

# 2019 iPiPE crop-pest programs

- Cole crops in Michigan
- Blueberries Cranberries and Grapes in New Jersey
- Grapes in Connecticut
- Potatoes in Florida
- Potatoes and tomatoes in North Carolina
- Sorghum in Texas
- Urban Ag in New Mexico
- Vegetables in Massachusetts

# 2019 Commodity programs

- Corn - Southern Corn Rust and Tar Spot
- Soybean - Asian Soybean Rust

# 2018 Market research

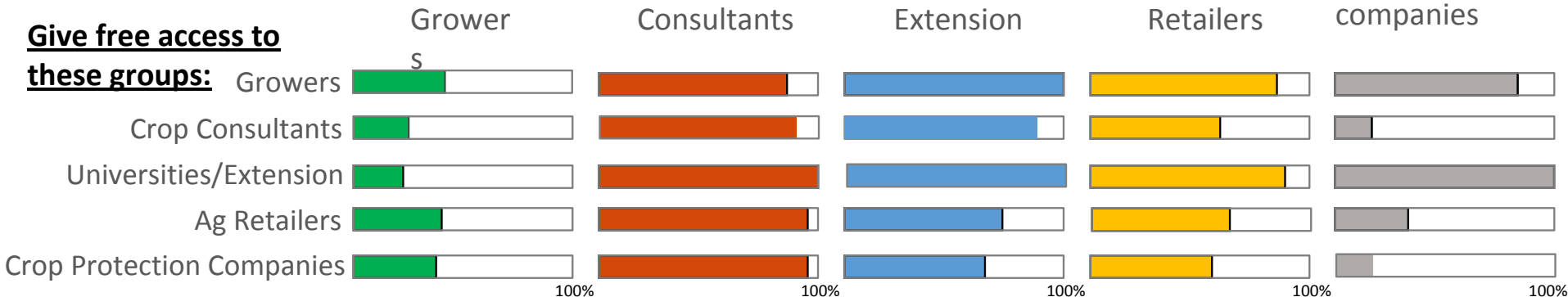
- 200+, 45-minute phone interviews with growers, Extension agents, consultants, retailers, pest protection products execs.
- Land Grant Universities and the Extension Service are the most trusted authority with all stakeholders
- Crop consultants and Extension Specialists are especially willing to pool their data collection in support of public tracking and forecasts
- The benefits of fine mapping and forecasting easily outweigh the potential cost of pooling data with competitors
- However, all stakeholders would only consider contributing their data if the organization in charge of pooling and creating maps and forecasts is publicly owned, independent, and preferably based at a University.

# Who can get a free ride?

Q27. Would you support providing observations to iPiPE if the following groups got this information for free without contributing observations to iPiPE?

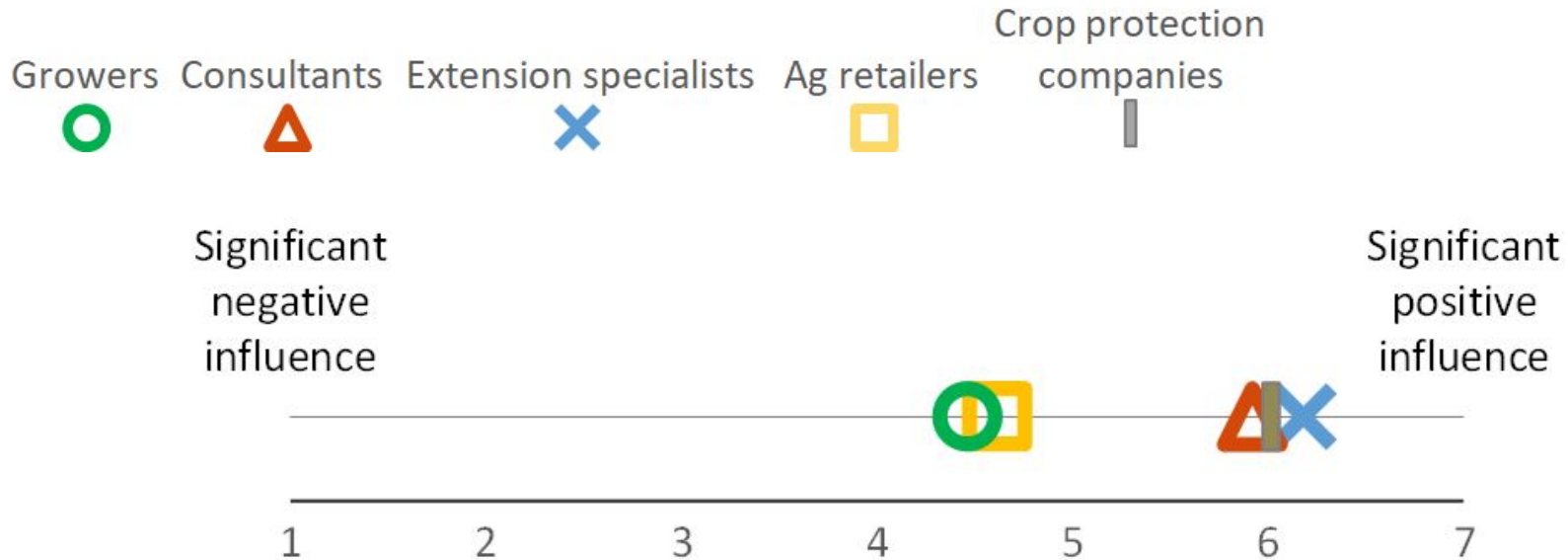
## According to these groups:

### Give free access to these groups:



# Public vs. industry ownership and operation

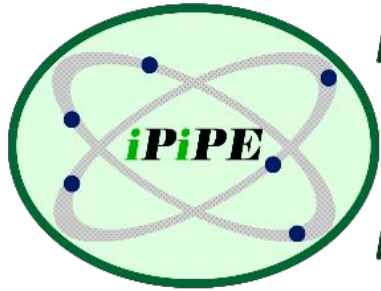
Q28. On a scale of 1 to 7, where 1 means it has a significant negative influence on my decision to use iPiPE and 7 means it has a significant positive influence on my decision to use iPiPE, how does the fact that iPiPE is publicly owned and operated vs owned by industry influence your decision to use iPiPE?



# 2019-2014 Plan

- **1** - Drive collection of timely field observations of agriculturally important organisms through our network of experts, advisors, growers and their technology tools
- **2** - Establish our data warehouse as a trusted and effective repository of shared, accurate and actionable information
- **3** - Produce and deliver maps, alerts and forecasts to inform local pest management decisions in order to protect yield, increase profitability, and improve sustainability
- **4** - Build and deliver a cloud-based modelling platform for public and private sector researchers to develop and evaluate forecasting models by tapping into our aggregated, high spatiotemporal resolution datasets

# iPIPE and EDDMapS are merging!



*Progress thru Sharing*

**iPIPE**

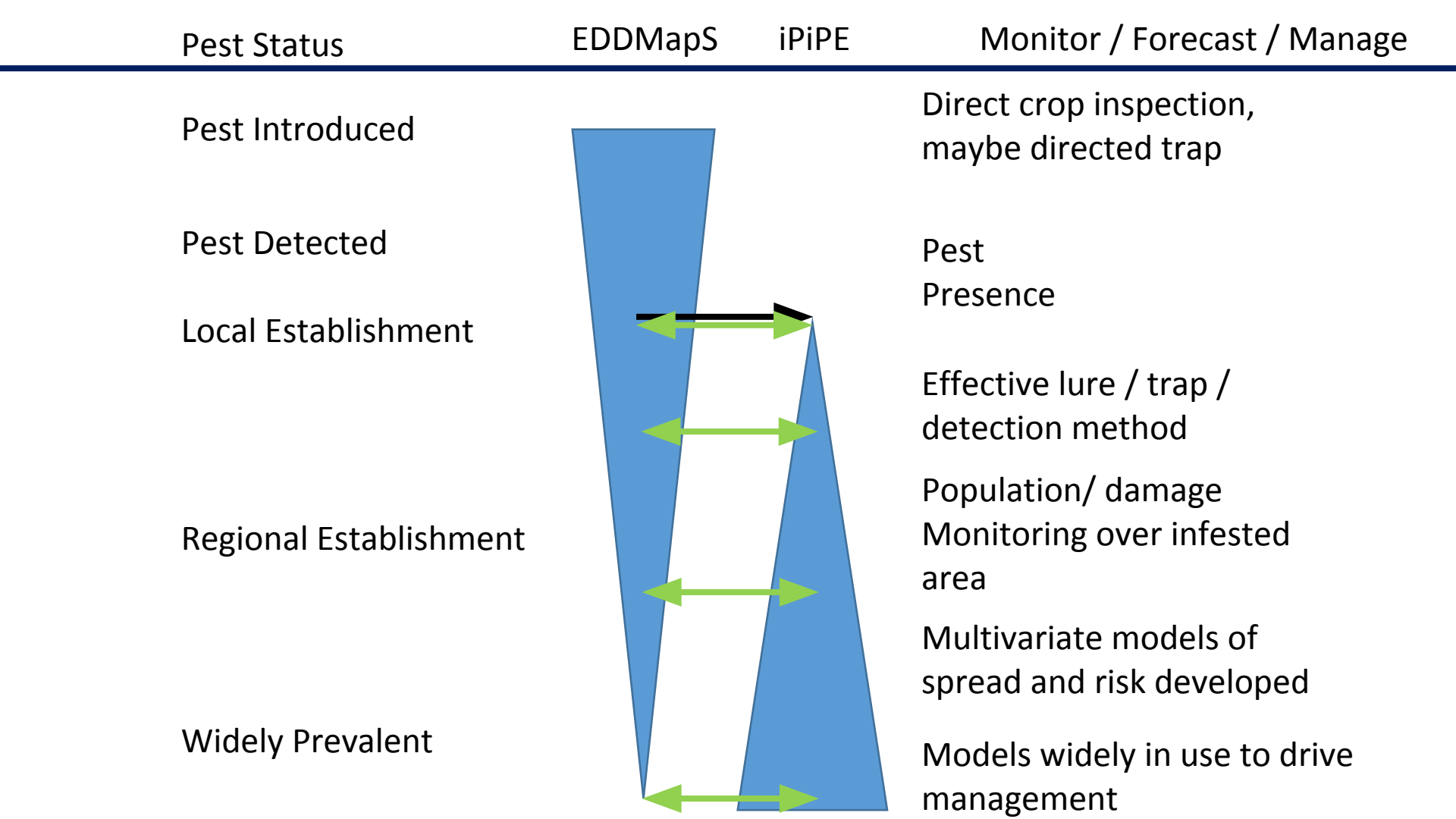
*Progress thru Sharing*

Sharing unbiased, science-based  
tracking and forecasting  
information about agriculturally  
important organisms

**EDDMapS**  
find • map • track



A common platform for  
invasive species and pest data  
with simple ways to use it





## 2018 CPPM RFA - RCP Information Supplement

- Describe plans to deliver state of the art IPM information regionally and nationally to a wide variety of stakeholders and customers through an improved web presence
- Provide web-based networking tools for IPM research and extension personnel

# ONE DATA SET... MANY SOURCES, VIEWS, AND LOCATIONS

myFields


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## Pest Profile

### Sugarcane Aphid

*Melanaphis sacchari*




### Management guide

Sugarcane Aphid (Karlson, Sugarcane)  
Sugarcane Aphid (Texas Sugarcane)

### Pest Description

These are very pale yellow aphids with short, dark 'tailpipes' (cornicles). They are capable of very high rates of reproduction and produce copious amounts of honeydew. The sugarcane aphids seen in 2013 were gray to tan or light yellow. Unlike other common aphid species that feed on sorghum, sugarcane aphids have dark, paired, teliole-like structures, called cornicles, at the rear, and their tarsi (feet) are dark at high magnification. The dark cornicles and tarsi contrast distinctly with the lighter body color of the sugarcane aphid. Go to Texas A&M Agriles Extension Publication (H0305-021) for more information.

Current Information Map: Provided by EDDMaps5



Legend

- No Data
- Not Reported


EDDMaps5

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### Sugarcane aphid

Abundance: Southern (October, 1997)

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Legend

- No Data
- Not Reported

EDDMaps5


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### SUGARCANE APHID

Based on Apr 1st, 2013 11:43 AM Sugarcane aphid

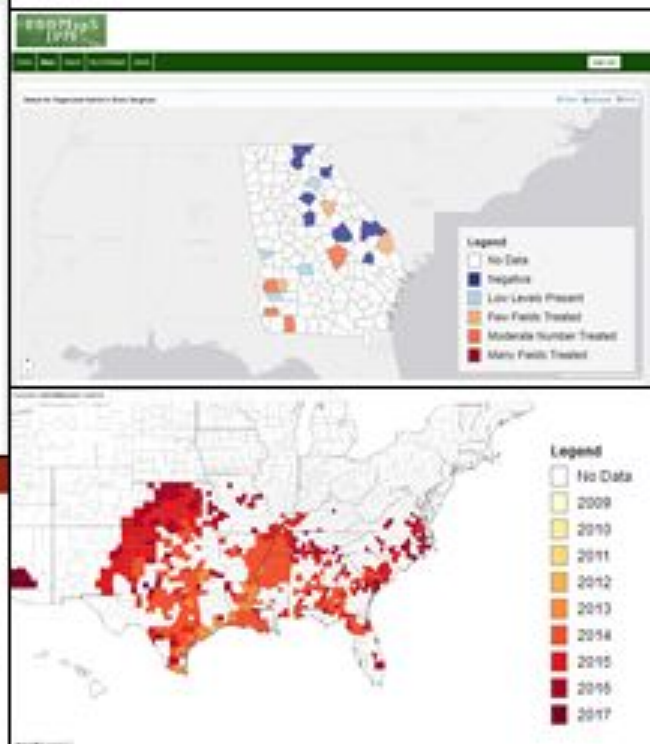
### SUGARCANE APHID TRACKER

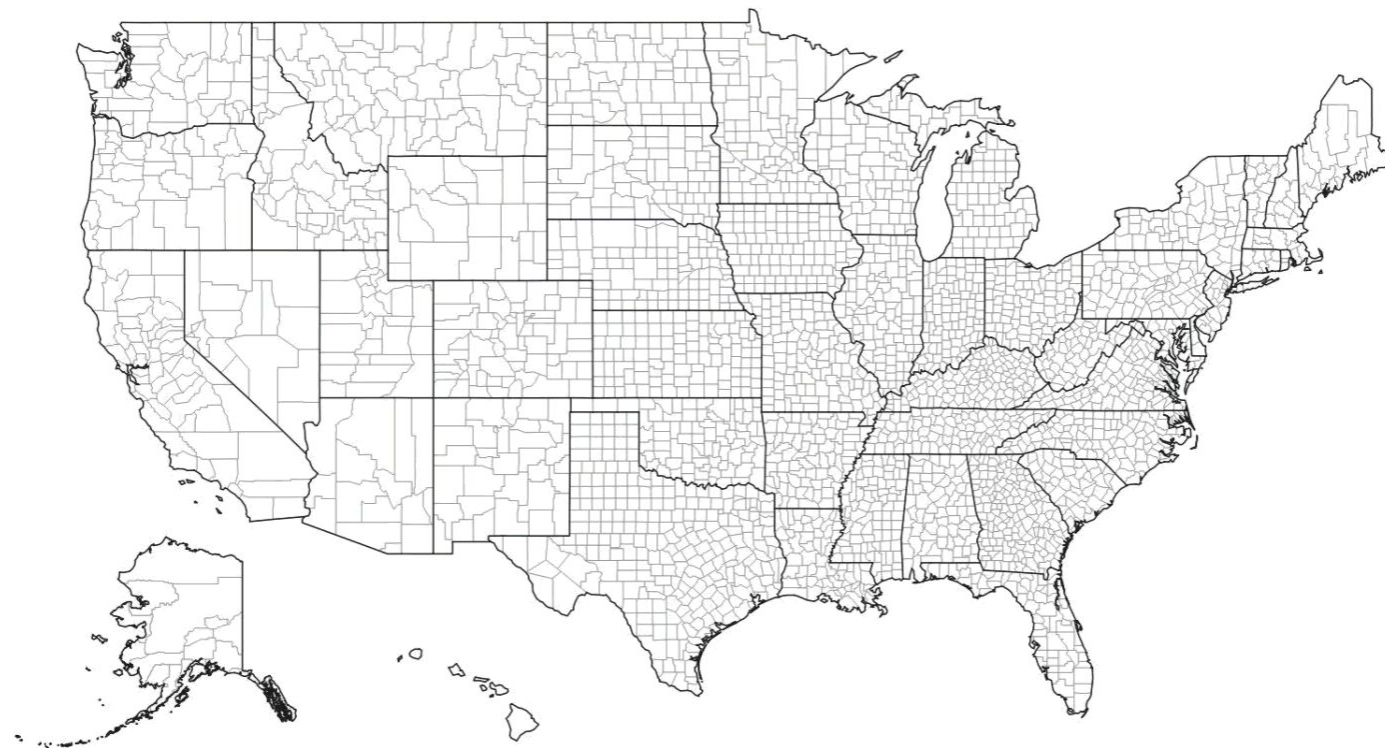
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Legend

- No Data
- Not Reported

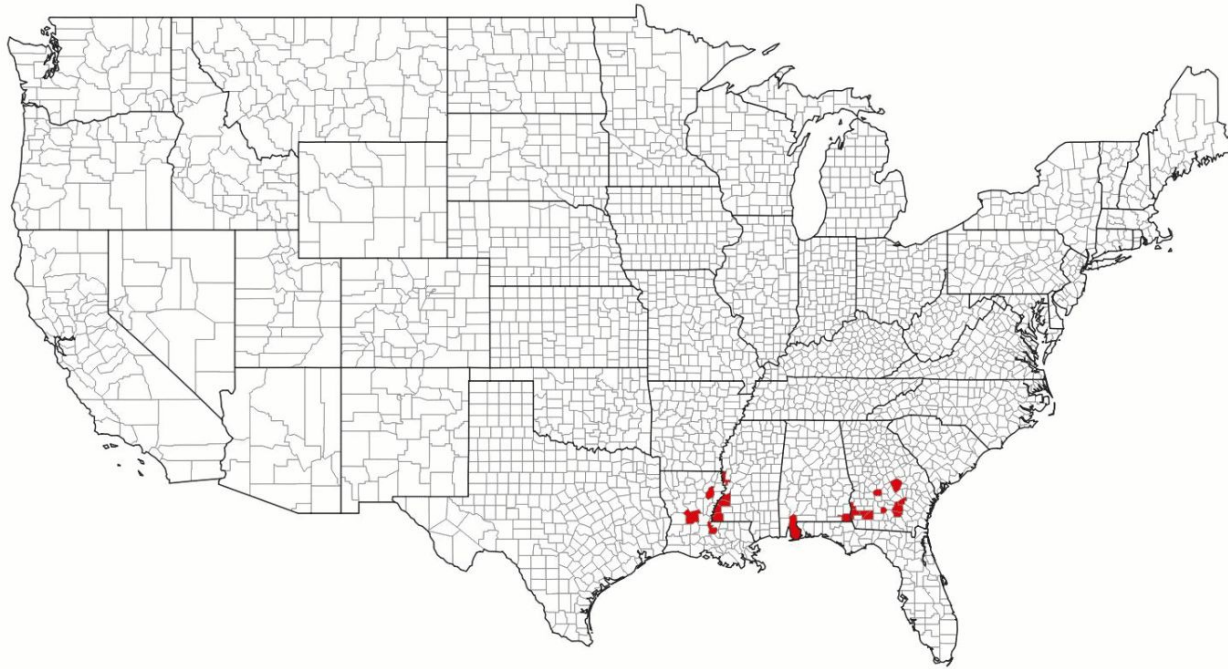


**Legend**

□ No Data

■ Species Reported

# Southern Corn Rust - 2019



## Legend

- No Data
- Scouted, but not found
- Probable
- Positive



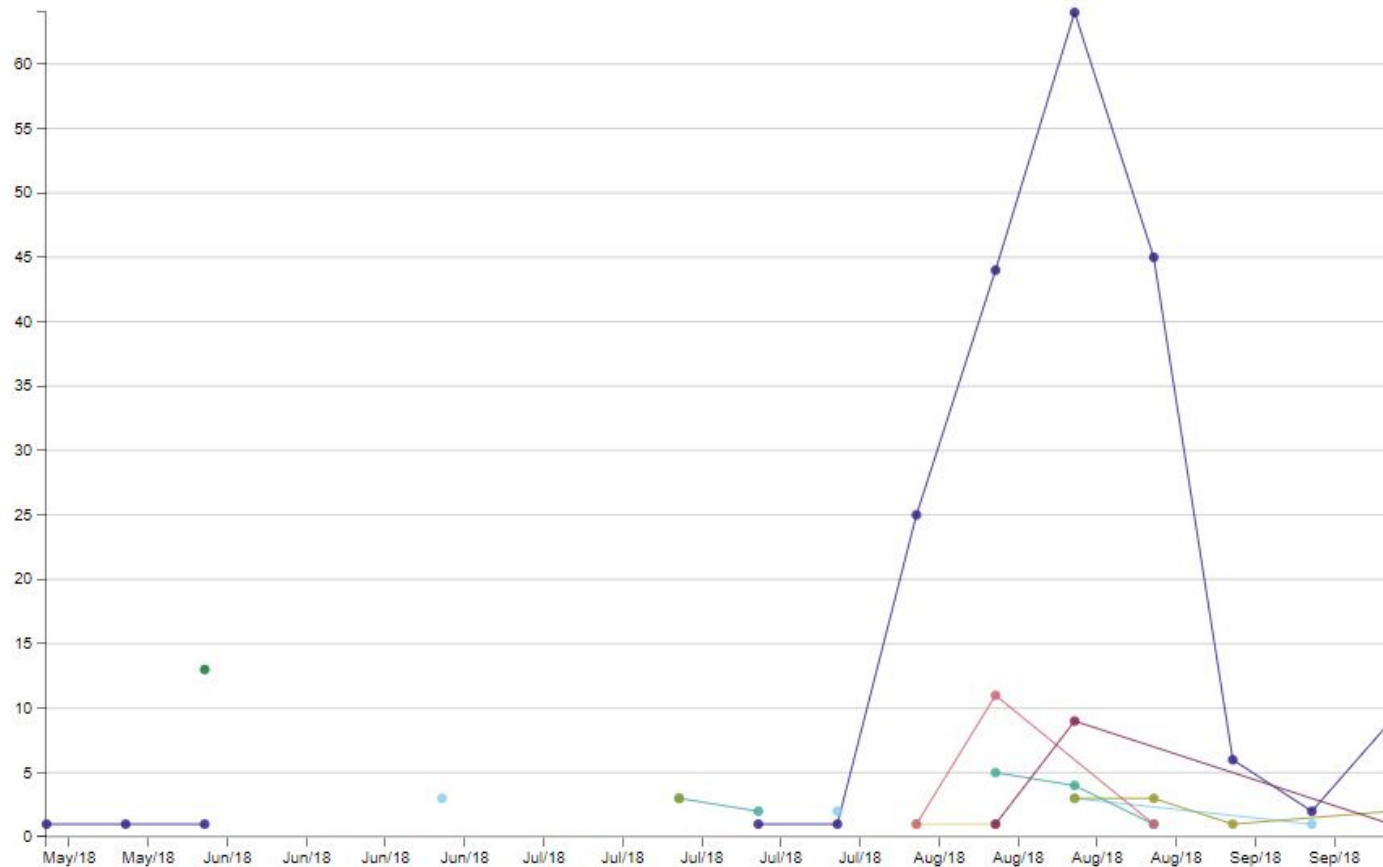
# DATA

## Suction Trap Network

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## Trap Data at Freeport

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*Rhopalosiphum padi*

*Capitophorus elaeagni*

*Aphis craccivora*

*Myzocallis spp.*

*Pemphigus spp.*

*Tetraneura spp.*

*Calaphis betulella*

*Rhopalosiphum nymphaeae*

# 2020 Commodity programs

- Corn - Southern Corn Rust and Tar Spot
- Soybean - Asian Soybean Rust
- Pecan - Pecan Weevil
- Wheat - Stripe Rust
- Cole crops (MI)
- Blueberries Cranberries and Grapes (NJ)
- Grapes (CT)
- Potatoes (FL)
- Potatoes and tomatoes (NC)
- Sorghum (TX)
- Urban Ag (NM)
- Vegetables (MA)

# 2020 Pest programs

- Spotted Wing Drosophila (NY, KY, GA) - Traps
- Brown Marmorated Stink Bug (NY, MA) - Traps/Citizen
- Rose Rosette Disease - Citizen
- Sugarcane Aphid - Scouts/Experts (myFields)
- Aphids (Suction Trap Network)
- + Invasive Species Monitoring / Detection

# Forms of reporting & sources of data

## Direct In-Season Reporting

- Expert personal communication of county pest status
- Volunteer / First detector reporting at any location with option for verification
- Sentinel Plots - repeated measures at a location on a variety by experts
- Volunteer Monitoring sites - repeated measures at a location with option for verification

## Linked Reporting Platforms

- myFields
- Farm Dog
- iNaturalist
- CalFlora

## Other Sources

- Bulk Data
- Literature



# What can we say with the data?

If the data supports it - we can show it... However...

- Is this something that can **positively** affect management?
- Is the message clear?
- How can we send this signal to other programs?
- Who else can provide insight on this data?

What's the future hold?

