

Barley Dryland Variety Trial - NDSU

WREC, Williston, ND 2018

Variety	Days to heading (DAP ¹)	Plant height (in)	Plumps (%)	Protein [†] (%)	Test weight [‡] (lb/bu)	Yield [#] ------(bu/a)-----		
						2018	2-Yr Avg*	3-Yr Avg**
Six-rowed								
Innovation	57	17.5	95.0	13.9	52.6	54.7	63.9	57.9
Quest	56	21.0	90.9	15.2	53.1	54.4	62.5	57.9
Tradition	55	19.8	93.4	15.4	53.1	53.6	67.1	60.9
Celebration	58	18.6	94.6	15.6	52.9	51.7	73.6	62.2
Lacey	59	16.3	95.2	14.0	53.4	45.9	67.2	59.0
Stellar-ND	60	16.1	95.4	14.3	52.4	41.6	62.9	58.2
Two-rowed								
AAC Synergy	55	18.6	95.2	12.5	53.5	67.0	69.5	-
LCS Genie	73	17.1	90.7	14.6	53.9	65.3	71.8	-
ABI Balster	71	17.7	90.8	14.1	53.6	61.3	66.8	-
Sirish	70	17.8	93.5	15.3	54.6	58.7	67.0	-
Pinnacle	57	17.2	90.7	13.2	53.2	57.8	67.9	65.6
ABI Growler	69	17.1	90.9	14.7	52.9	54.9	64.2	-
ND Genesis	60	20.5	90.7	13.2	52.8	54.5	68.1	59.5
Explorer	70	15.9	95.6	13.4	53.5	52.3	-	-
Hockett	70	18.1	92.7	14.4	55.2	49.2	69.8	63.5
Conlon	61	18.9	96.7	14.7	54.7	49.1	57.8	50.5
Mean	63	18.0	93.2	14.3	53.5	54.5	-	-
CV (%)	4.7	8.6	2.7	5.8	1.3	10.7	-	-
LSD (5%)	4.7	2.5	4.2	1.3	1.2	9.6	-	-
LSD (10%)	3.9	2.1	3.5	1.1	1.0	8.0	-	-

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

Previous crop: Cover Crop.

Planted: 04/25/2018.

Harvested: 08/15/2018.

Soil test (0-6"): P=22 ppm; K=350 ppm; pH=5.9; OM=2.6%.

Soil type: Williams-Bowbells loam.

(0-24"): NO3-N=53 lb/a.

Applied fertilizers in lb/a: N=36; P₂O₅=26; K₂O=0.[†]Protein adjusted to 0% moisture.[‡]Test weight reported on a 13.5% moisture basis.[#]Yield reported on a 13.5% moisture basis.

*Averages of years 2016 and 2017. **Averages of years 2015, 2016, and 2017.

¹DAP = Days after planting.**Note: Trial received heavy rain, wind, and hailstorms that damaged the crop and adversely affected yield.**

06/23/2018: Wind speed=46 mph; Precipitation=1.53".

06/28/2018: Wind speed=61 mph; Precipitation=0.94"; Hail.

07/09/2018: Wind speed=48 mph; Precipitation=1.67".