

NORTH DAKOTA STATE UNIVERSITY
Williston Research Extension Center

Oats Irrigated Variety Trial

WREC, Nesson Valley, ND 2017

Variety	Origin	Year of release	Plant height (in)	Days to head (DAP+)	Lodging (0-9*)	Test weight (lb/bu)	Yield		
							2017†	2-Yr Avg	3-Yr Avg
							(bu/a)	(bu/a)	(bu/a)
AC Pinnacle	Canada	1999	43	59	6	42.7	110.1	159.3	172.5
Souris	NDSU	2006	41	56	3	44.3	115.1	154.9	166.1
Jury	NDSU	2012	45	56	8	45.1	107.8	152.5	162.5
Leggett	Canada	2005	44	59	3	44.7	109.5	151.4	161.1
Goliath	SDSU	2013	50	60	7	44.6	95.3	138.5	159.0
Rockford	NDSU	2008	44	61	3	45.3	111.9	149.6	153.5
HiFi	NDSU	2001	46	60	6	44.2	106.5	142.2	153.3
Deon	MN	2013	41	57	5	43.6	112.6	160.1	-
Hayden	SDSU	2015	44	56	4	45.6	122.2	155.5	-
Otana	MSU	1977	43	59	6	42.1	101.9	150.1	-
Beach	NDSU	2004	44	57	2	44.2	111.3	143.3	-
GM423	General Mills	2016	46	63	9	40.2	100.9	142.5	-
Furlong	Canada	2003	44	63	2	43.8	124.3	-	-
Killdeer	NDSU	2000	42	54	6	42.8	110.6	-	-
Hyttest	SDSU	1986	39	52	2	45.0	91.5	-	-
Mean			43.7	57.9	4.4	43.89	108.78	150.00	161.13
C.V. (%)			-	-	-	1.39	8.88	-	-
LSD (5%)			-	-	-	0.87	13.34	-	-
LSD (10%)			-	-	-	0.73	11.12	-	-

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

Previous crop: Pea

Planted: 4-27-2017

Harvested: 8-14-2017

Residue at planting: Conventional Till

Soil type: Lihen Loamy Fine Sand

Plot size: 87.5 ft²

Soil test to (0-6"): P=20 ppm; K=206 ppm; pH=7.8; OM=2.5%

(0-24"): NO₃-N=54 lb/a

Applied fertilizer in lb/a broadcast: 319 lbs of Urea (46-0-0)

Yield goal: 200 bu/a

Planting population: 1.25 million seeds/a

Herbicides applied: Starane NXT 10 oz/a + Bison 1.5 pt/a (5/30/2017)

Fungicides applied: none

Rainfall: 5.66 in (4/27/2016 - 8/14/2016)

Irrigation: 11.85 in (4/27/2017 - 8/14/2017)

*Days after planting

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

†Yields affected by shatter loss due to late season rain