

**NDSU North Central Research Extension Center**

**2017 Barley Variety Trial at Garrison**

Cooperator: Mike Zimmerman, Garrison

Variety	Plant Height inches	Lodging 0-9*	% Plump >6/64	% Thin <5/64	Test Weight lbs/bu	Protein %	Grain Yield				
							2015	2016	2017	Average 2 yr 3 yr	
<b>6 Row Types</b>											
Tradition	21	0	61	39	41.6	15.5	57.6	89.8	41.3	65.6	62.9
Lacey	18	0	72	28	42.9	15.8	57.1	87.5	35.5	61.5	60.0
<b>2 Row Types</b>											
ND Genesis	20	0	76	24	42.6	14.3	76.2	94.5	40.0	67.3	70.2
CDC Meredith	21	0	66	34	40.5	15.4	--	96.3	43.4	69.9	--
LCS Odyssey	19	0	77	23	43.1	14.8	--	--	44.2	--	--
AAC Synergy	20	0	69	31	42.7	15.6	--	--	40.6	--	--
Trial Mean	20	0	70	30	42.2	15.2	61.4	91.8	40.8	--	--
C.V.%	6.5	0	13.7	32	3.6	5.0	6.2	5.9	17.1	--	--
LSD 5%	2	NS	NS	NS	2.3	NS	5.8	8.1	NS	--	--
LSD 10%	2	NS	NS	NS	1.9	0.9	4.7	6.7	NS	--	--

\*Lodging: 0 = none, 9 = lying flat on the ground.

NS = no statistical difference between varieties.

Planted on April 27 with a seeding rate of 1 million PLS/A and harvested on August 8.

Previous Crop: 2014 = barley, 2015 = canola, 2016 = barley.

Tillage: no-till

Soil Type: Williams Bowbells loam

Note: The 2017 trial sustained severe drought.

**2017 Barley Variety Trial at Wilton**

Cooperator: Rod Binstock, Baldwin

Variety	Plant Height inches	Lodging 0-9*	% Plump >6/64	% Thin <5/64	Test Weight lbs/bu	Protein %	Grain Yield				
							2015	2016	2017	Average 2 yr 3 yr	
<b>6 Row Types</b>											
Tradition	25	0	51	48	42.1	17.7	95.6	89.8	58.9	74.3	81.4
Lacey	24	0	46	53	40.7	18.1	94.8	87.5	38.5	63.0	73.6
<b>2 Row Types</b>											
ND Genesis	24	0	74	25	43.9	15.9	96.9	94.5	34.4	64.5	75.3
CDC Meredith	26	0	45	54	39.4	18.8	--	96.3	53.7	75.0	--
AAC Synergy	24	0	45	54	41.7	19.2	--	--	54.0	--	--
LCS Odyssey	23	0	62	36	42.9	17.8	--	--	42.3	--	--
Trial Mean	24	0	54	45	41.8	17.9	--	--	47.0	--	--
C.V.%	6.3	0	19.4	23	3.1	4.6	--	--	12.9	--	--
LSD 5%	2	NS	16	16	1.9	1.2	--	--	9.1	--	--
LSD 10%	2	NS	13	13	1.6	1.0	--	--	7.5	--	--

\*Lodging: 0 = none, 9 = lying flat on the ground.

NS = no statistical difference between varieties.

Planted on April 27 with a seeding rate of 1.5 million PLS/A and harvested on August 8.

Previous Crop: 2014 = wheat, 2015 = soy, 2016 = wheat.

Tillage: no-till

Soil Type: Williams loam

Note: The 2017 trial sustained severe drought and moderate hail injury.