

## Disease

# AGMRI Helps Grower Make Confident Fungicide Decisions

### Highlights:

#### Field-Specific ROI:

AGMRI helped identify which field, out of six, showed a confident return on a second fungicide application.

#### Data-Driven Confidence:

Nutrient deficiency and disease pressure layers guided the decision, replacing uncertainty with actionable insight.

#### Yield Impact Expected:

Anticipated gains of 6–12 bu/ac will validate the value of a targeted fungicide strategy.

### Background:

A farm manager leveraged technology to maximize efficiency on his operation. Earlier in the season, he used **NVision for variable-rate urea applications** to optimize nutrient management.

As the season progressed into later growth stages, he began weighing the economics of fungicide applications. With commodity prices fluctuating, the key question was **whether making two passes of fungicide would pay off**. By analyzing AGMRI's nutrient deficiency and disease pressure layers in combination with crop stage data, the grower was able to **narrow down the decision to a single field out of his six**. That field showed a confident probability of delivering a positive ROI with a second fungicide pass.



### Challenge:

The grower was uncertain whether a second fungicide application would generate a return given current market conditions. Making multiple passes across all fields would be costly and time-intensive, with no guarantee of payoff. **Without clear data, the risk of overspending on inputs or missing a yield-limiting disease outbreak weighed heavily** on his decision.

AGMRI offered a way to evaluate both disease pressure and nutrient health across fields, providing **an evidence-based approach to prioritize only those fields most likely to benefit**.



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### Solution:

AGMRI's database and mapping capabilities gave the grower the insights needed to answer his critical question. By reviewing nutrient deficiency imagery alongside disease pressure maps, he identified that **only one field was likely to deliver a positive ROI with a second fungicide application.**

Rather than taking a blanket approach across all six fields, AGMRI helped him focus on where the payoff was most probable. This **data-driven decision provided both confidence and efficiency** in planning late-season management.

### Results:

Though harvest data is still pending, early indications suggest the decision will pay off. The grower expects a **yield increase of 6–12 bu/ac** on the field receiving a second fungicide application. Beyond potential yield gains, this experience has reinforced his trust in using AGMRI to make smarter, field-specific decisions that reduce risk and maximize ROI.

