

NORTH DAKOTA STATE UNIVERSITY
Williston Research Extension Center

Barley Irrigated Variety Trial									WREC, Nesson Valley, ND 2016		
Variety	Origin	Year of release	Plant height (in)	Days to head (DAP)	Lodging (0-9*)	Protein† (%)	Test weight (lb/bu)	Plumps (%)	Yield		
									2016 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
Two Row											
Pinnacle	ND	2006	28	65	0	13.1	52.6	91.7	93.3	115.6	118.4
Conrad	BAR	2007	26	68	0	14.5	50.4	85.1	92.6	115.3	117.2
Hockett	MT	2008	26	66	0	13.6	53.1	89.8	91.9	109.7	114.3
AC Metcalfe	Canada	1997	28	67	0	15.0	52.0	85.9	88.1	101.8	105.4
Conlon	ND	1996	26	65	0	16.1	52.8	91.1	85.0	85.7	95.4
ND Genesis	ND	2015	28	66	0	13.1	51.7	86.6	101.1	115.5	-
CDC Copeland	Canada	1999	28	70	0	13.4	50.7	84.9	92.9	115.0	-
CDC Meredith	Canada	2008	28	69	0	13.9	51.3	89.0	110.1	-	-
Lilly	Germany		22	68	0	13.0	51.1	87.3	92.6	-	-
Scarlett	Germany	1995	24	71	0	13.9	52.1	92.3	89.7	-	-
Harrington	Canada	1981	26	70	1	14.1	49.9	76.6	81.9	-	-
Six Row											
Quest	MN	2010	27	65	0	15.0	51.0	88.2	88.8	103.8	113.4
Innovation	BAR	2009	24	64	0	14.3	48.7	92.4	86.0	103.5	112.7
Tradition	BAR	2003	28	64	0	14.6	51.4	91.3	82.6	100.4	112.2
Lacey	MN	1999	27	65	0	15.1	51.2	89.3	87.4	101.0	111.2
Stellar-ND	ND	2005	27	64	0	14.7	50.8	92.7	80.7	98.5	108.8
Celebration	BAR	2008	28	65	0	15.6	52.0	92.1	83.9	95.7	107.5
Rasmusson	MN	2008	27	64	0	14.5	51.3	89.6	95.1	-	-
Mean			26.5	66.2	0.1	14.3	51.3	88.7	90.2	104.7	110.6
C.V.			5.9	1.4	328.0	3.9	1.5	3.7	8.4	-	-
LSD 5%			2.2	1.3	0.3	2.4	NS	15.1	17.0	-	-
LSD 10%			1.8	1.1	0.3	2.0	NS	12.6	14.2	-	-

Location: Latitude 48 9.9222°N; Longitude 103 6.132°W; Elevation 1902 ft

Planted: 4/13/2016

Plot size: 91.875 ft²

Applied fertilizer in lbs/a broadcast: 260 lbs/a of 46-0-0

Soil test to 6": 13-ppm P, 152- ppm K, OM-1.8, pH-7.7

Soil test to 2' : 30 lbs of N

Yield goal: 120 bu/a

Planting population: 1.25 million seeds/a

Herbicides applied: Starane 10 oa/a + Tacoma 1EC 10 oz/a + Bison 1.5 pt/a (5/17/2016)

Rainfall: 8.70 in. (4/13/2016 - 8/2/2016)

Irrigation: 6.8 in. (4/13/2016 - 8/2/2016)

Days after planting

*0: no lodging - 9: plants lying flat on ground

†Protein content adjusted to a 12% moisture

Previous crop: Soybean

Harvested: 8/2/2016

Soil type: Lihen Loamy Fine Sand