Sulfur by Nitrogen Fertility in No-Till Spring Wheat at Minot

	Applied Fertilizer[1]		Days to	Plant		Test	Grain	Grain
	Nitrogen	Sulfur	Head	Height	Lodging	Weight	Protein	Yield
	pounds per acre		DAP[2]	inches	0-9[3]	lbs/bu	%	bu/A
1	0	0	53	27	1	61.0	13.9	41.0
2	0	10	53	29	1	61.2	13.9	52.7
3	0	20	53	30	1	60.9	13.9	52.5
4	50	0	53	32	1	61.2	14.9	58.5
5	50	10	52	31	1	61.3	14.6	65.6
6	50	20	52	31	1	61.5	14.3	65.6
7	100	0	53	32	1	60.9	15.1	64.2
8	100	10	53	33	1	61.1	15.2	68.3
9	100	20	53	33	1	61.2	15.3	68.6
10	150	0	53	33	1	61.0	15.8	75.2
11	150	10	53	32	2	60.8	15.7	69.0
12	150	20	52	32	1	60.5	15.6	57.2
13	200	0	53	34	1	60.2	15.8	67.4
14	200	10	52	32	2	60.5	15.9	63.0
15	200	20	53	32	1	61.0	15.8	61.5
16	46*	0	53	31	2	60.7	14.9	62.2
17	46**	0	54	30	1	60.9	15.7	55.0
18	100***	10	53	32	2	60.3	15.3	62.7
Trial Mean			53	32	1	60.9	15.1	61.7
C.V. %			1.6	4.6	42	1.1	4.3	9.8
LSD 0.05			ns	2	ns	ns	0.9	8.6

[1] Pounds of N applied as Urea and S as AMS through a mid-row band at planting.

[2] Days after planting.

[3] Lodging: 0 = none, 9 = lying flat on the ground.

**broadcast at tillering (June 3)*

***broadcast at anthesis (July 4)*

****100 lbs/A N + 10 lbs/A S + 100 lbs/A Potash applied in a mid-row band at planting.*

ns = no statistical difference between treatments.

Planting Date: May 4
Variety = Barlow HRSW
Harvest Date: August 16
Seeding Rate: 1.25 million live seeds / acre
Previous Crop: Soybean
Soil Type: Williams loam
Soil Test (0-12"): N = 17 lbs/A, P = 28 ppm, K = 534 ppm, S = 463 lbs/A, Cl = 45 lbs/A
OM = 3.3%, pH = 6.1