

Weed Control

SOLUTION BRIEF

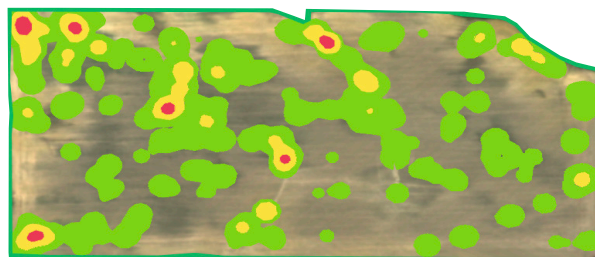
Weeds are one of the greatest threats to crop yields, causing an estimated \$33 billion in annual losses in the US¹. AGMRI weed detection capabilities deliver timely, accurate, and actionable insights, so farmers can make informed management decisions with the best information possible.



VALUE FROM DETECTION TO SOLUTION

TRACK WEED DENSITY

AGMRI provides you with intelligence on the locations and relative density of weed clusters in your fields from before emergence to canopy close, allowing you to prioritize your scouting operations to where they are needed most.




OPTIMIZE WEED CONTROL

Weed maps give you the insights you need to apply only where you need to, reducing input costs while maximizing your crops' potential.

CATCH ELUSIVE WEED ESCAPES

AGMRI intelligently seeks out weed escapes, giving you the chance to deal with them before they impact yield potential or harvestability.



01-Jack's Field
Near Middletown

76 ac

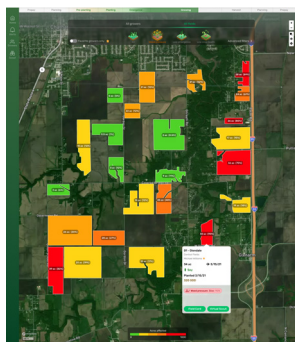
Weed Escape: 11 ac

Jul 14



MANAGE ANY NUMBER OF ACRES

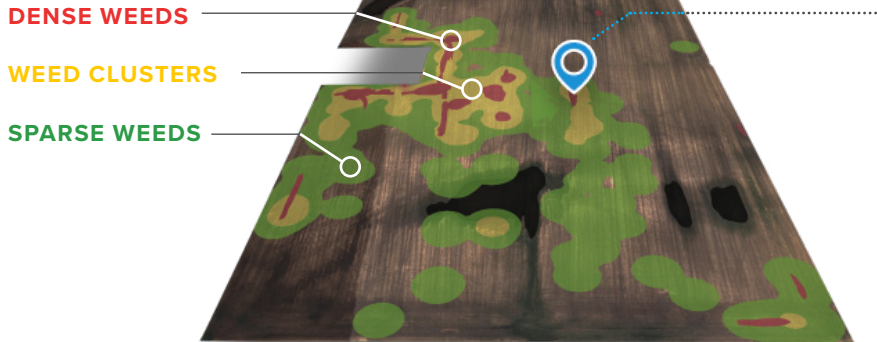
AGMRI maintains flight coverage over regions of Indiana and Illinois, and is able to scale as needed. Whether you have a hundred or a thousand acres, if you are within our service area, we can support your entire operation.



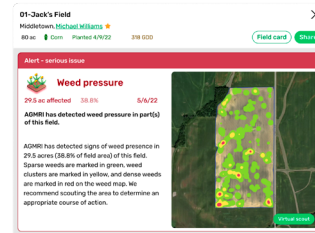
FEATURES

AGMRI features interactive weed maps and actionable weed alerts that provide users with accurate, real time information about the state of each of their fields. The **weed map** provides a regularly updated overview of the location of weeds in the field, with areas of infestation organized into three distinct densities. When AGMRI detects a significant weed acreage, or weed escapes after a crop protection application, the app will notify users with an **alert** that provides timely notice and offers options for follow-up.

WEED MAP



ACTIONABLE ALERTS



The Alert Card provides at-a-glance info about the location and nature of the problem, as well as follow-up options such as virtual scouting.



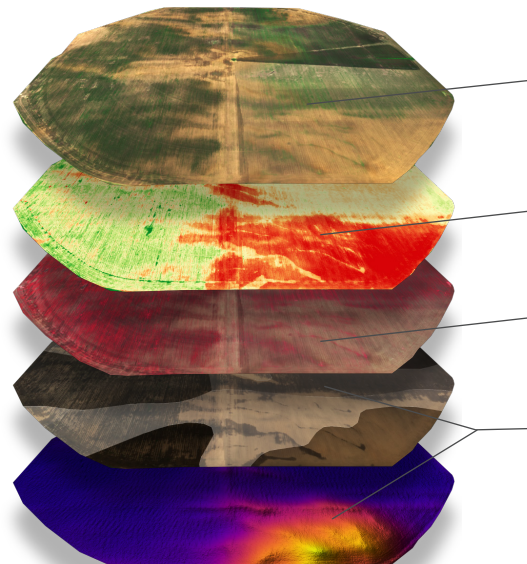
WEED PRESSURE ALERT: alerts you as soon as high weed pressure on your acreage is detected.

WEED ESCAPE ALERT: alerts you when weed presence is detected in any location that has been recently treated with herbicide.

HOW IT WORKS

AGMRI uses aerial imagery, field sensors, and more to construct a true to life virtual model of our customers' fields called the **"Digital Twin"**. AGMRI analyzes the Twin with **machine learning technology** to produce meaningful insights.

AGMRI analyzes color, infrared, and NDVI imagery to automatically identify weeds and distinguish them from the farmer's primary crop. Each layer of the Digital Twin provides important data in the process.



Aerial: Color imagery is used to identify crop rows and pre-emergence weeds

NDVI: distinguishes plant matter from other terrain features

Infrared: biomass detection helps separate crops from weeds

Soil + Topography: provide additional context to determine why weeds are growing where they are.

AGMRI gives growers the tools and information they need to make the best weed management decisions for their fields. To find out more or schedule a demo, visit agmri.com.

Citations:

1: Pimental, Zuniga, and Morrison (2005) Update on the environmental and economic costs associated with alien-invasive species in the United States. Ecological Economics, Volume 52, Issue 3, Pages 273-288. Available at: <https://doi.org/10.1016/j.ecolecon.2004.10.002>.



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