

Barley 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)	Plump % >6/64	Yield		
				2018 (%)	2-Yr Avg (%)	3-Yr Avg (%)			2018 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
<b>Six Row</b>											
Tradition	29	53	0	14.6	14.6	14.6	52.7	86	109.2	134.6	117.3
Quest	29	52	1	15.1	14.9	15.0	52.4	86	105.4	130.8	116.8
Lacey	30	51	0	14.5	14.5	14.7	52.8	90	109.2	130.6	116.2
Celebration	30	52	1	16.0	15.4	15.5	51.8	85	118.4	131.1	115.4
Stellar-ND	29	51	0	13.9	14.1	14.3	50.8	89	108.9	125.5	110.6
Innovation	25	52	0	15.1	15.1	14.7	50.6	86	119.7	102.9	-
<b>Two Row</b>											
CDC Meredith	29	58	2	14.6	14.4	14.3	52.0	88	111.3	121.3	117.6
ND Genesis	27	54	0	12.8	13.0	13.0	53.2	93	98.2	114.6	110.1
Pinnacle	30	52	0	13.3	13.1	13.1	54.2	93	100.3	114.5	107.4
Hockett	30	54	2	13.6	14.1	13.9	53.8	86	95.6	114.9	107.2
Conlon	29	49	0	14.5	14.8	15.2	52.5	93	87.4	111.9	102.9
ABI Balster	31	57	1	14.7	14.4	14.4	52.2	86	105.2	131.9	-
AAC Synergy	31	59	1	14.5	14.2	14.2	52.9	92	105.4	125.4	-
LCS Odyssey	24	61	1	13.9	13.4	13.4	51.3	88	105.4	122.7	-
LCS Genie	26	61	1	15.2	14.2	14.2	50.8	76	101.2	122.3	-
ABI Growler	28	55	1	15.3	14.8	14.8	50.7	85	106.4	121.6	-
Sirish	26	61	0	14.2	14.1	14.1	51.9	90	94.2	118.8	-
Explorer	23	57	0	15.1	14.8	14.8	52.1	85	75.3	109.9	-
<b>MEAN</b>	28.2	54.8	0.6	14.50	14.33	14.34	52.15	87.6	103.14	121.40	112.14
<b>C.V. (%)</b>	-	-	-	4.30	-	-	1.03	3.02	13.20	-	-
<b>LSD (5%)</b>	-	-	-	0.74	-	-	0.64	3.14	16.13	-	-
<b>LSD (10%)</b>	-	-	-	0.88	-	-	0.76	3.76	19.33	-	-

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

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

Elevation: 1902 ft

Soil test to (0-6"): P=7 ppm; K=153 ppm; pH=7.5; OM=2.1%

Previous crop: Soybean

(0-24"): NO3-N= 8 lb/a

Planted: 5/2/2018

Yield goal: 120 bu/a

Harvested: 8/14/2018

Planting population: 1.25 million seeds/a

Soil Type: Lihen Loamy Fine Sand

Applied fertilizer in lb/a broadcast: 257 lbs of 46-0-0 (4/27), and 76 lbs of 46-0-0 (6/4)‡

Plot size: 92 ft<sup>2</sup>

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 (5/2/2018 - 8/14/2018)

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

Irrigation: 7.2 in (5/2/2018 - 8/14/2018)

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