NEERA 1604 Update



Kelly Hamby Maryland IPM Coordinator



Outline

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



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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



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

cucurbit downy mildew

FORECASTING

PREDICT PREVENT

and blight



Statewide soybean insect and disease pressure

Anticipated impacts:

Adoption of pest monitoring and thresholdbased decision making

Reduced production costs



Cucurbit

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



Apiculture

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



Anticipated impacts:

Reduction in honey bee colony losses



IPM in Housing

 StopPests is funded by HUD and provides consultation and IPM training to affordable housing providers



Before and after IPM case management in a child's bedroom

Success stories:

Reductions in pest management costs Increased resident participation



Extension Impacts

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







个 \$16.23-\$25.32 per acre profitability 个 6.5%-9.5% per acre yield



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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?





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





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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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

