

NORTH DAKOTA STATE UNIVERSITY
Williston Research Extension Center

Durum Wheat Irrigated Wheat Variety Trial

WREC, Nesson Valley, ND 2017

Variety	Origin	Year of release	Plant height (in)	Days to head (DAP+)	Lodging (0-9*)	Protein† (%)	Test weight (lb/bu)	Yield		
								2017 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
ND Riveland	NDSU	2017	38	60	0	16.4	60.3	112.4	99.3	94.4
Tioga	NDSU	2010	40	58	0	16.7	60.4	97.4	87.7	88.3
Mountrail	NDSU	1998	37	59	0	16.5	60.5	99.3	88.7	88.0
Carpio	NDSU	2012	39	60	0	16.8	60.9	106.1	89.3	87.7
Joppa	NDSU	2013	38	60	0	15.9	61.0	102.8	85.2	87.5
Grenora	NDSU	2005	35	58	0	16.0	58.9	99.0	87.0	86.0
VT Peak	Viterra	2010	36	57	0	16.3	61.7	102.0	90.5	86.0
CDC Verona	Canada	2010	37	59	0	17.1	59.6	99.7	83.0	85.1
Divide	NDSU	2005	38	60	0	16.9	60.9	97.9	82.7	84.4
Pierce	NDSU	2001	41	60	0	16.3	61.4	94.1	84.2	84.1
Alkabo	NDSU	2005	34	57	0	15.4	60.5	101.5	81.7	82.3
Strongfield	Canada	2004	38	60	0	17.7	59.6	90.1	80.5	81.4
DG Max	DGP	2008	36	58	0	17.2	60.3	88.6	78.8	81.0
Maier	NDSU	1998	38	60	0	17.8	60.9	100.1	80.6	80.8
Lebsock	NDSU	1999	33	57	0	16.4	60.1	88.6	78.5	78.9
AC Navigator	Canada	1999	33	60	0	16.3	61.2	90.3	76.1	78.8
AC Commander	Canada	2002	29	59	0	15.8	59.6	86.7	75.3	77.0
Ben	NDSU	1996	38	58	0	16.4	60.6	84.9	75.2	76.0
Alzada	WB	2004	29	56	0	16.1	59.0	90.5	72.9	74.5
Rugby	NDSU	1973	42	59	1	16.8	59.9	89.5	72.6	74.2
Silver	MSU	2012	28	53	0	16.1	58.0	90.9	75.3	73.8
Normanno	AllStar Se	2004	29	57	0	16.8	57.4	94.4	77.2	73.8
ND Grano	NDSU	2017	36	60	0	16.4	61.3	105.4	93.3	-
Mean			35.7	58.3	0.0	16.52	60.18	96.19	82.43	82.00
C.V. (%)			-	-	-	2.18	0.81	6.98	-	-
LSD (5%)			-	-	-	0.51	0.69	9.47	-	-
LSD (10%)			-	-	-	0.42	0.57	7.91	-	-

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

Previous crop: Pea

Planted: 4-28-2017

Harvested: 8-17-2017

Residue at planting: Conventional till

Soil type: Lihen Loamy Fine Sand

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: 319 lbs of Urea (46-0-0)

Yield goal: 90 bu/a

Planting population: 1.5 million seeds/a

Herbicides applied: Wolverine Advance 1.7 pt/a (5/30/2017)

Fungicides applied: Prosaro 421 SC 8 oz/A (6/30/2017)

Rainfall: 5.75 in (4/28/2017 - 8/17/2017)

Irrigation: 12.65 in (4/28/2017 - 8/17/2017)

*Days after planting

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

†Protein content adjusted to a 12% moisture