

NORTH DAKOTA STATE UNIVERSITY  
Williston Research Extension Center

Oats Irrigated Variety Trial

WREC, Nesson Valley, ND 2016

Variety	Origin	Year of release	Plant height (in)	Days to head (DAP <sup>+</sup> )	Lodging (0-9*)	Test weight (lb/bu)	Yield	
							2016 (bu/a)	2-Yr Avg (bu/a)
AC Pinnacle	Canada	1999	45.3	71	3	41.3	208.6	203.6
Horsepower	SD	2012	38.2	63	0	42.2	202.8	192.3
Souris	ND	2006	39.3	66	0	42.7	194.7	191.5
Goliath	SD	2013	49.2	69	2	43.1	181.6	190.8
Jury	ND	2012	46.4	67	3	41.9	197.2	189.9
Leggett	Canada	2005	46.9	69	1	42.8	193.3	186.9
HiFi	ND	2001	43.2	69	1	42.7	178.0	176.6
Newburg	ND	2011	45.2	66	3	42.3	178.7	176.5
Rockford	ND	2008	46.9	69	1	42.4	187.3	174.4
CDC Minstrel	Canada	2006	46.4	69	2	40.5	192.0	173.0
Deon	MN	2013	46.2	70	3	41.7	207.7	-
AAC Justice	AAFC/MN	2015	44.2	69	2	43.2	207.6	-
Otana	MT	1977	46.5	68	4	40.2	198.2	-
Maida	ND	2005	47.2	66	0	42.9	189.7	-
Hayden	SD	2015	43.2	67	0	42.9	188.8	-
GM423	General Mills	-	46.1	71	3	38.8	184.2	-
Morton	ND	2001	47.9	66	0	41.6	180.9	-
Beach	ND	2004	48.1	68	1	43.3	175.3	-
Loyal	SD	2000	45.3	71	3	42.8	171.5	-
Shelby 427	SD	2008	45.0	64	2	43.6	163.4	-
AC Kaufman	AAFC	2000	47.3	70	3	41.3	155.4	-
Buff	SD	2002	42.3	63	1	51.3	134.3	-
Mean			45.3	67.7	1.6	42.5	185.1	185.6
C.V.			6.1	1.9	106.5	2.9	7.5	13.5
LSD 5%			3.9	1.8	2.4	1.8	28.1	35.2
LSD 10%			3.3	1.5	2.0	1.5	23.3	29.4

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

Previous crop: Soybean

Planted: 4/14/2016

Harvested: 8/8/2016

Residue status at planting: 0" of Soybean stubble

Soil type: Lihen Loamy Fine Sand

Plot size: 91.875 ft<sup>2</sup>

Applied fertilizer in lbs/a broadcast: 385 lbs/a of 46-0-0

Soil test to 6": 24-ppm P, 230- ppm K, OM-2.2, pH-7.6

Soil test to 2' : 18 lbs of N

Yield goal: 200 bu/a

Planting population: 1.5 million seeds/a

Herbicides applied: Starane 10 oz/a + Bison 1.5 pt/a (5/17/2016)

Fungicides applied: none

Rainfall: 8.71 in (4/14/2016 - 8/8/2016)

Irrigation: 6.8 in. (4/13/2016 - 8/8/2016)

Days after planting

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