

NORTH DAKOTA STATE UNIVERSITY
Williston Research Extension Center

Winter Wheat Irrigated Variety Trial

WREC, Nesson Valley, ND 2017

Variety	Origin	Year of release	Plant height (in)	Days to head (julian*)	Lodging (0-9*)	Protein† (%)	Test weight (lb/bu)	Yield		
								2017 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
Decade	MSU/NDSU	2010	35	158	0	10.4	58.9	136.1	117.5	110.6
Jerry	NDSU	2001	37	156	2	9.6	57.7	108.0	100.7	100.5
Peregrine	Canada	2008	39	158	1	10.2	61.2	134.0	122.3	-
CDC Accipiter	Canada	2008	34	159	0	10.0	60.3	136.3	119.5	-
Boomer	WB	2009	32	159	0	10.4	56.6	128.7	119.2	-
CDC Falcon	Canada	2000	31	156	0	10.0	59.8	125.4	119.2	-
Radiant	Canada	2001	39	159	0	10.2	59.9	120.5	117.0	-
SY Wolf	AgriPro	2010	33	156	0	11.3	60.2	130.6	110.4	-
Northern	MSU	2015	31	159	1	10.6	60.0	113.2	107.9	-
Overland	U of NE	2006	31	157	0	9.9	59.6	106.3	104.0	-
MT1488	MSU	-	34	157	1	12.1	60.7	143.7	-	-
Ideal	SDSU	2011	30	155	0	9.4	59.3	134.6	-	-
Oahe	SDSU	2016	35	155	1	11.2	61.4	134.2	-	-
AAC Gateway	Canada	2012	33	158	0	11.6	59.7	119.7	-	-
WB4614	WB	2013	28	157	0	10.6	59.7	115.3	-	-
AC Emerson	Canada	2011	33	158	0	11.3	60.3	106.7	-	-
Mean			33.3	157.1	0.3	10.56	59.71	124.57	113.76	105.57
C.V. (%)			-	-	-	7.87	2.05	13.84	-	-
LSD (5%)			-	-	-	1.39	2.05	24.55	-	-
LSD (10%)			-	-	-	1.15	1.70	20.47	-	-

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

Previous crop: Pea

Planted: 9-14-2016

Harvested: 7-31-2017

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: 100 bu/a

Planting population: 1.25 million seeds/a

Herbicides applied: Bison 1 1/2 pt/A + Axial XL 1 pt/A (5/11/2017)

Fungicides applied: None

Rainfall: 3.44in (1/1/2017 - 7/31/2017)

Irrigation: 12.65 in (5/11/2017 - 7/31/2017)

*Dates beginning January 1, 2017

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

†Protein content adjusted to a 12% moisture