

Barley Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2019

Variety	Plant Height (in)	Days to Head (DAP*)	Lodging (0 - 9+)	Protein†			Test Weight (lb/bu)	Plump % >6/64	Yield		
				2019 (%)	2-Yr Avg (%)	3-Yr Avg (%)			2019 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
Six Row											
Tradition	35	62	1	14.6	14.6	14.6	51.0	81	143.4	126.3	137.5
Lacey	37	61	0	15.1	14.8	14.7	52.3	82	142.7	126.0	134.7
Celebration	36	60	3	15.6	15.8	15.5	51.3	79	137.1	127.7	133.1
Innovation	36	71	4	14.5	14.8	14.8	51.9	91	127.4	123.6	-
Two Row											
ABI Balster	32	67	3	14.5	14.6	14.4	50.6	82	133.8	119.5	132.5
AAC Synergy	34	69	4	15.1	14.8	14.5	50.2	82	121.4	113.4	124.1
Pinnacle	36	62	2	13.6	13.5	13.3	52.3	92	139.8	120.0	122.9
ND Genesis	26	63	1	13.4	13.1	13.1	52.6	97	132.5	115.3	120.6
Explorer	29	66	1	14.2	14.6	14.6	50.7	84	138.5	106.9	119.4
Hockett	29	64	5	15.0	14.3	14.4	51.3	78	123.4	109.5	117.7
Conlon	32	59	1	14.3	14.4	14.6	53.8	98	111.6	99.5	111.8
AAC Connect	34	65	0	14.4	14.4	14.4	51.9	91	141.0	-	-
MEAN	32.9	64.0	2.0	14.54	14.49	14.42	51.64	86.0	131.97	117.07	125.43
C.V. (%)	13.6	2.1	99.9	4.08	-	-	2.22	8.4	9.28	-	-
LSD (5%)	6.4	2.0	2.7	0.85	-	-	1.65	10.4	17.72	-	-
LSD (10%)	5.4	1.6	2.2	0.71	-	-	1.37	8.7	14.74	-	-

* 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=22 ppm; K=177 ppm; pH=7.9 ; OM=2.2%

Previous crop: Field Pea

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

Planted: 4/24/2019

Yield goal: 120 bu/a

Harvested: 8/14/2019

Planting population: 1.25 million seeds/a

Soil type: Lihen Loamy Fine Sand

Applied fertilizer: 265 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, and Tacoma .66 pt/a (6/5)

Rainfall: 9.4 inches (4/24 - 8/14)

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