



AgAID
Institute

National AI Institute
for Transforming Workforce
& Decision Support

Artificial Intelligence to Support Water Stewardship

 **USDA 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 **Water Intelligence Thrust** is designing AI solutions to assist better stewardship of water resources, and addressing water scarcity challenges.



**Learn more about our work
& subscribe**
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HOW WE HELP



Streamflow Prediction

improving overall streamflow prediction accuracy and uncertainty quantification using deep temporal AI models



Fallow Prediction

developing empirical and simulation-based models to predict fallowing of drought-affected irrigated cropland



Snow Water Equivalent Prediction

developing a machine learning model to reliably predict snowpack and snowmelt



Irrigation Infrastructure Mapping

Mapping the network of canals and waterways from remote sensing images through deep-learning