

Field Pea Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2019

Variety	Canopy Height (in)	Vine Length (in)	Height Index‡ (%)	Days to Flower (DAP*)	Days to Maturity (DAP*)	Lodging (0 - 9+)	Protein† (%)	Test Weight (lb/bu)	Yield			
									2019 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)	
<b>YELLOW COTYLEDON</b>												
Agassiz	22	31	69	58	92	5	25.9	61.9	53.4	56.7	55.5	
Spider	21	35	61	60	94	6	27.4	62.5	50.8	-	-	
DS Admiral	25	30	82	58	91	6	24.2	62.2	45.1	-	-	
<b>GREEN COTYLEDON</b>												
CDC Striker	17	29	56	57	90	6	25.1	61.4	50.5	52.6	51.1	
Cruiser	11	29	36	57	91	8	25.2	61.0	48.2	-	-	
Arcadia	12	29	41	60	90	8	24.9	60.6	47.8	-	-	
MEAN	22.4	31.9	70.8	58.4	92.1	5.7	25.80	62.20	49.77	56.68	55.45	
C.V. (%)	23.1	5.8	24.2	5.4	2.0	20.0	2.12	1.03	13.64	-	-	
LSD (5%)	6.1	2.7	20.9	4.7	2.7	1.9	0.81	0.96	ns	-	-	
LSD (10%)	5.0	2.2	17.2	ns	2.3	1.6	0.67	0.79	ns	-	-	

\* Days after planting    † 0: no lodging - 9: plants lying flat on the ground    ‡ Protein content adjusted to 12% moisture

‡ Percentage of how lodged the plant is. 100% - Plant is standing straight, 0% - Plant is lying flat.

Location: Latitude 48 9.9222°N; Longitude 103 6.132°W

Elevation: 1902 ft

Soil test (0-6 in.): P=13 ppm; K=313 ppm; pH=7.6 ; OM=3.1%

Previous crop: Corn

(0-24 in.): NO3-N=15 lb/a

Planted: 5/3/2019

Yield goal: 50 bu/a

Harvested: 9/4/2019

Planting population: 400,000 seeds/a

Soil type: Lihen Loamy Fine Sand

Applied fertilizer: none applied

Plot size: 61 ft^2

Herbicides applied: Prowl H2O 2 pt/a and Sharpen 0.5 oz/a (5/10), Section 3EC 5.33 oz/a, 28-0-0 2 qt/a, and Destiny HC 1.5 pt/a (6/24),  
Basagran 1 pt/a and Destiny HC 1.5 pt/a (6/26), and Gramoxone SL 2.0 2 pt/a and Destiny HC 1 qt/ 100 gal (8/28)

Rainfall: 10.4 in. (5/3 - 9/4)

Fungicides applied: Priaxor D 8 oz/a (7/12)