



Bruno Patias Lena, PhD
Extension Educator
Water and Integrated Cropping
Systems

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Accountability Region:

Platte
Boone
Nance

Background:

- Bachelor's degree in Agronomy (2010)
- MSc and PhD degree in Agricultural System Engineering (2016)
- Worked two years as an Assistant Professor at Mid-West State University in Brazil
- Worked for three years as a Post-Doctorate at Auburn University. Have 15+ years of experience with crop water demand, irrigation scheduling, soil moisture sensing technologies, soil-water-plant-atmosphere relations, and precision irrigation.



Focus Areas:

- Irrigation Management
- Nutrient Management
- Precision Agriculture
- Cover Crops and Soil Health

People I serve and program areas:

- I help producers within Platte, Boone, and Nance Counties find best management practices that fit their daily operations, increase their profitability, and reduce environmental impact.
- Use of soil moisture sensor-based irrigation schedule to promote irrigation best management practices.
- Use conservation practices to mitigate the nitrate issues in groundwater
- Develop management plans for more resilient farming
- Use of high levels of interaction, such as co-learning and co-participatory Extension approaches, to increase adoption and retention of more efficient, profitable, and sustainable farming practices.

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