



2020 Vesicular Stomatitis Virus (VSV) Situation Report – April 22, 2020

Information current as of 12:00 pm MDT, 04/22/2020

On April 22, 2020, the National Veterinary Services Laboratories (NVSL) in Ames, Iowa, confirmed a finding of vesicular stomatitis virus (VSV) infection (Indiana serotype) on a premises in Cochise County, Arizona. One (1) horse on the index premises has met the case definition of infection with compatible clinical signs and a VSV-positive complement fixation test (CFT) titer at a dilution of 1:40 or greater. **This is the 2020 VSV index case for Arizona.** There have also been additional VSV-positive premises identified in New Mexico since the last situation report on April 13, 2020.

Index Premises (Arizona): The index premises is located in Cochise County, Arizona, and has 2 horses and 5 calves present. Only 1 of the 2 horses is currently showing clinical signs of VSV (oral lesions) which were reported to have appeared around April 16th, and there are no clinical signs in the calves which were only recently brought onto the premises. No additional animal movements have occurred.

Known competent vectors for transmission of VSV include black flies, sand flies, and biting midges (*Culicoides spp.*). The epidemiological investigation on the VSV-positive premises indicates that incursion of VSV-infected insect vectors is the likely source of infection on this premises. Biosecurity measures and vector mitigation have been instituted to reduce the within-herd spread of the virus. The animals are being monitored and the premises will remain under state quarantine until 14 days from the onset of lesions in the last affected animal on the premises.

Additionally, since the last situation report (April 13, 2020), there have been 5 new VSV-affected premises (5 confirmed positive, 0 suspect) identified:

New Mexico (5 new confirmed positive, 0 new suspect premises)

- Dona Ana County – 3 new confirmed positive equine premises
- **Eddy County (new infected county) – 1 confirmed positive equine premises**
- Sierra County – 1 new confirmed positive equine premises

Classification of Cases

Premises that have laboratory diagnostic confirmation of VSV are categorized as confirmed positive premises. Once a county is confirmed as VSV-positive, new equine premises presenting with clinical signs of VSV in that county are not required to be tested for confirmation of the disease, but the premises will be quarantined and classified as a suspect premises.

Quarantines

Confirmed positive and suspect premises are quarantined for at least 14 days from the onset of lesions in the last affected animal on the premises.

Summary of the Outbreak (Updated information in blue)

The 2020 VSV outbreak began on April 13, 2020, when the National Veterinary Services Laboratories (NVSL) in Ames, Iowa confirmed the first VSV-positive premises in Dona Ana County, New Mexico. Arizona subsequently broke with a VSV case which was confirmed by NVSL on April 22, 2020 (Cochise County).

Since the start of the outbreak, **8 VSV-affected premises have been identified (8 confirmed positive, 0 suspect)**. All eight (8) of these premises have only equine species clinically affected and no clinically affected cattle have been identified at this time. New Mexico has identified 7 affected premises (7 confirmed positive, 0 suspect) in 3 counties (Dona Ana, Eddy, and Sierra Counties). Arizona has identified 1 affected premises (1 confirmed positive, 0 suspect) in 1 county (Cochise County).

Summary of VSV-Affected Premises

Table 1. Location, number, and status of VSV-affected premises. New information in blue.

	Confirmed Positive Premises	Suspect Premises	Premises Released from Quarantine	Current Premises Quarantined
ARIZONA				
Cochise County	1	0	0	1
TOTAL: 1 COUNTY	1	0	0	1
NEW MEXICO				
Dona Ana County	4	0	0	4
Eddy County	1	0	0	1
Sierra County	2	0	0	2
TOTAL: 3 COUNTIES	7	0	0	7
TOTAL PREMISES ALL STATES	8	0	0	8

Table 2. Cumulative count of species clinically affected on VSV-positive premises.

State	Premises with clinically affected equine species	Premises with clinically affected bovine species	Premises with clinical signs in both equine and bovine species	Premises with clinical signs in other susceptible species	Total affected premises
ARIZONA	1	0	0	0	1
NEW MEXICO	7	0	0	0	7
TOTAL	8	0	0	0	8

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

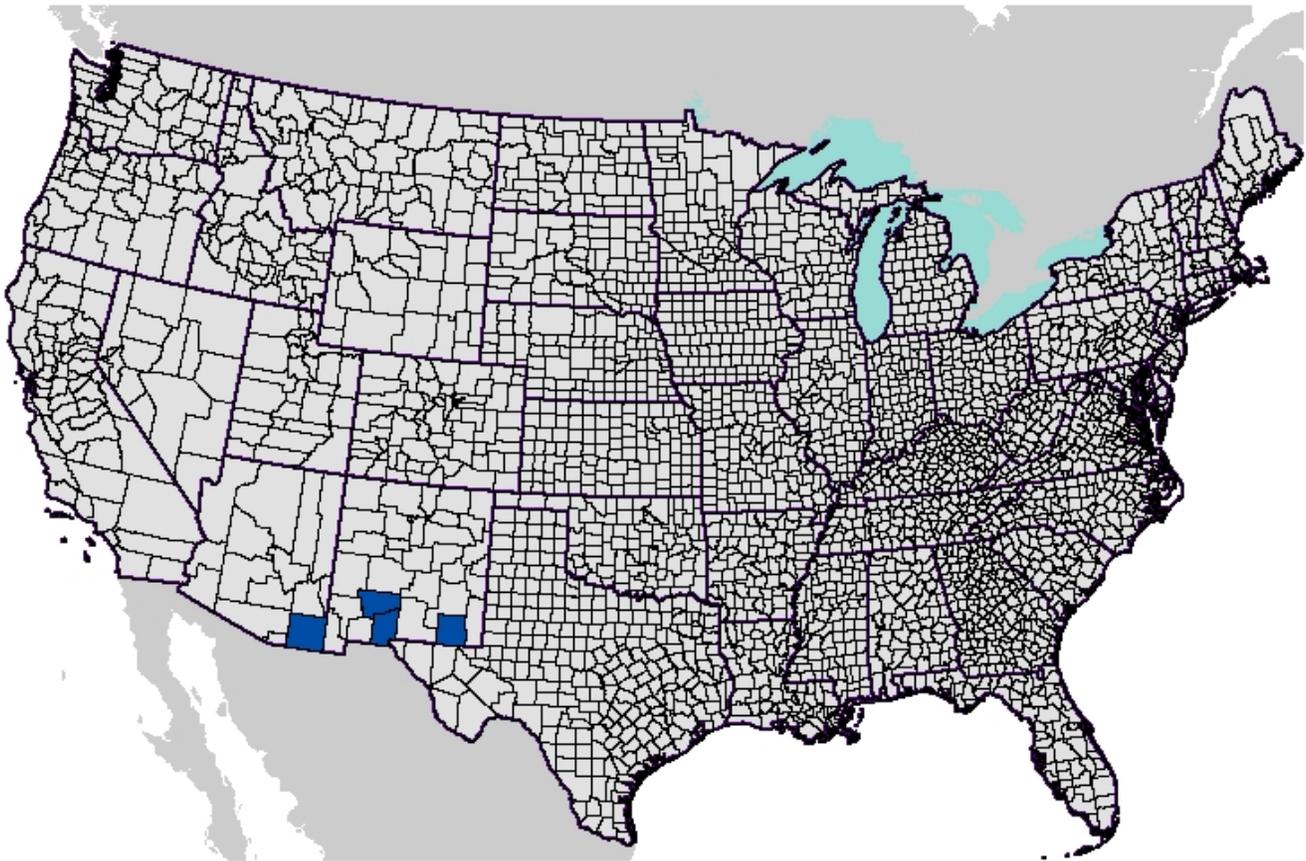


Table 3. Timeline of Events

Date	Event
April 13, 2020	VSV index case for the U.S. confirmed at NVSL – Dona Ana County, New Mexico. New affected county confirmed – Sierra County, New Mexico
April 20, 2020	New affected county confirmed – Eddy County, New Mexico
April 22, 2020	VSV index case for Arizona confirmed – Cochise County, Arizona