

Corn Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2019

Variety	Company / Brand	Relative Maturity	Days to Silk (DAP*)	Ear Height (in)	Harvest Moisture (%)	Test Weight (lb/bu)	Yield		
							2019‡ (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
2B861	REA	86	78	30	23.0	49.1	168.9	196.4	208.1
3718 VT2P RIB	Integra	87	82	31	24.3	46.3	154.3	182.9	-
1B780	REA	79	77	30	20.7	49.6	160.1	179.2	-
3537 VT2P RIB	Integra	85	82	31	20.3	49.6	135.8	161.5	-
3282 VT2P RIB	Integra	82	82	32	20.7	50.2	133.4	161.2	-
1980	Proseed	80	75	29	19.8	52.1	184.3	-	-
73S84	Peterson Farm Seed	84	78	32	21.1	50.4	168.9	-	-
1978	Proseed	78	77	32	18.3	53.4	164.2	-	-
G85Z56-3220-EZ1	Golden Harvest	85	83	35	21.7	48.1	162.1	-	-
1974	Proseed	74	75	25	19.5	53.5	161.5	-	-
NK8519-3220	NK	85	83	35	20.6	48.5	159.3	-	-
2B862	REA	86	79	28	23.2	48.6	158.1	-	-
71V81	Peterson Farm Seed	81	78	29	20.1	52.6	155.9	-	-
NK8005-3110A	NK	80	76	29	21.0	54.6	152.3	-	-
D22QH42	Dyna-Gro	82	76	29	21.9	54.2	149.0	-	-
NK7837-3220	NK	78	78	31	20.8	53.7	145.4	-	-
71D83	Peterson Farm Seed	83	76	30	20.0	52.1	145.1	-	-
G78C29-3220-EZ1	Golden Harvest	78	75	32	21.5	53.5	142.3	-	-
G82M47-3220-EZ1	Golden Harvest	82	82	32	19.9	49.3	140.0	-	-
NK8204-3220	NK	82	81	33	19.9	50.0	138.7	-	-
1B720	REA	72	73	25	23.2	55.5	137.9	-	-
G80Q01-3110A	Golden Harvest	80	75	29	20.9	54.7	132.0	-	-
MEAN			78.0	30.4	21.00	51.36	152.25	176.24	208.13
C.V. (%)			1.6	9.2	7.80	2.07	11.54	-	-
LSD (5%)			1.8	3.9	2.32	1.50	23.47	-	-
LSD (10%)			1.5	3.3	1.94	1.26	19.61	-	-

\* Days after planting † Yield adjusted to harvest moisture

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

Elevation: 1902 ft

Soil test to (0-6 in.): P=20 ppm; K=191 ppm; pH=7.7; OM=2.0%

Previous crop: Soybean

(0-24 in.): NO3-N= 34 lb/a

Planted: 5/14/2019

Yield goal: 190 bu/a

Harvested: 11/26/2019

Planting population: 38,000 seeds/a

Soil type: Lihen Loamy Fine Sand

Applied fertilizer in lb/a broadcast: 265 lbs of Urea (46-0-0)[5/8], and 146 lbs of Urea (46-0-0) [7/12]

Plot size: 130 ft^2

Herbicides applied: Cornerstone 5 Plus 26 oz/a and Class Act 21 oz/a (6/12)

Rainfall: 20.0 inches (5/14 - 11/26)

Fungicides applied: none applied

‡ Heavy rains during growing season caused nitrate leaching. Supplemental N was applied on 7/12.

Yellowing leaves indicated low N levels and negatively impacted yields.