

# Grower On-Farm Research Network – Participation Form

Deadline for submission is March 23, 2015

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Home/Office Phone: \_\_\_\_\_

Crops Raised: \_\_\_\_\_

Cell Phone: \_\_\_\_\_

Names of other people who are submitting this with you:

1. \_\_\_\_\_

2. \_\_\_\_\_

Instructions: Mark an X in the Level box that you would like to begin with. You can enter in more than one level. Answer the questions for each entry level you want to enter. Return the form to the address at the bottom of the back page or submit the form electronically at [www.smallgrains.org](http://www.smallgrains.org).

## Level 1 – Research Idea Contest

If you need additional space, please attach on a separate sheet of paper.

Research Idea Title: \_\_\_\_\_

What is the current problem or opportunity to address? \_\_\_\_\_

\_\_\_\_\_

What is the question you would like answered? \_\_\_\_\_

\_\_\_\_\_

There will be a \$250 award for each research idea selected for further research. Up to ten ideas will be selected.

## Level 2 – Share Your 2014 On-Farm Research Project and Results

If you need additional space, please attach on a separate sheet of paper.

2014 Research Project Title: \_\_\_\_\_

What question will you try to answer? \_\_\_\_\_

\_\_\_\_\_

What data will be collected? (Yield, protein, tissue samples, soil samples, stands, etc.) \_\_\_\_\_

How will the data be collected? \_\_\_\_\_

What is the previous crop? \_\_\_\_\_

How many acres will the project cover? \_\_\_\_\_

What will you be comparing? \_\_\_\_\_

How will the project be designed? \_\_\_\_\_ Replicated Strips \_\_\_\_\_ Split Field \_\_\_\_\_ Other

IF replicated how many replications? \_\_\_\_\_

# Grower On-Farm Research Network – Participation Form *Cont'd*

## **Level 3 – Coordinated Research Project**

*Instructions: Check the box by the project option(s) that you would consider conducting on your farm. You can choose more than one. Once you submit the form with Level 3 marked, someone will contact you.*

### **WHEAT Options**

- W1.** Nitrogen Application in Wheat: Does ESN prevent nitrate loss enough to contribute to higher yields and/or protein? Is it repeatedly cost effective?
- W2.** Nitrogen Application in Wheat: Does variable rate application of fertilizer increase yields and/or protein? When is it cost effective?
- W3.** Nitrogen Application in Wheat: Does split applying N increase yields or protein? Is it cost effective? If so, when?
- W4.** Nitrogen Application in Wheat: Does Super U contribute to increased yields and/or protein on wheat by decreasing nitrate loss?
- W5.** Does a plant growth regulator affect yield and protein and/or decrease lodging in wheat?

### **SOYBEANS Options**

- S1.** P & K for soybean yields: To what extent does the timing and application of different P and K rates impact stand count and/or yields?
- S2.** To what extent does Sulfur and AMS impact soybean yields and when does it work best?
- S3.** Does soybean seed treatment increase yields? Does timeliness of planting impact seed treatment effectiveness?
- S4.** Does a soybean fungicide applied to flowering increase yields?

## **Level 4 – Submit a Mini-Research Grant Application:**

On a separate sheet of paper submit a mini-grant application that answers the following questions:

- 1.) Title of proposed project
- 2.) Research Objectives
- 3.) Uniqueness of proposed research and/or background discussion about previous work in the area of study
- 4.) Research methodology and design
- 5.) How would the research results be shared
- 6.) Type of assistance you would need to conduct and complete the research
- 7.) Experience and/or training the project leaders has in the area of on-farm research

### **Return Participation Form to:**

#### **MN Wheat Council**

2600 Wheat Drive

Red Lake Falls, MN 56750

Or e-mail to [mnwheat@gvtel.com](mailto:mnwheat@gvtel.com)

Electronic version of the form can be found at [www.smallgrains.org](http://www.smallgrains.org)

### **If you have questions please call any of the following:**

Lauren Stai: (218) 253-4311 Ext. 115

Dave Torgerson: (218) 689-3607

Tim Osowski: (218) 478-4148

Tony Brateng: (218) 452-0165

# 2015 Level 3 ~ Coordinated Research Project Options

## Wheat- Level 3 Coordinated Research Projects

- W1. Nitrogen Application in Wheat: Does ESN prevent nitrate loss enough to contribute to higher yields and/or protein? Is it repeatedly cost effective?**
- Fall applied 100% ESN vs. 100% urea strips (For fall 2014 and forward)
  - 100% preplant urea vs. 75% preplant urea/25% ESN in furrow
  - Add additional N in the form of ESN down the tube at planting, as a starter
- W2. Nitrogen Application in Wheat: Does split applying N increase yields or protein? Is it cost effective? If so, when?**
- 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
  - 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%).
- W3. Nitrogen Application in Wheat: Does Super U contribute to increased yields and/or protein on wheat by decreasing nitrate loss?**
- Use a 50% urea/ 50% Super U pre-plant applied vs. 100% urea preplant applied
- W4. Nitrogen Application in Wheat: How well do nitrogen stabilizers work when used with fall applied  $\text{NH}_3$ ?**
- 100% urea vs. 100%  $\text{NH}_3$
  - 100% banded urea vs. 100%  $\text{NH}_3$
  - 100%  $\text{NH}_3$  vs. 100%  $\text{NH}_3$ +N-Serve (or other inhibitor)
  - 100%  $\text{NH}_3$  vs. 75%  $\text{NH}_3$ +N-Serve (or other inhibitor)
- W5. Does a plant growth regulator affect yield and protein and/or decrease lodging in wheat?**
- 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

- S1. P Soybean: To what extent does the timing and application of different Phosphate rates impact stand count and/or yields?**
- Phosphate down the tube at planting vs. spring broadcast phosphate
- S2. To what extent does Sulfur and AMS impact soybean yields and when does it work best?**
- Broadcast ammonium sulfate
  - Compare MAP vs. Micro Essentials SZ (MESZ)
- S3. Does soybean seed treatment increase yields? Does timeliness of planting impact seed treatment efficacy?**
- Compare early vs late planting yields with and without seed treatment(s) (Numerous types)
  - Compare yields of seed treated with different products (ex. Generic Warden CX) to those without.
- S4. Does a soybean fungicide applied at flowerin increase yields?**
- Compare a soybean fungicide at flowering vs. no fungicide