



## Research on the Use of Precision Ag Technologies for Cropland Phosphorus Management

Dr. Douglas R. Smith  
USDA Agricultural Research Service  
Conservation Outcomes Webinar Series | July 20, 2023



### Conservation Effects Assessment Project

USDA's **Conservation Effects Assessment Project, CEAP**, is a multi-agency effort led by the Natural Resources Conservation Service that quantifies conservation effects on the environment and builds the science base for voluntary conservation efforts nationwide. CEAP findings are used to guide conservation program development and support conservationists, producers, and partners in choosing effective conservation actions and making informed management decisions backed by science and data. Assessments are carried out at national, regional, and watershed scales for conservation efforts related to cropland, grazing land, wetlands, and wildlife.

### CEAP Cropland Assessments

Through CEAP, the Natural Resources Conservation Service quantifies trends in cropland conservation practices, and associated outcomes, over time. Resulting data empower a diversity of customers to evaluate conservation successes, identify potential improvements, and set targeted, measurable goals for the future. **CEAP Cropland Assessments** leverage confidential farmer survey data, coupled with modeling, to quantify the effects of voluntary conservation efforts across the nation's cropland at both regional and national scales.

The July 2023 Conservation Outcomes Webinar highlights recent findings from a collaboration between CEAP and the USDA Agricultural Research Service's Grassland Soil and Water Research Laboratory. This webinar includes results from field studies focused on reducing fertilizer runoff and increasing profitability by prioritizing high-yield areas for crop production.

### July 2023 Webinar References

**Conservation Practices on Cultivated Cropland: A Comparison of CEAP I and CEAP II Survey Data and Modeling.** USDA Natural Resources Conservation Service.

**Corn Growth Stages.** Purdue University, College of Agriculture, Entomology, Extension.

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**The Conservation Outcomes Webinar Series provides key findings, data, and tools to support producers and partners in pursuing voluntary conservation efforts across the nation.**

You may access the slides presented by Dr. Smith on the **Conservation Outcomes Webinar Series webpage.**

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