

## Oats Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2018

Variety	Plant Height (in)	Days to Head (DAP*)	Lodging (0 - 9+)	Test Weight (lb/bu)	Yield		
					2018 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
Deon (MN)	38	60	4	45.6	223.3	168.0	181.2
Hayden	39	56	4	46.5	189.3	155.8	166.8
Jury (ND030349)	37	61	6	45.9	186.4	147.1	163.8
Souris	37	56	2	45.9	170.7	142.9	160.2
Rockford	38	59	5	44.7	170.5	141.2	156.6
AC Pinnacle	39	55	7	45.5	150.8	130.4	156.5
Leggett	37	61	7	45.4	157.3	133.4	153.4
Beach	44	56	5	45.7	172.6	142.0	153.1
HiFi	37	60	7	45.7	164.6	135.6	149.7
Goliath	40	59	6	45.9	165.0	130.1	147.3
Otana	39	60	7	43.6	128.0	114.9	142.7
Killdeer	35	56	4	44.7	192.3	151.5	-
Furlong	40	61	3	45.2	170.8	147.5	-
Hyttest	38	55	4	46.5	142.0	116.8	-
Summit	35	59	2	45.6	220.1	-	-
CS Camden	38	59	2	44.1	188.8	-	-
<b>MEAN</b>	38.1	58.3	4.6	45.41	174.54	139.79	157.38
<b>C.V. (%)</b>	-	-	-	1.19	19.33	-	-
<b>LSD (5%)</b>	-	-	-	0.77	48.06	-	-
<b>LSD (10%)</b>	-	-	-	0.64	40.07	-	-

\* Days after planting + 0: no lodging - 9: plants lying flat on the ground

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

Elevation: 1902 ft

Soil test to (0-6"): P=7 ppm; K=153 ppm; pH=7.5; OM=2.1%

Previous crop: Soybean

(0-24"): NO3-N= 8 lb/a

Planted: 5/2/2018

Yield goal: 120 bu/a

Harvested: 8/15/2018

Planting population: 1.25 million seeds/a

Soil Type: Lihen Loamy Fine Sand

Applied fertilizer in lb/a broadcast: 417 lbs of 46-0-0 (4/27/2018), and 76 lbs pf 46-0-0 (6/4/2018)‡

Plot size: 92 ft<sup>2</sup>

Herbicides applied: Axial XL 10.5 oz/a, Starane 10.5 oz/a, and Bison 2 pt/a (5/24/2018)

Rainfall: 8.5 in (5/4/2018 - 8/16/2018)

Fungicides applied: Prosaro 421 8 oz/a (7/3/2018)

Irrigation: 7.2 in (5/2/2018 - 8/15/2018)

‡ Additional fertilizer applied due to a 2.44 inch rainfall on June 1st