

# Environmental Horticulture Program

## Environmental Horticulture Program Updates

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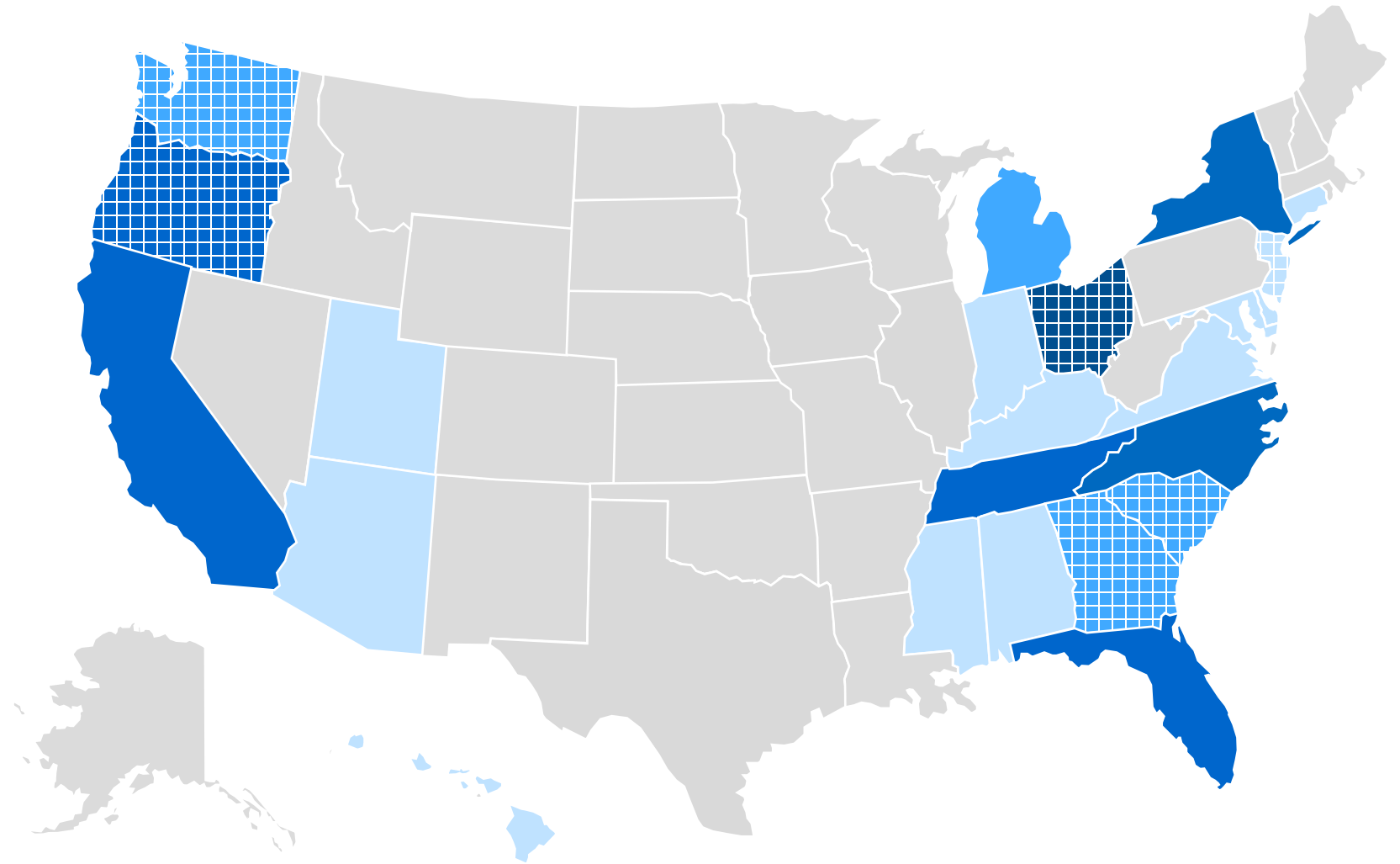
# IR-4 Activities on behalf of the Green Industry

*Registration Support*





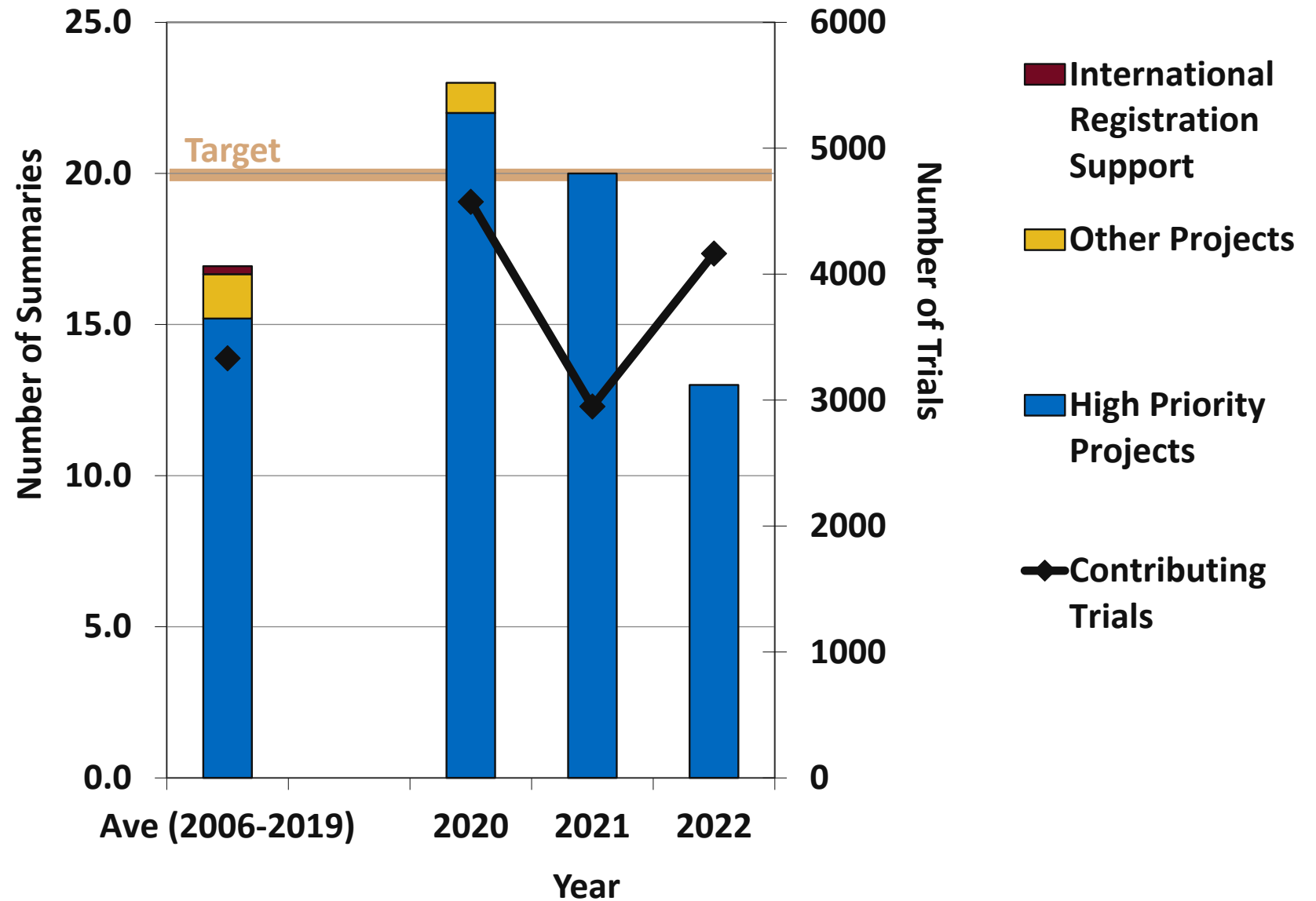
# 2022 Registration Support Research Network





# Outcomes & Impacts

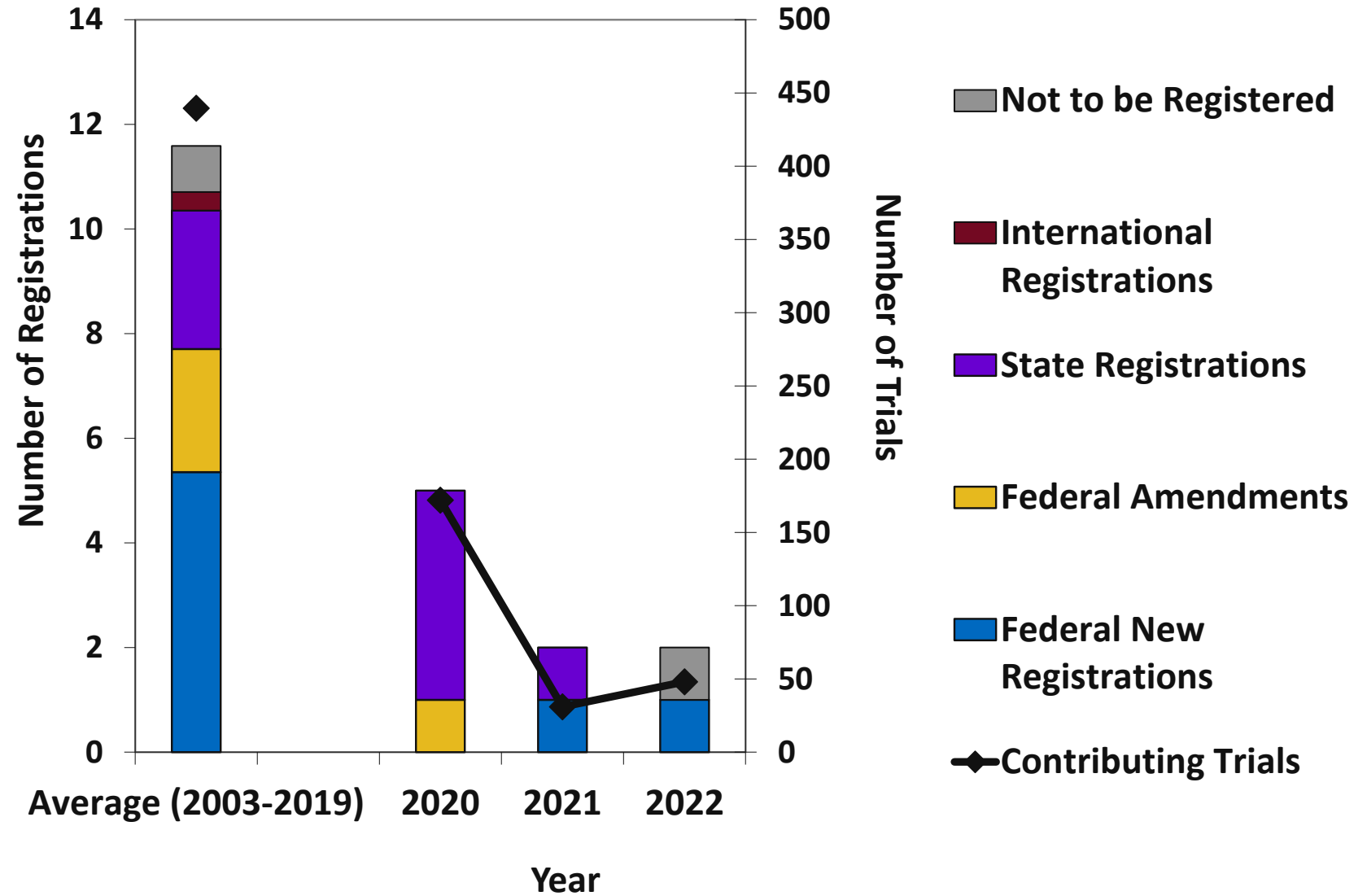
## Data Summaries 2022 YTD





# Outcomes & Impacts

## Registrations 2021





## *Outcomes & Impacts*

**Registrations  
since 2019**

- **Fungicides**
  - Picatina Flora (pydiflumetofen + fludioxanil) \*\*
  - Postiva (pydiflumetofen + difenoconazole)
  - Regime (BLAD)
  - Stargus (*Bacillus nakamurai* strain F727) \*\*
- **Herbicides**
- **Insecticides/Miticides**
  - Pedestal (novaluron) \*\*
  - Pradia (cyclaniliprole)
  - Sarisa (cyclaniliprole + flonicamid)
  - Ventigra (afidopyropen) \*\*
  - Xxpire (spinetoram + sulfoxaflor)

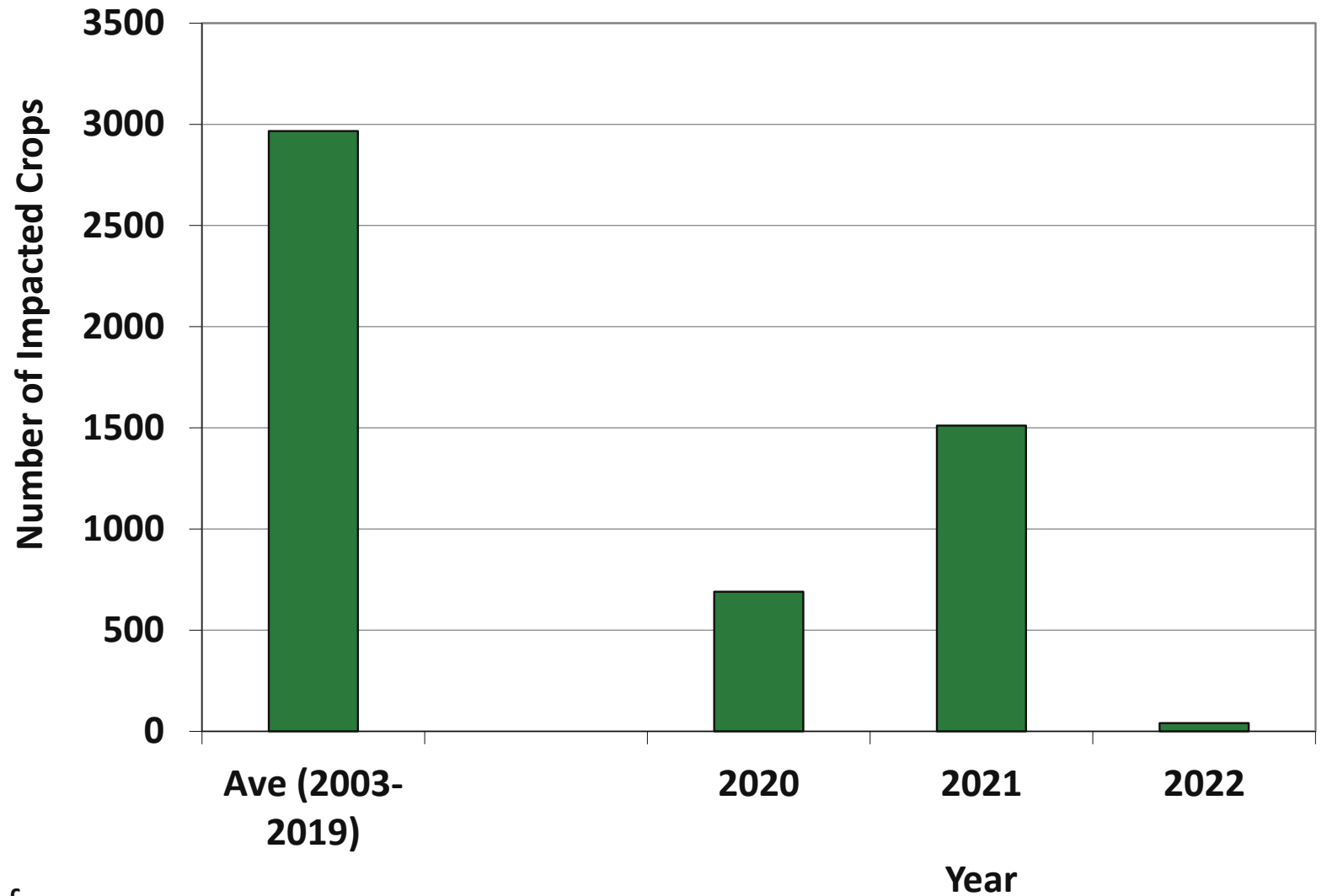
\*\* IR-4 data supported CA registration



# Outcomes & Impacts

## Crop Use Impact 2021

**57,994**  
crop uses as of  
10/27/2022







## *Outcomes & Impacts*

Reach

# What does this mean for **Environmental Horticulture?**

Since this Program was started in 1977,  
- more than **915** products & numbered active ingredients have been screened for performance

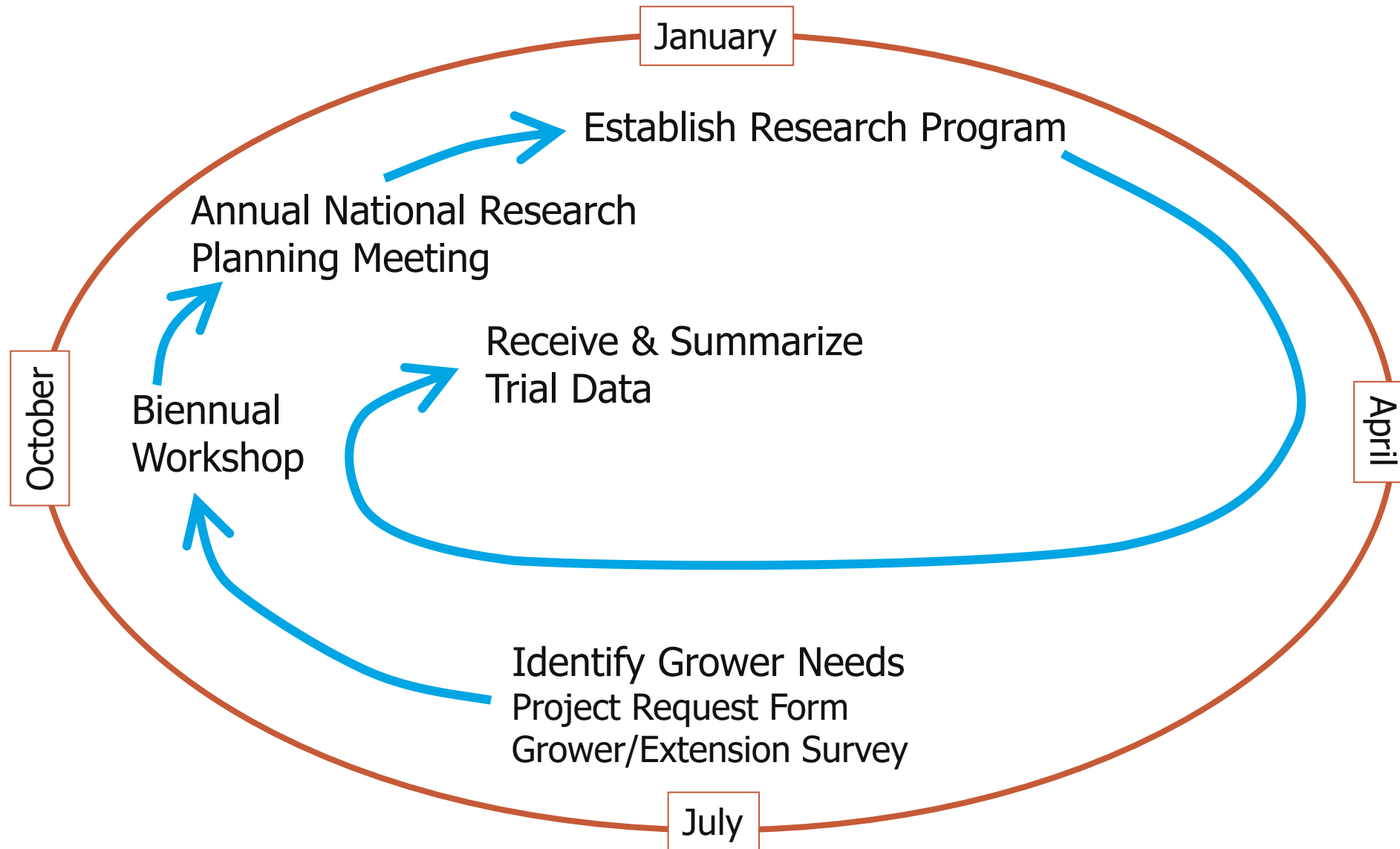


Photo by  
Cristi  
Palmer

- over **36,600** trials have been conducted  
- and close to **58,000** crop uses are now available for growers and landscape managers

Program statistics as of October 2021







# Research 2022 & 2023

- **National Projects**

- Entomology – Borer & Beetle Efficacy
- Entomology – Mealybug & Scale Efficacy
- Entomology – New Pest Management Tool Crop Safety
- Pathology – Pythium & Phytophthora Efficacy
- Pathology – Non-Oomycete Root & Crown Rot Efficacy
- Pathology – New Disease Management Tool Crop Safety
- Weed Science – Preemergent Herbicide Crop Safety
- Weed Science – Postemergent Herbicide Efficacy
- Weed Science – Nostoc Efficacy on Hard Surfaces



# Research 2022 & 2023

- **Regional Projects**

- Entomology – Eriophyid Mite Efficacy (SOR)
- Entomology – Thrips Efficacy (NER)
- Pathology – Bacterial Leaf Spots (SOR)
- Pathology – Botryosphaeria Canker Efficacy (NCR)
- Pathology – Botrytis Efficacy (NCR, WSR)
- Weed Science – Fatty Acid Herbicide Efficacy (NER)
- Weed Science – Preemergent Herbicide Crop Safety for Field Production of Bulbs, Cut Flowers, Ornamental Grasses (WSR)

# List of 2022 Protocols

## • National

- 22-001-Foliar Feeding Beetle Efficacy - Flea Beetle
- 22-002-Foliar Feeding Beetle Efficacy - Japanese Beetle Adults
- 22-003-Foliar Feeding Beetle Efficacy - Other Species
- 22-004-Borers
- 22-005-Mealybug Efficacy
- 22-006-Scale Efficacy
- 22-007-New Pest Products Crop Safety - Foliar
- 22-008-New Pest Products Crop Safety – Drench
- 22-009-Pythium Efficacy
- 22-010-Phytophthora Efficacy
- 22-011-Non-Oomycete Root & Crown Rot Efficacy - Fusarium
- 22-012-Non-Oomycete Root & Crown Rot Efficacy - Myrothecium
- 22-013-Non-Oomycete Root & Crown Rot Efficacy - Rhizoctonia
- 22-014-New Disease Products Crop Safety - Foliar
- 22-015-New Disease Products Crop Safety - Soil
- 22-017-Pre-emergent Herbicide Crop Safety (In Season)
- 22-018-Post-emergent Herbicide Efficacy (Broadleaved Perennial Weeds)
- 22-019-Post-emergent Herbicide Efficacy (Sedges/Nutsedges)
- 22-020-Nostoc Efficacy

## • Regional

- 22-022-NCR Regional Botryosphaeria Canker Efficacy
- 22-023-NCR/WSR Regional Botrytis Efficacy
- 22-024-NER Regional Fatty Acid Herbicides
- 22-025-NER Regional Thrips Efficacy
- 22-026-SOR Regional Bacterial Leaf Spot & Blight Efficacy
- 22-027-SOR Regional Eriophyid Mite Efficacy
- 22-028-WSR Regional Preemergent Herbicide Crop Safety for Field Production



# 2023 Research Program Plans

- Increase in Funding for EHC Program to \$650K
  - Increase in reimbursement
  - 11.11% IDC allowable
- Research Selection Portal Open Nov 1 to Nov 30
- IR-4 HQ and RFCs develop research plan in Dec
- Researchers contacted about 2023 experiments in Jan



# 2023 Workshop Plans

- Dates: Mid October 2023, TBD
- Location: TBD (thinking NoLa or Denver)
- Tentative Agenda
  - T – Tour
  - W – Opening Session, Discipline Sessions, Sticker Caucus
  - R – Caucus Results & Priority Finetuning (if needed), Special Topic Discussions

# Thank you !



## **Funding for IR-4 Research:**

USDA-NIFA (IR-4 & SCRI)

USDA-ARS

USDA-APHIS

Land Grant Institutions

## **Researchers:**

All the fine researchers throughout the US and in cooperating countries

## **Growers:**

Who donate time to complete the biennial survey and all those plant materials!

## **IR-4 Personnel:**

Susan Bierbrunner

Mika Pringle-Tolson

Jackie Cavaliere

Janine Spies

Marylee Ross

Nicole Soldan





**Thank you!**