

2020 High Yield Spring Wheat Input Trial at Minot

Input	Days to Head	NDVI	Plant Height	Lodging	Test Weight	Grain Protein	Grain Yield
	DAP*	0-1	inches	0-9**	lbs/bu	%	bu/A
Standard treatment ^a	52	0.80	31	0	62.3	13.3	61.3
Standard treatment + Increase seeding rate to 1.6 million PLS/A	52	0.81	32	0	62.6	13.5	64.8
Standard treatment + 10 lbs/A White Table Sugar in furrow at planting	52	0.81	31	0	62.0	13.5	65.4
Standard treatment + 0.5 lb/A Raw Soy Flour / kwt seed treatment	52	0.81	30	0	61.9	13.4	65.6
Standard treatment + 100 lbs/A Contain ^b treated urea surface broadcast at planting	53	0.83	32	0	62.6	13.9	72.9
Standard treatment + 75 lbs/A Agrotain ^c treated urea surface broadcast at 3 leaf	54	0.84	32	0	62.4	14.2	72.1
Standard treatment + 60 lbs/A Agrotain treated urea surface broadcast at flag leaf	52	0.81	31	0	62.9	14.1	72.2
Standard treatment + MycoApply ^d seed treatment	52	0.81	31	0	62.4	13.0	63.9
Standard treatment + Nutri-Cycle ^e seed treatment	53	0.82	31	0	62.2	13.5	71.8
Standard treatment + all of the above	54	0.84	31	0	62.6	14.6	81.8
LSD 0.05	NS	0.03	NS	NS	NS	0.8	6.9

*Days After Planting **Lodging: 0 = none, 9 = lying flat on ground

NS = no statistical difference between treatments.

^a Standard treatment: Seeding rate = 1.25 million PLS/A. Intego + Release seed treatment. Residual soil N = 35 lbs/A + 40 lbs/A legume credit. 200 lbs/A urea applied in a mid-row band at planting. 1.7 pt/A Wolverine Advanced herbicide + 1 qt/A Cast Iron Premix foliar micronutrient blend at 4 leaf. 8 oz/A Prosaro fungicide applied at flowering.

^b Contain nitrogen stabilizer by AgXplore

^c Agrotain nitrogen stabilizer by Koch Agronomic Services

^d MycoApply mycorrhizal fungi by Valent BioSciences

^e Nutri-Cycle biological seed treatment

Planting Date: May 8 Variety: SY Ingmar Harvest Date: August 24

Previous Crop: Soybean

Tillage: No-till

Soil Type: Williams Loam