

NORTH DAKOTA STATE UNIVERSITY
Williston Research Extension Center

Field Pea Irrigated Variety Trial - NDSU										WREC, Nesson Valley, ND 2016			
Variety	Origin	Year of Release	Days to flower	Days to mature	Canopy height	Vine length	Lodging	Protein†	1000 seed weight	Test weight	Yield		
											2016	2-Yr Avg	3-Yr Avg
			(DAP*)	(DAP*)	(in)	inch	(0-9*)	(g)	(lb/bu)	(bu/a)	(bu/a)	(bu/a)	
Yellow Cotyledon Type													
AC Agassiz	AC		56	92	20.2	22.0	1	26.5	277	64.3	66.5	70.0	61.3
DS Admiral	Danisco		57	85	21.5	22.6	1	28.1	255	63.9	45.6	60.7	55.6
Cooper			58	97	20.4	21.2	1	28.4	283	64.1	61.7	-	-
Mystique	Pulse USA		56	95	23.1	24.2	2	27.5	277	64.8	61.0	-	-
Spider	Nickerson		58	93	21.5	24.3	1	26.2	246	64.9	59.6	-	-
Korando	Pulse USA		53	90	24.0	25.3	1	29.7	289	63.8	56.6	-	-
Vegas	Pulse USA		54	88	21.0	21.4	1	28.1	249	64.2	55.2	-	-
Golden			57	89	19.1	20.5	1	28.1	235	64.7	53.1	-	-
Green Cotyledon Type													
CDC Striker	Canada		57	86	17.2	17.5	1	24.9	241	64.4	62.1	72.9	64.8
Cruiser	WA		55	87	17.0	21.9	2	26.5	255	63.9	52.2	58.5	52.5
Aragorn	Progene		53	84	15.8	20.0	3	27.0	263	63.0	50.3	59.1	-
Arcadia	Pulse USA		56	87	18.6	19.6	1	25.8	250	64.4	60.4	-	-
Greenwood			56	86	18.9	22.0	2	24.3	223	64.1	53.9	-	-
K-2	Legume Logic		56	90	19.1	19.8	1	27.9	251	63.9	51.4	-	-
Blue Moon			57	92	18.2	19.9	1	28.2	262	64.2	48.3	-	-
Viper	Pulse USA		56	87	21.2	23.4	1	28.6	228	63.8	43.6	-	-
Mean			55.8	89.2	19.8	21.6	1.4	27.2	255.2	64.2	55.1	64.2	58.6
C.V.%			2.0	3.4	11.4	10.4	39.1	2.93	4.8	0.66	10.47	-	-
LSD 5%			1.6	4.4	3.2	3.2	0.8	1.13	17.6	0.60	8.34	-	-
LSD 10%			1.3	3.6	2.7	2.7	0.7	0.94	14.7	0.50	6.94	-	-

Location: Latitude 48 9.9222°N; Longitude 103 6.132°W; Elevation 1902 ft

Previous crop: Barley

Planted: 4/22/2016

Harvested: 8/1/2016

Plot size: 61.25 ft²

Soil type: Lihen Loamy Fine Sand

Soil test to 6": 16-ppm P, 200- ppm K, OM-2.0 pH-8.5

Soil test to 2' : 38 lbs N/a

Yield goal = 50 bu

Planting population = 400,000 seeds/a

Herbicides applied: Spartan Charge 3 oz/a (4/27/2016), Section 2EC 6 oz/a (6/7/2016),

Basagran 1 pt/a + Assure II 7 oz/a + Trophy Gold 2qt/a (6/10/2016), and Gramoxone Inteon 1.5 pt/a (7/27/2016)

Fungicides applied: Priaxor D 6 oz/a (6/28/2016 and 7/8/2016)

Rainfall: 8.2 in. (4/22/2016 - 8/1/2016)

Irrigation: 6.5 in. (4/22/2016 - 8/1/2016)

*Days after planting

*0: no lodging - 9: plants lying flat on ground

†Protein content adjusted to a 0% moisture