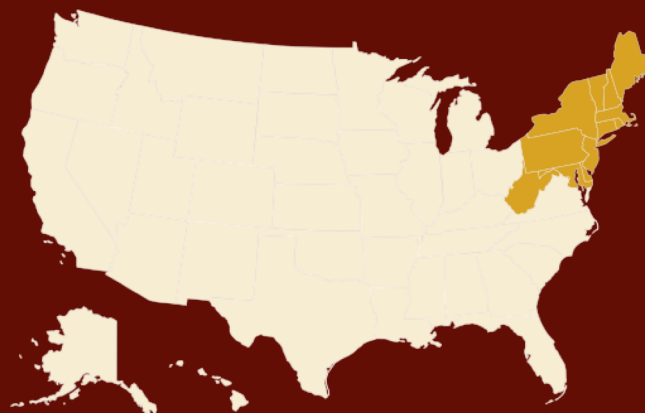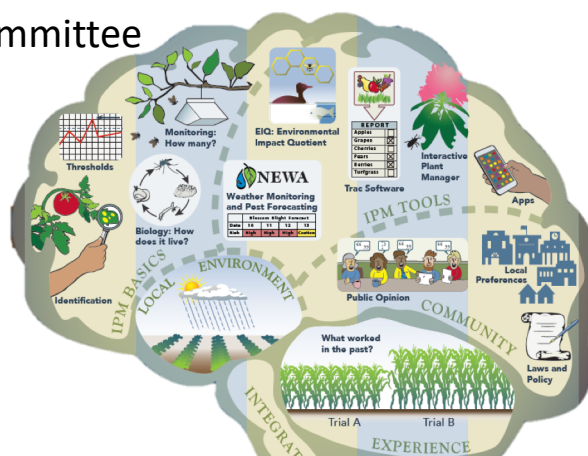# NEERA 1604 Update

Kelly Hamby
Maryland IPM Coordinator

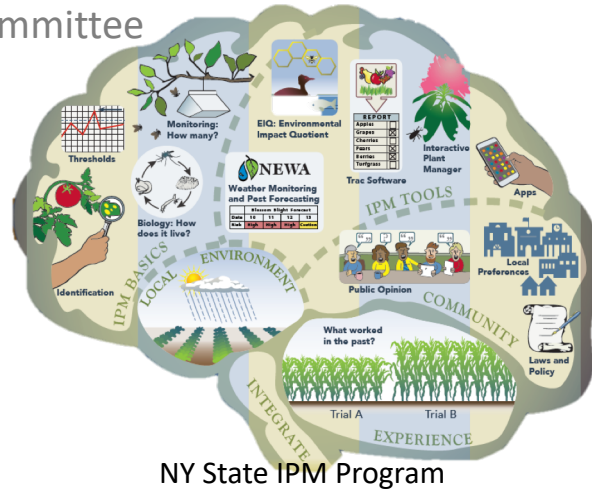# Outline

- NE IPM programming and impact highlights
- Regional IPM issues
- NEERA 1604 committee
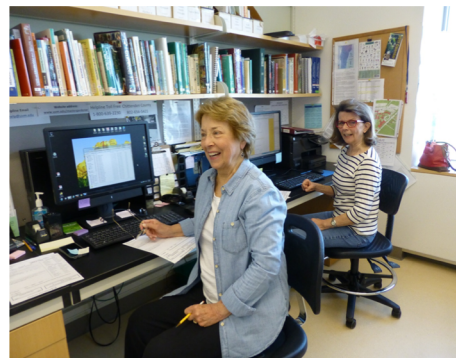
NY State IPM Program

Outline

- **NE IPM programming and impact highlights**
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NY State IPM Program

Pest Diagnostic Facilities

- Most facilities in NE process ~700-800 samples/year
- VT Master Gardener Helpline over 1,000 questions/year

Impacts:

73% of commercial growers and 70% of home gardeners reduced pesticide use as a result of the diagnosis

THE UNIVERSITY OF VERMONT
EXTENSION

Pest Monitoring

- Blacklight and pheromone trapping program since 1970's

- Used to make decisions on 73,000 acres

Impacts:

Prevents $75 per acre in yield loss
$25 per acre savings in insecticide inputs

Scouting and Sentinel Plots

- Area wide monitoring and forecasting for mildew and blight

- Statewide soybean insect and disease pressure

Anticipated impacts:

Adoption of pest monitoring and threshold-based decision making

Reduced production costs

Mentor Farmer Program

- On-farm visits every 1-2 weeks to address farm identified goals, teach scouting and diagnostics, and make recommendations

Impacts:

>85% adoption of IPM recommendations by Mentor farmers

Invasive Species Programming

- Reached 30,000 CT citizens in 2017 with a total of 208 invasive plant activities including intensive training sessions
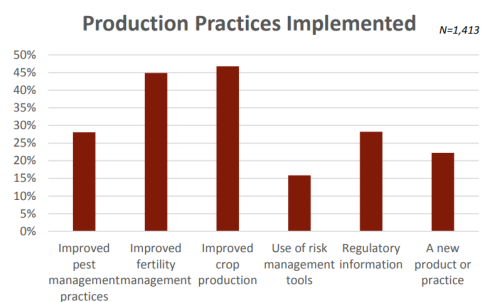

Anticipated impacts:

Improved management of invasive plants

Extension Impacts

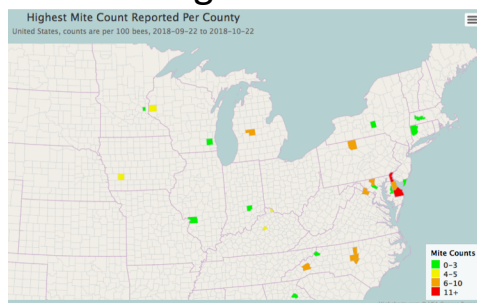- Surveys of >3,200 agronomy winter meeting participants conducted from 2012-2016

Production Practices Implemented   N=1,413

Impacts:

↑ $16.23-$25.32 per acre profitability
↑ 6.5%-9.5% per acre yield

Apiculture

- Sentinel hives, disease and management surveys, tailored online management recommendations

Highest Mite Count Reported Per County
United States, counts are per 100 bees, 2018-09-22 to 2018-10-22

Mite Counts
0-3
4-5
6-10
11+

Anticipated impacts:

Reduction in honey bee colony losses

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NY State IPM Program
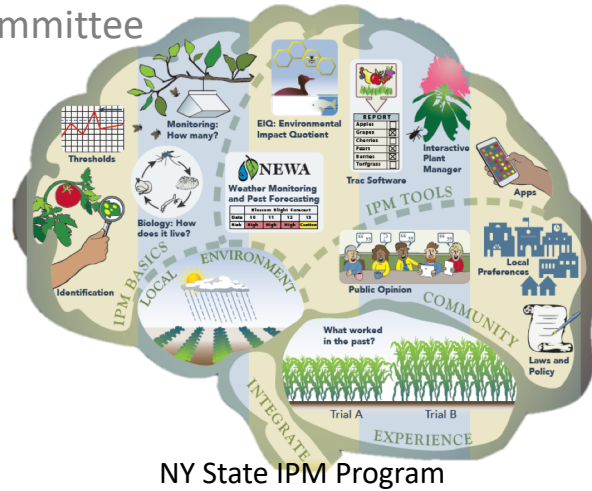
Invasive and Emerging Pests

- Regionally integrated response and models for collaboration among APHIS, Universities, State Departments of Agriculture

- Disrupting IPM programs

Longhorned tick
Haemaphysalis longicornis
Can reproduce asexually
800-2,000 eggs

Spotted Lanternfly
Lycorma delicatula
Grape, tree fruit, hardwood,
nursery and landscape industries at risk

Urban IPM

- Need more resources for urban IPM programming
- Urban and suburban populations growing

Weed Management

- Herbicide tolerant weeds
- Management in green industry, vegetables and organic systems

Bridging Language Barriers

- PA received funding to promote IPM and worker safety for Hispanic mushroom farmers
- Needs assessments and workshops for communicating with Spanish speaking employees in MA
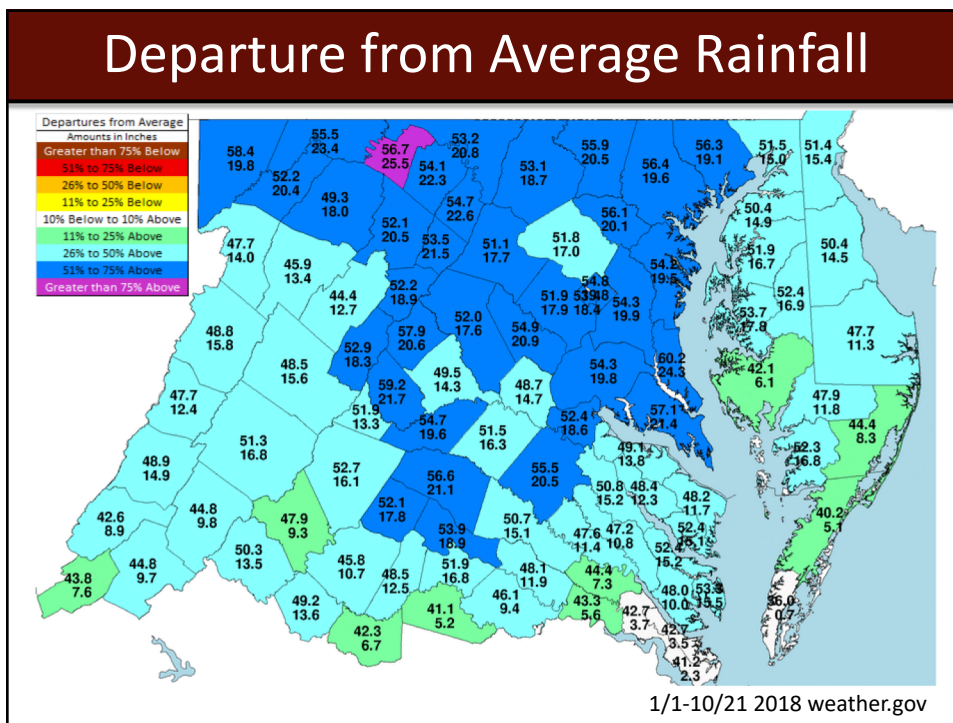
Farm Challenges

What do you consider to be the greatest challenges pertaining to your farm and farming operation?
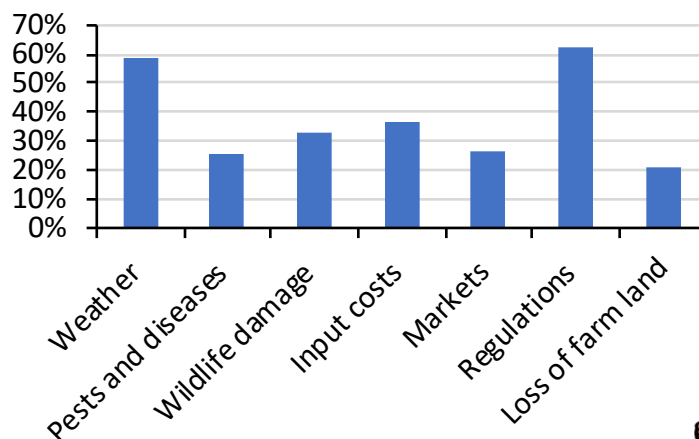
N=2,549 agronomy meeting participants 2012-2016

Departure from Average Rainfall

1/1-10/21 2018 weather.gov

Climate

- Flooded fields, re-plants and late planting

- Impacted seasonal phenology and pest pressure, reductions in quality for most crops

- Need to increase farm resiliency to extreme weather and climate variability

Climatesmartfarming.org

The Delmarva Farmer

You-picks waiting on a bit more sunshine

by Michelle Sheldone | Oct 19, 2018

October is typically the time of year when Mid-Atlantic orchards amid the peak of the fall foliage season welcome families and school groups with hay and wagon rides and corn mazes.

Children eager for Halloween flock to pumpkin patches, and feast on apple "everything" — cider, cider donuts, dumplings, salsas, candy apples and more.

Vector-Borne Illness

How Lyme Disease Cases Have Spread In The U.S.

The number of confirmed and probable Lyme disease cases in the U.S. more than doubled from 2001 to 2015. In 2015, 95 percent of confirmed cases were reported in the 14 states labeled below.
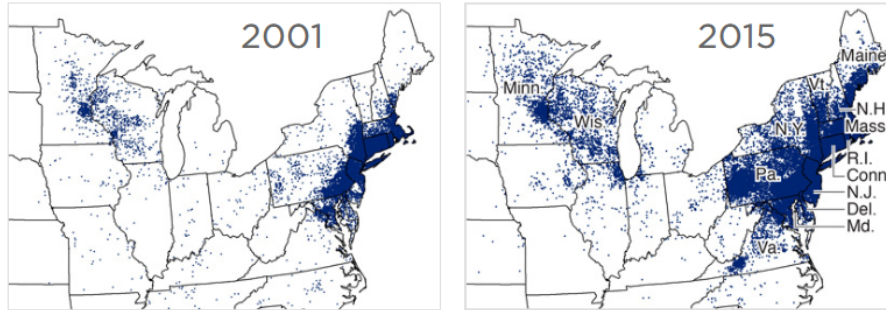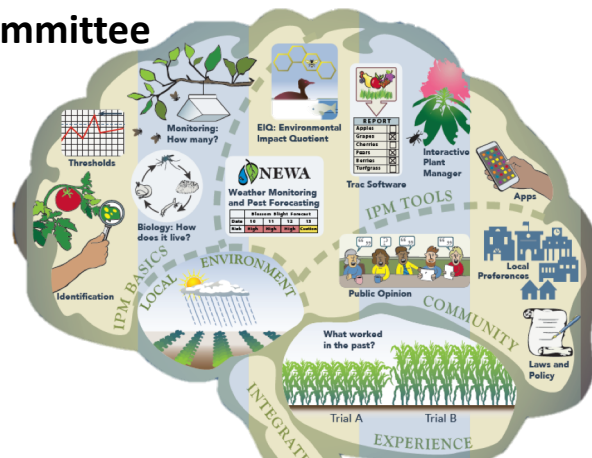
Notes

Because data are reported on the county level, the CDC randomly placed a dot within the county of residence for each case.

Source: *Centers for Disease Control and Prevention*
Credit: Map: CDC. Annotation: Katie Park/NPR

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NY State IPM Program

NEERA 1604 Annual Meeting

- 2018 held at International IPM Symposium
  - Chair: Donna Ellis, CT
- Spring 2019 at University of Maryland
  - Chair: Kelly Hamby, MD
- 2020 TBD
  - Chair: Hilary Sandler, MA

Update Regional Priorities

Organized by NEIPM Center Signature Programs
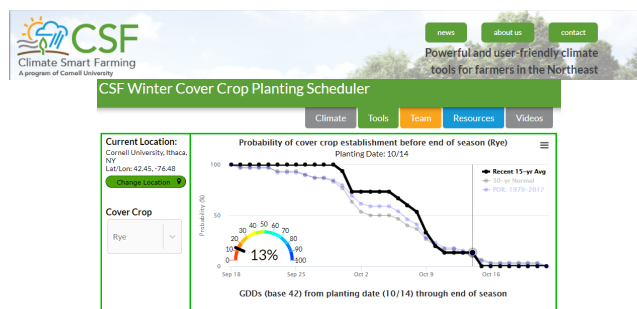
Next Generation Education

- Develop programs and tools for young farmers, non-English speakers, and diverse communities

- Adopt innovate programming technologies, such as Massive Open Online Courses, social media, and video

- Link with workforce development efforts

Other

- Improve metrics of IPM adoption by creating standardized IPM performance metrics

- Increase resources dedicated to pollinator health

- Increase collaboration (within and among regions) to more effectively use resources, better coordinate research and outreach, and locate alternative sources of funding

Build Connections

- Joined Network for Weather and Environmental Applications (NEWA)
- Training county agents using Climate Smart Farming website

Clip From Impact Video