



Public Tick IPM Working Group

April 8th, 2020

Please send additions, omissions or other corrections to vmcgoldrick@ipminstitute.org or mweber@ipminstitute.org

The Working Group meets via conference call on the second Wednesday of each month at 1:00PM CT (2:00PM EST). The following notes are for **April 8th, 2020**

Roll

1. Bob Maurais, Mainely Ticks
2. Joellen Marie Lampman, New York State IPM Cornell University
3. Kirby Stafford, Connecticut Agricultural Experiment Station
4. Valerie McGoldrick, IPM Institute
5. Maria Weber, IPM Institute
6. Tim Fox, Madison Area Lyme Disease Support Group
7. Ashley Kennedy, Army Public Health Center
8. Chris Przybyszewski, US Biologic
9. Gloria Kim, Limiting Lyme
10. Holly Gaff, Old Dominion University
11. Scott William, Connecticut Agricultural Experiment Station
12. Maria Diuk-Wasser, Columbia University
13. Alexis White, Old Dominion University
14. Erica Lindroth, Armed Forces Pest Management Board

Agenda

1. Dr. Tom Mather will present his research on the abundance of ticks on mice in tick-sprayed yards and the implications for justifying an integrated habitat-targeted and host-targeted approach to backyard tick control.
2. Discussion of a session proposal for the 2021 International IPM Symposium
 - a. Call for proposals: https://ipmsymposium.org/2021/call_for_proposals.html
3. Discussion of first draft of the National Asian Longhorned Tick Pest Alert
 - a. Pest Alert draft:
https://docs.google.com/document/d/1Z4krpefiO7ct4KdePKddlftbFM4_c2adTwWZLZrOXs/edit?usp=sharing
4. Updates, comments and announcements from the working group members

A recording of this call and presentation is available by visiting this link:

<https://transcripts.gotomeeting.com/#/s/ae48ff0927b54ae9e6c9845e59ac9d1a1b860b3274ef393c4ac00c64b067f570>

Introduction: Valerie McGoldrick, new co-facilitator for the Public Tick IPM Working Group

- Valerie is the Community IPM Coordinator at the IPM Institute of North America
 - Excited to be a part of the team!

Dr. Tom Mather presenting “Tick Sprays Don’t Eliminate All Backyard Ticks: Justifying an Integrated Tick Management Approach”

- Research study from summer 2019
- Study question: are white-footed mice that reside in and around acaricide-treated residential yards still infested with nymphal or larval *I. scapularis* ticks



- Our thought going in: “You would think so given that treatments are only perimeter sprays.”
- Study Design
 - To treated with natural products (mostly cedar oil)
 - 10 untreated neighborhood-match control properties
 - 10 treated with bifenthrin
- Trap used
 - Longworth trap
 - Baited with cotton and oats
 - In previous comparison with Sherman trap, Longworth usually outperforms
 - Did not examine chipmunks that were caught
 - Usually having to be anesthetized
- Research metric: Larval and nymphal tick counts on mice
- Goal: 10% trapping success
 - 40 mice per treatment round
- Over 3,000 ticks collected over the course of the study
 - Most came from second round in late July and early August
 - Larvae more abundant than nymphs
- Statistical differences:
 - Untreated: Most ticks
 - Natural: intermediate amount of ticks
 - Bifenthrin treated: Least ticks
 - Example bifenthrin property:
 - Avg. ticks/mouse: 7
 - Avg. August ticks/mouse: 3.6
 - Example natural product-treated property (cedar oil)
 - Generally half or more of the caught mice had ticks
 - Factor in less caught than expected: Natural yards we recruited tended to be less overgrown and therefore be less great tick habitat
 - Avg. ticks/mouse: 12.2
 - Avg. August ticks/mouse: 15
- Takeaway: Ticks are still present in bifenthrin-treated yards, so an integrated approach should be used
- Questions
 - Tim Fox: How do you remove the ticks from the mice?
 - Fine pointed tweezers
 - All placed in individual vials
 - Later put into petri dishes to check under microscope
 - Bob Maurais: Is there any consideration of going back to these properties after a year to treat with TheraCell tubes/other ITM technologies?
 - Tom: Stayed away from an actual product test, more focused on an integrated approach
 - Allegra of TheraCell was happy to assist with IPM product
 - Was more interested in if it was needed as part of a tick control program

Discussion of a session proposal for the 2021 International IPM Symposium

- The 10th International IPM Symposium will be held March 15-18, 2021 in Denver, Colorado
 - Theme: Implementing IPM Across Borders and Disciplines



- At the 2018 conference the Tick IPM Working group presented on *Integrated Tick Management: Community-Wide Action to Address the Global Tick Problem*. It was a two-day long summit.
- Members of the Tick IPM Working Group will be holding a program session proposal planning call immediately following the April Tick IPM Working group call
 - **Session proposals are due by Monday, April 20, 2020**
 - Bob Maurais proposed a program session that would focus on community approaches to the tick problem where working group members would present on what they are doing locally
 - Fits well into the subtheme of “Beyond the Field and Into the Community: community, urban, structural IPM, built environments, master gardeners
- Opening the floor: Would anyone on the call be interested in serving as a presenter for the program session?
 - Presenting is open to non-academics. The IPM Symposium Program Committee is actively encouraging non-academics to attend and present
 - Kirby: Possibly interested in presenting
 - Tom Mather: Happy to listen in to planning call
- Bob: Define a 90-Minute Session?
 - 3 presenters, 20 mins + 10

Discussion of first draft of the National Asian Longhorned Tick Pest Alert

- Pest Alert draft:
https://docs.google.com/document/d/1Z4krpefiO7ct4KdePKddlftbFM4_c2adTwWZLrOXs/edit?usp=sharing
- Please forward any new and relevant information to the group through the Public Tick IPM WG listserv
- Reminder of the different sections:
 - Introduction
 - Origin and Distribution
 - Life Cycle and Identification
 - Human Health Concerns
 - Animal Health Concerns
 - Reporting a Suspected Asian Longhorn Tick

Updates, Comments and Announcements from the Working Group Members

- Tom Mather: I don't know how it is where you all are, but our TickSpotters Program is showing a very strong start this year due to a seeming abundance of ticks
 - Almost started at the exact same time as when restrictions were set on people's movement
 - People have been spending more time walking dogs, etc...
 - Submission was up 80% versus March of 2019
 - Kirby: Agreed! Combination of more people being out and also higher amount of ticks in general
- Bob: Good reminder for people that ticks don't social distance
- Holly: In Virginia, huge amount of Ixodes
 - At one of the sites, we got 14 adult blacklegged ticks
 - Unheard of for us
 - Tom: Found 350 ticks in 15 minutes!

These notes are for a Working Group call on **April 8th, 2020**. Future calls will continue to fall on the second Wednesday of each month at **1 PM Central time**.



The Public Tick IPM Working Group is funded by the USDA National Institute of Food and Agriculture, Crop Protection and Pest Management Program through the North Central IPM Center.