

Mid Atlantic Mosquito Control Association

2013 Conference Notes

Pennsylvania Tick Surveillance and Testing Results - Mike Hutchinson

- a) Why a TBD program?
 - i) Human powassan case late 2011
 - ii) In top 3 for human Lyme disease cases
- b) Surveillance
 - i) Flags
 - ii) Drags
 - iii) Dry ice traps
 - iv) Animal host collections
 - (1) Human
 - (2) Groundhogs
 - (3) White-tailed deer
 - (4) Black bear
 - (5) Cats
 - (6) Dogs
- c) Results
 - i) 2500 from 5 species
 - (1) Ixodes scapularis
 - (2) Dermacentor variabilis
 - (3) Dermacentor albipictus
 - (4) Amblyomma americanum
 - (5) Ixodes cookei
 - ii) 52% of I scapularis positive for Borrelia burgdorferi
 - iii) Ran a number of quality assurance / quality control tests to confirm results
 - iv) Detected low rates of a few other pathogens
- d) Future plans
 - i) Do additional surveillance
 - ii) Determine co-infection rates
 - (1) Babesia microti
 - (2) Anaplasma phagocytophilum
 - (3) Borrelia burgdorferi
 - iii) Look for the Borrelia miyamotoi