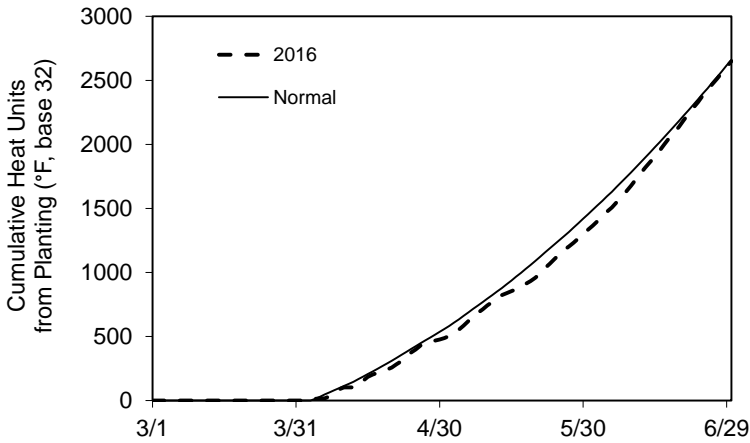
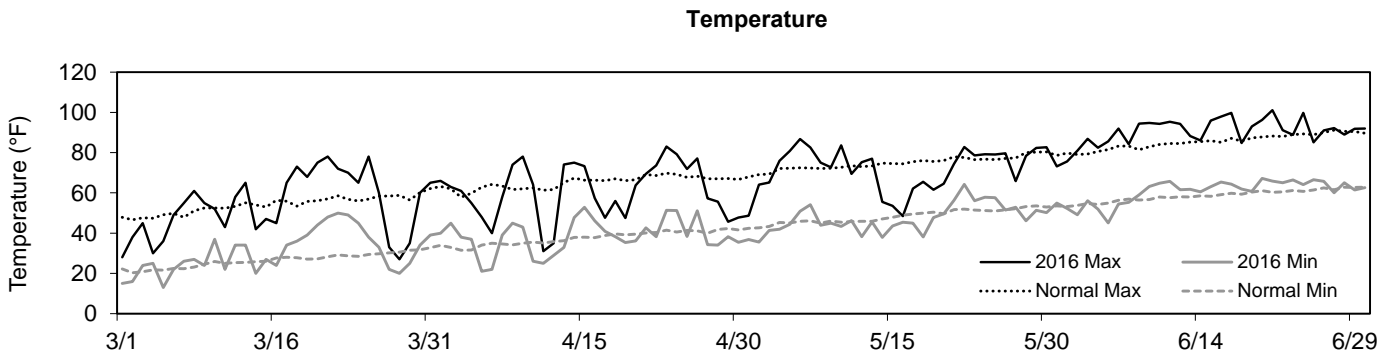
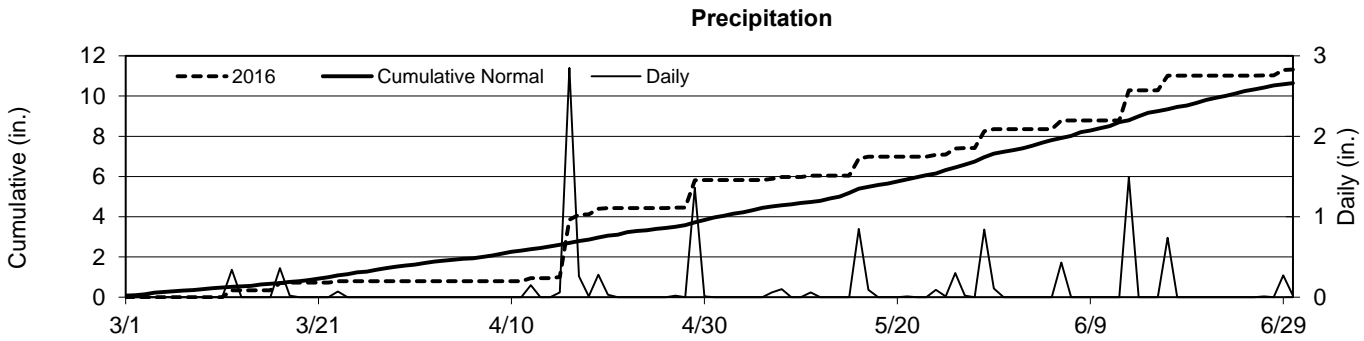
Decatur County Dryland Field Pea Performance Test, 2016

Company	Variety	Grain Yield, bu/a					2016				
		2016	2015	2014	2yr	3yr	Yield % of	Moisture	Test Weight	Seeds / lb	Lodging
					Avg	Avg	Test Avg	%	lb / bu		3 = 30% lodged
Meridian_Seeds	AAC_Carver	31.7	--	--	--	--	132	12.1	63.1	2880	3.0
Photosyntech	PSTSP27	27.1	--	--	--	--	113	12.2	63.6	2731	3.0
CDC/Meridian_Seeds	CDC_Amarillo	26.3	41.2	--	33.7	--	109	12.2	63.4	2789	1.7
PulseUSA	Durwood	25.9	--	--	--	--	108	12.1	62.9	2830	4.8
Meridian_Seeds	Jetset	25.3	--	--	--	--	105	11.8	62.5	2827	7.0
PulseUSA	Nette_2010	25.0	--	--	--	--	104	12.5	64.3	2879	7.0
Great_Northern_Ag	Salamanca	24.8	--	--	--	--	103	11.8	62.4	2913	4.0
CDC/Meridian_Seeds	CDC_Saffron	24.3	48.0	--	36.1	--	101	12.4	63.3	2879	2.7
PulseUSA	Abarth	23.3	--	--	--	--	97	12.2	62.8	2452	4.7
PulseUSA	DS_Admiral	23.3	--	--	--	--	97	11.9	63.0	2654	4.0
Photosyntech	PSTSP26	23.1	--	--	--	--	96	12.0	62.9	2822	6.6
Meridian_Seeds	Earlystar	23.0	--	--	--	--	95	11.7	63.2	3081	7.0
MonTech	4193	22.8	50.8	--	36.8	--	95	12.1	62.5	2674	3.0
PulseUSA	SW_Midas	22.3	--	--	--	--	93	11.9	62.7	3180	5.5
Great_Northern_Ag	Bridger	22.0	--	--	--	--	91	12.0	63.4	3053	4.0
Great_Northern_Ag	Navarro	21.0	--	--	--	--	87	12.1	62.5	2518	6.8
Great_Northern_Ag	Spider	18.5	--	--	--	--	77	12.5	63.6	2676	2.0
	Average	24.1	40.6	--	32.4	--		12.1	63.0	2815	5
	LSD(0.05)	3.7	8.5	--	6.1	--		0.3	0.6	127	2

Gove County Dryland Field Pea Performance Test, 2016

County: Gove County Dryland
Location: 4 mi SE of Grainfield
Soil Type: Kuma Silt Loam, 0-1% Slope **Previous Crop:** Grain Sorghum
Seeding Rate: 350,000 PLS seed/a **Herbicide**
 Pre-Emerge: 12/20/15 - 4 oz. Spartan, 4 oz. Dicamba, 4 oz. 2,4-D
 Post-Emerge: None
Dates:
 Planting: 4/4/2016
 Harvest: 7/11/2016

Plot received severe hail damage 5/29/2016, flowering had just started



Month	Avg temp		Precipitation		Heat units	
	2016	Normal	2016	Normal	2016	Normal
March	42.2	40.3	0.79	1.62	0	0
April	49.7	51.4	5.03	2.22	476	536
May	59.7	61.6	2.54	3.39	857	918
June	75.9	72.2	2.96	3.42	1316	1206
Total			11.32	10.64	2649	2660

Gove County Dryland Field Pea Performance Test, 2016

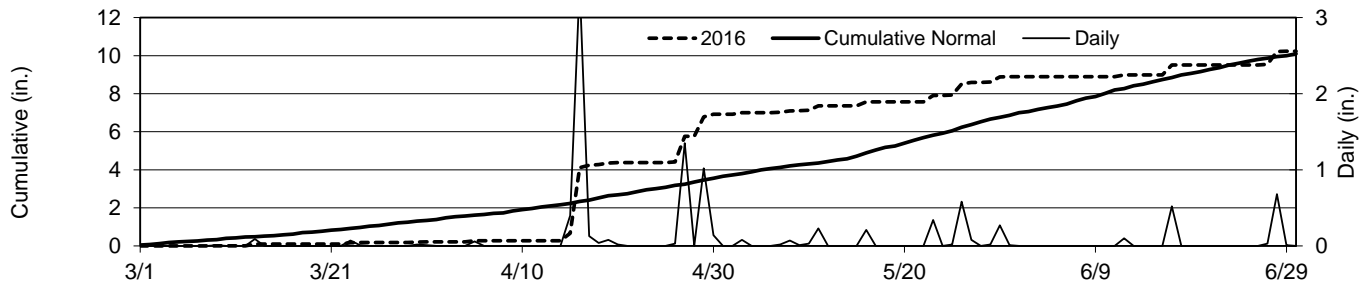
Plot received severe hail damage 5/29/2016, flowering had just started

Company	Variety	Grain Yield, bu/a					2016				
		2016	2015	2014	2yr	3yr	Yield % of	Moisture	Test Weight	Seeds / lb	Stand
					Avg	Avg	Test Avg	%	lb / bu		plants / acre
PulseUSA	SW_Midas	27.9	--	--	--	--	141	9.3	61.0	3806	281107
PulseUSA	Nette_2010	22.4	--	--	--	--	113	9.9	63.2	3201	236966
Great_Northern_Ag	Salamanca	20.9	--	--	--	--	106	9.3	60.8	3224	271040
PulseUSA	Durwood	20.6	--	--	--	--	104	9.4	61.2	3584	232320
Great_Northern_Ag	Bridger	20.6	--	--	--	--	104	9.7	61.1	3282	225350
Photosyntech	PSTSP26	20.5	--	--	--	--	104	9.2	61.6	3017	246259
MonTech	4193	20.4	--	--	--	--	103	9.3	60.6	3161	262522
Photosyntech	PSTSP27	18.3	--	--	--	--	93	9.2	60.9	2926	255552
PulseUSA	DS_Admiral	18.0	--	--	--	--	91	9.4	61.2	3119	209088
Great_Northern_Ag	Navarro	17.2	--	--	--	--	87	9.3	61.3	2853	243936
Great_Northern_Ag	Spider	16.0	--	--	--	--	81	9.4	61.9	3241	209088
PulseUSA	Abarth	15.7	--	--	--	--	79	9.5	61.2	3175	243936
	Average	19.8	--	--	--	--		9.4	61.3	3235	243739
	LSD(0.05)	3.7	--	--	--	--		0.4	1.0	282	27990

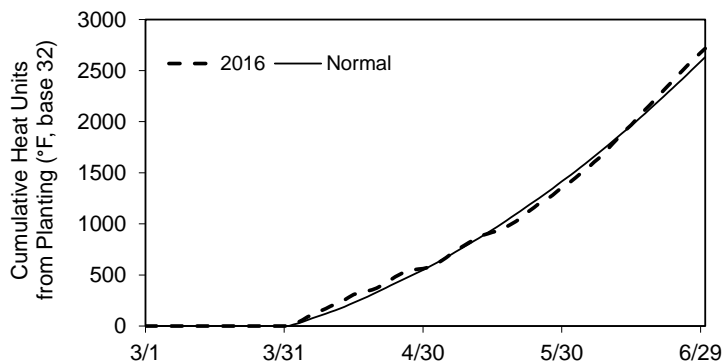
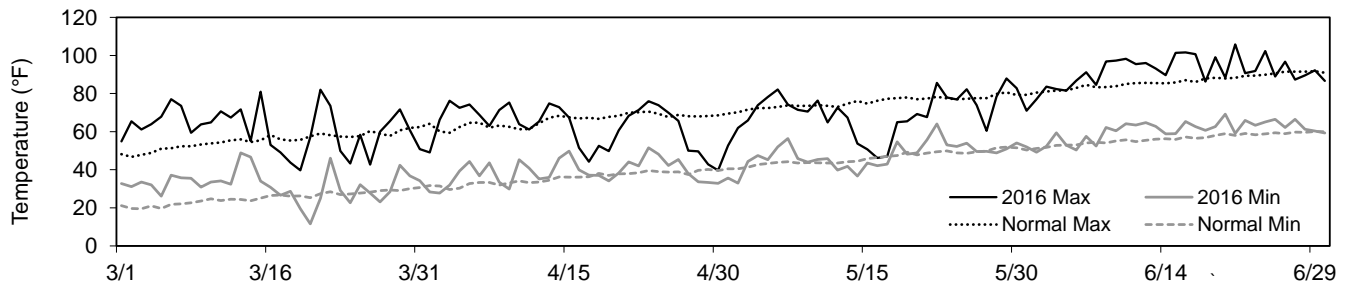
Rawlins County Dryland Field Pea Performance Test, 2016

County:	Rawlins County Dryland		
Location:	5 mi. N/NE of Atwood		
Soil Type:	Keith Silt Loam, 0-1% Slope	Previous Crop:	Grain Sorghum
Seeding Rate:	350,000 PLS seed/a	Herbicide Pre-Emerge:	4.5 oz. Spartan 4F + 32 oz. Glyphosate
		Post-Emerge:	None
Dates:			
Planting:	4/2/2016		
Harvest:	7/10/2016		

Precipitation



Temperature



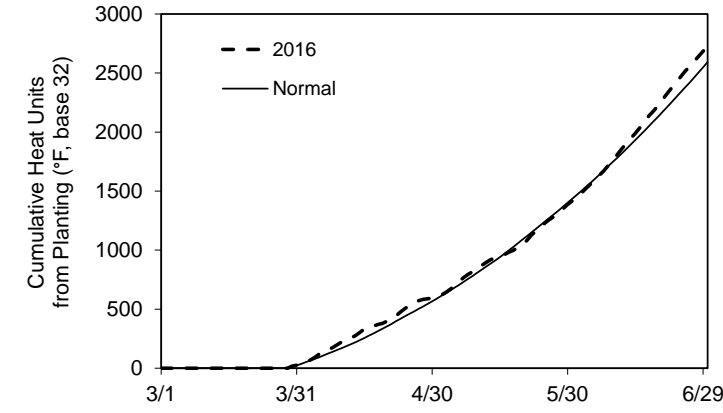
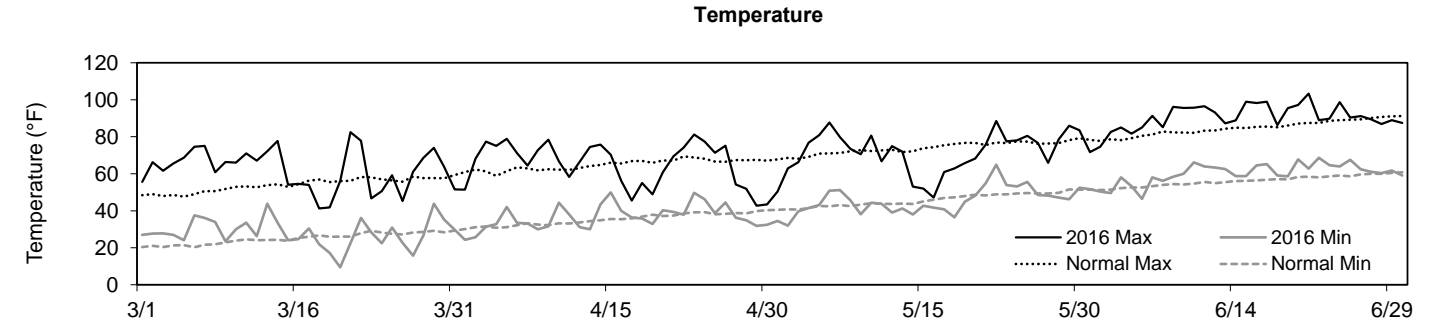
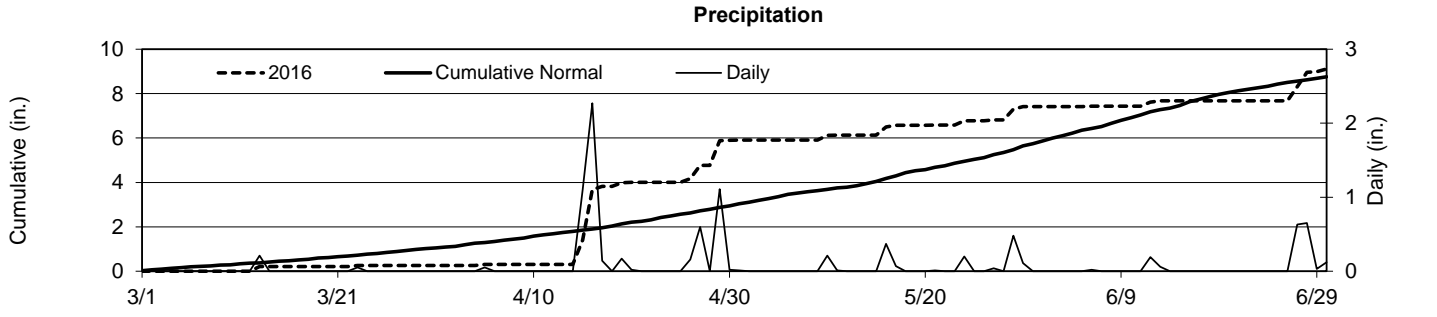
Month	Avg temp		Precipitation		Heat units	
	2016	Normal	2016	Normal	2016	Normal
March	46.6	40.3	0.21	1.34	0	0
April	50.9	50.8	6.71	2.21	561	549
May	58.6	61.0	1.97	3.31	824	898
June	76.4	71.5	1.34	3.23	1332	1185
Total			10.23	10.10	2717	2633

Rawlins County Dryland Field Pea Performance Test, 2016

Company	Variety	Grain Yield, bu/a					2016					
		2016	2015	2014	2yr	3yr	Yield % of	Moisture	Test Weight	Plant Height	Seeds / lb	Lodging
					Avg	Avg	Test Avg	%	lb / bu	inches		8=80% Standing
Great_Northern_Ag	Salamanca	34.0	--	--	--	--	124	10.3	60.8	23.4	3012	4.0
Meridian_Seeds	Jetset	32.1	--	--	--	--	118	10.5	61.1	23.4	2764	6.0
Meridian_Seeds	AAC_Carver	31.8	34.9	--	33.4	--	116	10.5	61.0	21.8	3006	3.3
PulseUSA	Durwood	30.6	--	--	--	--	112	10.7	61.7	24.6	3043	2.4
Meridian_Seeds	Earlystar	30.4	31.5	43.5	30.9	35.1	111	10.1	61.0	20.4	3009	7.4
PulseUSA	Abarth	29.3	46.2	--	37.7	--	107	10.3	61.7	20.8	2827	5.0
MonTech	4193	28.4	34.7	--	31.6	--	104	10.6	60.8	20.8	3009	4.5
Photosyntech	PSTSP27	27.7	--	--	--	--	101	10.1	62.1	20.8	2702	6.0
CDC/Meridian_Seeds	CDC_Saffron	27.4	36.1	--	31.8	--	100	10.7	61.8	19.2	2854	3.3
Photosyntech	PSTSP26	26.0	--	--	--	--	95	10.5	62.0	20.4	2776	7.0
CDC/Meridian_Seeds	CDC_Amarillo	25.7	34.0	--	29.9	--	94	10.3	62.0	22.8	3015	2.7
PulseUSA	DS_Admiral	25.6	34.4	44.9	30.0	35.0	94	10.4	61.3	21.4	2761	4.0
PulseUSA	Nette_2010	25.5	39.5	47.5	32.5	37.5	93	10.5	61.9	21.8	2882	5.0
Great_Northern_Ag	Bridger	23.9	--	--	--	--	88	10.0	60.8	20.6	2920	5.0
PulseUSA	SW_Midas	22.8	38.5	49.1	30.7	36.8	84	10.2	60.2	19.0	3229	6.2
Great_Northern_Ag	Navarro	21.8	--	--	--	--	80	10.3	60.8	18.8	2651	8.2
Great_Northern_Ag	Spider	21.4	--	--	--	--	78	10.4	60.3	19.4	2870	5.8
	Average	27.3	34.0	47.5	30.6	36.3		10.4	61.2	21.1	2902	5.1
	LSD(0.05)	5.6	9.8	5.5	7.7	6.9		.	1.0	2.2	253	1.4

Thomas County Dryland Field Pea Performance Test, 2016

County:	Thomas County Dryland		
Location:	K-State NWREC, Colby		
Soil Type:	Keith Silt Loam, 0-1% Slope	Previous Crop:	Corn
Seeding Rate:	350,000 PLS seed/a	Herbicide	
		Pre-Emerge:	4 oz. Spartan Charge + 32 oz. Glyphosate
		Post-Emerge:	None
Dates:			
Planting:	3/30/2016		
Harvest:	7/7/2016		



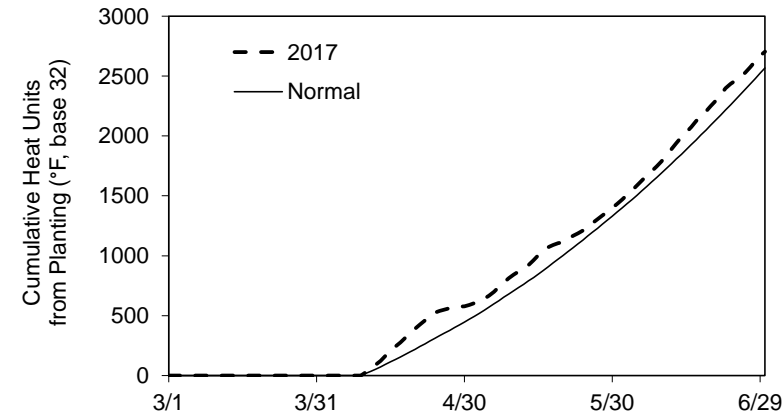
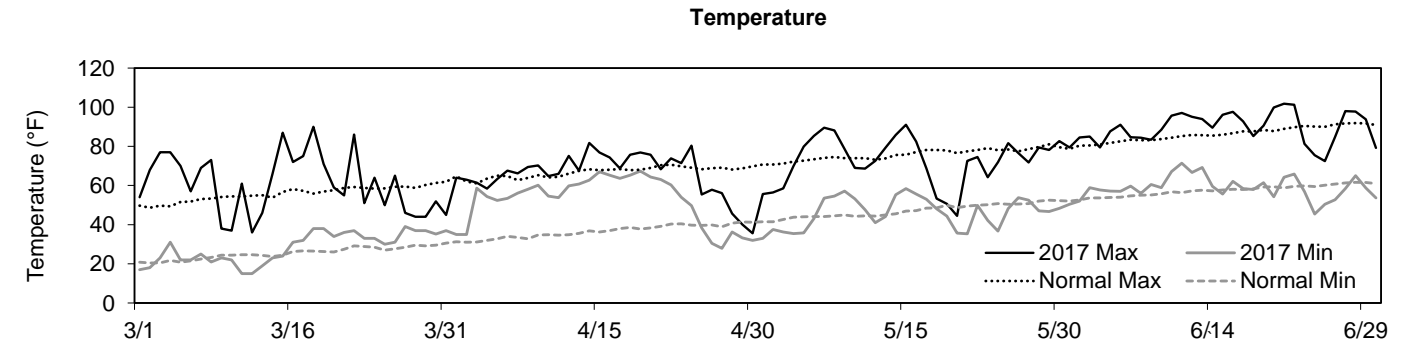
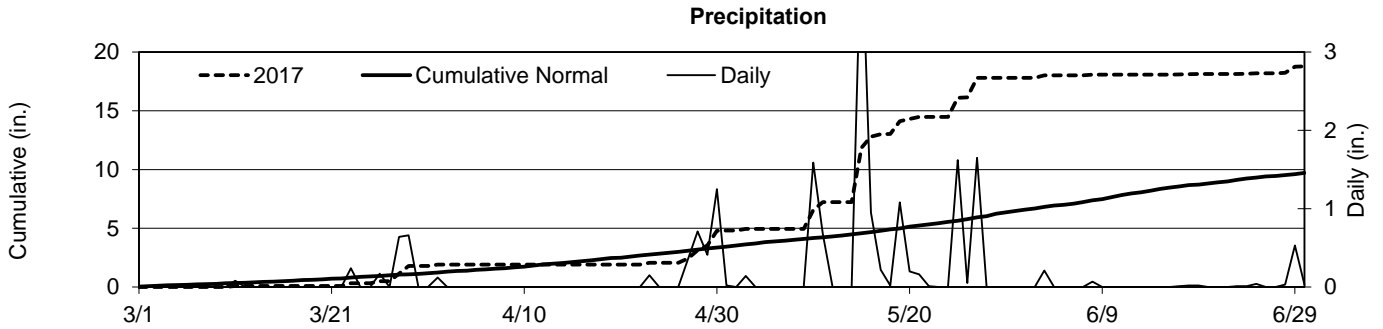
Month	Avg temp		Precipitation		Heat units	
	2016	Normal	2016	Normal	2016	Normal
March	45.2	39.5	0.26	1.05	26	23
April	50.9	50.1	5.64	1.89	568	543
May	58.5	60.0	1.51	2.81	823	868
June	75.7	70.6	1.70	3.01	1310	1158
Total			9.11	8.76	2726	2593

Thomas County Dryland Field Pea Performance Test, 2016

Company	Variety	Grain Yield, bu/a					2016						
		2016	2015	2014	2yr	3yr	Yield % of	Moisture	Test Weight	Plant Height	Bloom Date	Seeds / lb	Stand
					Avg	Avg	Test Avg	%	lb / bu	inches	DOY		plants / acre
Meridian_Seeds	Jetset	35.0	--	--	--	--	119	11.1	61.9	27.8	156.0	3052	284592
Photosyntech	PSTSP27	34.1	--	--	--	--	115	11.3	62.7	27.0	155.2	2822	311309
PulseUSA	Nette_2010	32.3	28.0	28.7	30.1	29.6	109	11.9	64.0	27.3	155.0	3068	272976
PulseUSA	DS_Admiral	31.4	30.5	28.8	31.0	30.3	106	11.2	61.7	27.3	156.8	2949	281688
Legume_Logic	Majestic	31.3	--	--	--	--	106	11.4	62.3	30.3	157.7	3166	363968
Photosyntech	PSTSP26	31.2	--	--	--	--	106	11.5	61.5	27.3	155.7	2983	278784
Great_Northern_Ag	Navarro	31.1	--	--	--	--	105	11.2	61.5	26.3	151.7	2799	294272
CDC/Meridian_Seeds	CDC_Saffron	30.4	26.4	--	28.4	--	103	11.4	61.7	24.5	157.8	3325	310728
Legume_Logic	Hyline	29.6	--	--	--	--	100	11.2	61.8	27.3	157.0	3196	319440
Great_Northern_Ag	Bridger	29.4	--	--	--	--	99	11.3	62.0	25.3	156.0	3088	251680
PulseUSA	Abarth	29.3	33.3	--	31.3	--	99	11.2	61.7	28.5	156.5	3001	310728
Legume_Logic	Marquee	29.2	--	--	--	--	99	10.8	60.9	28.6	156.4	3617	302016
MonTech	4193	29.0	30.6	--	29.8	--	98	10.9	61.4	26.0	157.3	3117	290400
Great_Northern_Ag	Salamanca	28.7	--	--	--	--	97	10.9	60.9	31.0	156.5	3207	287496
Meridian_Seeds	Earlstar	28.6	32.0	24.6	30.3	28.4	97	11.2	62.2	28.3	156.7	3328	332992
Meridian_Seeds	AAC_Carver	28.2	28.6	--	28.4	--	96	11.8	61.8	28.8	158.0	3346	284592
PulseUSA	Durwood	28.1	--	--	--	--	95	11.0	61.1	32.3	157.0	3210	296208
CDC/Meridian_Seeds	CDC_Amarillo	27.9	24.6	--	26.3	--	95	11.6	62.6	28.8	159.0	3222	310728
Legume_Logic	Gunner	26.9	--	--	--	--	91	11.4	61.8	26.7	156.7	3230	263296
PulseUSA	SW_Midas	26.1	28.0	24.3	27.1	26.2	88	11.4	61.0	22.6	157.4	3893	264845
Great_Northern_Ag	Spider	23.2	--	--	--	--	78	12.4	61.9	25.0	158.3	3107	191664
	Average	29.5	24.7	25.9	27.1	26.7		11.3	61.8	27.4	156.6	3194	290255
	LSD(0.05)	3.0	6.0	3.0	4.5	4.0		0.7	0.9	1.7	0.8	106	57808

Decatur County Dryland Field Pea Performance Test, 2017

County:	Decatur County Dryland		
Location:	2 mi W, 2 mi N of Lyle		
Soil Type:	Holdrege Silt Loam, 1-3% Slope	Previous Crop:	Corn
Seeding Rate:	365,000 PLS seed/a	Herbicide	
		Pre-Emerge :	5 oz. Spartan Charge
		Post-Emerge:	None
Dates			
Planting:	4/11/2017		
Harvest:	Hailed 6/29; Wind Damage 7/2; Abandoned		



Month	Avg temp		Precipitation		Heat units	
	2017	Normal	2017	Normal	2017	Normal
March	44.6	40.7	1.79	1.17	-	-
April	59.1	51.7	3.00	2.19	577	446
May	59.6	61.6	13.01	3.10	855	918
June	74.4	72.1	0.98	3.25	1271	1203
Total			18.78	9.71	2704	2567

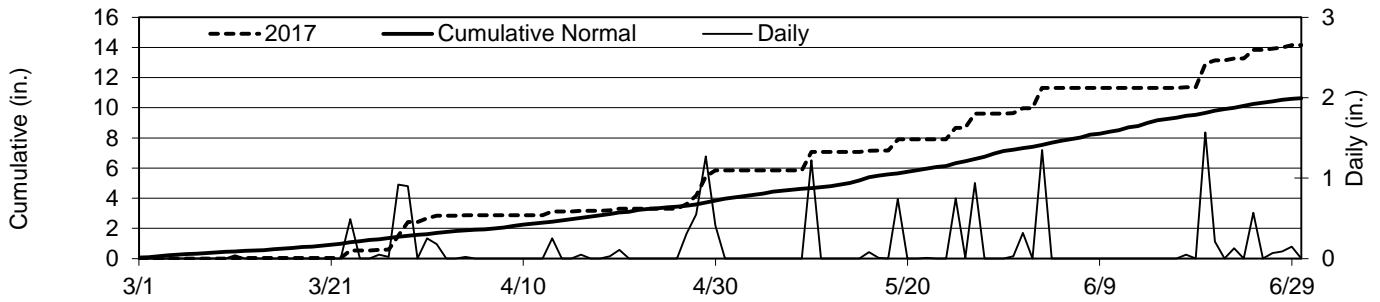
Decatur County Dryland Field Pea Performance Test, 2017

Company	Variety	Grain Yield, bu/a					2017					
		2017	2016	2015	2yr	3yr	Yield	Moistur	Test	Plant	Seeds /	Lodging
					Avg	Avg	% of	e	Weight	Height	lb	
						Test Avg	%	lb / bu	inches			
PulseUSA	Durwood	-	25.9	--	25.9	--	-	-	-	22.8	--	--
CDC/Meridian_Seeds	CDC_Amarillo	-	26.3	41.2	26.3	--	-	-	-	22.2	--	--
Photosyntech	PSTSP28	-	--	--	--	--	-	-	-	22.0	--	--
Meridian_Seeds	Earlystar	-	23.0	--	23.0	--	-	-	-	21.8	--	--
Great_Northern_Ag	Salamanca	-	24.8	--	24.8	--	-	-	-	21.2	--	--
Meridian_Seeds	AAC_Carver	-	31.7	--	31.7	--	-	-	-	21.0	--	--
CDC/Meridian_Seeds	CDC_Greenwater	-	--	--	--	--	-	-	-	21.0	--	--
PulseUSA	Nette_2010	-	--	--	--	--	-	-	-	20.8	--	--
CDC/Meridian_Seeds	CDC_Inca	-	--	--	--	--	-	-	-	20.8	--	--
Meridian_Seeds	Jetset	-	25.3	--	25.3	--	-	-	-	20.4	--	--
PulseUSA	DS_Admiral	-	23.3	--	23.3	--	-	-	-	20.2	--	--
Photosyntech	PSTSP29	-	--	--	--	--	-	-	-	20.0	--	--
Great_Northern_Ag	Spider	-	18.5	--	18.5	--	-	-	-	19.6	--	--
Great_Northern_Ag	Bridger	-	22.0	--	22.0	--	-	-	-	19.6	--	--
PulseUSA	SW_Midas	-	22.3	--	22.3	--	-	-	-	18.6	--	--
Photosyntech	PSTSP27	-	27.1	--	27.1	--	-	-	-	18.6	--	--
CDC/Meridian_Seeds	CDC_Saffron	-	24.3	48.0	24.3	--	-	-	-	18.2	--	--
	Average		24.1	40.6	24.1	--		--	--	20.5	--	--
	LSD(0.05)		3.7	8.5	--	--		--	--	2.0	--	--

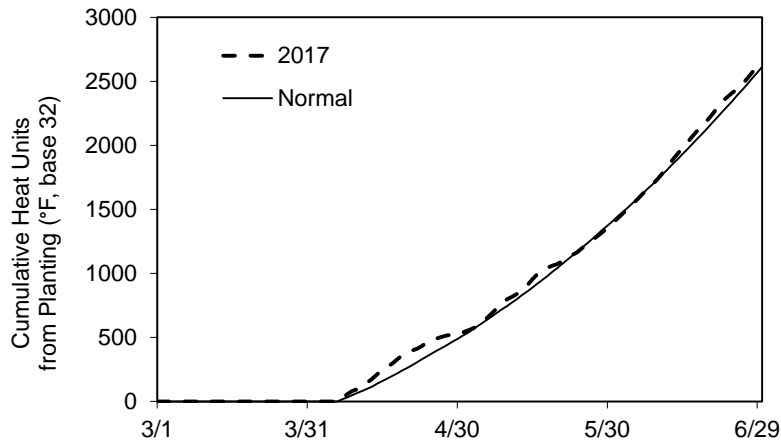
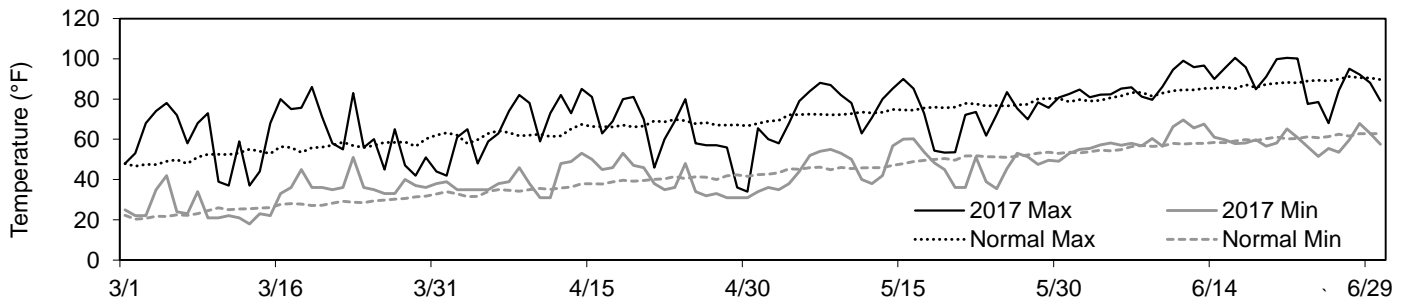
Gove County Dryland Field Pea Performance Test, 2017

County:	Gove County Dryland		
Location:	5.2 mi SE of Grainfield		
Soil Type:	Kuma Silt Loam, 0-1% Slope	Previous Crop:	Grain Sorghum
Seeding Rate:	365,000 PLS seed/a	Herbicide	
		Pre-Emerge:	4 oz. Spartan
		Post-Emerge:	None
Dates			
Planting:	4/8/2017		
Harvest:	7/11/2017		

Precipitation



Temperature



Month	Avg temp		Precipitation		Heat units	
	2017	Normal	2017	Normal	2017	Normal
March	45.8	40.3	2.67	1.62	-	-
April	52.2	51.4	3.18	2.22	519	488
May	60.1	61.6	3.79	3.39	871	918
June	74.0	72.2	4.51	3.42	1260	1206
Total			14.15	10.64	2650	2612

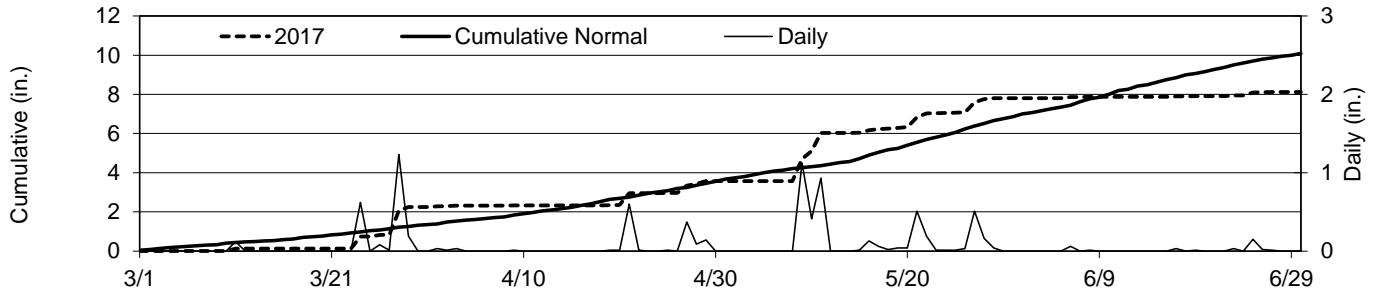
Gove County Dryland Field Pea Performance Test, 2017

Company	Variety	Grain Yield, bu/a					2017				
		2017	2016	2015	2yr	3yr	Yield % of	Moisture	Test Weight	Plant Height	Seeds / lb
					Avg	Avg	Test Avg	%	lb / bu	inches	
CDC/Meridian_Seeds	CDC_Inca	30.7	--	--	--	--	143	12.0	65.7	23.0	3034
Great_Northern_Ag	Spider	29.2	16.0	--	22.6	--	136	11.8	64.4	22.2	2833
CDC/Meridian_Seeds	CDC_Greenwater	28.9	--	--	--	--	135	12.0	64.5	21.4	2751
CDC/Meridian_Seeds	CDC_Amarillo	25.9	--	--	--	--	121	12.4	64.8	23.2	2799
PulseUSA	SW_Midas	25.3	27.9	--	26.6	--	118	11.6	64.6	19.4	3207
Meridian_Seeds	AAC_Carver	25.1	--	--	--	--	117	11.8	64.8	24.0	2929
PulseUSA	Durwood	23.1	20.6	--	21.9	--	108	11.0	64.9	25.8	3205
CDC/Meridian_Seeds	CDC_Saffron	20.9	--	--	--	--	97	12.0	64.6	20.0	3015
Photosyntech	PSTSP28	20.5	--	--	--	--	95	10.9	63.9	23.4	3328
PulseUSA	DS_Admiral	20.4	18.0	--	19.2	--	95	12.0	64.3	21.0	2993
PulseUSA	Nette_2010	20.0	--	--	--	--	93	11.1	65.1	21.4	3420
Great_Northern_Ag	Salamanca	19.4	20.9	--	20.2	--	90	11.1	63.4	24.4	3127
Photosyntech	PSTSP27	18.4	18.3	--	18.4	--	86	11.3	63.9	21.8	2957
Photosyntech	PSTSP29	17.9	--	--	--	--	83	11.4	63.9	21.6	3045
Meridian_Seeds	Earlstar	17.8	--	--	--	--	83	11.7	63.8	22.8	3134
Meridian_Seeds	Jetset	17.5	--	--	--	--	82	11.5	63.8	20.0	3181
Great_Northern_Ag	Bridger	16.9	20.6	--	18.7	--	78	11.6	63.4	21.4	3262
	Average	21.5	19.8	--	20.6	--		11.7	64.4	21.9	3086
	LSD(0.05)	4.4	3.7	--	--	--		0.8	1.0	2.4	127

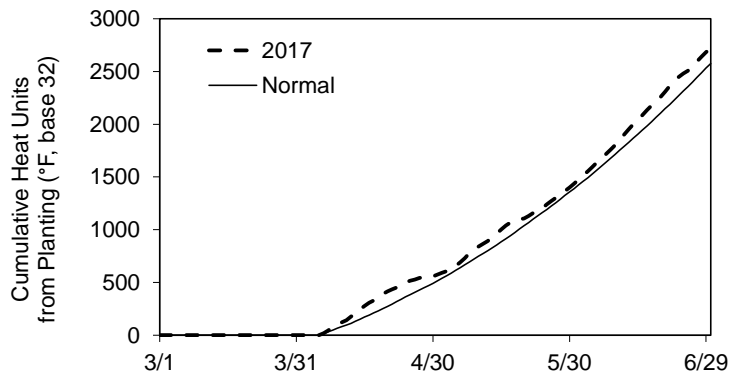
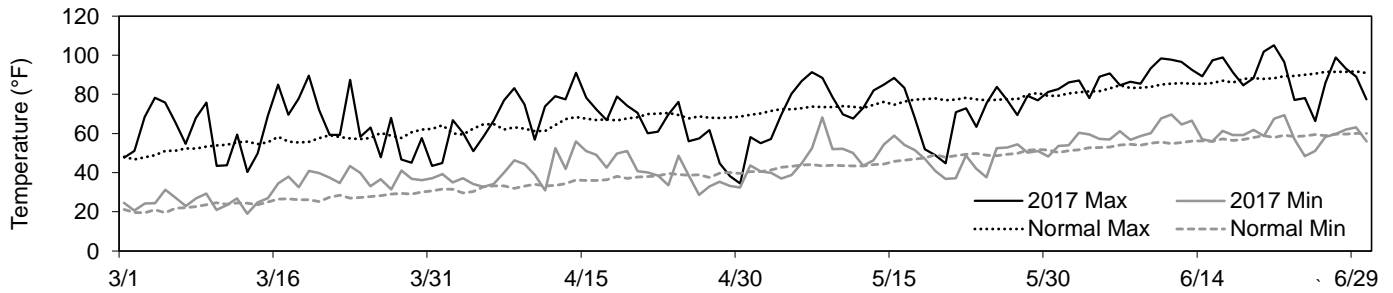
Rawlins County Dryland Field Pea Performance Test, 2017

County:	Rawlins County Dryland		
Location:	6 mi. N of Atwood		
Soil Type:	Kuma Silt Loam, 0-1% Slope	Previous Crop:	Grain Sorghum
Seeding Rate:	365,000 PLS seed/a	Herbicide	
		Pre-Emerge:	4.5oz Spartan 4F + 32 oz. Glyphosate
		Post-Emerge:	None
Dates			
Planting:	4/7/2017		
Harvest:	7/10/2017		

Precipitation



Temperature



Month	Avg temp		Precipitation		Heat units	
	2017	Normal	2017	Normal	2017	Normal
March	46.6	40.3	2.25	1.34	-	-
April	52.9	50.8	1.32	2.21	556	492
May	60.4	61.0	4.23	3.31	880	898
June	74.8	71.5	0.32	3.23	1283	1185
Total			8.12	10.10	2718	2575

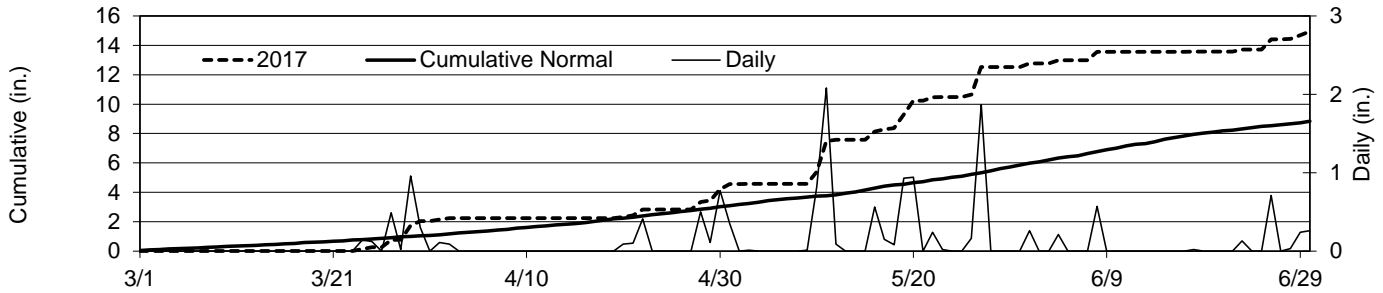
Rawlins County Dryland Field Pea Performance Test, 2017

Company	Variety	Grain Yield, bu/a					2017				
		2017	2016	2015	2yr	3yr	Yield % of	Moisture	Test Weight	Plant Height	Seeds / lb
					Avg	Avg	Test Avg	%	lb / bu	inches	
Meridian_Seeds	AAC_Carver	32.6	31.8	34.9	32.2	33.1	125	11.5	63.7	27.2	2996
Meridian_Seeds	Earlstar	31.8	30.4	31.5	31.1	31.2	122	11.3	63.5	26.8	3180
PulseUSA	Nette_2010	30.3	--	--	--	--	116	11.9	64.3	25.4	3065
CDC/Meridian_Seeds	CDC_Greenwater	30.2	--	--	--	--	116	12.7	63.9	25.0	2850
Great_Northern_Ag	Bridger	29.5	23.9	--	26.7	--	113	11.7	63.4	26.2	3105
Photosyntech	PSTSP28	28.3	--	--	--	--	109	11.6	63.1	25.8	3106
CDC/Meridian_Seeds	CDC_Inca	28.3	--	--	--	--	109	12.6	63.9	26.6	3042
PulseUSA	DS_Admiral	26.7	25.6	34.4	26.1	28.9	102	11.2	63.5	26.2	2907
PulseUSA	Durwood	26.2	30.6	--	28.4	--	101	12.5	63.0	30.6	3072
Meridian_Seeds	Jetset	26.1	32.1	--	29.1	--	100	11.5	63.4	25.6	3001
CDC/Meridian_Seeds	CDC_Amarillo	26.0	25.7	34.0	25.9	28.6	100	14.2	62.8	26.0	2912
Great_Northern_Ag	Spider	25.6	21.4	--	23.5	--	98	11.7	63.8	25.2	3007
Great_Northern_Ag	Salamanca	25.2	34.0	--	29.6	--	97	11.9	63.1	26.2	2902
PulseUSA	SW_Midas	23.9	22.8	38.5	23.3	28.4	92	11.5	63.4	22.6	3364
Photosyntech	PSTSP27	23.5	27.7	--	25.6	--	90	11.2	64.3	24.8	2993
Photosyntech	PSTSP29	23.1	--	--	--	--	89	12.4	63.4	27.2	2883
CDC/Meridian_Seeds	CDC_Saffron	21.5	27.4	36.1	24.5	28.3	83	12.3	63.9	23.0	3166
	Average	26.0	27.3	34.0	26.7	29.1		12.0	63.6	25.6	3073
	LSD(0.05)	6.0	5.6	9.8	-	-		0.7	0.9	2.2	215

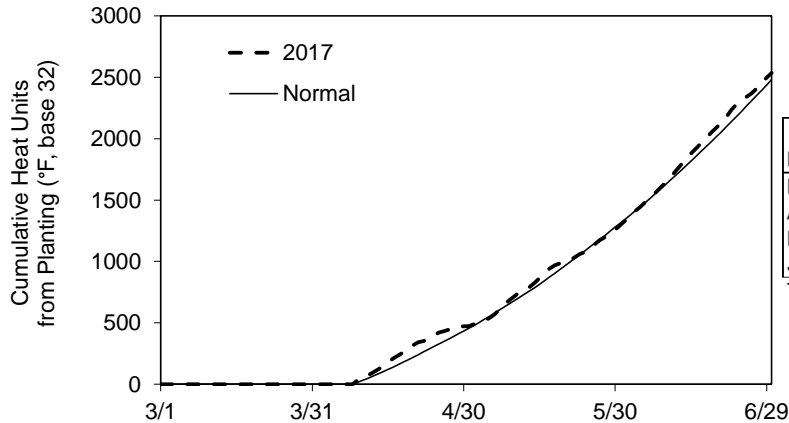
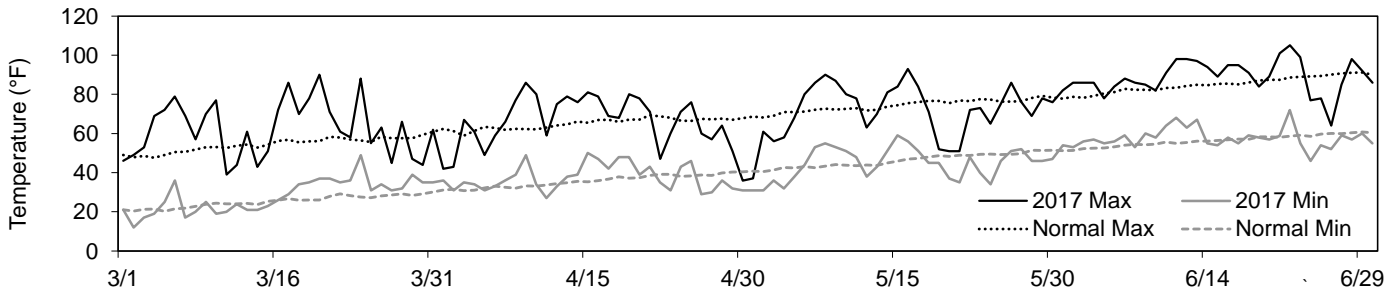
Thomas County Dryland Field Pea Performance Test, 2017

County:	Thomas County Dryland		
Location:	K-State NWREC, Colby		
Soil Type:	Keith Silt Loam, 0-1% Slope	Previous Crop:	Grain Sorghum
Seeding Rate:	365,000 PLS seed/a	Herbicide	
		Pre-Emerge:	4 oz. Spartan Charge + 32 oz. Glyphosate
		Post-Emerge:	None
Dates			
Planting:	4/10/2017		
Harvest:	7/12/2017		

Precipitation



Temperature



Month	Avg temp		Precipitation		Heat units	
	2017	Normal	2017	Normal	2017	Normal
March	45.3	39.9	2.03	1.06	-	-
April	51.5	50.4	2.18	1.96	473	434
May	58.5	60.3	8.31	2.83	823	879
June	73.3	71.0	2.43	2.99	1240	1169
Total			14.95	8.84	2535	2481

Thomas County Dryland Field Pea Performance Test, 2017

Company	Variety	Grain Yield, bu/a					2017					
		2017	2016	2015	2yr	3yr	Yield % of	Moisture	Test Weight	Plant Height	Bloom Date	Seeds / lb
					Avg	Avg	Test Avg	%	lb / bu	inches	DOY	
Legume_Logic	MP1907	42.1	--	--	--	--	134	13.2	63.7	25.0	162.0	2420
Great_Northern_Ag	Spider	39.0	23.2	--	31.1	--	124	12.2	64.6	23.4	159.4	2529
CDC/Meridian_Seeds	CDC_Inca	38.9	--	--	--	--	123	13.8	63.6	24.4	161.2	2691
Great_Northern_Ag	Salamanca	37.5	28.7	--	33.1	--	119	12.5	64.2	24.2	160.0	2495
PulseUSA	DS_Admiral	35.4	31.4	30.5	33.4	32.4	112	11.8	63.8	23.2	159.0	2693
Meridian_Seeds	AAC_Carver	35.3	28.2	28.6	31.8	30.7	112	13.9	62.5	24.8	160.2	2547
Photosyntech	PSTSP28	35.1	--	--	--	--	111	12.2	62.6	25.2	159.4	2729
PulseUSA	Durwood	34.8	28.1	--	31.4	--	110	13.3	63.6	27.0	159.8	2540
Meridian_Seeds	Earlstar	34.8	28.6	32.0	31.7	31.8	110	12.3	63.4	24.4	158.4	2742
PulseUSA	Nette_2010	34.2	--	--	--	--	108	11.9	65.2	22.6	157.0	2800
CDC/Meridian_Seeds	CDC_Greenwater	33.5	--	--	--	--	106	13.7	63.2	23.2	162.0	2421
CDC/Meridian_Seeds	CDC_Amarillo	32.4	27.9	24.6	30.2	28.3	103	14.4	63.0	23.6	161.8	2472
Great_Northern_Ag	Bridger	31.5	29.4	--	30.5	--	100	12.4	64.4	23.6	158.0	2579
Meridian_Seeds	Jetset	30.3	35.0	--	32.7	--	96	12.6	63.9	23.0	158.0	2517
Photosyntech	PSTSP27	30.3	34.1	--	32.2	--	96	12.1	64.0	22.8	157.8	2490
Photosyntech	PSTSP29	30.2	--	--	--	--	96	13.5	62.3	23.4	160.4	2436
PulseUSA	SW_Midas	28.0	26.1	28.0	27.1	27.4	89	11.5	64.0	20.8	159.6	3091
Legume_Logic	Hyline	27.3	29.6	--	28.4	--	87	12.3	63.8	22.7	160.0	2510
CDC/Meridian_Seeds	CDC_Saffron	22.3	30.4	26.4	26.3	26.4	71	12.7	64.1	22.4	160.2	2609
	Average	31.5	29.5	24.7	30.5	28.6		12.9	63.7	23.2	159.7	2628
	LSD(0.05)	5.1	3.0	6.0	--	--		0.8	1.4	2.2	0.7	125

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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SRP 1142 January 2018