Epidemiology Resource Center

EASTERN EQUINE ENCEPHALITIS VIRUS



Mosquito-borne alphavirus

Endemic in eastern US



Rare cause of severe illness in humans, horses

Reservoir: passerine birds

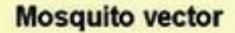
Vector: cattail mosquitoes



Habitat: Freshwater wetlands

Passer domesticus. Joe Ravi, CC-BY-SA 3.0. Coquilletidia perturbans. Mardon Erbland. Eby Bog, Elkhart County, IN. ACRES Land Trust.

Transmission cycle of EEEV







Dead-end hosts



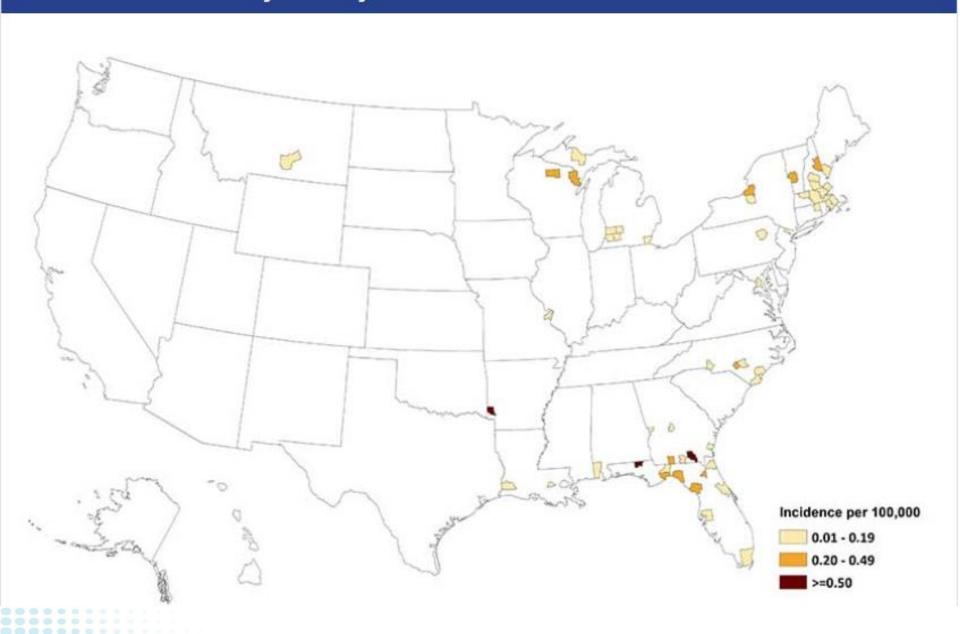


Bridge vector

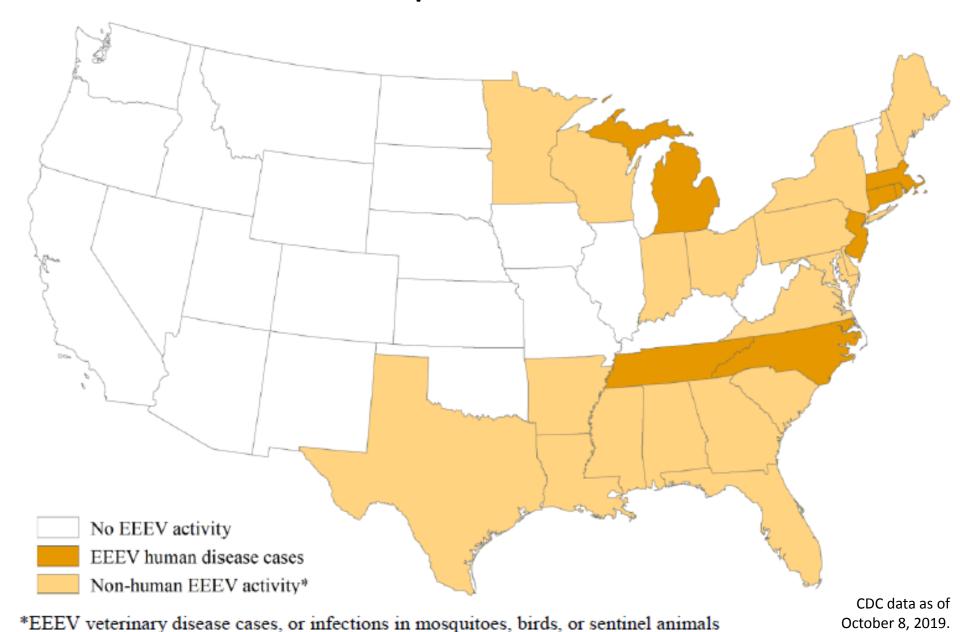




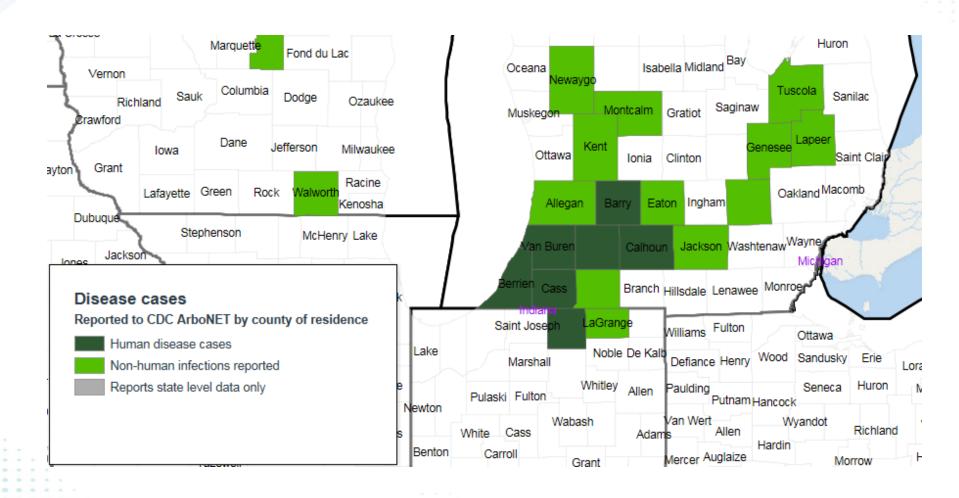
Eastern equine encephalitis virus neuroinvasive disease average annual incidence by county of residence, 2009–2018



There was a EEEV epidemic in the US in 2019.

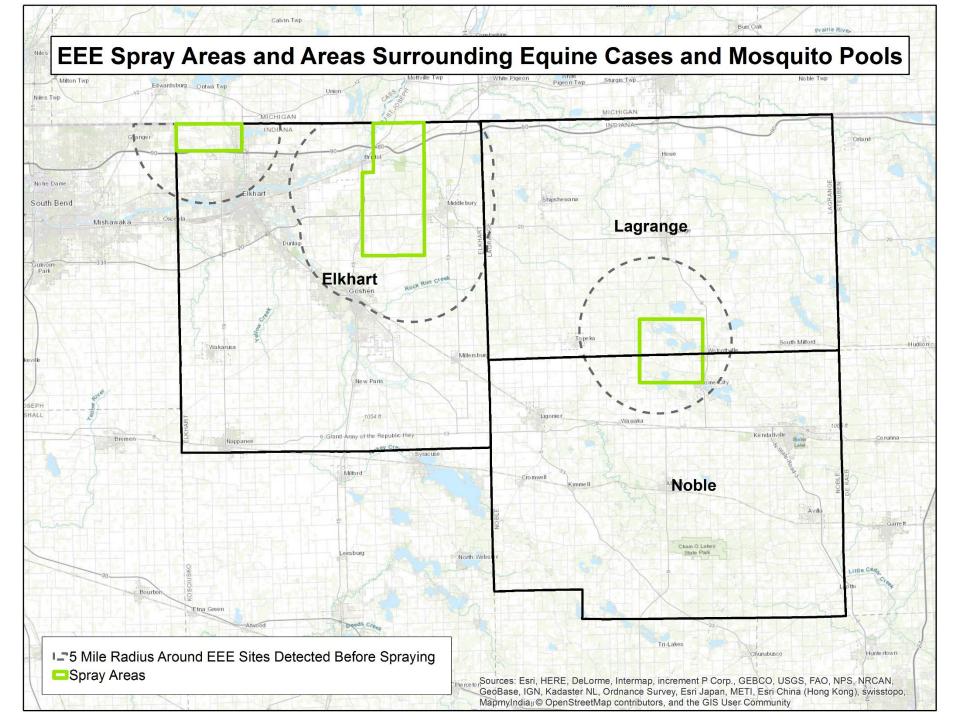


EEEV 2019



Both Elkhart and LaGrange Counties had evidence of EEEV transmission in 2019.

	Elkhart County	LaGrange County
Human cases	1	
Equine cases	11	3
Infected mosquitoes	1	

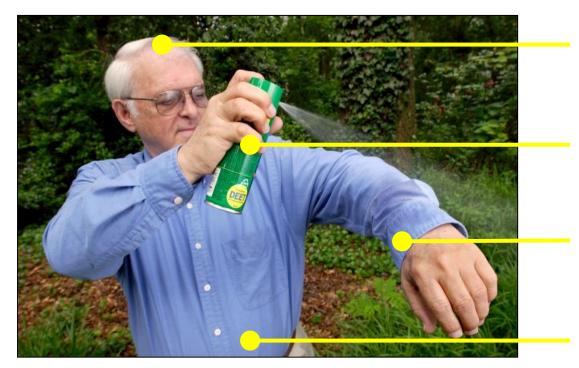


Aerial Application of Dibrom

- Application occurred after dark Oct. 2-3
 - 36,000 Acres in 3 counties

- Areas of Concern
 - Organic Farms
 - DriftWatch (OISC)
 - Pollinators
 - Press releases, Purdue Extension, BeeCheck,
 Professional groups

All Hoosiers should take precautions against mosquito bites until the first hard freeze.



Centers for Disease Control and Prevention.

Know when to expect mosquito bites.

Wear EPA-registered insect repellents.

Reduce the amount of exposed skin.

Treat clothes and boots with 0.5% permethrin.