



AgAID
Institute

National Agricultural AI Institute
for Transforming Workforce
& Decision Support

Artificial Intelligence to Support Farm Operations

 National Institute of Food and Agriculture
UNITED STATES DEPARTMENT OF AGRICULTURE

WHO WE ARE

We build and foster human-AI partnerships to sustain specialty-crop agriculture and help feed our growing population. We bring together top researchers from diverse disciplines to empower agriculture professionals with trailblazing AI-tools to assist decision making. Our research can transform the way AI systems are designed and built to solve complex societal problems.

Our **Farm Intelligence Thrust** is developing tools to support decision-making at the farm scale (e.g., orchards and vineyards), helping farmers manage the impacts of extreme weather and other uncertainties.



HOW WE HELP



Frost Mitigation

improving machine learning models for cold-hardiness prediction for specialty crops such as cherries and grapes | supporting grower decision making using AgWeatherNet



Deficit Irrigation

innovating neural networks to improve site-specific weather and soil-water content prediction



Heat Stress

Improved heat-stress prediction models to manage crop loss and improve the quality of farm produce

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