

Winter Wheat Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2019

Variety	Winter Survival (%)	Days to Head (julian*)	Plant Lodge (0 - 9*)	Plant Height (in)	Protein†			Test Weight (lb/bu)	Yield		
					2019 (%)	2-Yr Avg‡ (%)	3-Yr Avg¥ (%)		2019 (bu/a)	2-Yr Avg‡ (bu/a)	3-Yr Avg¥ (bu/a)
Peregrine	97	165	1	34	12.2	11.2	11.7	62.6	113.3	123.6	119.3
Accipiter	96	167	0	31	12.4	11.2	11.7	62.3	112.5	124.4	117.2
Decade	80	164	0	28	15.0	12.7	12.9	61.8	98.0	117.0	111.0
Northern	94	168	1	30	13.2	11.9	12.4	61.7	112.2	112.7	109.3
Jerry	98	164	0	33	14.4	12.0	12.5	61.3	97.8	102.9	99.7
Oahe	99	163	0	27	15.0	13.1	-	60.9	97.6	115.9	-
Ideal	92	164	1	26	13.6	11.5	-	62.7	95.7	115.2	-
SY Wolf	99	164	0	28	13.9	12.6	-	61.7	94.7	112.6	-
AC Broadview	84	164	1	29	13.6	11.8	-	62.2	81.2	106.7	-
WB Matlock	99	166	0	31	15.0	13.8	-	62.1	103.2	104.7	-
AC Gateway	68	168	0	29	13.9	12.8	-	62.2	81.7	100.7	-
Yellowstone	95	165	1	31	12.8	-	-	61.1	113.1	-	-
CDC Chase	85	166	1	34	13.0	-	-	62.8	108.5	-	-
FourOsix	98	164	0	28	14.0	-	-	61.3	105.5	-	-
Loma	94	167	1	28	13.4	-	-	59.5	103.0	-	-
AAC Wildfire	97	168	1	31	13.4	-	-	61.2	100.3	-	-
SY Monument	98	164	0	27	13.3	-	-	60.9	99.5	-	-
AAC Goldrush	96	168	0	32	12.9	-	-	61.9	96.9	-	-
Redfield	99	162	1	27	14.1	-	-	62.7	96.7	-	-
SY Sunrise	98	163	1	21	15.4	-	-	61.4	60.5	-	-
MEAN	93.3	169.2	0.4	29.3	13.72	12.24	12.22	61.71	98.60	112.40	111.31
C.V. (%)	14.5	0.7	148.1	4.9	6.95	-	-	1.32	16.43	-	-
LSD (5%)	19.1	1.5	0.8	2.0	1.35	-	-	1.16	22.94	-	-
LSD (10%)	16.0	1.3	0.7	1.7	1.13	-	-	0.96	19.15	-	-

+ Days after January 1, 2018 * 0: no lodging - 9: plants lying flat on the ground † Protein content adjusted to 12% moisture

‡ 2-Yr average from 2017 and 2019 ¥ 3-Yr average from 2016, 2017, and 2019

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

Elevation: 1902 ft

Soil test (0-6 in.): P=22 ppm; K=177 ppm; pH=7.9 ; OM=2.2%

Previous crop: Field Pea

(0-24 in.) NO3-N=25 lb/a

Planted: 9/11/2018

Yield goal: 100 bu/a

Harvested: 8/2/2019

Planting population: 1.5 million seeds/a

Soil type: Lihen Loamy Fine Sand

Applied fertilizer: 385 lb/a of Urea (46-0-0) [4/18]

Plot size: 92 ft^2

Herbicides applied: 2,4-D 1.5 pt/a, Talinor 14 oz/a, Tacoma .66 pt/a, and Goldsky 0.5 pt/a (6/5)

Rainfall: 8.2 in (1/1 - 8/2)

Fungicides applied: Tilt 4 oz/a (6/5) and Prosaro 421 8 oz/a (7/2)