

Barley Irrigated Variety Trial - NDSU
WREC, Nesson Valley, ND 2017

Variety	Origin	Plant height	Days to head	Lodging	Protein†	Test weight	Plump %	Yield		
								2017	2-Yr Avg	3-Yr Avg
		(in)	(DAP+)	(0-9*)	(%)	(lb/bu)	>6/64	(bu/a)	(bu/a)	(bu/a)
Six Row										
Quest	U of MN	35	55	0	14.8	51.6	88	156.2	122.5	121.3
Tradition	BAR	37	53	0	14.6	50.6	92	160.0	121.3	120.3
Lacey	U of MN	37	55	0	14.5	51.0	89	152.0	119.7	118.0
Stellar-ND	NDSU	33	54	0	14.2	49.8	95	142.1	111.4	113.0
Celebration	BAR	37	55	0	14.8	50.9	88	143.8	113.8	111.7
Two Row										
CDC Copeland	Canada	38	63	1	13.8	52.0	90	153.5	123.2	127.8
ND Genesis	NDSU	32	53	0	13.2	51.9	96	131.0	116.0	120.7
Pinnacle	NDSU	33	51	0	13.0	52.1	94	128.7	111.0	119.9
Hockett	MSU	30	58	4	14.6	51.4	86	134.2	113.0	117.9
AC metcalfe	Canada	31	57	1	15.0	51.3	85	142.8	115.5	115.5
Conlon	NDSU	32	49	0	15.1	51.9	93	136.4	110.7	102.6
CDC Meredith	Canada	35	63	8	14.3	49.2	83	131.4	120.7	-
ABI Balster	BAR	31	57	0	14.1	50.8	91	158.6	-	-
AAC Synergy	Syngenta	30	59	0	13.8	51.2	93	145.5	-	-
Explorer	SECOBRA	26	59	1	14.5	51.5	91	144.4	-	-
Sirish	Syngenta	29	62	0	14.1	51.0	89	143.4	-	-
LCS Genie	Limagrain	28	64	0	13.2	50.5	87	143.4	-	-
LCS Odyssey	Limagrain	29	63	0	12.9	51.2	93	139.9	-	-
ABI Growler	BAR	32	59	0	14.2	49.0	88	136.8	-	-
Mean		32.4	57.2	0.7	14.14	50.99	90.1	143.38	116.58	117.16
C.V. (%)		-	-	-	6.36	1.67	5.84	10.57	-	-
LSD (5%)		-	-	-	0.32	0.30	1.85	5.36	-	-
LSD (10%)		-	-	-	0.42	3.03	1.15	6.42	-	-

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

Planted: 4-28-2017

Residue at planting: Conventional Till

 Plot size: 87.5 ft²

Soil test to (0-6"): P=20 ppm; K=206 ppm; pH=7.8; OM=2.5%

 (0-24"): NO₃-N=54 lb/a

Applied fertilizer in lb/a broadcast: 217 lbs of Urea (46-0-0)

Yield goal: 120 bu/a

Planting population: 1.25 million seeds/a

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

Fungicides applied: Prosaro 421 SC 8 oz/A (6/29/2017)

Rainfall: 4.57 in. (4/28/2017 - 8/8/2017)

Irrigation: 11.85 in (4/28/2017 - 8/8/2017)

*Days after planting

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

†Protein content adjusted to a 0% moisture

Previous crop: Pea

Harvested: 8-8-2017

Soil type: Lihen Loamy Fine Sand