

# 2015 Level 3 ~ Coordinated Research Project Options

## Wheat- Level 3 Coordinated Research Projects

- 1. Nitrogen Application in Wheat: Does ESN prevent nitrate loss enough to contribute to higher yields and/or protein? Is it repeatedly cost effective?**
  - a. Fall applied 100% ESN vs. 100% urea strips (For fall 2014 and forward)
  - b. 100% preplant urea vs. 75% preplant urea/25% ESN in furrow
  - c. Add additional N in the form of ESN down the tube at planting, as a starter
- 2. Nitrogen Application in Wheat: Does split applying N increase yields or protein? Is it cost effective? If so, when?**
  - a. Compare split nitrogen applications vs. 100% yield goal pre-plant as urea (whatever choice of N works best in your operation). Split application could be 75% down at planting and 25% at mid-tillering as UAN streamed on the crop
  - b. Compare 100% pre-plant N for yield goal vs. 100% pre-plant N for yield goal plus added N in-season in the form of Urea or UAN (28%).
- 3. Nitrogen Application in Wheat: Does SuperU contribute to increased yields and/or protein on wheat by decreasing nitrate loss?**
  - a. Use a 50% urea/ 50% SuperU pre-plant applied vs. 100% urea preplant applied
- 4. Nitrogen Application in Wheat: How well do nitrogen stabilizers work when used with fall applied NH<sub>3</sub>?**
  - a. 100% urea vs. 100% NH<sub>3</sub>
  - b. 100% banded urea vs. 100% NH<sub>3</sub>
  - c. 100% NH<sub>3</sub> vs. 100% NH<sub>3</sub>+N-Serve (or other inhibitor)
  - d. 100% NH<sub>3</sub> vs. 75% NH<sub>3</sub>+N-Serve (or other inhibitor)
- 5. Does a plant growth regulator affect yield and protein and/or decrease lodging in wheat?**
  - a. Compare a plant growth regulator applied to wheat under high yield goal nitrogen strategies vs no plant growth regulator.

## Soybean – Level 3 Coordinated Research Projects

- 1. P Soybean: To what extent does the timing and application of different Phosphate rates impact stand count and/or yields?**
  - a. Phosphate down the tube at planting vs. spring broadcast phosphate
- 2. To what extent does Sulfur and AMS impact soybean yields and when does it work best?**
  - a. Broadcast ammonium sulfate
  - b. Compare MAP vs. Micro Essentials SZ (MESZ)
- 3. Does soybean seed treatment increase yields? Does timeliness of planting impact seed treatment efficacy?**
  - a. Compare early vs late planting yields with and without seed treatment(s) (Numerous types)
  - b. Compare yields of seed treated with different products (ex. Generic Warden CX) to those without.
- 4. Does a soybean fungicide applied at flowering increase yields?**
  - a. Compare a soybean fungicide at flowering vs. no fungicide