

NORTH DAKOTA STATE UNIVERSITY
Williston Research Extension Center

Conventional Soybean Irrigated Variety Trial

WREC, Nesson Valley, ND 2017

Variety	Company/Brand	Relative maturity group	Plant height (in)	Days to mature (DAP [†])	Lodging (0-9 [†])	Protein [†] (%)	Oil [‡] (%)	Test weight (lb/bu)	Harvest Moisture [¥] (%)	Yield		
										2017 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
Sheyenne	NDSU	0.7	30	127	2	35.8	14.9	57.0	13.9	45.0	58.1	58.8
ND Henson	NDSU	0.0	29	129	1	35.9	14.5	55.1	16.1	44.7	63.5	58.8
Ashtabula	NDSU	0.4	31	123	1	35.1	14.9	57.3	14.0	45.9	62.1	58.7
ND Bison	NDSU	0.7	31	130	1	35.2	14.6	55.1	17.0	42.0	61.4	58.3
ND Benson	NDSU	0.4	30	121	1	36.1	14.9	57.3	12.9	46.6	54.9	55.8
Mean			30.3	125.9	1.3	35.62	14.75	56.37	14.77	44.86	60.01	58.08
C.V. (%)			-	-	-	2.52	2.14	3.00	21.88	17.60	-	-
LSD (5%)			-	-	-	1.39	0.49	2.61	4.98	12.16	-	-
LSD (10%)			-	-	-	1.13	0.40	2.13	4.07	9.95	-	-

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

Planted: 5-17-2017

Plot size: 61.25 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: none / seed inoculated

Yield goal = 50 bu

Planting population = 200,000 seeds/a

Herbicides applied: Spartan Charge 4oz/a (5/31/2017), Section 2EC 8oz/a + Trophy Gold 2qt/100gal 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. (5/17/2017 - 10/6/2017)

Irrigation: 15.4 in. (5/17/2017 - 10/6/2017)

[†]Days After Planting

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

[†]Protein adjusted to 13% moisture

[‡]Oil content adjusted to 13% moisture

[¥]Moisture taken at harvest

Previous crop: Durum

Harvested: 10-6-2017

Soil type: Lihen Loamy Fine Sand