

## Durum Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2018

Variety	Plant Height (in)	Days to Head (DAP*)	Lodging (0 - 9*)	Protein†			Test Weight (lb/bu)	Yield		
				2018 (%)	2-Yr Avg (%)	3-Yr Avg (%)		2018‡ (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
ND Riveland	32	55	0	16.4	16.4	16.2	61.0	65.4	88.9	88.0
Carpio	30	57	1	16.1	16.4	15.9	61.2	64.7	85.4	81.1
ND Grano	28	57	0	15.8	16.1	16.1	61.3	55.7	80.6	80.8
Grenora	27	55	0	16.1	16.1	15.9	60.7	63.6	81.3	79.2
Tioga	31	57	0	16.1	16.4	16.0	61.2	60.5	79.0	78.6
Mountrail	29	56	0	15.9	16.2	16.1	60.6	57.0	78.2	78.1
Joppa	27	54	1	15.7	15.8	15.6	61.0	58.1	80.5	76.2
Divide	33	59	0	16.7	16.8	16.3	60.4	61.0	79.5	75.5
CDC Verona	32	58	0	18.1	17.6	16.8	60.8	60.3	80.0	75.5
Alkabo	28	54	0	15.5	15.4	15.3	61.1	62.4	81.9	75.3
Strongfield	32	57	0	17.6	17.7	17.2	61.3	59.6	74.8	73.5
Pierce	28	54	0	16.0	16.2	15.9	61.2	50.9	72.5	73.1
Maier	28	57	0	17.0	17.4	16.8	61.1	53.6	76.8	71.6
DG Max	31	55	1	17.1	17.1	16.8	61.5	55.4	72.0	71.0
Lebsock	29	55	0	16.2	16.3	15.7	61.3	55.8	72.2	70.9
Ben	30	56	0	16.6	16.5	16.5	61.3	54.7	69.8	68.4
Normanno	23	53	0	15.9	16.3	16.1	57.8	49.9	72.1	68.1
AC Navigator	26	52	0	15.6	15.9	15.9	60.6	50.7	70.5	67.7
AC Commander	25	53	0	15.9	15.9	15.6	58.8	51.6	69.2	67.4
Rugby	31	54	1	16.5	16.6	16.0	61.3	55.0	72.3	66.7
Alzada	26	51	1	15.6	15.9	16.1	59.4	53.8	72.1	66.6
Silver	24	52	1	15.8	15.9	16.2	59.5	43.8	67.4	64.8
<b>MEAN</b>	28.6	55.0	0.3	16.29	16.41	16.15	60.65	56.51	76.21	73.54
<b>C.V. (%)</b>	-	-	-	2.46	-	-	0.79	7.68	-	-
<b>LSD (5%)</b>	-	-	-	0.64	-	-	0.67	6.13	-	-
<b>LSD (10%)</b>	-	-	-	0.54	-	-	0.56	5.12	-	-

\* Days after planting † 0: no lodging - 9: plants lying flat on the ground ‡ Protein content adjusted to 12% moisture † Yields affected by herbicide injury

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

Elevation: 1902 ft

Soil test to (0-6"): P=23 ppm; K=160 ppm; pH=7.6; OM=1.9%

Previous crop: Potato

(0-24"): NO3-N= 20 lb/a

Planted: 5/3/2018

Yield goal: 90 bu/a

Harvested: 8/16/2018

Planting population: 1.5 million seeds/a

Soil Type: Lihen Loamy Fine Sand

Applied fertilizer in lb/a broadcast: 333 lbs of 46-0-0 (4/25/2018), and 76 lbs of 46-0-0 (6/4/2018)‡

Plot size: 92 ft<sup>2</sup>

Herbicides applied: Axial XL 10.5 oz/a, Starane 10.5 oz/a, and Bison 2 pt/a (5/24/2018)

Rainfall: 8.5 in (5/3/2018 - 8/16/2018)

Fungicides applied: ProSaro 421 8 oz/a (7/3/2018)

Irrigation: 8.0 in (5/3/2018 - 8/16/2018)

‡ Additional fertilizer applied due to a 2.44 inch rainfall on June 1st