

## 2017 Annual Member Meeting Tuesday, December 5, 2017 Chicago, IL

For more information contact USTN Coordinator:

Practical Famers of Iowa 600 5<sup>th</sup> St, Suite 100, Ames IA 50010

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## **AGENDA**

#### 2017

- Overview
- Improvements
- 2018
- Suggestions
- Discussion

# 2017 Overview

## **USTN Testing Coordination**

#### Steering Committee

Charlie Brown, Brownseed Genetics

Dan Dorney, DKD Genetics

Jode Edwards, USDA-ARS

Mac Ehrhardt, Albert Lea Seed

Chris Eichhorn, Wyffels Hybrids

Alix Paez, Genetic Enterprises International

#### Data Analysis - USDA-ARS

Jode Edwards, USDA-ARS (Ames IA)

#### Test Coordination - Practical Farmers of IA

Sarah Carlson, PFI Chris Wilbeck, PFI consultant



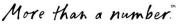
## Current & Past **Participants**















blue ríver



DKD GENETICS



Spectrum Seed Technologies











**MICHAEL FIELDS** 

AGRICULTURAL INSTITUTE

¥

University of Missouri

#eMerge

GENETICS - BY SCHILLINGER



ORGANIC

Family of Farms





















The University of Vermont









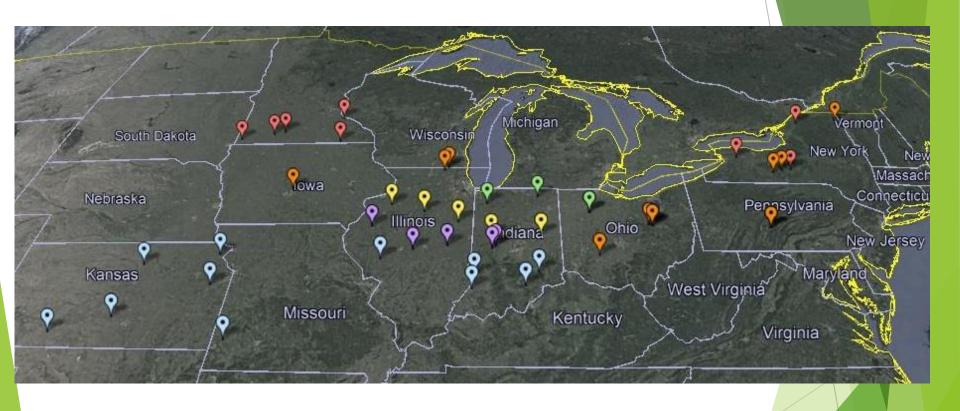




# **Participants**

	2012	2013	2014	2015	2016	2017
Seed Suppliers	12	17	16	18	13	10
↓ Can be both Location Managers	15	20	20	19	17	15
TOTAL	19	28	28	30	24	21

#### 2017 Locations: 48 test sites in 11 states



EC1-95 EC3-105 EC4-110 EC4-112 EC5-115 Organic (EO1-95 EO3-105 EO4-110)

Note: some locations provide sites for organic & conventional tests

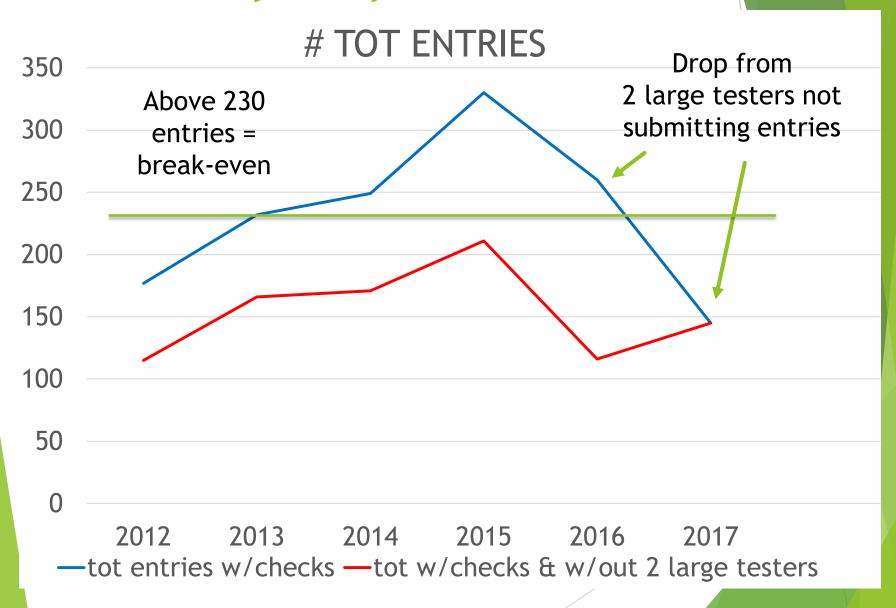
### **Entries**

	2012	2013	2014	2015	2016	2017
Test Entries	164	215	235	304	245	127
Check Entries	13	17	14	26	15	18
TOTAL Entries	177	232	249	330	260	145

300 entry goal

TEST	TYPE	CRM	2015 # Entries	2016# Entries	2017# Entries
EC0	CONV	75	36	-	Not offered
EC1	CONV	90/95W	30	15	15
EC1	CONV	95E	Not offered	Not offered	10
EC2	CONV	100	20	-	Not offered
EC3E	CONV	105	19	10	12
EC3W	CONV	105	21	-	-
EC4E	CONV	110	20	17	16
EC4W	CONV	110	15	-	-
EC4E	CONV	112	20	83	14
EC4W	CONV	112	15	75	-
EC4FW	CONV	112	35	-	-
EC5	CONV	115	13	10	15
EC5	CONV	115FW-i	Not offered	Not offered	10
EC5	CONV	115FW	Not offered	Not offered	10
EO1	ORG	95	37	23	18
EO3	ORG	105	30	16	15
EO4	ORG	110	19	11	10
L	Total		330	260	145

#### Should not rely on any one tester



# Budget

#### Goal is to BREAK-EVEN

		ACTUAL 201	6	ESTIMATE 2017			
Test Income		\$71,094			\$32,944		
From SS	\$71,094			\$32,944			
From Grant	\$0			\$0			
Sponsor Donation	\$0			\$0			
TOTAL INCOME			\$71,094			\$32,944	
To LM		\$43,433			\$22,260		
LM donation		-\$578			\$0		
To PFI Admn (CW & SH)		\$14,275			\$15,000		
Annual Meeting		\$3,121			\$3,000		
Field Days, other		\$0			\$0		
TOTAL EXPENSE			\$60,251			\$40,260	
NET			\$10,843			-\$7,316	

First time negative since 2013

# 2017 Improvements

## 2017 Improvements

#### 1. Offered public data

- submit entry as "public" or "USTN-only"
- USTN report shows all entries
- Public report shows only those entries submitted as "public"
  - used all-entry summary test statistics
- same cost per entry
- formatted public data for member & PFI website
- raw data still distributed for internal use
- NO checks were offered for public data

# Entries per Test

TEST	Public	USTN
EC1-95E	5	10
EC1-95W	9	15
EC3-105E	6	12
EC4-110E	2	16
EC4-112E	1	14
EC5-115E	2	15
EC5-115FW		10
EC5-115FW-i		10
EO1-95	13	18
EO3-105	10	15
EO4-110	3	10
Total	51	145

About 1/3 of entries

Need more public entries for more meaningful Public Reports

# Entries per Tester

Tester	Public	USTN
AL	37	44
BRH		11
Cornell	3	3
DKD		26
GEI		4
GRP		5
Lords		18
MAS	7	7
Mont	3	26
USDA	1	1
Total	51	145

Need
participation
from more
Testers
for more
meaningful
Public Reports

## 2017 Improvements

#### 2. Revised Test Zones

- Added EC1-95E
  - 3 locations (NY)
  - 10 entries = some interest
- Split EC5-115FW
  - 3 locations irrigated (KS)
  - 3 locations non-irrigated (KS/MO)
  - 10 entries in each = some interest

## 2017 Improvements

#### 3. Implementation

- simplified location and entry RSVP
- customized reminders (some really like reminders, some don't need them)
- reiterated need for organic certification letters to go w/shipped seed
- added instructions to label outside of seed shipment box with "USTN"
- paid LMs early (except those who submitted entries and payment is netted)

#### 1. Still need to expand Organic

Help recruit more organic sites Current locations:

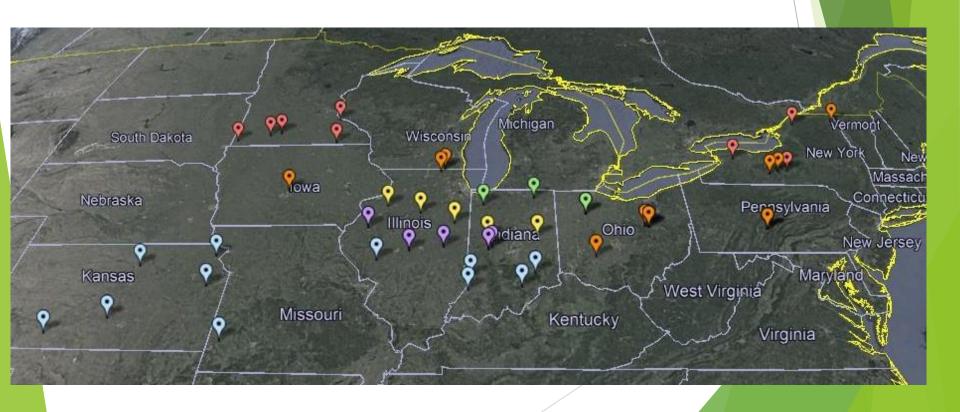
Cornell University - NY
Mandaamin Institute - WI
Michael Fields Institute - WI
Ohio State University - OH
Penn State University - PA
University of Vermont - Extension - VT
USDA-ARS - IA

No longer offering locations:

University of Nebraska-Lincoln - NE

Who's missing?

- 2. Continue to offer new zones
  - Any interest in NE?
  - No interest in IA because ISU has testing?
  - Other zones?



#### 3. Setup Tests Earlier

- Ask for specific locations vs review those submitted?
- Setup tests by 1/15 vs 2/1?
- Entries still due 3/1, so more time to submit?

#### 4. Provide Top Yield Data Reports

- Publish top 3 entries (yields) per Test
  - Testers agree at sign-up
- Post on PFI Website for Farmer use
- In addition to Public & USTN Reports

#### 5. Explore Prediction Models

- Use 2017 data or earlier?
- Use weather data?
- Zip code or zone prediction?
- Other ideas?

6. Other ideas?

# Wrap-Up

# How to Participate

(details in back of handout)

## JOIN!

To become a member and participate in 2018 USTN Testing

Contact:

Chris Wilbeck (USTN) 515.229.6988 chris.ustn@practicalfarmers.org

# How to Participate

## 1. Sign Testing Agreement (Jan/Feb)

USTN Germplasm, Testing and Data Agreement

Note: You must sign an agreement every year you participate.

#### <u>Seed Supplier</u> = Submits seed to test

Has proper license to test seed & share data within USTN Submits letter w/seed going to organic tests certifying/confirming that seed is untreated and not GMO

#### <u>Location Manager</u> = Manages test plots

Will not breed, self, sib or manipulate corn Will not distribute seed to 3<sup>rd</sup> party

<u>Coordinator</u> = Administers testing & data distribution (PFI)

#### 

Will not share test data outside of USTN, except in reports distributed for "external" or "public" use

## 2. Pay for participation

Seed Supplier pays = per test entry (to PFI)

<u>UNIQUE</u>: YOU decide how many entries you submit.

AND, you get data for everyone's entries across ALL TESTS.

PFI directs payment to:

Location Manager (plot management fee)= per test plot PFI (administration fee) = per test plot

<u>UNIQUE</u>: You can be BOTH a Seed Supplier AND Location Manager to offset costs, if desired.

<u>UNIQUE:</u> PFI handles the coordination of the tests, including invoicing to both SS & LMs.

## 3. Support USTN

Sponsor donates = lump sum based on company revenue

Pays for recruiting, marketing costs, program enhancements

### 4. Receive Instructions (March)

#### **USTN File:**

USTN # assigned per entry per test

#### Instructions for participation:

when/where ship seed (directly to locations)

how to label seed packets

how to code pedigrees

how to handle late seed

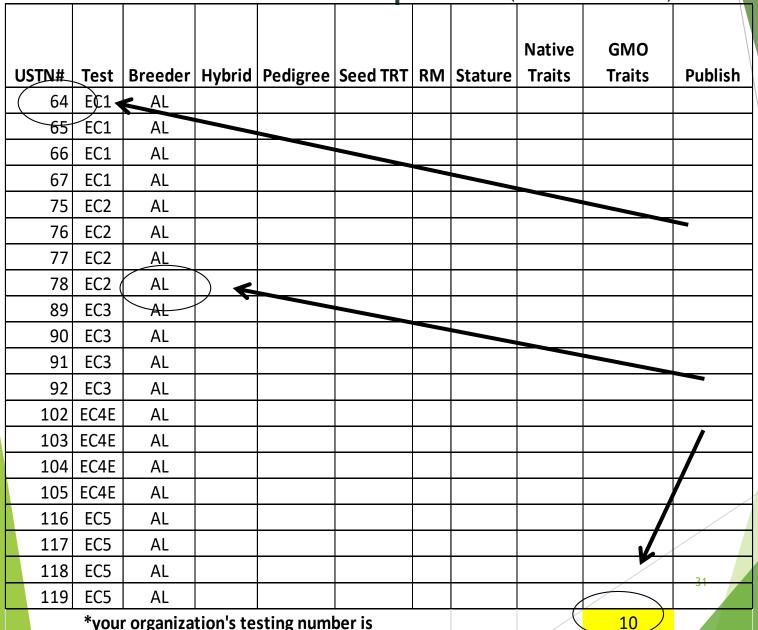
data needed, file formats

when files are due, etc.

#### Payment estimates:

Seed Supplier costs, Location Manager payments

USTN File - To Complete (fictional ex)



Each Seed Supplier is given:

- 1. USTN # for each test entry
- 2. Unique code: for organization name AL = Albert Lea for pedigree coding 10 = Albert Lea

### 5. Supply Data (June and After Harvest)

#### Seed Supplier:

Seed File: due June hybrid & coded pedigree assigned to each USTN includes seed treatment, traits, RM, etc

#### **Location Manager:**

Randomization File: due June

Data File: due immediately after harvest

### Seed File (fictional ex)

organization's testing code = 33 coded public pedigree= 09

								Native	GMO	
USTN#	Test	Breeder	Hybrid	Pedigree	Seed TRT	RM	Stature	Traits	Traits	Publish
105	EC1	CAW	C536-07 <b>/</b>	09188x09102	Maxium	86	Tall		GT	public
106	EC1	CAW	C23-07	33121x09141	Maxium	92	Short		GTCBLL	USTN
107	EC1	CAW	C4302-07	33122x33123	Maxium	92	Average	white	NONE	public

Commercial x Commercial

Commercial x Proprietary

Proprietary x Proprietary

**UNIQUE**:

coded pedigrees to allow for comparisons

## Randomization File (fictional ex)

TEST	LOCATION	USTN #	FILLER	REPLICATE	PLOT#	RANGE	PASS	DATEPLANTED	PLOTLENGTH	ROWSPACING	#SEED	#ROWS
EC4W	Rippey	120	NO	1	1	1	1	5/15/2013	17.5	30	45	4
EC4W	Rippey	121	NO	1	2	1	3	5/15/2013	17.5	30	45	4
EC4W	Rippey	122	YES	1	3	1	5	5/15/2013	17.5	30	45	4
EC4W	Rippey	123	NO	1	4	1	7	5/15/2013	17.5	30	45	4
EC4W	Rippey	130	NO	1	5	1	9	5/15/2013	17.5	30	45	4
EC4W	Rippey	131	NO	1	6	1	11	5/15/2013	17.5	30	45	4
EC4W	Rippey	132	NO	1	7	1	13	5/15/2013	17.5	30	45	4
EC4W	Rippey	133	NO	1	8	1	15	5/15/2013	17.5	30	45	4
EC4W	Rippey	147	NO	1	9	1	17	5/15/2013	17.5	30	45	4
EC4W	Rippey	120	NO	2	18	2	17	5/15/2013	17.5	30	45	4
EC4W	Rippey	121	NO	2	17	2	15	5/15/2013	17.5	30	45	4
EC4W	Rippey	122	NO	2	16	2	13	5/15/2013	17.5	30	45	4
EC4W	Rippey	123	NO	2	15	2	11	5/15/2013	17.5	30	45	4
EC4W	Rippey	130	NO	2	14	2	9	5/15/2013	17.5	30	45	4
EC4W	Rippey	131	NO	2	13	2	7	5/15/2013	17.5	30	45	4
EC4W	Rippey	132	NO	2	12	2	5	5/15/2013	17.5	30	45	4
EC4W	Rippey	133	NO	2	11	2	3	5/15/2013	17.5	30	45	4
EC4W	Rippey	147	NO	2	10	2	1	5/15/2013	17.5	30	45	4



#### Data File

#### Required:

- •Test (EC1, EC2, etc)
- Location (city)
- •Replicate (1 or 2)
- •Plot#
- Range
- Pass
- •#Rows Harvested
- Plot Length Harvested
- Date Harvested
- •Weight (lbs/plot)
- Moisture (%)
- •Stand Count (# plants/plot)
- •Root Lodge (# plants/plot)
- •Stalk Lodge (# plants/plot)

#### **Optional:**

- •Test Weight (lbs/bu)
- Green Snap (# plants/plot)
- •Plant Height (inches)
- •Ear Height (inches)
- Mid Pollen Date
- •Mid Silk Date
- Population
- Comments
- Discard

## 6. Receive USTN Data Summary (Dec)

Example file available upon request

## 2018 Timeline

JAN = Submit Locations for Tests (LM) due 1/15/18

FEB = Locations Selected & Call for Entries 2/1/18

MAR = Submit Entries & Check Offers (SS) due 3/1/18

APR = Ship Seed to Locations (SS)

JUN = Seed Entry Files (SS) due 6/15/18 Field Randomization Files (LM) due 6/15/18

After

Harvest = Data Files (LM): due immediately after harvest

NOV = Raw Data & Test Summaries distributed as available

DEC= USTN Data Summary Recaps (@ ASTA mid Dec)
Final Invoices Emailed after ASTA meeting
Payment due to Location Managers

JAN= Payment due to PFI