



# G2F Lobbying Efforts and Funding Status

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[www.Genomes2Fields.org](http://www.Genomes2Fields.org)

# Sources of Funds for G2F

- ✧ In-Kind Support from Cooperators
- ✧ NIFA, DOE, NSF grants
- ✧ USDA-GEM
- ✧ Farm Bill authorization
- ✧ Corn Board funding

# G X E Cooperators

*Principal Investigators who grew GxE trials in 2014-2016*

- ✧ Martin Bohn (UIUC)
- ✧ Ed Buckler (ARS)
- ✧ Ignacio Ciampitti (KSU)
- ✧ Jode Edwards (ARS)
- ✧ Sherry Flint-Garcia (ARS)
- ✧ Christopher Graham (SDSU)
- ✧ Candy Hirsch (UMN)
- ✧ Jim Holland (ARS)
- ✧ Elizabeth Hood (A-State)
- ✧ David Hooker (Guelph)
- ✧ Fiona Goggin (A-State)
- ✧ Shawn Kaeppler (UW)
- ✧ Joe Knoll (ARS)
- ✧ Judith Kolkman (Cornell)
- ✧ Greg Kruger (UNL)
- ✧ Nick Lauter (ARS)
- ✧ Liz Lee (Guelph)
- ✧ Natalia de la Haza (W)
- ✧ Aron (State)
- ✧ Robert Nelson (Cornell)
- ✧ Robert Rocheford (Purdue)
- ✧ Oscar Rodriguez (UNL)
- ✧ Cinta Romay (Cornell)
- ✧ James Schnable (ISU)
- ✧ Brian Scully (ARS)
- ✧ Rajandeep Sekhon (Clemson)
- ✧ Margaret Smith (Cornell)
- ✧ Nathan Springer (UMN)
- ✧ Kurt Thelen (MSU)
- ✧ Peter Thomison (OSU)
- ✧ Mitch Tuinstra (Purdue)
- ✧ Jason Wallace (UGA)
- ✧ Randy Wisser (UDeI)
- ✧ Wenwei Xu (TAMU)

In-Kind Support: Priceless!



# Grants

✧ Numerous grants received for G2F related work from USDA-NIFA, NSF, FFAR and DOE



✧ About \$4 million in grants received

<https://www.genomes2fields.org/funded-projects/>



✧ Another \$13 million in DOE APRA-E ROOTS grants tangentially related to G2F



# Legislative Update - Phenotyping

Since 2016, G2F Executive committee, along with several university Government Relations offices and NCGA and ICGA, began talking to federal agencies and key Congressmen and Senators about federal funding for phenotyping

# USDA Funding through GEM

✧ For past 4 years, USDA has allocated \$1.25 million to G2F through the Germplasm Enhancement of Maize program

## ✧ 2017 Budget:

*Genomes to Fields.*—The Committee encourages ARS to expand the Germplasm Enhancement of Maize [GEM] project and has provided \$1,250,000 to complement the existing USDA maize germplasm programs and support the emerging large-scale public sector effort to investigate the interaction of maize genome variation and environments, known as the Genomes to Fields project.

## ✧ 2020 Budget

*Genomes to Fields.*—The Committee recommendation includes no less than the fiscal year 2019 level to support the Germplasm Enhancement of Maize [GEM] project to complement the existing USDA maize germplasm programs and support the emerging largescale public sector effort to investigate the interaction of maize genome variation and environments, known as the Genomes to Fields project.

# Farm Bill Update - Phenotyping

✧ Last year, House Ag Committee agreed to redraft the 'Agricultural Genome Initiative' into the 'Agricultural Genome To Phenome Initiative' and was included in House version

**Sec. 1671. [7 U.S.C. 5924] AGRICULTURAL GENOME TO PHENOME INITIATIVE**  
(a) GOALS.—The goals of this section are—

# Farm Bill Update - Phenotyping

- ✧ Language included in Farm Bill and signed into law on December 20, 2019
- ✧ For first time, includes a funding authorization
  - ✧ \$40 million per year!
- ✧ Will be administered as grants by USDA-NIFA

## SEC. 7208. AGRICULTURAL GENOME TO PHENOME INITIATIVE.

Section 1671 of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5924) is amended—

(1) in the section heading, by inserting “TO PHENOME” after “GENOME”;

“(f) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this section \$40,000,000 for each of fiscal years 2019 through 2023.”.



# Farm Bill Update - Phenotyping

However, authorization doesn't mean appropriation...

- ✧ Authorization only establishes the program with a non-binding funding recommendation
- ✧ Appropriations need to come through federal budgets each year by Congress
- ✧ Once Farm Bill was signed, immediately began working on appropriations – show us the money

# Farm Bill Appropriation - Phenotyping

- ✧ Trip to DC in June
  - ✧ Iowa State, U Wisconsin, ICGA, NCGA
- ✧ Met with House Ag Approps Committee, Senate Ag Committee, several members of Congress
- ✧ Held a briefing on Genome To Phenome Initiative



# Farm Bill Appropriation - Result

- ✧ Federal 2020 budget signed into law in December
- ✧ Includes \$1,000,000 for Genome To Phenome
- ✧ One of handful of new Farm Bill programs to get any funding
- ✧ A starting point – already working on 2021 budget to increase this amount

AGRICULTURE, RURAL DEVELOPMENT, FOOD AND DRUG ADMINISTRATION,  
AND RELATED AGENCIES APPROPRIATIONS ACT, 2020  
(Amounts in thousands)

	FY 2019 Enacted	FY 2020 Request	Final Bill	Final Bill vs Enacted	Final Bill vs Request
Tribal Student Scholarships.....	---	---	5,000	+5,000	+5,000
Genome to Phenome.....	---	---	1,000	+1,000	+1,000
Nutrition Assistance Program Study.....	---	---	6,000	+6,000	+8,000

# Genomes To Fields Sponsors



**\$4.6 million  
Contributed  
to date**