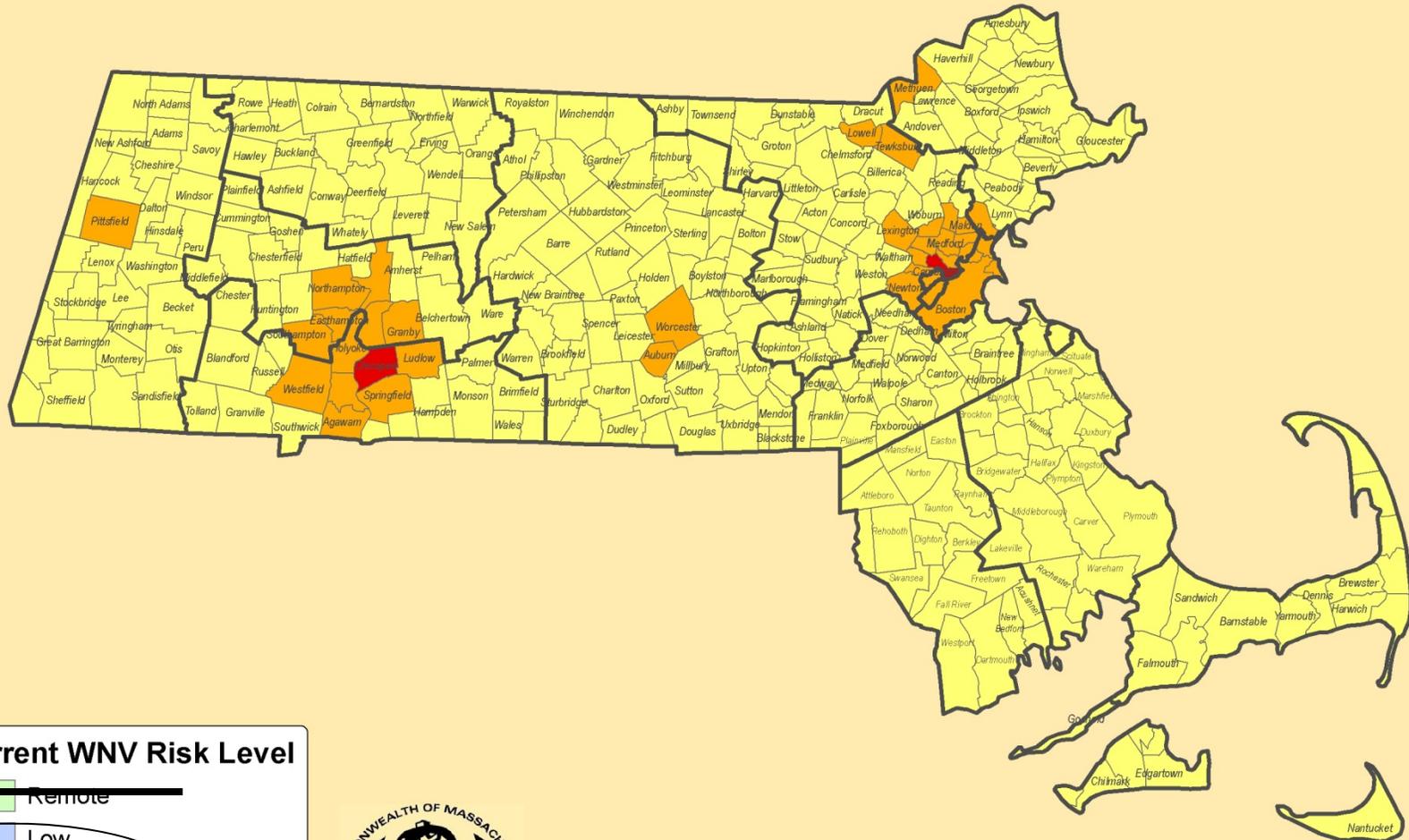


Massachusetts WNV Risk Categories



Current WNV Risk Level

- Remote
- Low
- Moderate
- High
- Critical



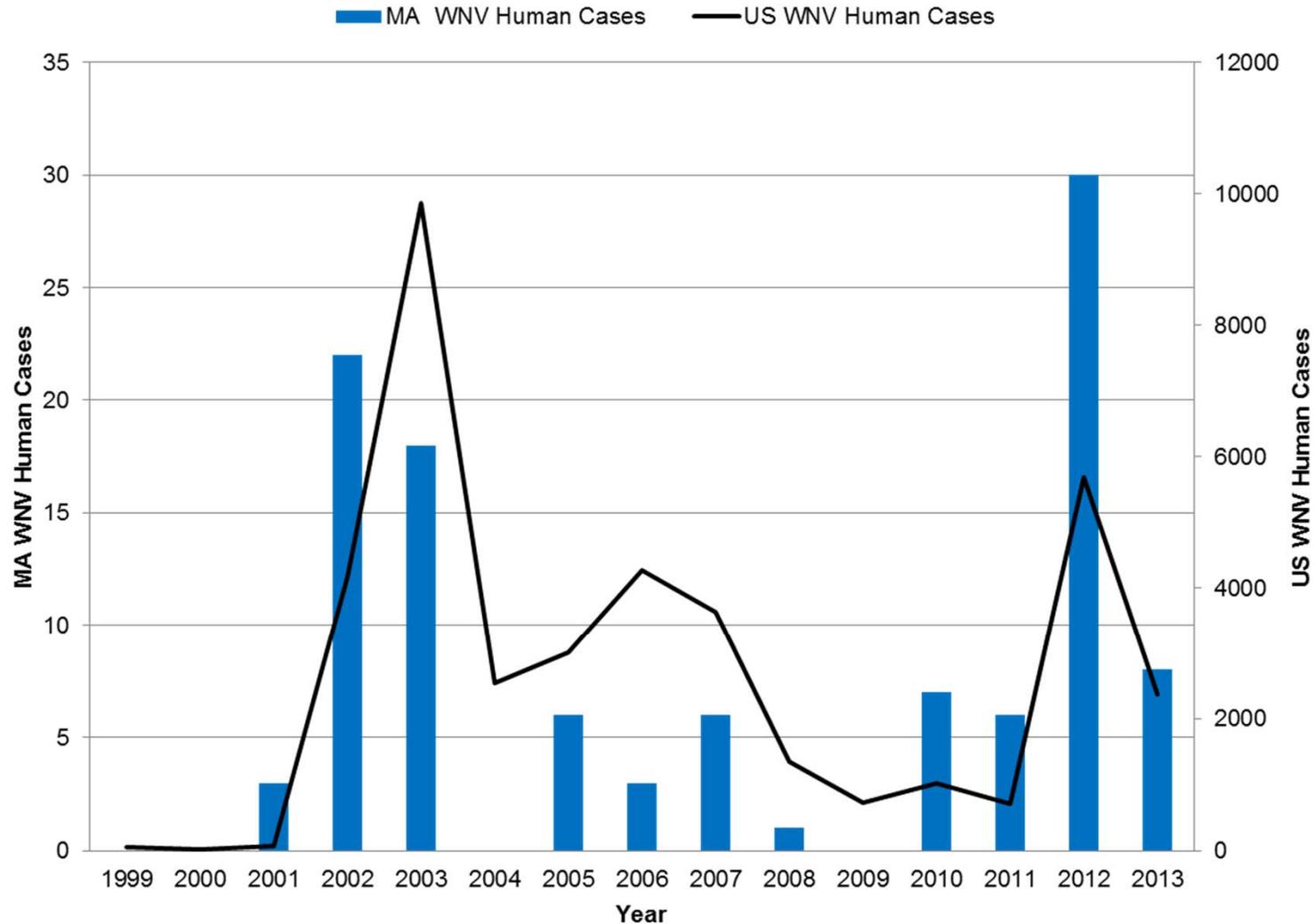
Effective September 20, 2012

State Laboratory Institute
Arbovirus Surveillance Program

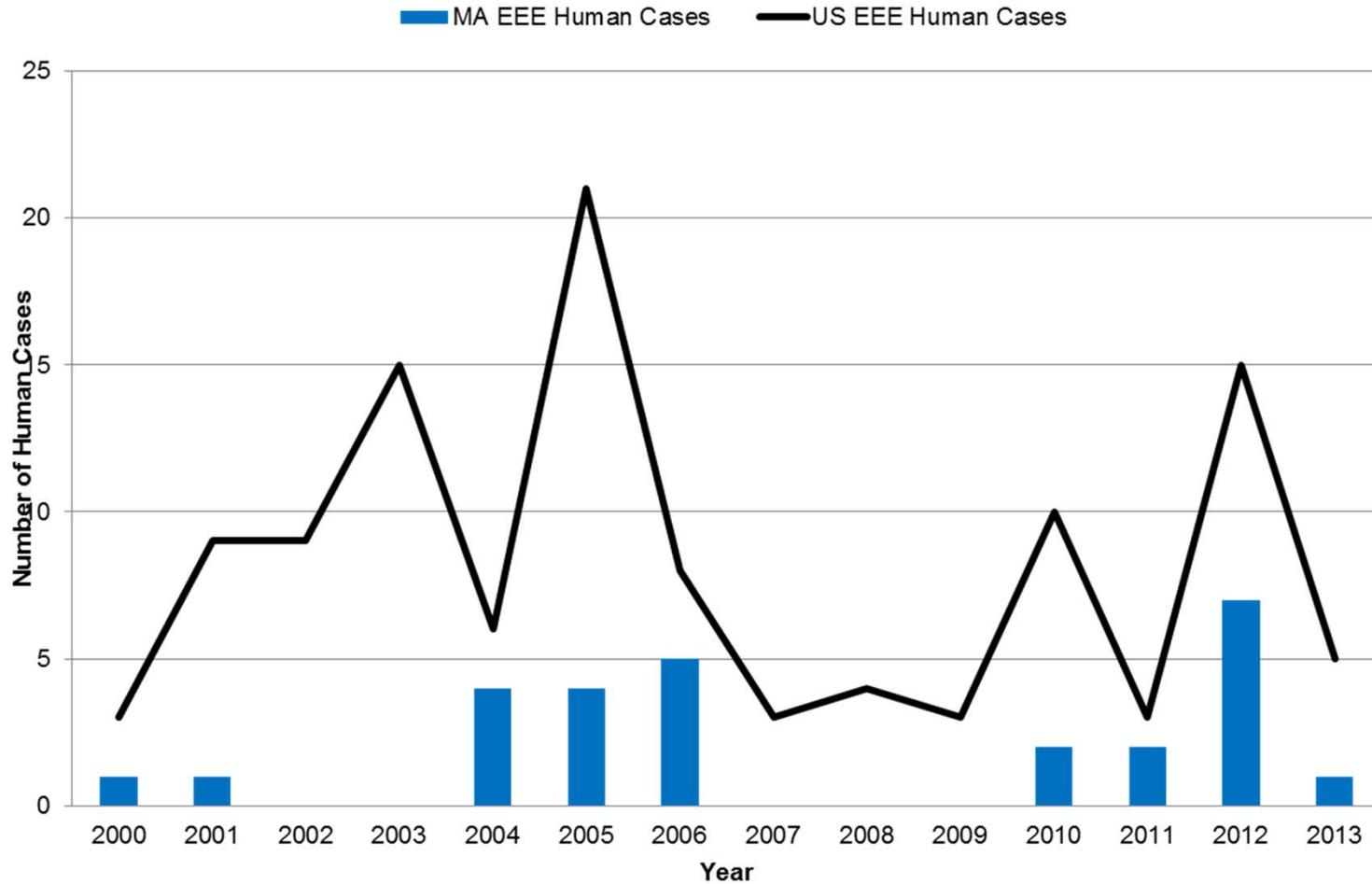
2013 Successes

- Moderate WNV activity with low EEE activity
- Smoother chains of communication with prompt reporting of all results
- More standardization between communities with respect to curtailing evening activities
- Better alignment of WNV risk categories with recommended responses

Number of WNV Human Cases MA and US, 1999-2013



Number of EEE Human Cases MA and US, 2000-2013



Efficient and Timely Communication to Protect Public Health

- Mosquito results communicated daily to
 - Local health departments
 - Mosquito control projects
- Locals need time to plan/coordinate response activities
 - Notification after 3 PM can delay response > 24 hours
 - Notification after 12 PM Friday can delay response until Monday
- Weekly report with data summary

Laboratory Diagnostics

- 2013 season
 - 549 patients tested for WNV and EEE
 - 16 veterinary patients
 - Contrast with 2012 – 1118 humans, 21 animals
- Optimized Turn-around Times
 - 2 step process: screening followed by confirmation
 - Same day to 7 days
 - Dependent upon sample type and testing algorithm
- Correlation with clinical presentation
 - Epidemiologists communicate with physicians and/or patients
 - Symptoms information
 - Exposure history

Need for Timely Communication

- MDs and DVMs need test results for clinical decision-making
- Already inherent delay in acquiring and testing people/animals
- Positive screening test
 - Communicate with MD
 - If clinically consistent:
 - Share with local public health and Mosquito Control Program
 - Allows time to plan/coordinate response activities

DPH Risk Assessment Communication

- Routine Risk Assessment
 - Data analysis and discussion with partners
 - Assessments released biweekly
- Emergent Risk Assessments
 - Primarily EEE at elevated risk levels
 - Released promptly
 - Triggers specific public health recommendations
 - Need to implement without delay