

Arbovirus Surveillance Report

October 7–13, 2018

MMWR Week 41*

Mosquito Surveillance

- This week, six mosquito pools⁺ tested positive for West Nile virus (WNV): three in Springfield, two in Bennington and one in Rockingham
- No mosquito pools⁺ tested positive for Eastern equine encephalitis (EEE)

	# of Mosquito Pools Tested	# of EEE Positive Pools	# of WNV Positive Pools	% WNV Positive Pools
Week (October 7–13)	46	0	6	13.0%
Season (June 3–October 13)	2,913	0	157	5.4%

Animal Surveillance

- One horse in Windham county tested positive for WNV
- No animals in Vermont tested positive for EEE

Human Surveillance

- No human cases of EEE or WNV were reported

Aedes albopictus Surveillance

- The estimated geographic range of the *Aedes albopictus* mosquito, a competent vector for the Zika virus, includes southern Vermont
- No *Aedes albopictus* have been found at two trapping sites in Southern Vermont

Risk Assessment

West Nile virus: From 2002 to 2017, WNV has been detected in birds, mosquitoes, people and/or animals in all counties of Vermont. Currently, the risk for WNV appears to be widespread in the state.

Eastern equine encephalitis: Two areas of the state are at low risk based on detections of the EEE virus in the past ten years. These areas are western Franklin county and northern Rutland/southern Addison counties.

EEE virus was found in one mosquito pool in 2015, 8 mosquito pools in 2014 and one mosquito pool in 2013. EEE virus has only caused human or animal illnesses in Franklin, Rutland and Addison counties. The last human cases were reported in 2012.

*A mosquito pool is a group of 1-50 mosquitoes of the same species, collected at the same trap location, on the same date.

*MMWR week refers to a standardized national reporting calendar set forth by the CDC.

**Figure 1: Towns with Mosquito Trap Sites
2018**

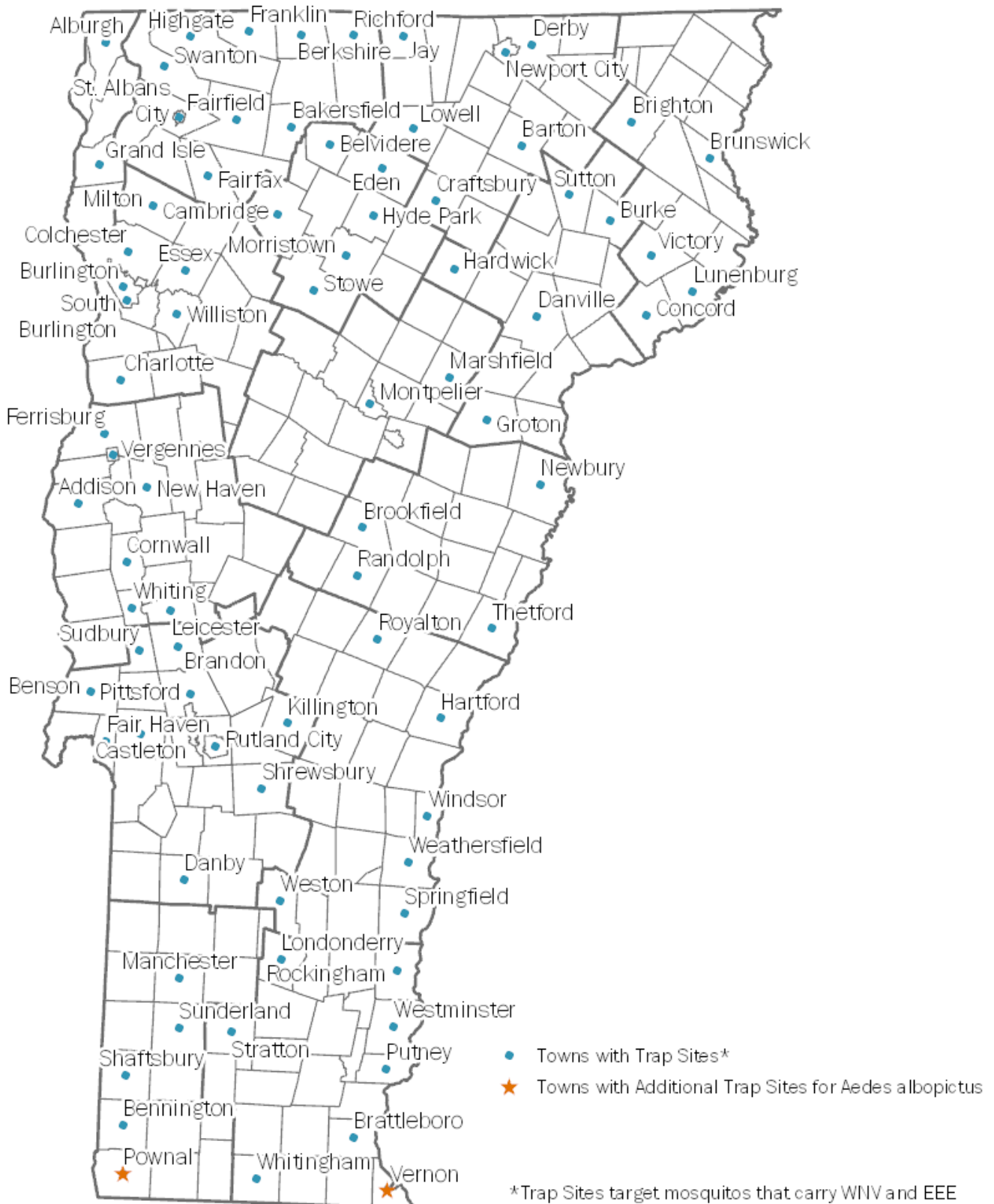
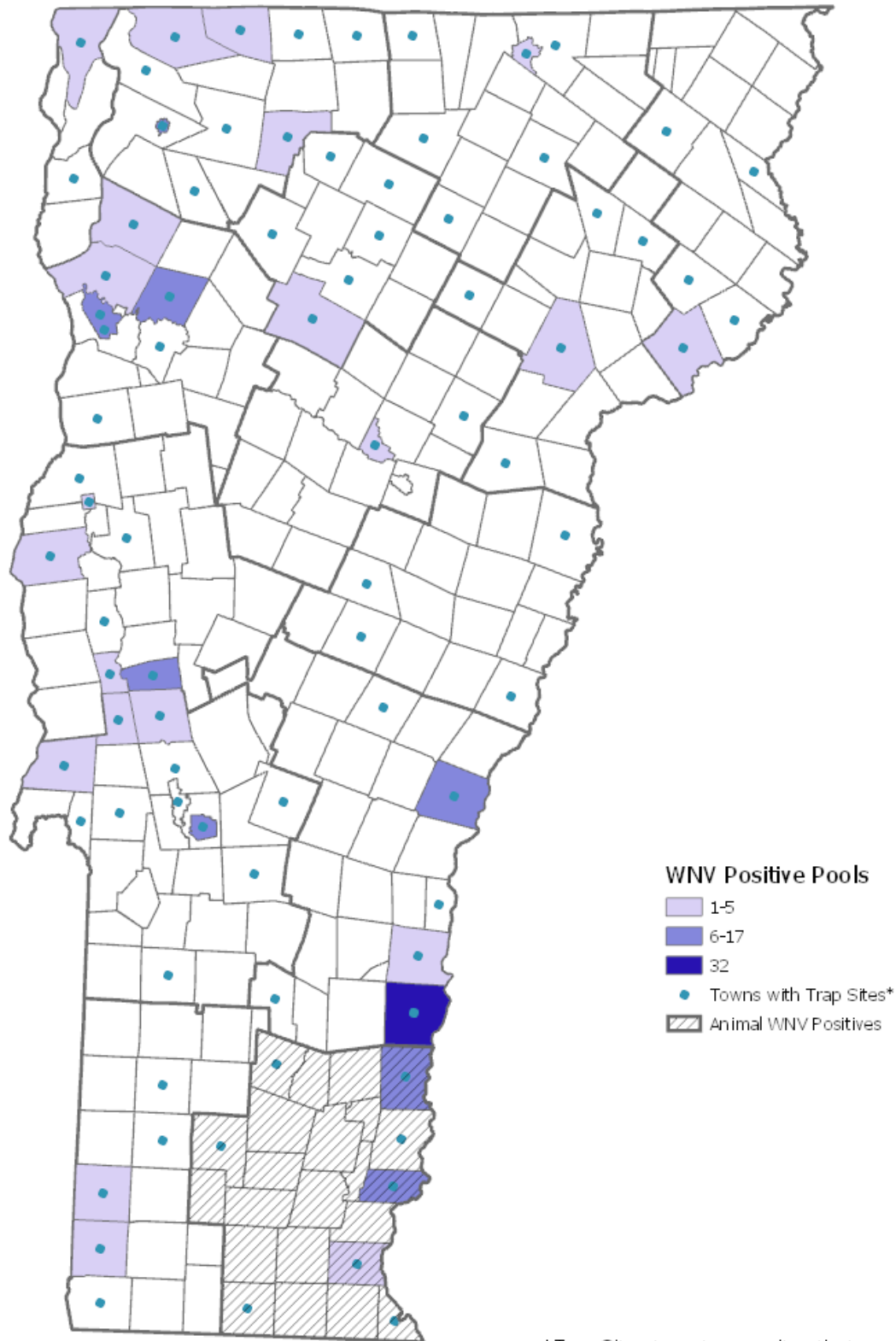


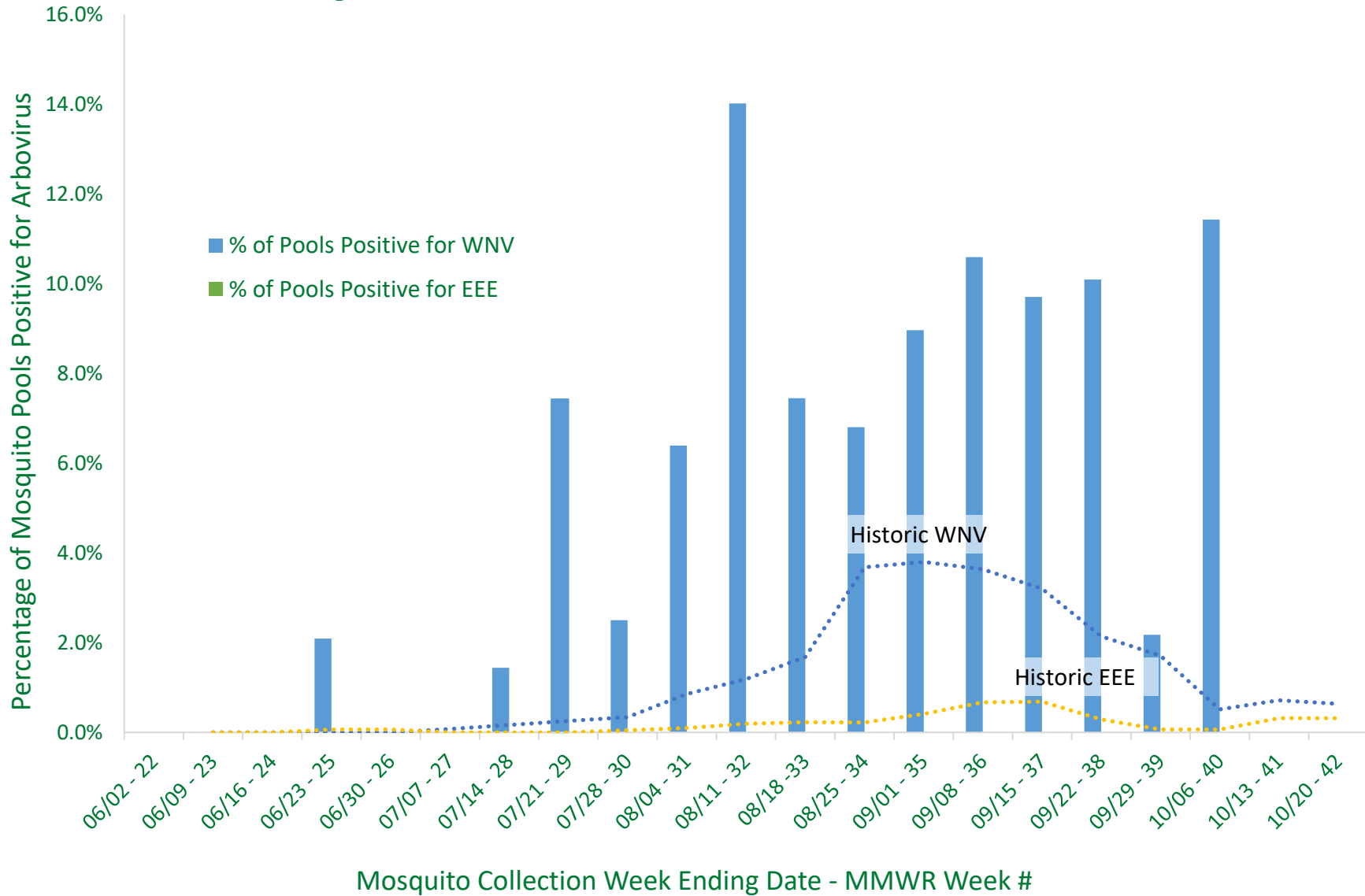
Figure 2: Arboviral Surveillance Map (June 3-October 13)



*Trap Sites target mosquitoes that carry WNV and EEE

WNV positive pools have been detected in Addison, Alburgh, Bakersfield, Bennington, Benson, Brandon, Brattleboro, Burlington, Colchester, Concord, Danville, Essex, Franklin, Hartford, Highgate, Leicester, Milton, Montpelier, Newport City, Putney, Rockingham, Rutland City, Shaftsbury, Springfield, St. Albans City, Stowe, Sudbury, Vergennes, Weathersfield and Whiting. No positive EEE positive pools have been detected

Figure 3. Arbovirus Surveillance, June 3-October 13, 2018



Dotted lines (yellow & blue) represent a moving average for the percentage of mosquito pools that have been positive for WNV or EEE since 2002. Historically, the percentage of mosquito pools positive for an arbovirus increases in late August and peaks in mid-September.