

NORTH DAKOTA STATE UNIVERSITY
Williston Research Extension Center

Pinto Bean Irrigated Variety Trial

WREC, Nesson Valley, ND 2017

Variety	Origin	Plant Height (in)	Days to Mature (DAP ⁺)	Lodging (0-9 [*])	250 Seed Wt (g)	Seeds/ Pound	Test Weight (lb/bu)	Harvest Moisture [†] (%)	Yield [‡]		
									2017 (lb/a)	2-Yr Avg (lb/a)	3-Yr Avg (lb/a)
LaPaz	Provita	15	109	1	93.4	486	60.8	25.6	4202.2	4284.1	4008.4
Lariat	NDSU	14	113	2	100.3	452	59.6	26.4	3814.2	3879.6	3887.4
Stampede	NDSU	14	109	1	117.4	401	58.0	22.7	3536.4	3316.7	3351.5
Maverick	NDSU	11	109	2	101.9	446	58.9	24.0	3933.8	3966.4	3771.3
ND-307	NDSU	13	109	2	106.3	428	57.1	21.9	3224.1	3446.5	3147.4
Windbreaker	Seminis	13	108	2	104.8	433	58.1	22.9	3075.4	3386.7	3145.8
Palomino	NDSU	14	110	1	98.0	463	59.3	25.8	2473.4	3579.7	3362.8
Monterrey	Provita	14	109	1	96.0	473	61.1	23.9	4889.9	4768.0	-
Mean		13.6	109.4	1.4	102.27	447.8	59.12	24.14	3643.67	3828.46	3524.92
C.V. (%)		-	-	-	10.24	7.0	0.59	8.47	16.26	-	-
LSD (5%)		-	-	-	15.41	46.1	0.52	3.01	871.06	-	-
LSD (10%)		-	-	-	12.75	38.2	0.43	2.49	720.75	-	-

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

Planted: 5-24-2017

Plot size: 48.75 ft²

Soil test to (0-6"): P=16 ppm; K=195 ppm; pH=7.6; OM=2.2%
(0-24"): NO3-N=52 lb/a

Applied fertilizer in lb/a broadcast: 200 lbs of Urea (46-0-0)

Yield goal = 2,500 lbs/a

Planting population = 125,000 seeds/a

Herbicides applied: Spartan Charge 4oz/a (5/31/2017), Section 2EC 8oz/a + Trophy Gold 2qt/100 gal H2O (6/26/2017)

Raptor 4oz/a + Basagran 8oz/a + Trophy Gold 2qt/100gal H2O + 2qt/a UAN (6/26/2017)

Fungicides applied: Priaxor 8oz/a (7/20/2017)

Rainfall: 7.84 in. (5/24/2017 - 10/5/2017)

Irrigation: 15.4 in. (5/24/2017 - 10/5/2017)

⁺Days After Planting

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

[†]Moisture taken at harvest

[‡]Dry beans direct harvested

Previous crop: Durum

Harvested: 10-5-2017

Soil type: Lihen Loamy Fine Sand