

Conventional Soybean - Irrigated

WREC, Nesson Valley, ND 2018

Variety	Company / Brand	Relative Maturity	Plant Height (in)	Days to Maturity (DAP)	Plant Lodge (0 - 9*)	Protein†			Oil‡			Test Weight (lb/bu)	Yield		
						2018 (%)	2-Yr Avg (%)	3-Yr Avg (%)	2018 (%)	2-Yr Avg (%)	3-Yr Avg (%)		2018 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
ND Bison	NDSU	0.7	31	126	2	33.6	34.4	35.2	13.6	14.1	14.0	57.0	77.6	59.8	66.8
ND Henson	NDSU	0.0	29	112	2	35.2	35.5	36.1	14.5	14.5	14.4	58.6	68.2	56.5	65.1
ND Benson	NDSU	0.4	31	125	3	36.4	36.3	37.0	13.4	14.2	14.2	57.2	72.2	59.4	60.7
ND Stutsman	NDSU	0.7	33	124	4	32.5	34.5	-	14.1	13.9	-	58.0	81.6	78.1	-
MEAN			31.0	121.8	2.7	34.4	35.2	36.1	13.9	14.2	14.2	57.7	74.9	63.4	64.2
C.V. (%)			-	-	-	1.16	-	-	0.84	-	-	0.95	10.70	-	-
LSD (5%)			-	-	-	0.64	-	-	0.19	-	-	0.88	12.82	-	-
LSD (10%)			-	-	-	0.52	-	-	0.15	-	-	0.71	10.39	-	-

Days after planting * 0: no lodging - 9: plants lying flat on the ground † Protein content adjusted to 13% moisture ‡ Oil content adjusted to 13% moisture

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

Soil test to (0-6"): P=24 ppm; K=207 ppm; pH=7.8; OM=2.3%

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

Applied fertilizer in lb/a broadcast: none

Yield goal: 50 bu/a

Planting population: 200,000 seeds/a

Herbicides applied: Cornerstone 5 Plus 24 oz/a, Spartan Charge 2 oz/a (5/22/2018), 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)

Fungicides applied: Quadris 15 oz/a (7/17/2018)

Elevation: 1902 ft

Previous crop: Barley

Planted: 5/22/2018

Harvested: 10/17/2018

Soil Type: Lihen Loamy Fine Sand

Plot size: 61.25 ft²

Rainfall: 11.0 in (5/22/2018 - 10/17/2018)

Irrigation: 11.9 in (5/22/2018 - 10/17/2018)