

2021 Nitrogen Fertilizer Stabilizers in Spring Wheat at Minot

TRT	Product	Flowering Date	Plant NDVI	Plant Height inches	Test Weight lbs/bu	Grain Protein %	Harvest Moisture %	Grain Yield bu/A
1	200 lbs/A Contain treated Urea applied in a mid-row band	7	0.36	18	64.1	16.3	16.5	18.0
2	200 lbs/A Contain Advanced treated Urea applied in a mid-row band	7	0.35	17	64.2	16.6	16.8	16.8
3	200 lbs/A Agrotain Ultra treated Urea applied in a mid-row band	7	0.35	15	64.4	16.6	18.4	14.1
4	200 lbs/A AGX2020200 treated Urea applied in a mid-row band	7	0.34	17	63.3	16.6	16.8	14.2
5	200 lbs/A Untreated Urea applied in a mid-row band	7	0.38	17	63.3	16.6	17.3	14.8
6	No applied N fertilizer	7	0.34	16	64.8	13.9	16.8	15.0
Trial Mean		7	0.35	17	64.0	16.1	17.1	15.5
C.V. %		6.5	7.5	6.4	1.0	2.2	4.1	7.4
LSD 0.05		NS	NS	NS	NS	0.7	NS	2.1

NS = no statistical difference between treatments.

Tillage = No-till. Previous crop = chickpea. Soil type = Williams loam.

Summary: The trial was planted on May 26 with SY Valda hard red spring wheat. Fertilizer treatments were applied in a mid-row band at planting. Residual soil nitrogen was 17 lbs per acre at 0-24" plus an additional 40 lbs/A legume credit. The trial sustained extreme heat and moisture stress throughout the growing season. All fertilizer treatments provided similar levels of grain protein and were statistically higher than the untreated check. Statistical differences between fertilizer treatments for yield were observed with "Contain" treatments providing slightly higher yields than other products. Data should be viewed with caution due to abnormal growing conditions.