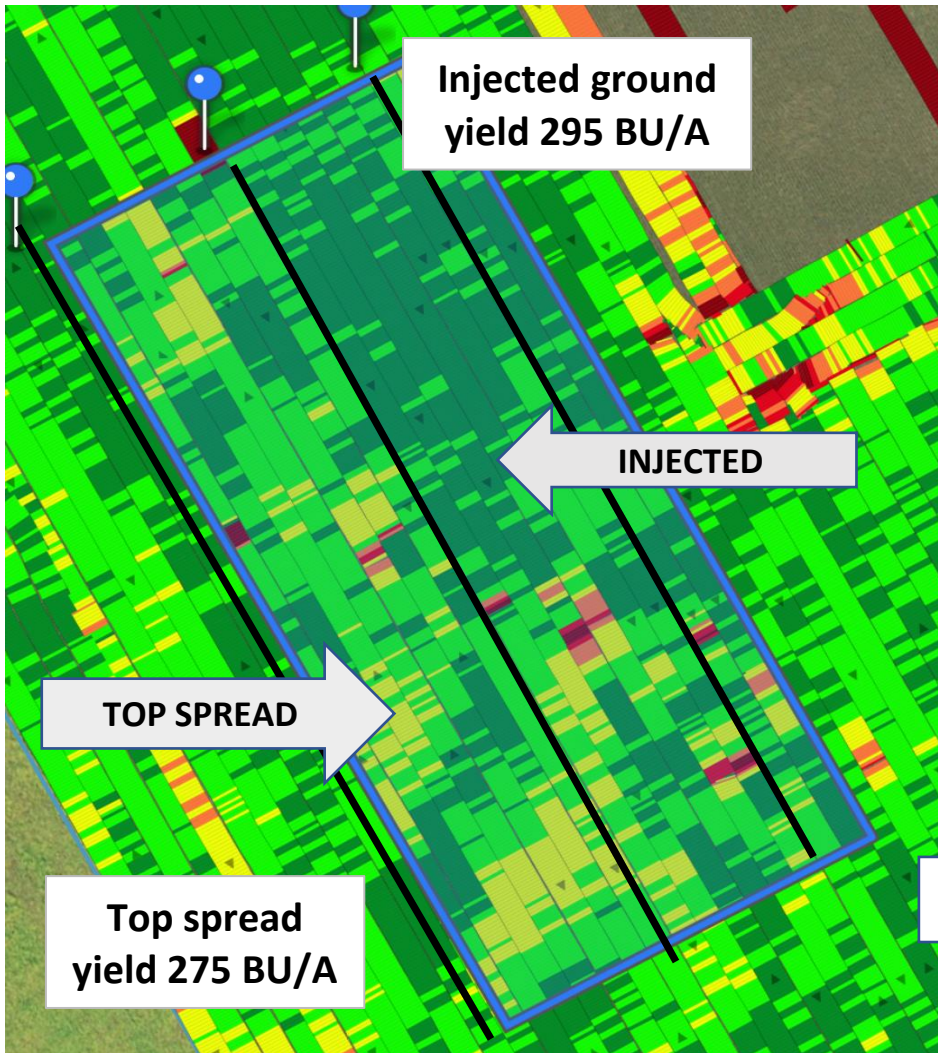


MANURE INJECTION TRIAL 2022



ON THE FARM EXPERIENCE
IN THE FIELD RESULTS



Date Injected: 3/17/21

Next rain event: 3/18/21-
3/19/21 .9"

Planting Date: 4/28/21

Harvest Date: 9/30/21

Hog manure applied: 6000
gallons

At plant nitrogen applied: 45lbs

Total estimated nitrogen: 180lb

Rotation: Corn on Corn



As we better try to reduce costs and conserve nitrogen we decided to do an injected manure trial last spring. Our findings were very positive for the first year of trials. We took a large part of the field and performed a side by side test with injecting vs top spreading. To make sure we if we saved nitrogen we reduced the nitrogen load to a point where we would see a difference. The absolute total nitrogen applied with the manure application and planter applied was 180lb. As you can see from the dates we applied the manure about 5 weeks before planting. This allowed for the injected strips to mellow back out. We did no vertical tillage ahead of the planter. There was a cover crop growing when we spread manure that was terminated about 2 weeks later. In conclusion we gained 20 bushels in yield. I believe we gained this by saving the ammonia in the nitrogen. We did have a rain within 24hrs of spreading to help the top spread manure be absorbed in. Nitrogen prices at time were much lower than current so it saved us about \$7/acre in nitrogen. In today's market it would save us north of \$20/acre. On a side note the smell was also greatly reduced. I know that's impossible to put a price tag on but will carry some weight in the future.