

Barley Dryland Variety Trial - NDSU

WREC, Williston, ND 2019

Variety	Days to heading (DAP ¹)	Plant height (in)	Plumps (%)	Thins (%)	Protein [†] (%)	Test weight (lb/bu)	Yield [#]		
							2019	2-Yr Avg*	3-Yr Avg**
Two-Row									
ABI Balster	63.3	25.7	87.3	1.6	10.1	52.6	106.4	83.9	75.0
ND Genesis	61.3	26.4	92.8	0.5	9.9	52.6	109.5	82.0	74.4
Pinnacle	63.0	27.8	95.9	0.5	10.0	54.0	109.4	83.6	73.2
Explorer	60.7	19.9	89.0	1.4	9.1	52.2	105.7	79.0	71.8
Hockett	63.0	28.0	86.7	1.6	10.0	54.2	99.0	74.1	70.3
AAC Synergy	62.5	25.7	94.5	0.7	11.5	52.2	75.7	71.3	66.6
Conlon	58.3	26.0	96.0	0.5	11.5	54.1	92.6	70.8	62.0
CDC Bow	61.0	25.0	93.5	0.7	10.3	53.0	97.9	-	-
AAC Connect	61.0	23.6	85.1	2.0	10.8	51.8	95.2	-	-
Six-Row									
Lacey	59.3	25.7	87.6	0.6	11.9	52.9	85.6	65.8	62.8
Tradition	62.0	24.8	88.7	0.7	11.9	52.6	73.4	63.5	61.1
Mean	60.8	25.0	91.9	0.9	10.7	52.9	99.2	-	-
CV (%)	3.1	6.9	1.5	23.1	6.4	1.0	8.9	-	-
LSD (5%)	3.1	2.9	2.2	0.4	1.1	0.9	14.7	-	-
LSD (10%)	2.6	2.4	1.8	0.3	0.9	0.7	12.2	-	-

Location: WREC; Latitude 48° 8' N; Longitude 103° 44' W; Elevation 2105 ft.

Previous crop: soybeans

Planted: 4/26/2019

Harvested: 8/9/2019

Soil test to 6" in ppm: P=24 ppm K=363 OM=2.0 pH=5.7

Soil type: Williams-Bowbells loam.

Soil test to 24" in lb/a: N=37.5 lb/a

Applied fertilizers in lb/a: N=57.2; P=24; K=0; S=6; Zn=0.6 (60 lbs of MESZ with seed, 108 lbs of Urea broadcast)

[†]Protein adjusted to 0% moisture.

[#]Yield reported on a 13.5% moisture basis.

*Averages of years 2018 and 2019. **Averages of years 2017, 2018, and 2019.

¹DAP = Days after planting.

Herbicide applications: Valor @ 3 oz/a with LV6 @ 1 pt/a (10/22/18) ; Supremacy @ 5 oz/a with Axial XL @ 16 oz/a (6/13/2019)