

Sulfur deficient corn on light soil in eastern ND. No sulfur fertilizer applied before planting. Tissue Sulfur levels are well below sufficiency range. Adjacent field with sulfur applied has much higher S level in tissue and has nice green color. Sidedress sulfur and nitrogen planned for S def. corn.

Sulfur Deficient (symptoms for 10 days)

<12" tall – whole above ground plant sample
Tissue total N – 4.9% (3.5-5.0% is sufficient)
Tissue total S - .13% (.25-.50% is sufficient)
Soil Nitrate – 78 lb/a 0-12"
Soil sulfate-S – 22 lb/a 0-12"
Soil texture - Sandy Loam



Corn Adjacent Field (planted same day)

<12" tall – whole above ground plant sample
Tissue total N – 4.6% (3.5-5.0% is sufficient)
Tissue total S - .37% (.25-.50% is sufficient)
Soil Nitrate – 135 lb/a 0-12"
Soil Sulfate-S 104 lb/a 0-12"
Soil texture - Sandy Loam

