

Barley Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2020

Variety	Plant Height (in)	Days to Head (DAP*)	Lodging (0 - 9+)	Protein [†]			Test Weight (lb/bu)	Plump % (>6/64)	Yield		
				2020 (%)	2-Yr Avg (%)	3-Yr Avg (%)			2020 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
TWO ROW											
ND Genesis	31	56	0	11.5	12.5	12.6	55.2	71.6	139.1	135.8	123.3
Pinnacle	31	56	0	11.0	12.3	12.7	56.5	73.0	125.4	132.6	121.8
AAC Synergy	28	60	0	12.7	13.9	14.1	55.4	72.5	128.7	125.1	118.5
Explorer	23	59	0	12.1	13.2	13.8	55.4	71.5	121.9	130.2	111.9
Hockett	28	57	1	12.9	14.0	13.9	55.8	69.8	115.9	119.6	111.6
Conlon	29	51	0	13.2	13.7	14.0	55.2	73.0	114.3	113.0	104.4
AAC Connect	29	58	0	12.9	13.6	-	54.8	71.2	130.4	135.7	-
CDC Bow	30	60	0	12.7	-	-	55.3	72.4	137.8	-	-
SIX ROW											
Celebration	31	56	0	13.1	14.3	14.9	54.8	70.2	153.6	145.3	136.4
Innovation	29	55	0	12.0	13.3	13.9	54.1	71.9	145.8	136.6	131.0
Tradition	32	55	0	13.2	13.9	14.1	55.1	71.4	139.5	141.5	130.7
MEAN	29.2	56.5	0.1	12.49	13.47	13.77	55.23	71.69	132.04	131.53	121.06
C.V. (%)	6.3	1.9	328.0	3.97	-	-	0.78	1.22	10.85	-	-
LSD (5%)	2.7	1.6	0.3	0.84	-	-	0.74	1.99	20.69	-	-
LSD (10%)	2.2	1.3	0.3	0.70	-	-	0.61	1.65	17.20	-	-

* 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 (0-6 in.): P=18 ppm; K=242 ppm; pH=7.5; OM=2.2%

Previous crop: Field Pea

(0-24 in.): NO3-N=17 lb/a

Planted: 4/29/2020

Yield goal: 120 bu/a

Harvested: 8/10/2020

Planting population: 1.25 million seeds/a

Soil type: Lihen Loamy Fine Sand

Fertilizer applied: 200 lb/a Urea [4/30]

Plot size: 92 ft²

Herbicides applied: Aim (0.5oz/a), Bison (1.5pt/a), Axial XL (16oz/a), Class Act (1qt/100gal) [5/29]

Rainfall: 4.4 inches [4/29 - 8/10]

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

Irrigation: 11.85 in [4/29 - 8/10]