

Irrigated Durum Variety Trial - NDSU

WREC, Nesson Valley, ND 2022

Variety	Plant Height (in)	Days to Head (DAP ⁺)	Lodging (0 - 9 [*])	Protein [†]			Test Weight (lb/bu)	Yield		
				2022 (%)	2-Yr Avg (%)	3-Yr Avg (%)		2022 (bu/a)	2-Yr Avg [‡] (bu/a)	3-Yr Avg (bu/a)
ND Riveland	33	53	1	15.9	16.3	16.7	60.5	90.0	76.4	80.0
ND Grano	31	55	0	16.1	16.5	16.8	61.7	86.2	78.4	76.9
Joppa	30	53	1	15.8	16.1	16.6	61.4	88.2	74.5	76.5
ND Stanley	33	55	0	16.5	16.9	17.5	61.0	79.7	74.3	73.5
AAC Stronghold	30	54	0	17.3	17.2	17.8	60.2	84.7	71.3	72.7
Carpio	28	54	2	16.4	16.1	16.9	60.2	81.9	72.7	72.4
Tioga	34	54	1	16.4	16.9	17.2	61.4	85.3	72.3	72.1
Alkabo	30	51	0	15.4	15.8	16.3	61.9	79.2	70.6	71.0
Divide	33	56	1	17.1	17.2	17.6	59.9	81.0	66.4	67.9
Mountrail	28	55	3	15.7	15.9	16.8	60.8	86.9	64.9	66.7
CDC Verona	31	55	0	17.8	17.9	18.7	59.0	75.1	66.8	66.6
Strongfield	31	52	1	17.0	17.3	18.0	60.3	72.5	64.7	65.8
Maier	31	54	1	16.7	17.2	18.1	61.3	81.4	63.9	64.2
Rugby	34	54	2	17.0	17.5	17.9	59.9	70.5	56.6	61.1
CDC Defy	33	52	0	16.2	16.3	-	59.5	83.6	76.4	-
AAC Spitfire	28	54	1	17.0	17.3	-	58.8	75.6	67.5	-
MT Blackbeard	33	55	2	15.9	-	-	60.4	92.8	-	-
Lustre	31	54	1	16.9	-	-	59.9	80.5	-	-
CDC Vantta	29	58	0	17.6	-	-	57.9	76.5	-	-
MT Raska	24	50	0	16.6	-	-	62.1	75.2	-	-
MEAN	30.4	53.8	0.8	16.60	16.72	17.23	60.29	80.43	70.11	70.71
C.V. (%)	-	-	-	3.13	-	-	1.23	9.02	-	-
LSD (5%)	-	-	-	0.86	-	-	1.25	14.91	-	-
LSD (10%)	-	-	-	0.71	-	-	1.04	12.42	-	-

+ Days after planting * 0: no lodging - 9: plants lying flat on the ground † Protein content adjusted to 12% moisture

‡ Hail storm in 2021 impacted yields

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

Elevation: 1902 ft

Soil Test (0-6 in.): P=18 ppm; K=270 ppm; pH=7.4; OM=2.7%

Previous crop: Potato

(0-24 in.): NO3-N=54 lb/a

Planted: 5/17/2022

Yield goal: 90 bu/a

Harvested: 8/19/2022

Planting population: 1.5 million seeds/a

Soil type: Lihen Loamy Fine Sand

Applied fertilizer: 320 lb/a of Urea (46-0-0)[5/10/2022]

Plot size: 90ft²

Herbicides applied: Valor (3oz/a) [10/28/21] & Huskie FX (18oz/a), Varro (6.85oz/a), Class Act (1qt/100gal) [6/20]

Rainfall: 13.2 inches (4/1 - 8/19)

Fungicides applied: Prosaro 421SC (8.2oz/a) [7/21]

Irrigation: 11.0 inches (5/17 - 8/19)