

Field Pea Dryland Variety Trial - NDSU

WREC, Williston, ND 2018

Variety	Days to Flower	Days to Mature	Canopy Height	Lodging <sup>2</sup>	Protein <sup>3</sup>	1000 Seed Weight	Test weight <sup>4</sup>	Yield <sup>4</sup>		
								2018	2-Yr Avg*	3-Yr Avg**
	(DAP <sup>1</sup> )	(DAP <sup>1</sup> )	(in)	(0-9)	(%)	(g)	(lb/bu)	------(bu/a)-----		
<b>Yellow Cotyledon Type</b>										
CDC Saffron	49	75	9	3	26.5	243	61.9	36.4	29.1	29.5
AAC Asher	48	75	11	2	26.5	259	61.6	35.8	-	-
Bridger	46	73	7	5	28.0	210	60.9	34.6	26.7	28.0
LGPN4906	42	72	8	3	26.0	229	61.2	34.6	-	-
AAC Profit	49	75	10	3	27.5	241	61.7	34.3	-	-
AAC Chrome	48	77	11	3	26.1	252	61.0	34.1	-	-
Agassiz	45	74	11	3	27.7	223	60.5	33.5	32.8	34.1
Nette 2010	46	73	9	5	25.7	218	62.2	33.1	30.4	-
SW Midas	46	73	9	5	24.9	206	60.6	32.7	-	-
Spider	48	76	11	2	27.6	229	61.1	32.5	26.6	-
Korando	41	71	8	6	28.0	272	60.6	32.2	29.3	29.4
Navarro	41	71	6	5	27.0	256	61.2	32.2	30.1	-
Pro 133-6243	42	71	7	6	26.4	261	61.1	31.8	-	-
LGPN4915	43	73	10	4	31.0	212	61.0	31.7	-	-
LG Sunrise	43	71	8	4	24.2	228	61.2	31.1	-	-
DS Admiral	46	72	10	4	24.9	236	61.2	30.9	28.2	29.8
CDC Dakota	53	77	12	1	30.2	187	61.6	30.7	-	-
AAC Carver	48	73	8	3	26.0	233	61.4	30.6	32.7	-
LGPN4908	45	74	8	4	27.7	224	61.6	29.6	-	-
Salamanca	48	75	8	3	29.7	245	60.8	29.2	32.4	-
Earlystar	48	74	10	3	25.4	204	61.2	29.2	-	-
Jetset	46	73	8	5	28.3	227	60.3	28.5	27.9	-
LGPN4913	46	73	7	4	27.3	236	61.2	28.2	-	-
LGPN4912	43	73	6	5	27.2	235	62.2	28.0	-	-
CDC Inca	49	77	10	2	27.4	217	62.3	27.8	-	-
LGPN4909	44	74	8	3	29.1	234	61.1	27.6	-	-
Hyline	47	74	6	4	27.0	217	61.2	27.2	32.6	33.8
LGPN4249	48	75	12	2	26.4	281	61.2	27.0	-	-
CDC Amarillo	49	76	11	2	26.3	241	62.0	26.7	28.4	29.3
Durwood	48	75	12	3	26.6	231	60.6	26.6	31.8	32.8
Majestic	49	76	11	2	28.1	245	60.9	25.2	-	-
LG Amigo	45	75	7	5	29.6	200	60.4	23.6	-	-
<b>Green Cotyledon Type</b>										
Arcadia	45	73	8	6	25.5	199	60.5	32.0	30.9	32.0
CDC Striker	46	72	8	7	26.0	192	60.4	31.2	29.4	32.2
LGPN1125	48	75	8	3	27.2	274	60.5	30.2	-	-
Bluemoon	48	73	7	5	26.1	229	60.7	28.8	-	-
Greenwood	46	72	9	6	23.0	189	61.3	28.4	-	-
Pro 121-7126	46	72	8	5	25.0	188	60.5	27.8	-	-
LG Koda	50	74	7	4	25.2	216	62.1	27.6	-	-
CDC Greenwater	50	78	11	1	26.1	248	61.6	27.3	-	-
Viper	45	72	7	5	28.5	215	59.4	27.1	26.2	-
Banner	42	71	6	7	23.6	190	60.6	26.1	-	-
Cruiser	43	71	7	6	25.9	209	59.8	24.8	27.9	28.1
Ginny	45	73	8	5	25.6	183	60.6	24.5	-	-
Shamrock	49	76	9	3	27.9	221	61.7	23.4	-	-
AAC Comfort	52	79	11	2	26.3	264	60.9	23.3	-	-
LGPN1131	46	72	8	5	27.4	206	60.2	23.0	-	-
Mean	46	74	9	4	26.8	227	61.1	29.3	-	-
CV%	2.0	1.5	29.9	32.6	2.4	6.0	0.6	10.4	-	-
LSD 0.05	1.3	1.5	3.6	1.7	0.9	18.9	0.5	4.3	-	-
LSD 0.10	1.7	2.0	4.8	2.3	1.2	25.0	0.7	5.6	-	-

Location: WREC; Latitude 48° 8' N; Longitude 103° 44' W; Elevation 2105 ft.

Previous crop: Spring Wheat

Planted: 05/09/2018.

Harvested: 08/01/2018.

Soil test (0-6"): P=43 ppm; K=332 ppm; pH=6.3; OM=2.0%.

Soil type: Williams-Bowbells loam.

(0-24"): NO3-N=35 lb/a.

Applied fertilizers in lb/a: N=5.4; P<sub>2</sub>O<sub>5</sub>=18; K<sub>2</sub>O=4.5; S=0.5, seed inoculated with peat-based inoculant at planting.

<sup>1</sup>DAP = Days after planting.

<sup>2</sup>Lodging: 0 = none, 9 = lying flat on the ground.

<sup>3</sup>Protein adjusted to 0% moisture.

<sup>4</sup>Yield and test weight were adjusted at 13.5% moisture.

\*Averages of years 2016 and 2017. \*\*Averages of years 2015, 2016, and 2017.

**Note: Trial received heavy rain, wind, and hailstorms that damaged the crop and adversely affected yield.**

6/23/18: Wind speed=46 mph; Precipitation=1.53".

6/28/18: Wind speed=61 mph; Precipitation=0.94"; Hail.

7/9/18: Wind speed=48 mph; Precipitation=1.67".