

Pinto Bean Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2018

Variety	Days to Maturity (DAP)	Canopy Height (inch)	Plant Lodge (0 - 9*)	1000 KWT (g)	Seeds/Pound	Test Weight (lb/bu)	Yield		
							2018 (lb/a)	2-Yr Avg (lb/a)	3-Yr Avg (lb/a)
Monterrey	112	16	0	38.8	1170	60.4	2682.1	3786.0	4072.7
LaPaz	112	16	1	39.7	1144	60.3	2522.3	3362.2	3696.8
Lariat	115	17	0	39.6	1146	58.9	2408.2	3111.1	3389.1
Palomino	117	14	0	38.2	1194	57.2	1956.1	2214.5	3038.4
Windbreaker	111	13	1	40.4	1125	56.4	1881.4	2478.2	2884.8
Stampede	112	14	1	36.4	1257	59.3	2012.1	2774.0	2881.7
MEAN	113.1	15.0	0.4	38.84	1172.4	58.77	2243.69	2954.34	3327.23
C.V. (%)	-	-	-	6.11	-	1.66	20.82	-	-
LSD (5%)	-	-	-	3.58	-	1.47	704.18	-	-
LSD (10%)	-	-	-	2.94	-	1.21	579.17	-	-

Days after planting * 0: no lodging - 9: plants lying flat on the ground

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

Elevation: 1902 ft

Soil test to (0-6"): P=16 ppm; K=126 ppm; pH=7.5; OM=2.1%

Previous crop: Soybean

(0-24"): NO₃-N= 42 lb/a

Planted: 5/14/2018

Applied fertilizer in lb/a broadcast: 105 lbs of 46-0-0 (5/1/2018)

Harvested: 10/8/2018

Yield goal: 2500 lb/a

Soil Type: Lihen Loamy Fine Sand

Planting population: 125,000 seeds/a

Plot size: 61.25 ft²

Herbicides applied: Prowl H2O 1.5 pt/a (5/15/2018), Section 3EC 8 oz/a (6/4/2018),

Rainfall: 11.3 in (5/14/2018 - 10/8/2018)

Raptor 5 oz/a, Trophy Gold 1 qt/100 gal, 28-0-0 2 qt/a (6/6/2018),

Irrigation: 11.9 in (5/14/2018 - 10/8/2018)

Gramaxone 2 pt/a, R-11 2 qt/100 gal (9/7/2018)

Fungicides applied: Headline 12 oz/a (7/3/2018)