

Corn response to sulfur application in Central and Western North Dakota
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This study aims to evaluate corn grain yield response to sulfur application in no-till systems in different soils across Central and Western North Dakota. This trial was carried out in four no-till locations: Minot (NCREC), Carrington (CREC), Dickinson (DREC), and Hettinger (HREC). Five sulfur rates were applied in a randomized complete block design with four replications. Rates of 0, 10, 20, 30, and 40 lbs S/ac using ammonium sulfate (AMS) as a sulfur source were applied 4” in the ground using a no-till plot drill just prior to planting. Plot dimensions were 10 ft wide by 22 ft long. The center two rows were harvested with a small plot combine with an on-board weigh system. The results in 2025 at Hettinger showed no statistical difference in yield among any of the sulfur treatments and the untreated check.

Corn Sulfur Fertilizer - 2025				Hettinger, ND
Treatment	Stalk Lodge	Moisture Content	Test Weight	Grain Yield
	%	%	lbs/bu	bu/ac
0 lbs S	0	14.5	62.2	94
10 lbs S	0	15.3	62.7	99
20 lbs S	0	14.5	62.7	99
30 lbs S	0	15.4	61.6	94
40 lbs S	0	15.1	62.4	100
Trial Mean	0.0	15.0	62.3	97
C.V. %	--	4.1	1.2	7.4
LSD 5%	--	NS	NS	NS
LSD 10%	--	NS	NS	NS

Planting Date: May 29

Harvest Date: October 22

Previous Crop: Corn

Corn Hybrid: Dekalb DKC081-18RIB