

Conventional Soybean Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2019

Variety	Company / Brand	Relative Maturity	Plant Height (in)	Days to Maturity (DAP*)	Protein†		Oil‡		Test Weight (lb/bu)	Yield	
					2019 (%)	3-Yr Avg (%)	2019 (%)	3-Yr Avg (%)		2019 (bu/a)	3-Yr Avg (bu/a)
ND Benson	NDSU	0.4	24	128	35.4	36.0	15.3	14.5	57.5	49.3	56.0
ND Rolette	NDSU	00.9	21	122	36.1	35.7	14.8	14.5	57.8	44.8	51.2
ND Henson	NDSU	0.0	18	122	37.5	36.2	15.3	14.8	58.4	38.9	50.6
ND Stutsman	NDSU	0.7	22	129	36.6	-	15.4	-	58.4	47.8	-
MEAN			21.1	125.4	36.41	35.95	15.19	14.62	58.02	45.22	52.61
C.V. (%)			9.2	1.2	3.11	-	3.74	-	1.62	10.76	-
LSD (5%)			3.1	2.3	1.81	-	ns	-	ns	7.78	-
LSD (10%)			2.5	1.9	1.47	-	ns	-	ns	6.31	-

* Days after planting † Protein content adjusted to 13% moisture ‡ Oil content adjusted to 13% moisture

Lodging not reported for 2019 as no lodging was noted in the trial.

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

Soil test (0-6 in.): P=13 ppm; K=313 ppm; pH=7.6 ; OM=3.1%

(0-24 in.): NO3-N=15 lb/a

Yield goal: 50 bu/a

Planting population: 200,000 seeds/a

Applied fertilizer: none applied / seed inoculated

Herbicides applied: Prowl H2O 1.5 pt/a (5/23), Section 3EC 5.33 oz/a, Destiny HC 1.5 pt/a, 28-0-0 2 qt/a (6/24), and Basagran 1 pt/a, Destiny HC 2 pt/a, Varisto 21 oz/a (6/26)

Fungicides applied: Priaxor D 8 oz/a (7/12)

Elevation: 1902 ft

Previous crop: Corn

Planted: 5/15/2019

Harvested: 10/8/2019

Soil type: Lihen Loamy Fine Sand

Plot size: 61 ft²

Rainfall: 20.0 in. (5/15 - 10/8)