

## Frequency of Detection of Seneca Valley Virus

- We requested SHMP participants to report frequency of Seneca Valley virus cases at any time in the past.
- Thirteen (13) of our 26 participating systems reported this week. Of these 13, 1 participant in the Midwest reported the following:

Week	Frequency	Clinical signs
Aug 28 – Sept 3	1 sow farm	Prewean mortality and vesicles
Sept 4 – 10	0	
Sept 11 – 17	2 sow farms	Prewean mortality and vesicles in both herds
	1 GDU	Lameness and vesicles

## Detection in Diagnostic Samples

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- PCR testing was conducted on oral fluid samples (441 Cases; 2,033 Samples from 25 states. Canada and Mexico) received at the ISU VDL and UMN VDL for routine diagnostic testing between 8/24/15 to 9/01/2015. None of the cases were known to be exhibiting clinical signs of acute lameness accompanied by the presence of vesicular lesions on the snout, coronary band, and/or hoof. PCR positive results were detected in 5 cases from 5 different states (AR, IA, IL, IN, MN). Subsequent practitioner feedback revealed that 1 of the 5 positive cases was later found to have clinical signs of vesicular disease (lesions) present. Testing was funded by SHIC.
- UMN Vet dx lab tested a selection of historical samples to determine frequency of positive cases.
  - 4,079 samples from 548 cases from 2014 and 2015 were tested by PCR
    - 4 positive cases with no information regarding the presence of vesicular disease or neonatal losses
    - 6 cases associated with vesicular disease or neonatal losses
  - Specimens with positive PCR: oral fluids, oral swabs, tonsils, tissue homogenate, serum, blood swabs and fecal swabs.

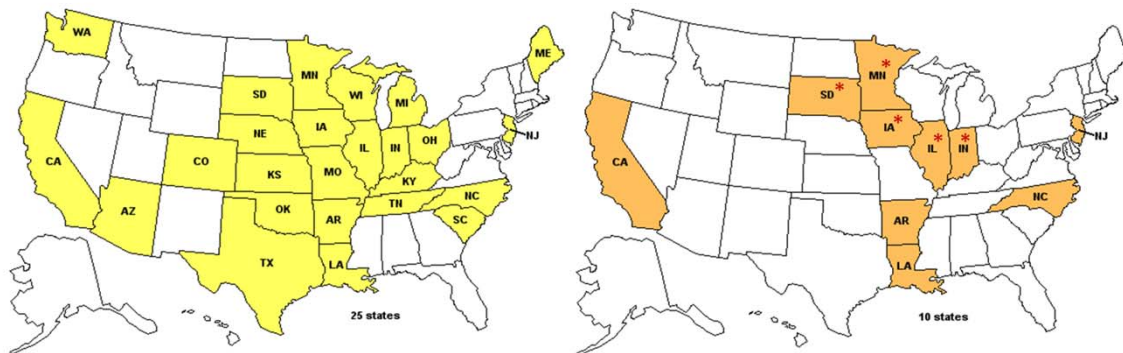


Figure 1 – Senecavirus A PCR surveillance. Left: states in yellow were included in the surveillance. Right: states in orange had at least one positive sample not necessarily associated with disease (\* states that showed SVV positive PCR associated with vesicular disease or neonatal losses).

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