

Highlights

Caught Early, Before the County Did

Predictive Disease found tar spot in his field before any confirmed case in his county: time to act, not react.

Targeted, Not Blanket

The V5 Opportunity Report ranked his fields, so he treated the top four of six, concentrating on \$12,800 in return potential instead of guessing.

Data, Not the Calendar

He sprayed at V8 on predicted risk and ranked ROI rather than waiting for visible disease at tassel.

Targeted Fungicide

Early Tar Spot Detection Turns Guesswork Into a Targeted Fungicide Plan

Background:

This Indiana corn grower did not make a V5 fungicide application this season, and his V5 Fungicide Opportunity Report in AGMRI flagged that decision as worth a second look, showing \$12,800 in potential return across his top four fields if he treated the right acres.

Tar spot is a recurring concern in his region, and like many growers on a two-pass fungicide system, his instinct was to wait until disease pressure was visible before committing fungicide dollars. The wrinkle this year was the weather, which had been anything but ordinary: exactly the kind of conditions that can accelerate disease spread once it takes hold.



An early tar spot lesion in the field: small and easy to miss on a single leaf, and the ground-truth that confirmed risk had become reality.

Challenge:

The real challenge was timing and recognizing the opportunity. With higher input prices, blanket fungicide applications can be inefficient. Even with a V5 report showing strong ROI potential, this grower wanted his fungicide decisions grounded in current disease pressure, not a spreadsheet alone.

That puts a lot of two-pass growers in a familiar bind. Many wait until they've confirmed tar spot before starting their program. But tar spot is hard to catch early: the first visible signs are tiny lesions that are easy to miss in the canopy, and once you find that first lesion, the weather dictates how fast it spreads. In an unusual weather year, waiting for confirmation can mean acting too late, and putting yield on the table across multiple fields.

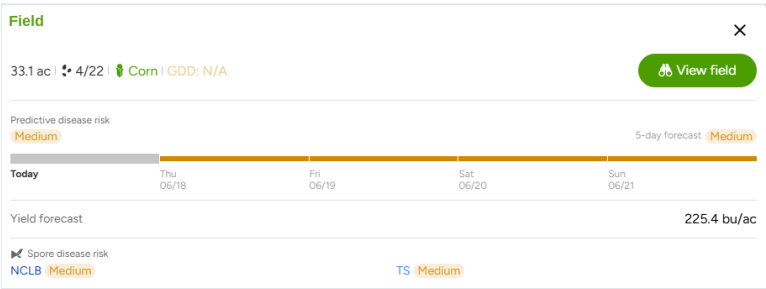
Predictive Disease answered whether and when. The V5 Opportunity Report answered where, turning an on-the-fence call into a clear, defensible plan.



Early Tar Spot Detection Turns Guesswork Into a Targeted Fungicide Plan

Solution:

AGMRI's Predictive Disease found tar spot in one of the grower's fields about a week after the season's first confirmed case in Indiana, and before any confirmed case in his county. Catching it that early changed the decision entirely: instead of waiting for tassel, he pulled the trigger on a fungicide pass at V8, earlier than usual for him, but now clearly warranted by the disease risk in his own fields.



The Predictive Disease field card for the flagged field: risk level and a defined action window pointed the decision before disease was visible.

The V5 Fungicide Opportunity Report then told him where to spend. His highest-opportunity field, the one that topped the report's ranked list, was the same field where tar spot had turned up. Using the report's ranking, he applied fungicide to the top four of his six fields, concentrating the pass on the acres with the most return potential rather than treating everything or guessing.

Results:

By combining early detection with field-level ROI ranking, the grower was able to act ahead of the disease rather than chasing it, prioritize the right fields during a busy stretch, and put his fungicide dollars against the \$12,800 in opportunity the V5 report had quantified across his top four fields, and against real, predicted disease risk in his own fields.

Looking ahead: with early detection and ranked opportunity working together this season, the grower is positioned to lean on AGMRI to time and target future fungicide passes, making the V5 decision a data-backed call from the start rather than a wait-and-see one.

Field-Level Fungicide Opportunity Assessment										
FIELD	HYBRID	PLANTED	ACRES	GDD	GROWTH STAGE	DAP	COLD DAYS	COST BASIS (\$/AC)	EST. ROI	SPRAY PRIORITY
Field 1	-	Apr 22	32	359	V5	35d	5	\$10.00	\$3,574	
Field 2	-	Apr 22	31	359	V5	35d	5	\$10.00	\$3,481	
Field 3	-	Apr 23	28	342	V4	34d	5	\$10.00	\$3,165	

The V5 Fungicide Opportunity Report, with the flagged field at the top of the ranked list, used to decide which fields to treat.

\$12,800 RANKED RETURN, TOP 4 FIELDS	4 of 6 FIELDS TREATED, RANKED BY ROI	V8 ACTED AHEAD OF TASSEL, ON RISK
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