

Durum Wheat Irrigated Wheat Variety Trial - NDSU

WREC, Nesson Valley, ND 2017

Variety	Origin	Plant height (in)	Days to head (DAP+)	Protein† (%)	Test weight (lb/bu)	Yield		
						2017 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
ND Riveland	NDSU	38	60	16.4	60.3	112.4	99.3	94.4
Tioga	NDSU	40	58	16.7	60.4	97.4	87.7	88.3
Mountrail	NDSU	37	59	16.5	60.5	99.3	88.7	88.0
Carpio	NDSU	39	60	16.8	60.9	106.1	89.3	87.7
Joppa	NDSU	38	60	15.9	61.0	102.8	85.2	87.5
Grenora	NDSU	35	58	16.0	58.9	99.0	87.0	86.0
VT Peak	Viterra	36	57	16.3	61.7	102.0	90.5	86.0
CDC Verona	Canada	37	59	17.1	59.6	99.7	83.0	85.1
Divide	NDSU	38	60	16.9	60.9	97.9	82.7	84.4
Pierce	NDSU	41	60	16.3	61.4	94.1	84.2	84.1
Alkabo	NDSU	34	57	15.4	60.5	101.5	81.7	82.3
Strongfield	Canada	38	60	17.7	59.6	90.1	80.5	81.4
DG Max	DGP	36	58	17.2	60.3	88.6	78.8	81.0
Maier	NDSU	38	60	17.8	60.9	100.1	80.6	80.8
Lebsock	NDSU	33	57	16.4	60.1	88.6	78.5	78.9
AC Navigator	Canada	33	60	16.3	61.2	90.3	76.1	78.8
AC Commander	Canada	29	59	15.8	59.6	86.7	75.3	77.0
Ben	NDSU	38	58	16.4	60.6	84.9	75.2	76.0
Alzada	WB	29	56	16.1	59.0	90.5	72.9	74.5
Rugby	NDSU	42	59	16.8	59.9	89.5	72.6	74.2
Silver	MSU	28	53	16.1	58.0	90.9	75.3	73.8
Normanno	AllStar Seed Company	29	57	16.8	57.4	94.4	77.2	73.8
ND Grano	NDSU	36	60	16.4	61.3	105.4	93.3	-
Mean		35.7	58.3	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