



2023-2024 Vesicular Stomatitis Virus (VSV) Situation Report – January 22, 2024

Information current as of 8:00 am MST, 1/22/2024

Since the last situation report (1/9/2024), there have been **no new VSV-affected premises identified in the United States**. All confirmed cases in the 2023-2024 outbreak were vesicular stomatitis New Jersey virus (VSNJV) serotype. Updates are as follows:

California

- **No new suspect or confirmed positive premises identified since the last report**
- Since the last situation report (1/9/2024), the following previously confirmed positive premises were released from quarantine: 2 premises in Sacramento County.
- **The last VSV quarantines in California were released on January 18, 2024.**

Classification of Cases

Premises that have diagnostic laboratory 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. Premises may also be classified as suspect if clinical animals on the premises fail to meet confirmed case definition, but there is diagnostic laboratory evidence of recent VSV infection.

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.

Epidemiology and Disease Control

Vesicular stomatitis virus circulates annually between livestock and insect vectors in southern Mexico and only occasionally results in incursion to the U.S. when climatic and ecological factors support movement of VSV-infected insect vectors northward. Known competent vectors for transmission of VSV include black flies, sand flies, and biting midges (*Culicoides spp.*), but other insect vectors may also be involved. Susceptible species are primarily equids (horses, donkeys, mules) and cattle, but can also include camelids (llamas, alpacas), swine, sheep, and goats. Control measures on VSV suspect and confirmed positive premises include quarantine of all susceptible species, isolation of lesioned animals, enhanced biosecurity, and vector mitigation measures to reduce within-herd spread.

Summary of the Outbreak [\(New information in blue\)](#)

The 2023 VSV outbreak began on May 17, 2023, when the National Veterinary Services Laboratories (NVSL) in Ames, Iowa, confirmed the first VSV-positive premises in San Diego County, California. Texas was subsequently confirmed VSV-positive by NVSL on June 15,

2023 (Maverick County, Texas) and Nevada was confirmed VSV-positive by NVSL on July 27, 2023 (White Pine County, Nevada).

Since the start of the outbreak, **319 VSV-affected premises were identified (99 confirmed positive, 220 suspect) in 3 states, California, Nevada, and Texas.** Three hundred nine (309) of these premises had only equine species clinically affected, seven (7) premises had only clinically affected cattle (Fresno County, San Diego County, and Santa Barbara County, California), two (2) premises had both equine and cattle clinically affected (Fresno County and Mariposa County, California), and one (1) premises had clinically affected rhinoceros (San Diego County, California).

California identified 316 affected premises (96 confirmed positive, 220 suspect) in 19 counties (Fresno, Inyo, Kings, Los Angeles, Madera, Mariposa, Merced, Orange, Placer, Riverside, Sacramento, San Bernardino, San Diego, San Joaquin, San Luis Obispo, Santa Barbara, Tulare, Tuolumne, and Ventura Counties). Texas identified 2 affected premises (2 confirmed positive) in 2 counties (Maverick and Shackelford Counties). Nevada identified 1 affected premises (1 confirmed positive) in 1 county (White Pine County, Nevada).

All VSV-affected premises were released from quarantine in Nevada on August 9, 2023, Texas on August 22, 2023, [and California on January 18, 2024.](#)

Summary and Status of VSV-Affected Premises

Table 1. Location, number, and status of VSV-affected premises. [New information in blue.](#)

CALIFORNIA	Confirmed Positive Premises	Suspect Premises	Premises Released from Quarantine	Current Premises Quarantined
Fresno County	10	49	59	0
Inyo County	1	2	3	0
Kings County	1	0	1	0
Los Angeles County	3	4	7	0
Madera County	2	21	23	0
Mariposa County	3	8	11	0
Merced County	1	0	1	0
Orange County	1	0	1	0
Placer County	3	0	3	0
Riverside County	9	36	45	0
Sacramento County	3	0	3	0
San Bernardino County	3	7	10	0
San Diego County	26	42	68	0
San Joaquin County	1	0	1	0
San Luis Obispo County	4	6	10	0
Santa Barbara County	9	4	13	0
Tulare County	5	4	9	0
Tuolumne County	2	3	5	0
Ventura County	9	34	43	0
TOTAL: 19 COUNTIES	96	220	316	0

NEVADA	Confirmed Positive Premises	Suspect Premises	Premises Released from Quarantine	Current Premises Quarantined
White Pine County	1	0	1	0
TOTAL: 1 COUNTY	1	0	1	0
TEXAS				
Maverick County	1	0	1	0
Shackelford County	1	0	1	0
TOTAL: 2 COUNTIES	2	0	2	0
TOTAL PREMISES ALL STATES	99	220	319	0

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

There are no counties with premises currently quarantined for VSV in the United States.

Table 2. Cumulative count of species clinically affected on VSV-quarantined 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
CALIFORNIA	306	7	2	1*	316
NEVADA	1	0	0	0	1
TEXAS	2	0	0	0	2
TOTAL	309	7	2	1	319

*wildlife park premises with clinically affected and confirmed VSV-positive rhinoceros

Map 2 (Cumulative). Counties with Premises Quarantined for VSV in 2023-2024

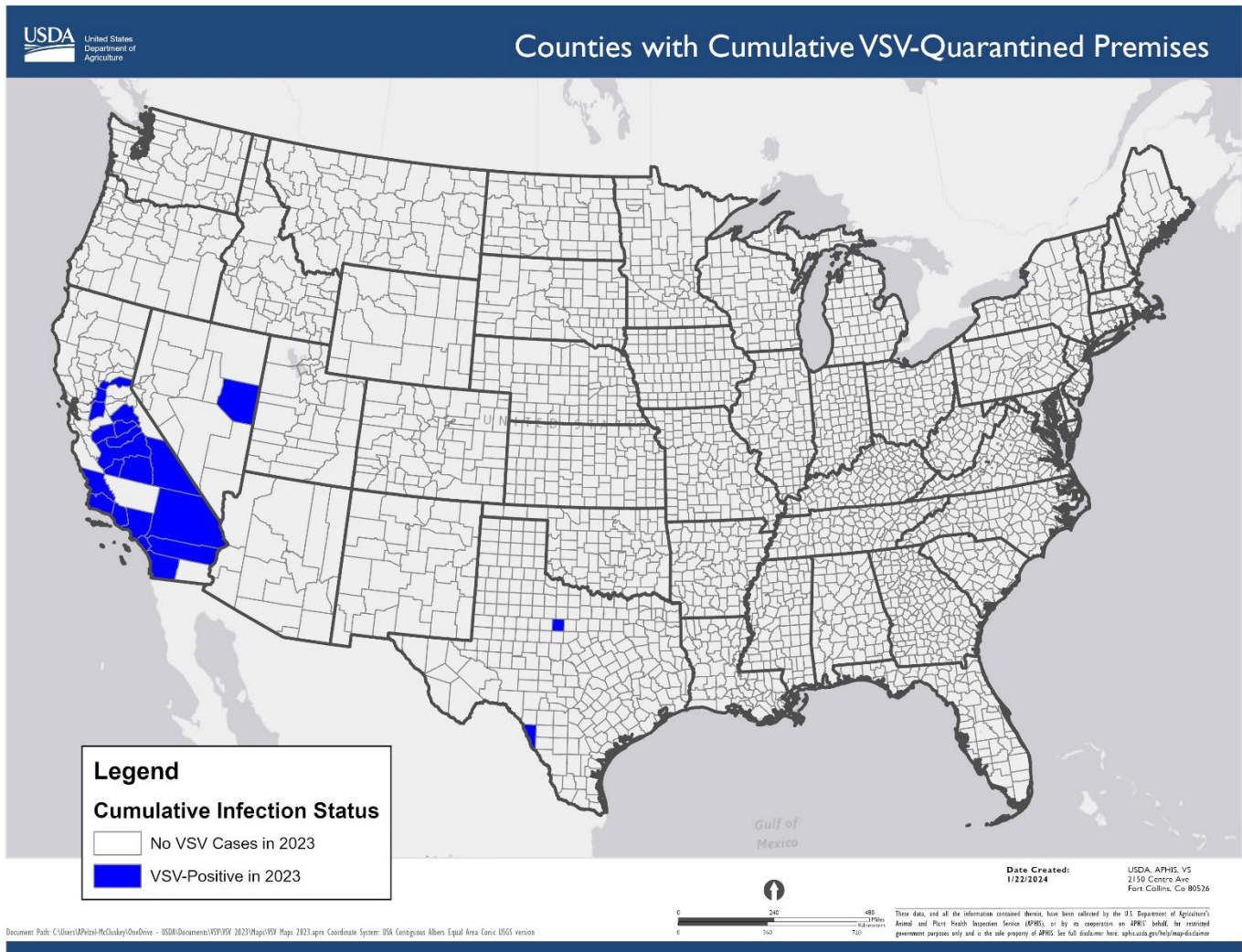


Figure 1. Epidemic Curve of 2023 VSV Outbreak

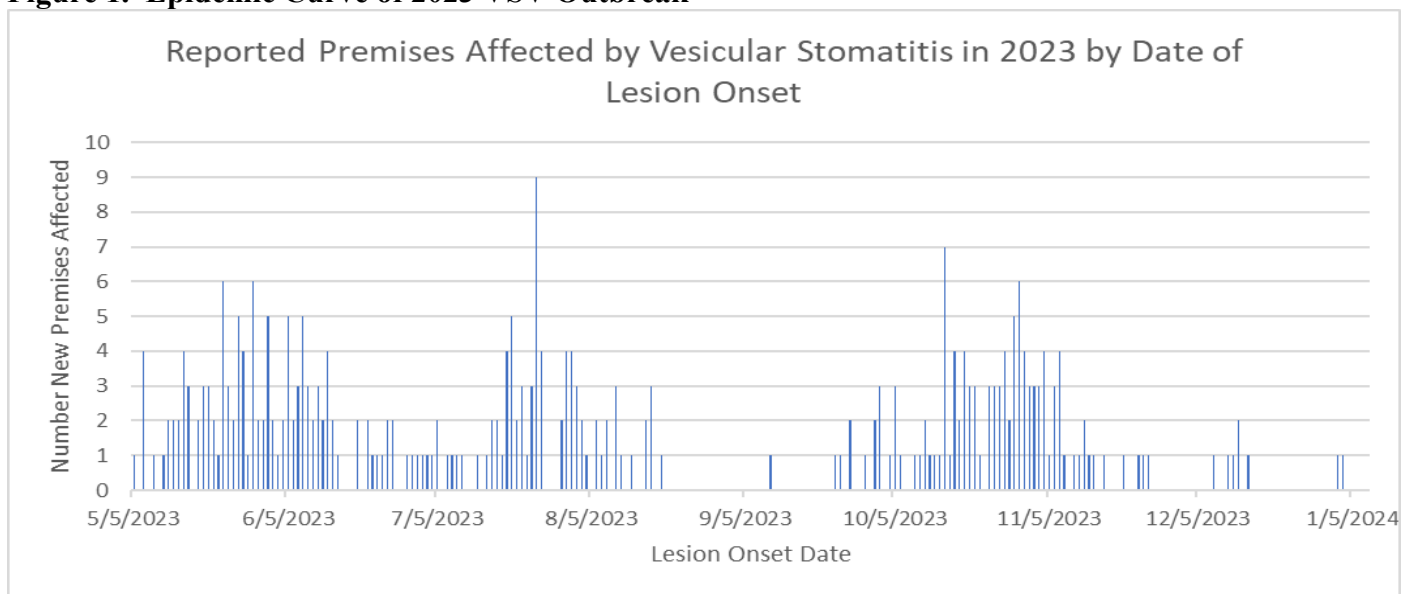


Table 3. Timeline of Events

Date	Event
May 17, 2023	VSV index case for the U.S. confirmed at NVSL – San Diego County, California
May 19, 2023	New affected county confirmed – Riverside County, California
June 1, 2023	New affected county confirmed – San Bernardino County, California
June 5, 2023	New affected county confirmed – Orange County, California
June 8, 2023	New affected county confirmed – Los Angeles County, California
June 15, 2023	VSV index case for Texas confirmed at NVSL – Maverick County, Texas
June 21, 2023	New affected county confirmed – Ventura County, California
July 24, 2023	New affected counties confirmed – San Luis Obispo County and Santa Barbara County, California
July 27, 2023	VSV index case for Nevada confirmed at NVSL – White Pine County, Nevada
August 7, 2023	New affected county confirmed – Shackelford County, Texas
August 9, 2023	All VSV quarantines released in Nevada
August 14, 2023	New affected county confirmed – Fresno County, California
August 22, 2023	All VSV quarantines released in Texas
September 27, 2023	New affected county confirmed – Tulare County, California
October 17, 2023	New affected county confirmed – Madera County, California
October 23, 2023	New affected county confirmed – Mariposa County, California
November 2, 2023	New affected county confirmed – Inyo County, California
November 9, 2023	New affected county confirmed – Tuolumne County, California
November 14, 2023	New affected county confirmed – Kings County, California
November 27, 2023	New affected county confirmed – Merced County, California
December 14, 2023	New affected county confirmed – San Joaquin County, California
December 15, 2023	New affected county confirmed – Placer County, California
December 22, 2023	New affected county confirmed – Sacramento County, California
January 18, 2024	All VSV quarantines released in California