

Spring Wheat Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2018

Variety	Plant Height (in)	Days to Head (DAP*)	Lodging (0 - 9*)	Protein†			Test Weight (lb/bu)	Yield		
				2018 (%)	2-Yr Avg (%)	3-Yr Avg (%)		2018 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
Prestige	32	57	0	14.2	14.3	14.1	61.0	93.5	99.4	101.0
HRS 3419	30	56	0	14.3	14.3	14.0	60.2	92.0	98.7	99.9
MS Chevelle	28	48	1	14.8	14.6	14.4	61.5	88.2	98.7	94.6
SY Ingmar	29	50	0	15.6	15.3	15.4	62.0	84.8	98.1	93.6
Faller	31	48	1	14.5	14.6	14.6	61.1	83.9	100.4	93.3
HRS 3530	31	52	1	15.5	15.4	14.9	60.6	86.3	95.1	93.2
Prosper	31	53	0	15.4	14.9	15.1	60.9	80.1	97.0	92.4
Elgin-ND	34	51	1	16.0	15.6	15.8	60.8	82.1	92.8	91.8
LCS Iguacu	28	51	0	14.1	13.9	13.9	61.3	77.0	96.3	91.4
Reeder	30	49	1	16.3	15.9	15.9	61.2	84.7	96.7	91.3
Mott	33	51	0	16.3	16.3	15.9	61.0	87.4	95.0	89.9
Velva	30	51	0	15.2	15.3	15.3	61.1	85.6	93.6	89.8
Redstone	31	57	0	14.3	14.8	15.2	61.2	89.8	99.9	89.7
SY Valda	29	50	1	14.8	14.7	15.1	61.1	84.9	98.6	89.2
Steele-ND	33	48	1	15.8	15.6	15.8	61.9	82.6	94.8	88.5
SY Soren	27	49	0	16.1	15.6	15.5	62.3	76.1	93.7	88.3
Bolles	29	53	0	17.7	17.3	17.4	60.3	77.4	92.5	88.1
LCS Prime	29	48	1	14.5	14.4	14.7	62.4	84.2	100.3	87.7
Prevail	30	50	0	14.8	14.5	14.8	60.9	82.6	94.4	87.6
Rollag	30	49	1	15.6	15.4	15.7	62.1	79.4	94.1	87.5
Linkert	27	50	0	16.3	15.9	16.1	61.6	77.6	94.5	86.9
Barlow	30	48	1	16.4	16.1	16.2	61.3	76.6	89.2	85.0
Egan	32	52	1	16.9	16.9	16.9	59.2	76.1	86.3	84.4
Glenn	31	47	1	16.0	16.2	16.2	63.4	82.7	90.5	83.6
LCS Anchor	26	48	0	16.7	16.2	16.1	61.4	68.2	88.3	79.3
TCG-Spitfire	30	52	0	14.2	13.9	-	61.9	103.5	109.7	-
SY Rockford	30	52	0	15.2	15.0	-	60.5	89.5	102.4	-
LCS Trigger	31	57	0	13.3	13.5	-	61.6	91.1	99.9	-
HRS 3504	27	50	0	15.0	14.7	-	59.8	85.5	94.4	-
LCS Rebel	33	48	1	16.1	16.0	-	62.5	87.9	93.4	-
Surpass	29	47	1	15.5	15.1	-	61.2	75.5	92.9	-
TCG-Climax	30	54	0	17.0	17.1	-	62.9	81.2	91.0	-
ND-VitPro	29	49	0	16.1	15.9	-	62.7	76.6	89.7	-
MS Camaro	26	48	1	16.9	16.3	-	60.8	67.8	87.6	-
Boost	30	52	0	16.0	15.9	-	60.6	79.0	87.5	-
WB9653	27	49	0	14.7	15.0	-	60.4	91.5	83.9	-
Lanning	30	52	0	16.1	-	-	59.8	89.1	-	-
NDHRS16-13-13	31	50	1	16.0	-	-	60.9	84.1	-	-
ND828	31	51	1	16.0	-	-	62.3	83.8	-	-
NDHRS16-13-97	31	48	1	15.4	-	-	61.6	83.1	-	-
Shelly	27	52	0	14.5	-	-	61.5	82.9	-	-
NDHRS16-13-89	29	47	1	16.2	-	-	62.2	81.7	-	-
SY Rowyn	27	48	1	15.0	-	-	60.6	80.2	-	-
Dyna-Gro Caliber-1667	25	50	0	16.2	-	-	61.1	78.7	-	-
LCS Cannon	27	47	1	15.6	-	-	62.9	73.2	-	-
LCS Breakaway	27	48	0	16.4	-	-	61.8	71.6	-	-
TCG-Glenville	26	48	0	16.6	-	-	62.2	67.8	-	-
MEAN	30.1	50.5	0.4	15.52	15.37	15.40	61.27	82.19	94.97	89.80
C.V. (%)	-	-	-	2.28	-	-	0.81	6.11	-	-
LSD (5%)	-	-	-	0.56	-	-	0.69	7.05	-	-
LSD (10%)	-	-	-	0.47	-	-	0.58	5.91	-	-

* Days after planting † 0: no lodging - 9: plants lying flat on the ground † Protein content adjusted to 12% moisture

Location: Latitude 48 9.9222N; Longitude 103 6.132W

Elevation: 1902 ft

Soil test to (0-6"): P=23 ppm; K=160 ppm; pH=7.6; OM=1.9%

Previous crop: Potato

(0-24"): NO3-N= 20 lb/a

Planted: 5/4/2018

Yield goal: 90 bu/a

Harvested: 8/16/2018

Planting population: 1.5 million seeds/a

Soil Type: Lihen Loamy Fine Sand

Applied fertilizer in lb/a broadcast: 333 lbs of 46-0-0 (4/25/2018), and 76 lbs of 46-0-0 (6/4/2018)‡

Plot size: 92 ft²

Herbicides applied: Axial XL 10.5 oz/a, Starane 10.5 oz/a, and Bison 2 pt/a (5/24/2018)

Rainfall: 8.5 in (5/4/2018 - 8/16/2018)

Fungicides applied: Prosaro 421 8 oz/a (7/3/2018)

Irrigation: 8.0 in (5/4/2018 - 8/16/2018)

‡ Additional fertilizer applied due to a 2.44 inch rainfall on June 1st