

Navy Bean Irrigated Variety Trial

WREC, Nesson Valley, ND 2016

Variety	Origin	Days to mature (DAP ⁺)	Canopy height (in)	Lodging (0-9 [*])	Test weight (lb/bu)	250 Kernel weight (g)	Seeds / pound (lb)	Yield [†]		Harvest/shatter loss [‡]
								2016 (lb/a)	2-Yr Avg (lb/a)	(lb/a)
Vista	Ag. Can.	98	17.3	1	64.6	40.8	1112	4451	3448	304
T9905	Hyland	100	16.7	2	64.3	49.3	921	4632	3411	230
HMS Medalist	Provita	98	16.6	1	64.7	41.3	1098	4261	3300	180
Ensign	ADM-Seedwest	99	17.2	3	64.9	47.5	962	3823	3029	466
Mean		98.4	16.9	2.0	64.8	44.4	1030.4	4041.7	3164.6	322.6
C.V.%		2.4	7.8	28.4	0.6	4.0	3.5	7.7	-	-
LSD 5%		3.7	2.1	0.8	0.6	2.8	57.4	528.3	-	-
LSD 10%		3.0	1.7	0.6	0.5	2.3	46.5	428.1	-	-

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

Planted: 5/16/2016

Plot size: 52.5 ft²

Applied Fertilizer in broadcast: none

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: 2500 lbs/a

Planting population: 125,000 seeds/a

Herbicides applied: Section 2EC 6oz/a + Trophy Gold 2pt/a (6/7/2016),

Assure II 7 oz/a + Basagran 1 pt/a + Trophy Gold 2pt/a (7/10/2016), and Gramoxone 2 pt/a (9/2/2016)

Fungicides applied: Priaxor D 8 oz/a (7/8/2016), Priaxor D 8 oz/a + Endura 11 oz/a (7/21/2016)

Rainfall: 7.9 in. (5/16/2016 - 9/9/2016)

Irrigation: 9.55 in. (5/9/2016 - 8/16/2016)

⁺ Days after planting

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

[†] Dry beans direct harvested

[‡] Harvest loss figured on number of beans left in square foot following harvest and not represented in 2016 yield

Previous crop: barley

Harvested: 9/9/2016

Soil type: Lihen Loamy Fine Sand