PRECISION AG INITIATIVE

Advancing the Future of Agriculture

Investment: $2,250,000 initial one-time funding
Establishment of a Precision Agriculture Resource Facility

Needs include:

1. Building and Lab Renovations
2. Lab and Field Equipment
3. Drones, Imagery Equipment, Sensors and Variable Rate Technology
4. Computers and Software
5. Fuel, Maintenance and Service Contracts

Total: $2,250,0000

RESEARCH IN PRECISION AG

- On-farm precision agriculture research focusing on the development of variable rate input solutions.
- Machine-learning approaches for crop yield prediction using automated on-farm data collection.
- Deep learning techniques applied to remote sensing data for crop management.
- Use of AI for high throughput phenotyping studies.
- Applications of neural networks and support vector machines to analyze cover crop influences in soybeans.
- Integration of crop modeling, remote sensing and nutrient management data using AI approaches.