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# 2019 Vesicular Stomatitis Virus (VSV) Situation Report – June 24, 2019

*Information current as of 10:00 am MDT, 06/24/2019*

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On June 21, 2019, the National Veterinary Services Laboratories (NVSL) in Ames, Iowa, confirmed a finding of vesicular stomatitis virus (VSV) infection (Indiana serotype) on a premises in Kinney County, Texas. VSV-Indiana serotype has not been diagnosed in the U.S. since 1998; all VSV cases from 2004-2016 have been VSV-New Jersey serotype. Horses on the index premises have met the case definition of infection with compatible clinical signs and virus isolation positive results. This is the 2019 VSV index case for the United States.

On June 24, 2019, the NVSL confirmed VSV infection (Indiana serotype) by polymerase chain reaction (PCR) in a lesioned horse on a second premises located in Tom Green County, Texas. The epidemiological investigation on the second premises is ongoing and the PCR-positive result meets case definition for a subsequent case of VSV in an affected state. The second affected premises is located nearly 200 miles due north of the index premises.

**Index Premises (Kinney County, TX):** The index premises is a ranch in Kinney County, Texas with 49 horses, approximately 60 head of cattle, 1 sheep, and 1 goat. The premises is under state quarantine and there are 9 out of 49 horses showing clinical signs of VSV. No other species on the premises are currently showing clinical signs of infection and there have been no livestock movements on or off the premises.

Lesions were first noticed in the horses on June 14, 2019. The ranch manager reported heavy rainfall at the ranch this spring and a subsequent abundance of insect vectors present. Known competent vectors for transmission of VSV include black flies, sand flies, and biting midges (*Culicoides spp.*). The epidemiological investigation indicates that incursion of VSV-infected insect vectors is the likely source of infection in this herd. Biosecurity measures and vector mitigation have been instituted on the ranch to reduce within herd spread of the virus. The animals are being monitored daily and the index premises will remain under state quarantine until 14 days from the onset of lesions in the last affected animal on the premises.

**Second Premises (Tom Green County, TX):** The second VSV-positive premises is a rescue facility with 2 horses and 4 donkeys present. One horse presented with lesions of unknown onset date and there are no reported movements or contact with outside animals within the past 6 months. The affected horse has been isolated from the other animals and the premises is currently quarantined. Epidemiological investigation on this premises is ongoing.

# VSV Current Premises Quarantined

Table 1. Location and number of premises currently quarantined for VSV

TEXAS	Total Premises
Kinney County	1
Tom Green County	1
<b>TOTAL TEXAS: 2 COUNTIES</b>	<b>2</b>

Map 1. Counties with Current VSV-Quarantined Premises (shaded in blue)

