

Navy Bean Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2018

Variety	Days to Maturity (DAP ⁺)	Canopy Height (inch)	Plant Lodge (0 to 9*)	1000 KWT (gram)	Seeds/Pound	Test Weight (lb/bu)	Yield	
							2018 (lb/a)	2-Yr Avg† (lb/a)
T9905	114	11	0	18.9	2399	62.2	1334	2983
HMS Medalist	116	10	0	18.7	2434	62.3	1258	2759
Ensign	112	9	1	19.9	2297	61.2	858	2340
MEAN	113.8	9.9	0.3	19.18	2376.7	61.88	1149.69	2694.18
C.V. (%)	-	-	-	6.26	6.1	0.82	11.05	-
LSD (5%)	-	-	-	ns	ns	0.88	219.71	-
LSD (10%)	-	-	-	ns	ns	0.70	174.48	-

* Days after planting * 0: no lodging - 9: plants lying flat on the ground † 2 Year Average figured on yields from 2016 and 2018

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%
(0-24"): NO3-N= 42 lb/a

Previous crop: Soybean

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),
Raptor 5 oz/a, Trophy Gold 1 qt/100 gal, 28-0-0 2 qt/a (6/6/2018),
Gramaxone 2 pt/a, R-11 2 qt/100 gal (9/7/2018)

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

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

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