

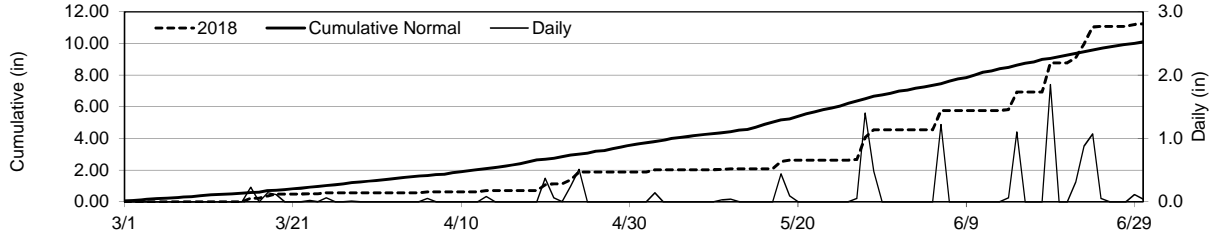
Table 1. Across-years yield averages for field pea varieties at four locations in northwest Kansas.

Company	Variety	Location			
		Rawlins		Thomas	
		4 Year Avg. 2014-17	5 Year Avg. 2014-2018	4 Year Avg. 2014-17	5 Year Avg. 2104-2018
PulseUSA	SW Midas (Y)	31.9	35.3	26.4	26.0
PulseUSA	DS Admiral (Y)	31.3	34.0	30.2	29.9
PulseUSA	Nette 2010 (Y)	32.7	35.7	29.6	29.4
Meridian Seeds	Earllystar (Y)	32.5	34.7	28.1	27.4
Meridian Seeds	AAC Carver (Y)	35.2	-	28.9	-
CDC / Meridian_Seeds	CDC Saffron (Y)	32.3	-	26.1	-
CDC / Meridian_Seeds	CDC Amarillo (Y)	31.4	-	27.1	-

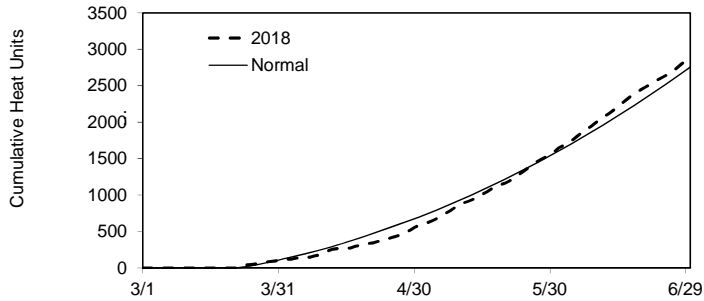
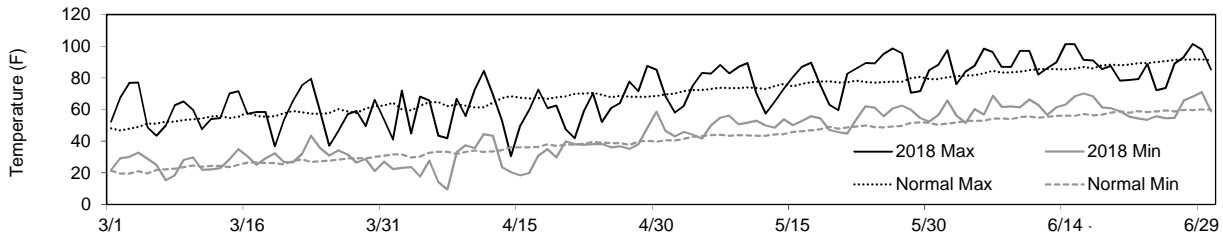
Rawlins County Dryland Field Pea Performance Test, 2018

County:	Rawlins County Dryland		
Location:	4 mi. N of Atwood		
Soil Type:	Keith Silt Loam, 0-1% Slope		
Seeding Rate:	365,000 PLS seed/a	Previous Crop:	Corn
Dates:		Pre-Emerge Herbicide:	4.5oz Spartan 4F + 32 oz Glyphosate
Planting:	3/24/2018	Post-Emerge Herbicide:	None
Harvest:	7/10/2018		

Precipitation



Temperature



Month	Avg Temp		Precipitation		Heat Units	
	2018	Normal	2018	Normal	2018	Normal
March	43.3	40.3	0.57	1.34	105	109
April	46.5	50.8	1.31	2.21	451	565
May	65.7	61.0	2.67	3.31	1043	898
June	74.9	71.5	6.69	3.23	1288	1185
Total			11.24	10.10	2887	2757

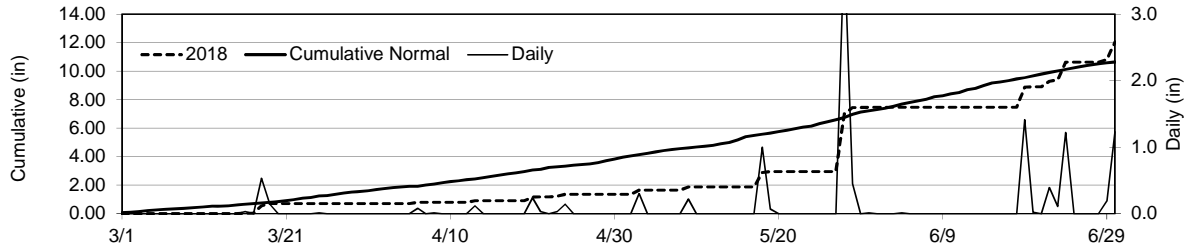
Rawlins County Dryland Field Pea Performance Test, 2018

Company	Variety	Grain Yield, bu/a					2018						
		2018	2017	2016	2yr	3yr	Yield % of	Moisture	Test Weight	Plant Height	Bloom Date	Seeds / lb	Stand
					Avg	Avg	Test Avg	%	lb / bu	inches	DOY		plants / acre
AAC/Meridian_Seeds	AAC_Comfort_(G)	46.5	--	--	--	--	120	23.3	57.6	--	160.0	1913	361548
CDC/Meridian_Seeds	CDC_Saffron_(Y)	44.3	21.5	27.4	32.9	31.1	114	15.3	59.1	--	154.8	2279	316899
CDC/Meridian_Seeds	CDC_Inca_(Y)	44.0	28.3	--	36.1	--	113	18.4	58.0	--	156.0	2284	285318
PulseUSA	SW_Midas_(Y)	42.2	23.9	22.8	33.0	29.6	109	15.5	56.1	--	155.4	2626	312543
Meridian_Seeds	AAC_Carver_(Y)	41.5	32.6	31.8	37.0	35.3	107	13.4	57.8	--	153.4	2336	339768
MonTech	4193_(Y)	41.3	--	28.4	--	--	107	12.3	58.2	--	154.2	2284	308187
CDC/Meridian_Seeds	CDC_Amarillo_(Y)	39.9	26.0	25.7	33.0	30.5	103	17.9	59.0	--	155.8	2341	300564
Photosyntech	PSTSP28_(G)	39.1	28.3	--	33.7	--	101	12.0	56.5	--	154.2	2446	348480
Photosyntech	PSTSP34_(Y)	38.9	--	--	--	--	100	12.4	59.3	--	154.2	2585	352836
CDC/Meridian_Seeds	CDC_Greenwater_(G)	38.8	30.2	--	34.5	--	100	21.9	56.4	--	156.2	2170	308187
PulseUSA	DS_Admiral_(Y)	38.4	26.7	25.6	32.5	30.2	99	12.9	59.3	--	153.8	2208	328878
PulseUSA	LG_Sunrise_(Y)	38.3	--	--	--	--	99	16.0	59.5	--	155.4	2319	279873
Photosyntech	PSTSP27_(Y)	38.2	23.5	27.7	30.9	29.8	99	11.1	57.0	--	153.3	2132	295664
Photosyntech	PSTSP35_(Y)	37.9	--	--	--	--	98	15.1	56.9	--	155.6	2320	339768
Photosyntech	PSTSP29_(G)	37.9	23.1	--	30.5	--	98	14.8	58.6	--	154.0	2142	369171
Meridian_Seeds	Jetset_(Y)	36.3	26.1	32.1	31.2	31.5	94	12.2	56.6	--	153.0	2491	361548
Meridian_Seeds	Earlstar_(Y)	36.2	31.8	30.4	34.0	32.8	93	14.5	58.6	--	154.4	2512	274428
PulseUSA	Nette_2010_(Y)	35.4	30.3	25.5	32.9	30.4	91	13.3	60.1	--	154.2	2264	335412
PulseUSA	LG_Amigo_(Y)	33.5	--	--	--	--	87	14.1	59.1	--	153.0	2381	247203
PulseUSA	Durwood_(Y)	31.4	26	31	29	29	81	15.1	59.8	--	154.4	2333	286407
	Average	38.8	26.0	27.3	32.4	30.7	100	15.0	58.3	--	154.7	2327	313781
	LSD(0.05)	4.8	6.0	5.6	5.4	5.5		2.9	2.9	--	1.1	87	66472

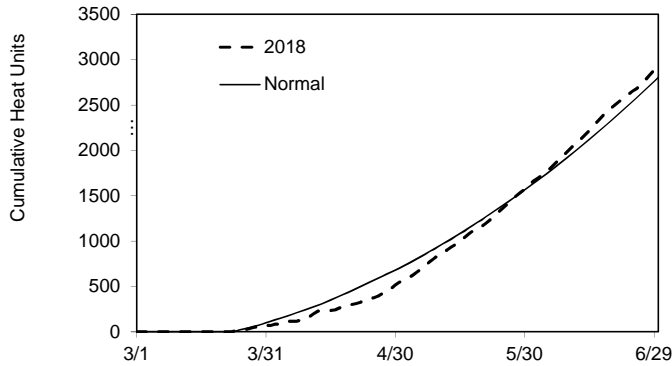
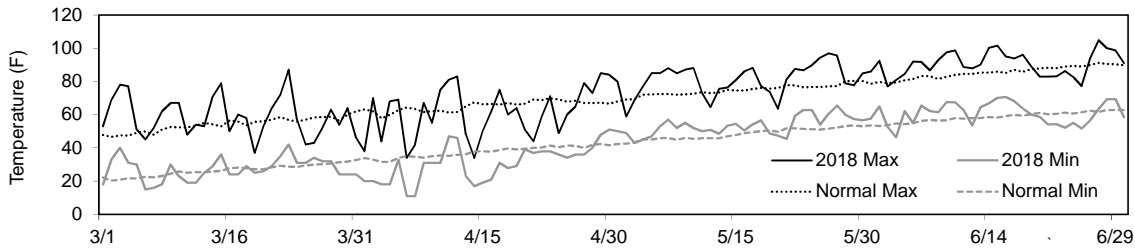
Gove County Dryland Field Pea Performance Test, 2018

County:	Gove County Dryland	Previous Crop:	Grain Sorghum
Location:	4 mi. SE of Grainfield	Pre-Emerge Herbicide:	
Soil Type:	Kuma Silt Loam, 0-1% Slope	Post-Emerge Herbicide:	
Seeding Rate:	365,000 PLS seed/a		
Dates:			
Planting:	3/25/2018		
Harvest:	7/11/2018		

Precipitation



Temperature



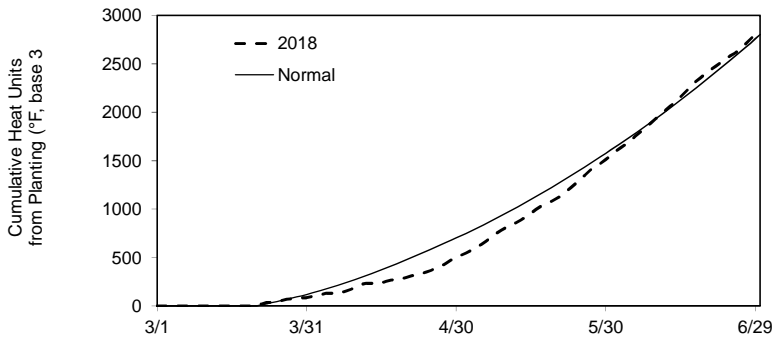
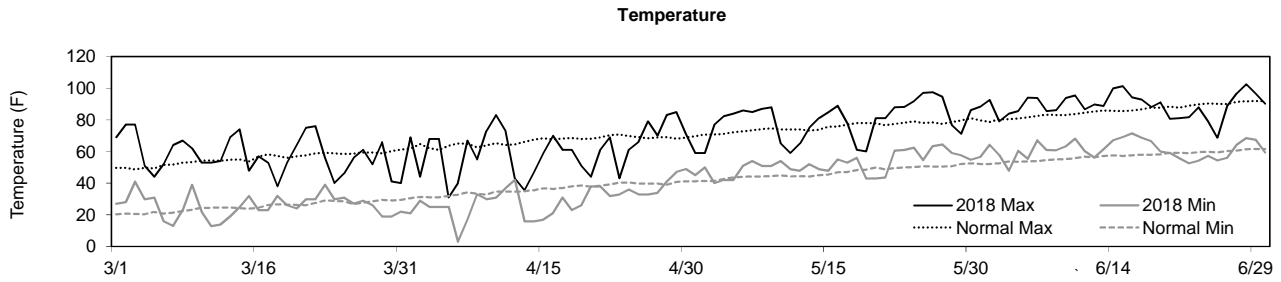
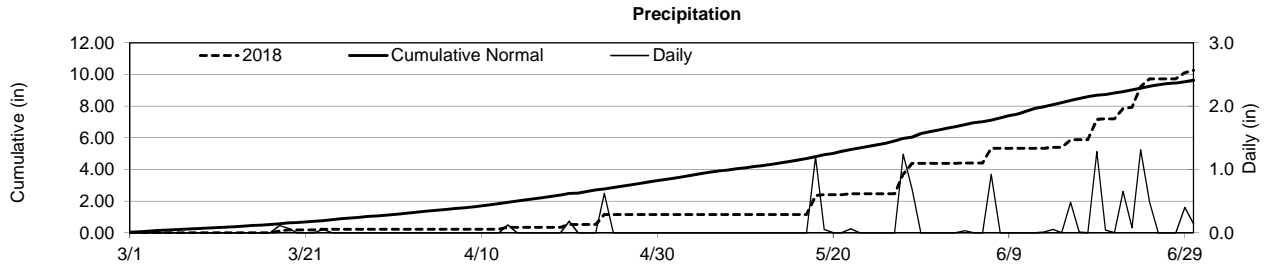
Month	Avg Temp		Precipitation		Heat Units	
	2018	Normal	2018	Normal	2018	Normal
March	43.2	40.3	0.71	1.62	71	100
April	46.0	51.4	0.65	2.22	444	581
May	67.4	61.6	6.10	3.39	1098	918
June	75.8	72.2	4.58	3.42	1315	1206
Total			12.04	10.64	2927	2805

Gove County Dryland Field Pea Performance Test, 2018

Company	Variety	Grain Yield, bu/a					2018			
		2018	2017	2016	2yr	3yr	Yield % of	Moisture	Test Weight	Seeds / lb
					Avg	Avg	Test Avg	%	lb / bu	
PulseUSA	SW_Midas_(Y)	24.5	25.3	27.9	24.9	25.9	113	16.1	54.6	2860
PulseUSA	DS_Admiral_(Y)	24.3	20.4	18.0	22.3	20.9	112	17.5	54.7	2541
Photosyntech	PSTSP35_(Y)	23.7	--	--	--	--	110	15.7	54.4	2701
Photosyntech	PSTSP34_(Y)	22.4	--	--	--	--	103	15.0	55.7	3039
PulseUSA	LG_Amigo_(Y)	22.1	--	--	--	--	102	17.2	55.4	2644
PulseUSA	LG_Sunrise_(Y)	21.7	--	--	--	--	100	15.8	56.2	2733
Photosyntech	PSTSP28_(G)	21.4	20.5	--	21.0	--	99	15.0	54.8	2828
PulseUSA	Nette_2010_(Y)	20.6	20.0	22.4	20.3	21.0	95	16.0	55.9	2803
MonTech	4193_(Y)	20.5	--	20.4	--	--	94	15.6	54.4	2558
Photosyntech	PSTSP29_(G)	20.3	17.9	--	19.1	--	94	16.0	54.9	2572
PulseUSA	Durwood_(Y)	19.9	23.1	20.6	21.5	21.2	92	15.2	55.5	2624
Photosyntech	PSTSP27_(Y)	19.0	18.4	18.3	18.7	18.6	88	15.2	54.3	2383
	Average	21.7	21.5	19.8	21.6	21.0	100	15.9	55.2	2724
	LSD(0.05)	2.9	4.4	3.7	3.6	3.7		1.8	1.8	118

Decatur County Dryland Field Pea Performance Test, 2018

County:	Decatur County Dryland		
Location:	3 mi. W, 2 mi. S of Lyle		
Soil Type:	Holdrege Silt Loam, 1-3% Slope		
Seeding Rate:	365,000 PLS seed/a	Previous Crop:	Corn
Dates:		Pre-Emerge Herbicide:	5 oz Spartan Charge + 32 oz Glyphosate
Planting:	3/23/2018	Post-Emerge Herbicide:	None
Harvest:	7/10/2018		



Month	Avg Temp		Precipitation		Heat Units	
	2018	Normal	2018	Normal	2018	Normal
March	41.8	40.3	0.23	1.14	86	119
April	45.2	51.4	0.92	2.15	418	582
May	65.8	61.3	3.23	3.09	1048	908
June	75.2	71.7	5.88	3.25	1296	1192
Total			10.26	9.63	2848	2802

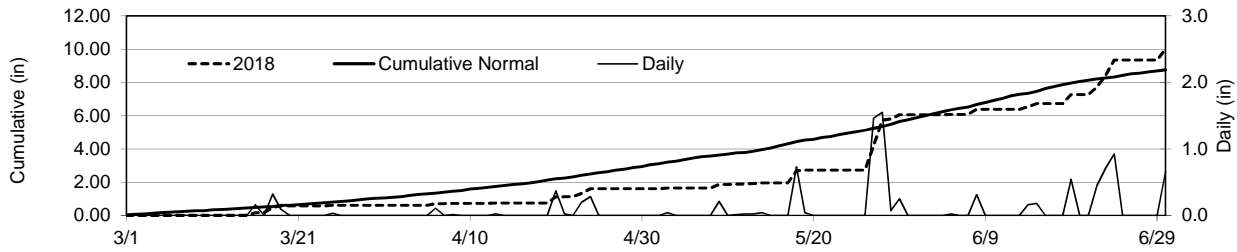
Decatur County Dryland Field Pea Performance Test, 2018

Company	Variety	Grain Yield, bu/a					2018							
		2018	2016	2015	2yr	3yr	Yield % of	Moisture	Test Weight	Plant Height	Bloom Date	Seeds / lb	Grain Protein	Stand
					Avg	Avg	Test Avg	%	lb / bu	inches	DOY		%	plants / acre
AAC/Meridian_Seeds	AAC_Comfort_(G)	34.9	--	--	--	--	126	12.9	59.2	--	--	2056	--	--
MonTech	4193_(Y)	30.0	22.8	50.8	26.4	34.6	109	9.3	56.1	--	--	2728	--	--
Meridian_Seeds	Jetset_(Y)	29.5	25.3	--	27.4	--	107	10.4	58.0	--	--	2827	--	--
Meridian_Seeds	AAC_Carver_(Y)	29.4	31.7	--	30.6	--	107	10.3	57.6	--	--	2733	--	--
PulseUSA	DS_Admiral_(Y)	28.9	23.3	--	26.1	--	105	10.2	57.2	--	--	2600	--	--
Photosyntech	PSTSP29_(G)	28.8	--	--	--	--	104	11.5	58.2	--	--	2287	--	--
Photosyntech	PSTSP35_(Y)	28.5	--	--	--	--	103	12.3	59.2	--	--	2399	--	--
CDC/Meridian_Seeds	CDC_Saffron_(Y)	28.3	24.3	48.0	26.3	33.5	103	10.9	58.1	--	--	2666	--	--
PulseUSA	Nette_2010_(Y)	27.5	25.0	--	26.3	--	100	11.2	58.5	--	--	2650	--	--
PulseUSA	LG_Sunrise_(Y)	27.4	--	--	--	--	99	10.9	57.9	--	--	2669	--	--
CDC/Meridian_Seeds	CDC_Greenwater_(G)	27.0	--	--	--	--	98	12.7	58.3	--	--	2380	--	--
CDC/Meridian_Seeds	CDC_Inca_(Y)	27.0	--	--	--	--	98	11.4	56.7	--	--	2599	--	--
PulseUSA	SW_Midas_(Y)	26.7	22.3	--	24.5	--	97	10.5	57.7	--	--	3127	--	--
PulseUSA	LG_Amigo_(Y)	26.6	--	--	--	--	97	11.1	58.1	--	--	2593	--	--
Photosyntech	PSTSP28_(G)	26.5	--	--	--	--	96	9.9	56.2	--	--	2754	--	--
PulseUSA	Durwood_(Y)	26.5	25.9	--	26.2	--	96	11.5	58.4	--	--	2583	--	--
Photosyntech	PSTSP27_(Y)	26.4	27.1	--	26.8	--	96	11.0	56.9	--	--	2363	--	--
CDC/Meridian_Seeds	CDC_Amarillo_(Y)	26.0	26.3	41.2	26.1	31.1	94	12.4	58.6	--	--	2529	--	--
Photosyntech	PSTSP34_(Y)	25.8	--	--	--	--	94	10.8	58.1	--	--	3070	--	--
Meridian_Seeds	Earlystar_(Y)	25.7	23	--	24	--	93	11.2	57.8	--	--	2746	--	--
	Average	27.6	24.1	40.6	25.8	30.8	100	11.1	57.8	--	--	2640	--	--
	LSD(0.05)	3.4	3.7	8.5	3.5	5.2		1.6	2.2	--	--	153	--	--

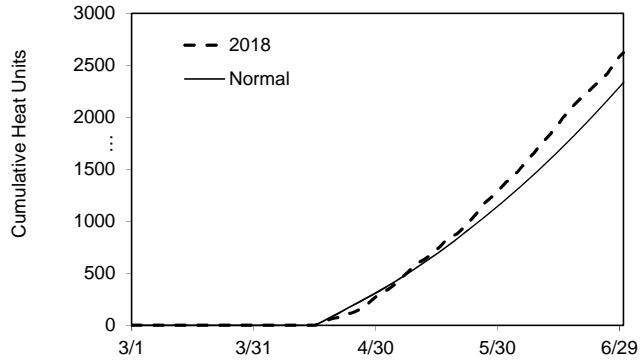
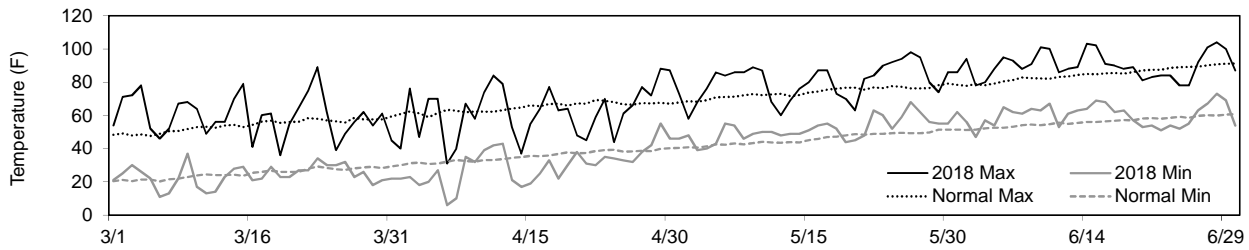
Thomas County Dryland Field Pea Performance Test, 2018

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	Pre-Emerge Herbicide:	5 oz Spartan Charge + 32 oz Glyphosate
		Post-Emerge Herbicide:	None
Dates:			
Planting:	4/17/2018		
Harvest:	7/11/2018		

Precipitation



Temperature



Month	Avg Temp		Precipitation		Heat Units	
	2018	Normal	2018	Normal	2018	Normal
March	41.7	39.5	0.60	1.05	-	-
April	46.1	50.1	1.01	1.89	275	310
May	66.0	60.0	4.44	2.81	1055	868
June	75.1	70.6	3.95	3.01	1294	1158
Total			10.00	8.76	2623	2336

Thomas County Dryland Field Pea Performance Test, 2018

Company	Variety	Grain Yield, bu/a					2018						
		2018	2017	2016	2yr	3yr	Yield % of	Moisture	Test Weight	Plant Height	Bloom Date	Seeds / lb	Grain Protein
					Avg	Avg	Test Avg	%	lb / bu	inches	DOY		%
Legume_Logic	AAC_Asher_(Y)	28.8	--	--	--	--	124	14.0	58.6	19.0	160.0	2337	--
USDA-ARS	PS07100925	27.8	--	--	--	--	119	13.0	58.2	19.2	159.6	2578	--
Legume_Logic	CDC_Dakota_(D)	25.7	--	--	--	--	110	13.4	57.9	19.0	165.0	2429	--
Photosyntech	PSTSP28_(G)	25.7	35.1	--	30.4	--	110	11.4	54.8	17.2	158.8	2402	--
Great_Northern_Ag	Spider_(Y)	25.6	39.0	23.2	32.3	29.2	110	13.2	58.9	18.1	159.6	2188	--
CDC/Meridian_Seeds	CDC_Saffron_(Y)	25.3	22.3	30.4	23.8	26.0	109	12.4	57.7	19.0	159.6	2236	--
AAC/Great_Northern_Ag	AAC_Profit_(Y)	25.0	42.1	--	33.6	--	108	14.1	57.9	18.8	161.0	2338	--
Photosyntech	PSTSP31_(G)	25.0	--	--	--	--	107	14.6	55.8	19.0	161.3	2275	--
Meridian_Seeds	Jetset_(Y)	24.8	30.3	35.0	27.5	30.0	106	11.3	57.6	17.6	158.6	2484	--
MonTech	4193_(Y)	24.6	--	29.0	--	--	106	11.5	56.4	19.2	158.8	2355	--
Great_Northern_Ag	Salamanca_(Y)	24.6	37.5	28.7	31.0	30.2	106	13.8	55.5	18.3	159.0	2189	--
Photosyntech	PSTSP29_(G)	24.2	30.2	--	27.2	--	104	12.8	54.4	19.5	159.5	2672	--
Photosyntech	PSTSP34_(Y)	24.0	--	--	--	--	103	12.0	58.4	19.6	158.8	2517	--
PulseUSA	Nette_2010_(Y)	24.0	34.2	32.3	29.1	30.1	103	12.6	59.3	18.8	158.4	2418	--
PulseUSA	SW_Midas_(Y)	23.5	28.0	26.1	25.8	25.9	101	12.0	58.3	19.3	159.6	2482	--
PulseUSA	DS_Admiral_(Y)	23.4	35.4	31.4	29.4	30.1	101	11.9	58.3	20.4	158.4	2323	--
Photosyntech	PSTSP27_(Y)	23.4	30.3	34.1	26.8	29.2	100	11.3	56.8	18.8	156.8	2046	--
CDC/Meridian_Seeds	CDC_Amarillo_(Y)	23.4	32.4	27.9	27.9	27.9	100	14.3	57.2	16.1	160.4	2612	--
Meridian_Seeds	AAC_Carver_(Y)	23.3	35.3	28.2	29.3	29.0	100	12.9	55.3	17.7	159.6	2455	--
PulseUSA	LG_Amigo_(Y)	22.9	--	--	--	--	98	12.3	55.6	18.4	159.0	2542	--
Photosyntech	PSTSP33_(Y)	22.5	--	--	--	--	97	12.4	57.2	18.2	159.0	2557	--
Great_Northern_Ag	Bridger_(Y)	22.4	31.5	29.4	27.0	27.8	96	12.9	57.5	17.4	158.4	2575	--
PulseUSA	LG_Sunrise_(Y)	22.3	--	--	--	--	96	13.0	56.8	18.1	157.8	2434	--
USDA-ARS	PS08101022	22.1	--	--	--	--	95	12.8	56.1	20.0	158.2	2481	--
Photosyntech	PSTSP35_(Y)	21.6	--	--	--	--	93	13.0	55.7	18.8	159.4	2244	--
CDC/Meridian_Seeds	CDC_Greenwater_(G)	20.1	33.5	--	26.8	--	86	15.9	55.9	17.0	160.6	2490	--
CDC/Meridian_Seeds	CDC_Inca_(Y)	19.9	38.9	--	29.4	--	85	14.8	56.5	19.0	160.4	2646	--
AAC/Meridian_Seeds	AAC_Comfort_(G)	19.4	--	--	--	--	83	18.4	52.9	18.7	163.0	2127	--
PulseUSA	Durwood_(Y)	18.5	34.8	28.1	26.7	27.1	80	14.8	56.9	18.7	158.8	2369	--
Meridian_Seeds	Earlystar_(Y)	17.1	34.8	28.6	25.9	26.8	73	14.4	56.7	17.5	160.0	2913	--
	Average	23.3	31.5	29.5	27.4	28.1	100	13.3	57.0	18.5	159.4	2443	--
	LSD(0.05)	3.7	5.1	3.0	4.4	4.0		1.8	2.9	2.1	1.0	269	--