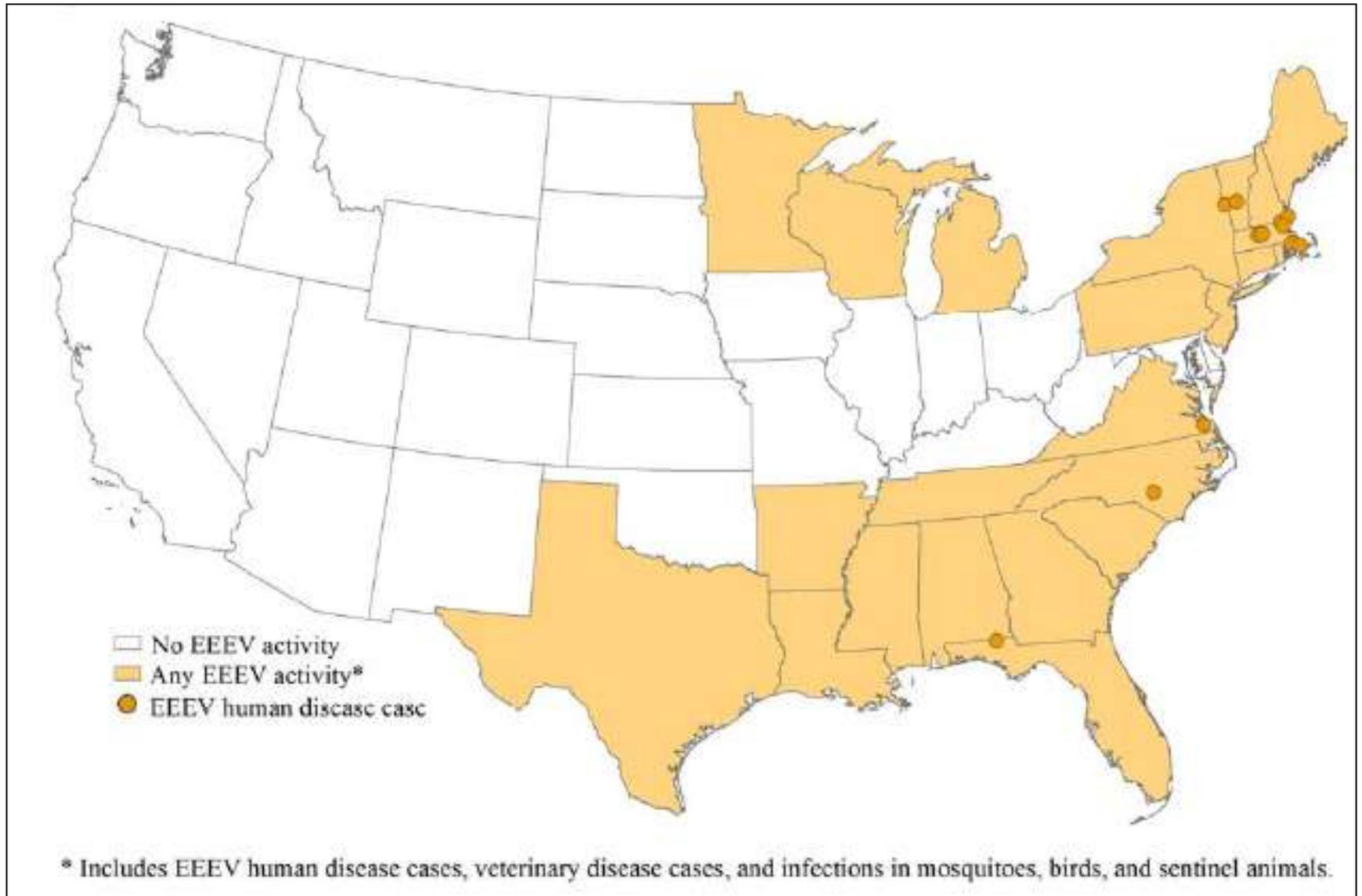


Eastern Equine Encephalitis (EEE)

- **Most Severe Domestic Arbovirus (Arthropod-borne virus)**
 - US average of 6 cases a year since 1964
 - Majority of people infected asymptomatic
 - Severe illness characterized by
 - High fever, headache, chills, vomiting, encephalitis, seizures, disorientation, coma
 - **33% Mortality Rate**
 - Most survivors suffer significant brain damage
 - **Risk Factors:**
 - Persons over age 50 or under age 15
 - Outdoor exposures (recreational or professional) in endemic areas
- **In 2012 there have been 12 reported human EEE cases with 5 deaths in the United States**

Eastern equine encephalitis virus (EEEV) activity reported to ArboNET, by state, United States, 2012 (as of November 27, 2012)



2012:Northern New England EEE Activity

- Massachusetts
 - 7 human cases, 3 deaths
 - 5 equine cases, 2 alpaca cases
 - 166 positive mosquito pools
- Vermont
 - 2 human cases, 2 deaths
 - 2 equine cases
 - 10 positive mosquito pools
- New Hampshire
 - 2 equine cases, 2 avian cases (emus)
 - 9 positive mosquito pools
- Maine
 - 1 pheasant flock (1 confirmed death, >30 birds expired, flock eventually culled to prevent further transmission)

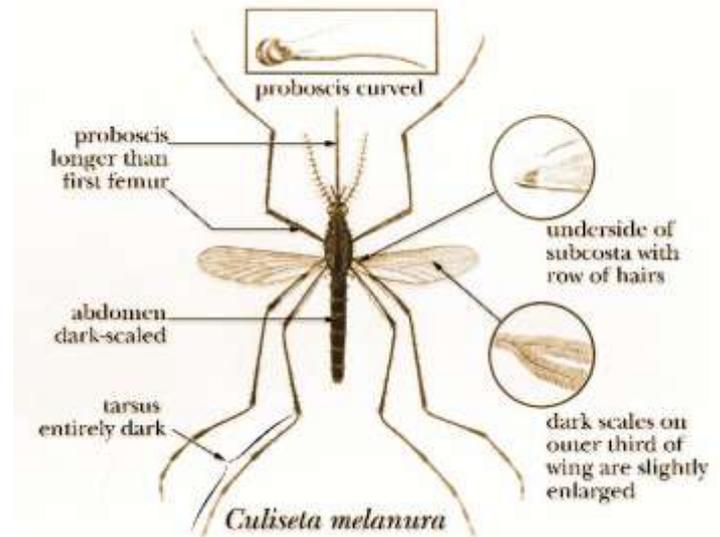
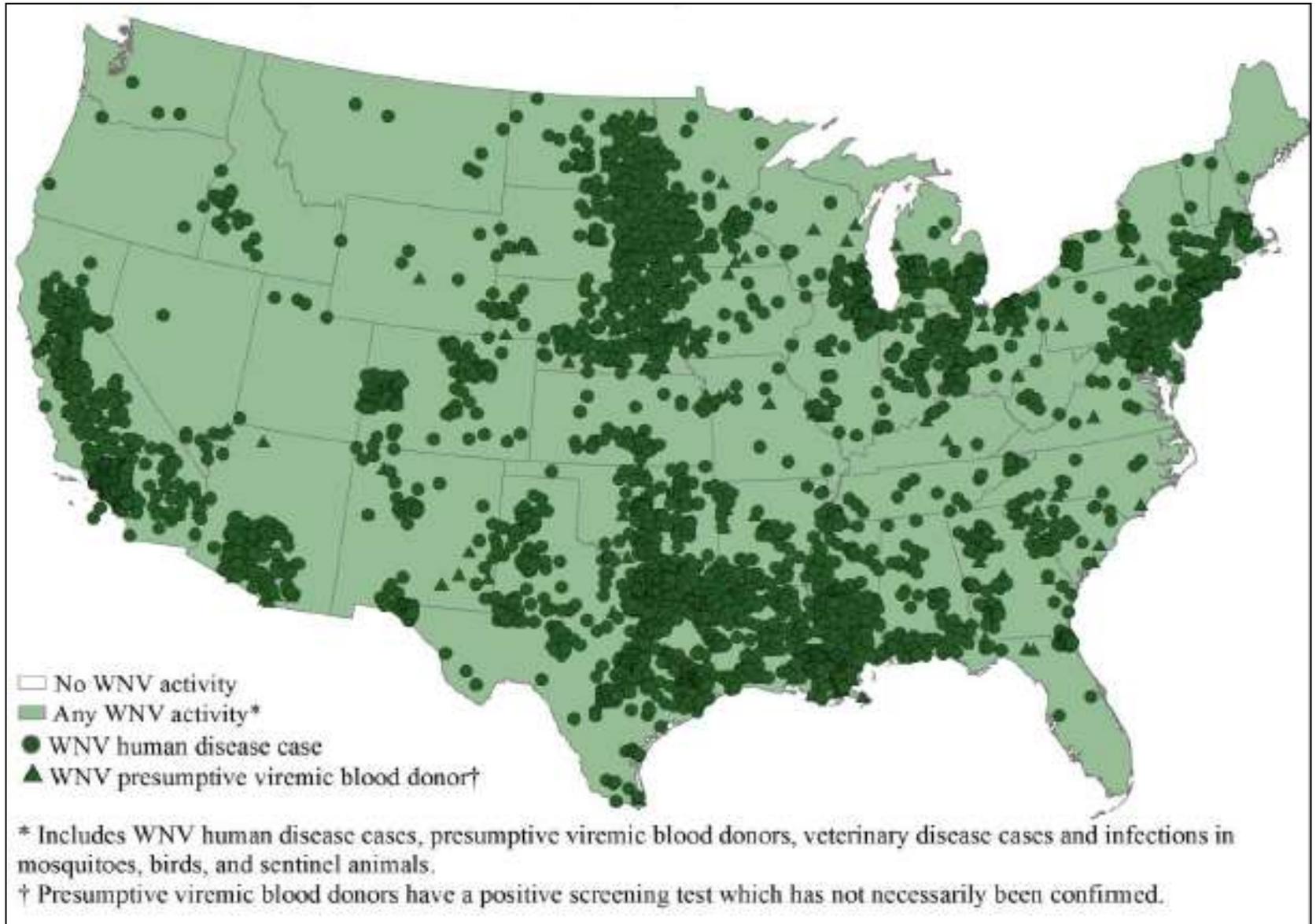


Image: Federal CDC

West Nile Virus (WNV)

- Arbovirus introduced to North America in 1999
- Swiftly spread throughout the United States
- 2012 is the most active year for WNV since 2003 with 5,245 cases reported as of November 27th
 - 1/3 of the national case load comes from Texas
 - 51% of the cases were classified as neuroinvasive disease
 - Cases presenting with symptoms such as encephalitis or meningitis
 - There have been 234 deaths associated with WNV this year
- Most people infected with WNV are asymptomatic
- Risk factors:
 - Persons over age 50
 - Outdoor exposures (recreational or professional) in endemic areas

West Nile virus (WNV) activity reported to ArboNET, by state, United States, 2012 (as of November 20, 2012)



WNV in Maine, 2012

- 8/1/12:
 - 1 WNV + mosquito pool collected in Lebanon, York County
 - 1 WNV + mosquito pool collected in Gorham, Cumberland County
- 8/23/12
 - 2 WNV + mosquito pools collected in Gorham & Standish, Cumberland County
- 8/30/12
 - 1 WNV + mosquito pool collected in Scarborough, Cumberland County
- 8/31/2012
 - 1 WNV + mosquito pool collected in Scarborough, Cumberland County
- 9/06/2012
 - 1 WNV + mosquito pool collected in Biddeford, York County

AND...

WNV in Maine, 2012 (continued)

- 10/1/12
 - Symptom onset of Maine's first EVER locally acquired case of WNV neuroinvasive disease in a Maine resident from Cumberland County
 - Previously healthy, no travel history
 - Presented with encephalitis, meningitis, double vision, extreme muscle weakness...
 - Laboratory diagnosed with WNV IgM present in serum & CSF
 - Patient has since recovered



Image: Federal CDC