

Winter Wheat Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2020

Variety	Winter Survival (%)	Plant Height (in)	Days to Head (julian ⁺)	Lodging (0 - 9 [†])	Protein [†]			Test Weight (lb/bu)	Yield		
					2020 (%)	2-Yr Avg [‡] (%)	3-Yr Avg [¥] (%)		2020 (bu/a)	2-Yr Avg [‡] (bu/a)	3-Yr Avg [¥] (bu/a)
Peregrine	98	25	165	0	14.3	13.4	12.3	62.2	105.0	109.1	117.2
Accipiter	89	19	164	0	14.8	13.7	12.7	60.8	89.3	100.9	112.7
Decade	93	25	162	0	16.2	15.8	13.9	61.9	96.7	97.4	110.3
AC Broadview	96	23	164	0	14.1	14.0	13.1	60.9	105.1	93.1	106.6
Oahe	96	20	160	0	15.8	15.6	13.6	61.1	84.5	91.0	105.4
Ideal	96	21	162	0	14.8	14.3	13.3	61.7	92.0	93.9	105.3
Jerry	96	26	163	0	14.8	14.8	13.2	61.3	105.3	101.5	103.8
AC Gateway	98	22	164	0	16.1	15.1	14.0	63.0	97.0	89.4	102.2
Northern	93	21	165	0	15.9	14.7	13.2	62.0	94.0	103.1	102.2
Yellowstone	98	23	165	0	14.5	13.8	-	61.9	106.0	109.5	-
FourOSix	91	25	165	0	14.4	14.3	-	62.2	111.7	108.6	-
CDC Chase	94	26	165	0	14.9	14.1	-	62.4	105.7	107.1	-
AAC Wildfire	98	25	167	0	14.4	14.0	-	62.3	109.6	104.9	-
ND Noreen	95	25	163	0	15.2	14.9	-	63.3	101.8	104.1	-
Loma	85	21	166	1	15.2	14.4	-	61.8	104.2	103.6	-
AAC Goldrush	97	25	165	0	15.8	14.5	-	62.1	96.1	96.5	-
Redfield	98	20	161	0	15.5	15.0	-	61.1	86.1	91.4	-
Keldin	96	20	164	0	15.0	-	-	61.2	98.6	-	-
TCG Boomlock	95	21	161	1	15.7	-	-	61.9	97.6	-	-
CP7017AX	94	19	158	1	13.6	-	-	61.5	79.3	-	-
CP7909	84	20	157	3	14.1	-	-	61.6	67.9	-	-
CP7050AX	93	19	155	3	16.1	-	-	61.7	54.7	-	-
MEAN	94.2	22.4	162.6	0.5	15.03	14.49	13.27	61.81	94.92	100.31	107.29
C.V. (%)	7.5	10.7	1.1	204.9	3.34	-	-	0.76	16.09	-	-
LSD (5%)	10.0	3.4	2.5	1.4	0.71	-	-	0.67	21.58	-	-
LSD (10%)	8.4	2.8	2.1	1.2	0.59	-	-	0.56	18.03	-	-

+ Days after January 1, 2020 * 0: no lodging - 9: plants lying flat on the ground † Protein content adjusted to 0% moisture

‡ 2-Yr average from 2019 and 2020 ¥ 3-Yr average from 2017, 2019, and 2020

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

Elevation: 1902 ft

Soil test (0-6 in.): P=18 ppm; K=216 ppm; pH=7.7; OM=2.4 %

Previous crop: Field Pea

(0-24 in.): NO₃-N=21 lb/a

Planted: 9/24/2019

Yield goal: 120 bu/a

Harvested: 8/3/2020

Planting population: 1.5 million seeds/a

Soil type: Lihen Loamy Fine Sand

Fertilizer applied: 330 lb/a of Urea (46-0-0) [4/30]

Plot size: 92 ft²

Herbicides applied: Perfect Match (1pt/a), and Class Act (2qt/100gal) [5/26]

Rainfall: 6.3 inches [9/24 - 8/3]

Fungicide applied: Prosaro 421 (8oz/a) [6/29]

Irrigation: 11.85 in [9/24 - 8-3]