2019 North Dakota Barley Variety Descriptions

Variety	Use[1]	Origin[2]	Year Released	Awn Type[3]	Rachilla Hair Length[4]	Aleurone Color	Height (inch)	Days to Head	Straw Stength[5]	Reaction toi Disease[6] Stem Rust	Spot form Blotch	Spot Blotch	Net Blotch
2 Row Types													
AAC Connect	M/F	Meridian	2017	R	L	White	27	62	3	4	5	4	5
AAC Synergy	M/F	Syngenta	2015	R	L	White	27	63	5	4	3	4	4
ABI Balster	M/F	BARI	2015	R	L	White	27	64	6	NA	4	8	NA
Conlon[7]	M/F	ND	1996	S	L	White	27	57	7	8	4	6	3
Explorer	M	Secobra	NA	R	L	White	25	61	4	NA	NA	8	4
ND Genesis	M/F	ND	2015	S	L	White	29	61	5	8	4	4	6
Pinnacle	M/F	ND	2006	S	L	White	29	60	6	8	8	4	6
6 Row Types													
Lacey	M/F	MN	2000	S	S	White	30	58	4	8	4	3	7
Tradition	M/F	BARI	2003	S	L	White	30	58	3	8	6	3	7

[1] M = malting; F = feed.

[2] BARI = Busch Agricultural Resources Inc.; MN = University of Minnesota; ND = North Dakota State University.

[3] R = rough; S = smooth.

[4] S = short; L = long.

[5] Straw Strength scores from 1-9, with 1 = strongest and 9 = weakest.

[6] Disease reaction scores from 1-9, with 1 = resistant and 9 = very susceptible, NA – not available.

[7] Lower DON accumulations than other varieties tested.

-NDSU Publication A1049-19 at https://www.ag.ndsu.edu/publication

Barley Variety Trial at Minot

Variety	Days to Head	Plant Height	Lodging	% Plump	% Thin	Test Weight	Protein	Grain Yield 2017	2018	2019	2 Year	3 Year
	DAP[1]	inches	0-9[2]	>6/64	<5/64	lbs/bu	%	bu/A				
2 Row Types												
Explorer	69	25	0	97	0	48.3	10.8	72.6	103.1	110.1	106.6	95.3
Pinnacle	66	32	0	98	0	47.5	9.3	72.4	102.1	110.8	106.5	95.1
ND Genesis	68	29	0	97	0	46.8	10.3	77.6	98.0	109.6	103.8	95.1
ABI Balster	69	29	0	98	0	49.1	10.2	79.6	93.8	108.3	101.1	93.9
AAC Synergy	70	33	0	98	0	47.7	10.1	69.2	103.8	106.6	105.2	93.2
Conlon	65	29	0	98	0	49.5	11.6	72.0	82.2	105.5	93.9	86.6
AAC Connect	69	32	0	97	0	48.5	10.9			114.7		
6 Row Types												
Tradition	64	31	0	98	0	49.5	12.2	68.6	106.2	98.6	102.4	91.1
Lacey	64	32	0	98	0	48.7	11.6	64.0	98.2	96.8	97.5	86.3
Trial Mean	66	30	0	98	0	48.0	10.5	70.8	98.1	105.6		
C.V.%	1.1	2.7	0	0.5	80	1.6	6.1	7.6	5.5	5.5	--	--
LSD 5%	2	2	NS	1	NS	1.3	1.1	8.8	8.9	9.8	--	--
LSD 10%	2	2	NS	1	NS	1.1	0.9	7.4	7.4	8.1	--	--

[1] DAP = Days after planting. *[2] Lodging: 0 = none, 9 = lying flat on the ground.*

NS = no statistical difference between varieties.

Planted on April 24 with a seeding rate of 1 million PLS/A and harvested on August 8.

Previous Crop: 2016 = canola, 2017 & 2018 = soybean.

Tillage: No-till

Soil Type: Williams Loam