

## 2021 High Yield Spring Wheat Input Trial at Minot

Input	Days to Head	NDVI	Plant Height	Test Weight	Grain Protein	Grain Yield	
	DAP*	0-1	inches	lbs/bu	%	2020	2021
						bu/A	
Standard treatment <sup>a</sup>	51	0.39	16	60.6	15.5	61.3	18.5
Standard treatment + Increase seeding rate to 1.5 million PLS/A	50	0.42	16	60.3	15.3	64.8	18.1
Standard treatment + 10 lbs/A White Table Sugar in furrow at planting	51	0.31	14	60.2	16.7	65.4	11.6
Standard treatment + 0.5 lb/A Raw Soy Flour / kwt seed treatment	52	0.31	13	60.8	16.6	65.6	10.9
Standard treatment + 100 lbs/A Contain <sup>b</sup> treated urea surface broadcast at planting	51	0.31	15	60.0	16.4	72.9	14.3
Standard treatment + 75 lbs/A Agrotain <sup>c</sup> treated urea surface broadcast at 3 leaf	50	0.41	15	60.5	15.7	72.1	18.0
Standard treatment + 60 lbs/A Agrotain treated urea surface broadcast at flag leaf	50	0.38	13	60.7	15.6	72.2	17.4
Standard treatment + 8 oz/A Prosaro fungicide applied at flowering	52	0.34	15	60.7	16.3	--	15.0
Standard treatment + Nutri-Cycle <sup>d</sup> seed treatment	50	0.42	17	60.7	15.6	71.8	15.1
Standard treatment + all of the above	52	0.34	15	60.6	16.6	81.8	13.8
Trial Mean	50	0.36	15	60.5	16.0	69.2	15.3
C.V. %	2	23.4	11	0.7	2.2	5.8	14.7
LSD 0.05	1	NS	NS	NS	0.6	6.9	3.2

\*Days After Planting

NS = no statistical difference between treatments.

<sup>a</sup>Standard treatment: Seeding rate = 1.25 million PLS/A. Intego + Release seed treatment.

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.

<sup>b</sup>Contain nitrogen stabilizer by AgXplore<sup>c</sup>Agrotain nitrogen stabilizer by Koch Agronomic Services<sup>d</sup>Nutri-Cycle biological seed treatment

Planting Date: April 29      Variety: SY Ingmar      Harvest Date: August 5

Previous Crop: 2019 = soybean, 2020 = Chickpea

Tillage: No-till

Soil Type: Williams Loam

Note: The 2021 trial sustained extreme heat and moisture stress. View data with caution.