



# 2015 Vesicular Stomatitis Virus (VSV) Situation Report – October 21, 2015

Information current as of 5:00 pm MDT, 10/20/2015

*Updated information in blue ink*

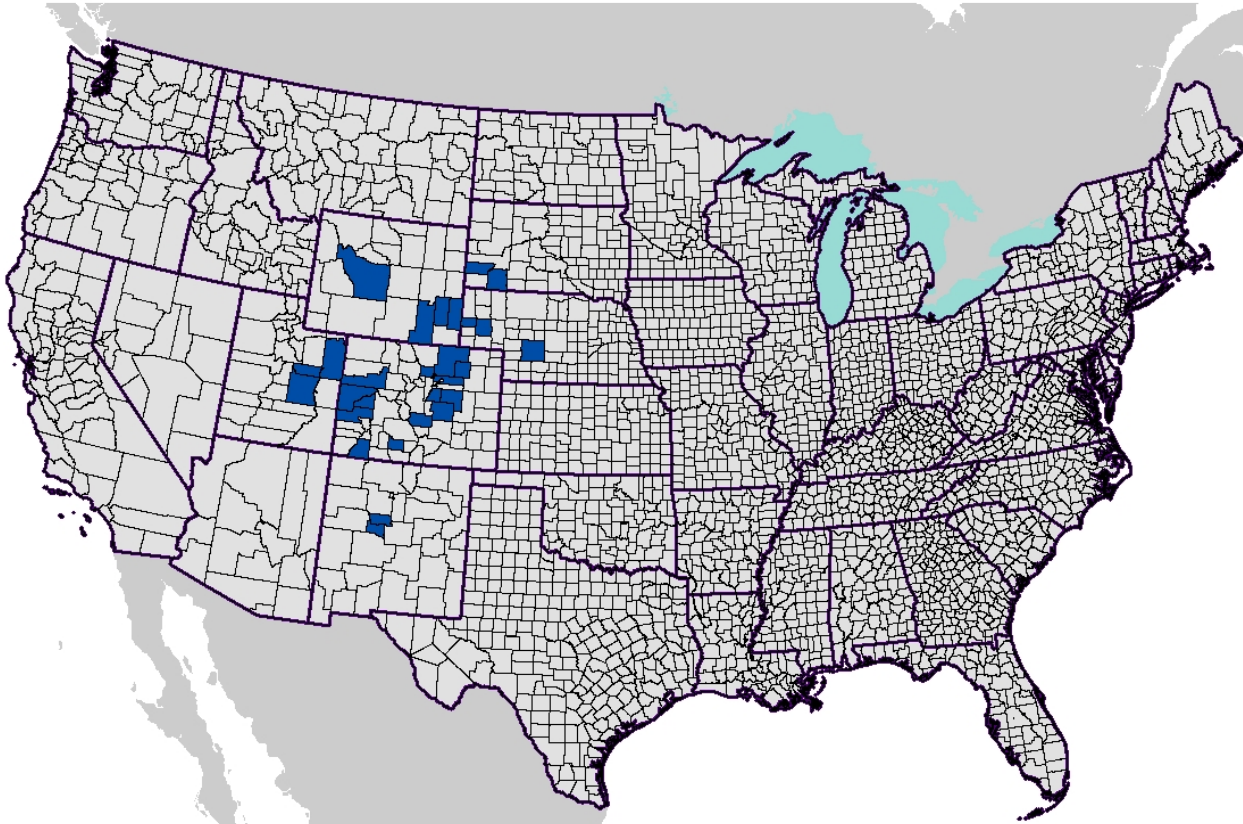
## ***Critical New Information***

- **Fifty-seven (57)** new VSV-confirmed (New Jersey serotype) and/or suspect premises have been identified and quarantined since the last situation report (10/14/15).
- **Newly affected counties** have been identified in:
  - **Colorado** (Adams County, Elbert County)
  - **New Mexico** (Valencia County)
  - **South Dakota** (Shannon County)
  - **Utah** (Carbon County)
- Since the start of the outbreak, **six hundred sixty-six (666)** VSV-affected premises (New Jersey serotype) have been identified and quarantined in 8 states (Arizona, Colorado, Nebraska, New Mexico, South Dakota, Texas, Utah, and Wyoming).
- Currently, there are **one hundred twenty-five (125)** affected premises remaining under quarantine in 6 states (Colorado, Nebraska, New Mexico, **South Dakota**, Utah, and Wyoming).
- **As of September 18, 2015, all VSV-affected premises have been released from quarantine in Arizona**

## ***Summary of the Outbreak***

The 2015 VSV outbreak in the United States began April 29, 2015. To date, a total of **six hundred sixty-six (666)** VSV-affected premises (New Jersey serotype) have been confirmed or suspected in eight (8) U.S. states; Arizona (36 premises in 3 counties), Colorado (**330** premises in **31** counties), Nebraska (**30** premises in 6 counties), New Mexico (**52** premises in **13** counties), South Dakota (**46** premises in **6** counties), Texas (3 premises in 3 counties), Utah (**40** premises in **7** counties), and Wyoming (**129** premises in 9 counties). Currently, there are **125** premises remaining under quarantine in 6 states (Colorado, Nebraska, New Mexico, **South Dakota**, Utah, and Wyoming).

**Map 1. VSV Current: Counties with Current Premises Quarantined**



## ***VSV Current Premises***

**Table 1. Location and number of premises currently under movement control for VSV**

<b>COLORADO</b>	<b>New Premises 10/14- 10/20/15 Confirmed (Suspect)</b>	<b>Total Current Premises last report</b>	<b>VSV Premises Released 10/14 – 10/20/15</b>	<b>Total Current Premises</b>
Adams County	1	0	0	1
Archuleta County	0	1	1	0
Boulder County	0 (1)	1	0	2
Broomfield County	0	1	0	1
Delta County	0	3	2	1
Douglas County	1	2	1	2
Elbert County	1	0	0	1
El Paso County	6 (3)	9	1	17
Fremont County	2 (1)	11	3	11
Garfield County	2 (1)	7	4	6
La Plata County	0 (1)	0	0	1
Larimer County	0	1	1	0
Mesa County	1	3	2	2
Montrose County	0	1	0	1
Morgan County	0	2	1	1
Rio Grande County	0	3	0	3
Weld County	1	19	4	6
<b>TOTAL COLORADO</b>	<b>15 (7)</b>	<b>54</b>	<b>20</b>	<b>56</b>

NEBRASKA	New Premises 10/14- 10/20/15 Confirmed (Suspect)	Total Current Premises last report	VSV Premises Released 10/14 – 10/20/15	Total Current Premises
Banner County	0	1	1	0
Garden County	0	1	1	0
Lincoln County	1	0	0	1
Morrill County	0	1	0	1
Scotts Bluff County	0	10	7	3
<b>TOTAL NEBRASKA</b>	<b>1</b>	<b>13</b>	<b>9</b>	<b>5</b>
<b>NEW MEXICO</b>				
Bernalillo County	0	1	0	1
Dona Ana County	0	1	1	0
Grant County	0	1	1	0
Valencia County	0 (1)	0	0	1
<b>TOTAL NEW MEXICO</b>	<b>0 (1)</b>	<b>3</b>	<b>2</b>	<b>2</b>
<b>SOUTH DAKOTA</b>				
Custer County	0 (1)	0	0	1
Shannon County	1	0	0	1
<b>TOTAL SOUTH DAKOTA</b>	<b>1 (1)</b>	<b>0</b>	<b>0</b>	<b>2</b>
<b>UTAH</b>				
Carbon County	0 (2)	0	0	2
Emery County	2* (1)	2	0	4
Uintah County	1* (6)	2	0	8
<b>TOTAL UTAH</b>	<b>3* (9)</b>	<b>4</b>	<b>0</b>	<b>14</b>
<b>WYOMING</b>				
Albany County	0	1	0	1
Fremont County	8* (10)	36	8	42
Goshen County	1*	2	0	2
Platte County	0	1	0	1
<b>TOTAL WYOMING</b>	<b>9* (10)</b>	<b>40</b>	<b>8</b>	<b>46</b>
<b>TOTAL: 6 STATES w/ current quarantines</b>	<b>29* (28)</b>	<b>114</b>	<b>39</b>	<b>125</b>

\* Count contains premises previously reported as suspect that are now confirmed as VSV-positive.

### *New Confirmed/Suspect Premises*

Since the last situation report (10/14/15), the following **fifty-seven (57) new VSV-confirmed (New Jersey serotype) and/or suspect premises** have been identified and quarantined:

#### Colorado (15 new confirmed, 7 new suspect premises)

- Adams County (new affected county) – 1 new confirmed positive premises
- Boulder County – 1 new suspect premises
- Douglas County – 1 new confirmed positive premises
- Elbert County (new affected county) – 1 new confirmed positive premises
- El Paso County – 6 new confirmed positive, 3 new suspect premises
- Fremont County – 2 new confirmed positive, 1 new suspect premises
- Garfield County – 2 new confirmed positive, 1 new suspect premises
- La Plata County – 1 new suspect premises
- Mesa County – 1 new confirmed positive premises
- Weld County - 1 new confirmed positive premises

Nebraska (1 new confirmed premises)

- Lincoln County – 1 new confirmed positive premises

New Mexico (1 new suspect premises)

- Valencia County (new affected county) – 1 new suspect premises

South Dakota (1 new confirmed, 1 new suspect premises)

- Custer County – 1 new suspect premises
- Shannon County (new affected county) – 1 new confirmed positive premises

Utah [3 new confirmed (2 previously reported as suspect), 9 new suspect premises]

- Carbon County (new affected county) – 2 new suspect premises
- Emery County – 2 new confirmed positive, 1 new suspect premises
- Uintah County – 1 new confirmed positive, 6 new suspect premises

Wyoming [9 new confirmed (5 previously reported as suspect), 10 new suspect premises]

- Fremont County – 8 new confirmed positive, 10 new suspect premises
- Goshen County – 1 new confirmed positive premises

## ***New Quarantine Releases***

Quarantined premises are eligible for release 14 days after the onset of lesions in the last affected animal on the premises. Since the last situation report (10/14/15), the following **thirty-nine (39)** premises have been **released from quarantine**:

Colorado (20 premises released)

- Archuleta County – 1 premises released
- Delta County – 2 premises released
- Douglas County – 1 premises released
- El Paso County – 1 premises released
- Fremont County – 3 premises released
- Garfield County – 4 premises released
- Larimer County – 1 premises released
- Mesa County – 2 premises released
- Morgan County – 1 premises released
- Weld County – 4 premises released

Nebraska (9 premises released)

- Banner County – 1 premises released
- Garden County – 1 premises released
- Scotts Bluff County – 7 premises released

New Mexico (2 premises released)

- Dona Ana County – 1 premises released
- Grant County – 1 premises released

Wyoming (8 premises released)

- Fremont County – 8 premises released

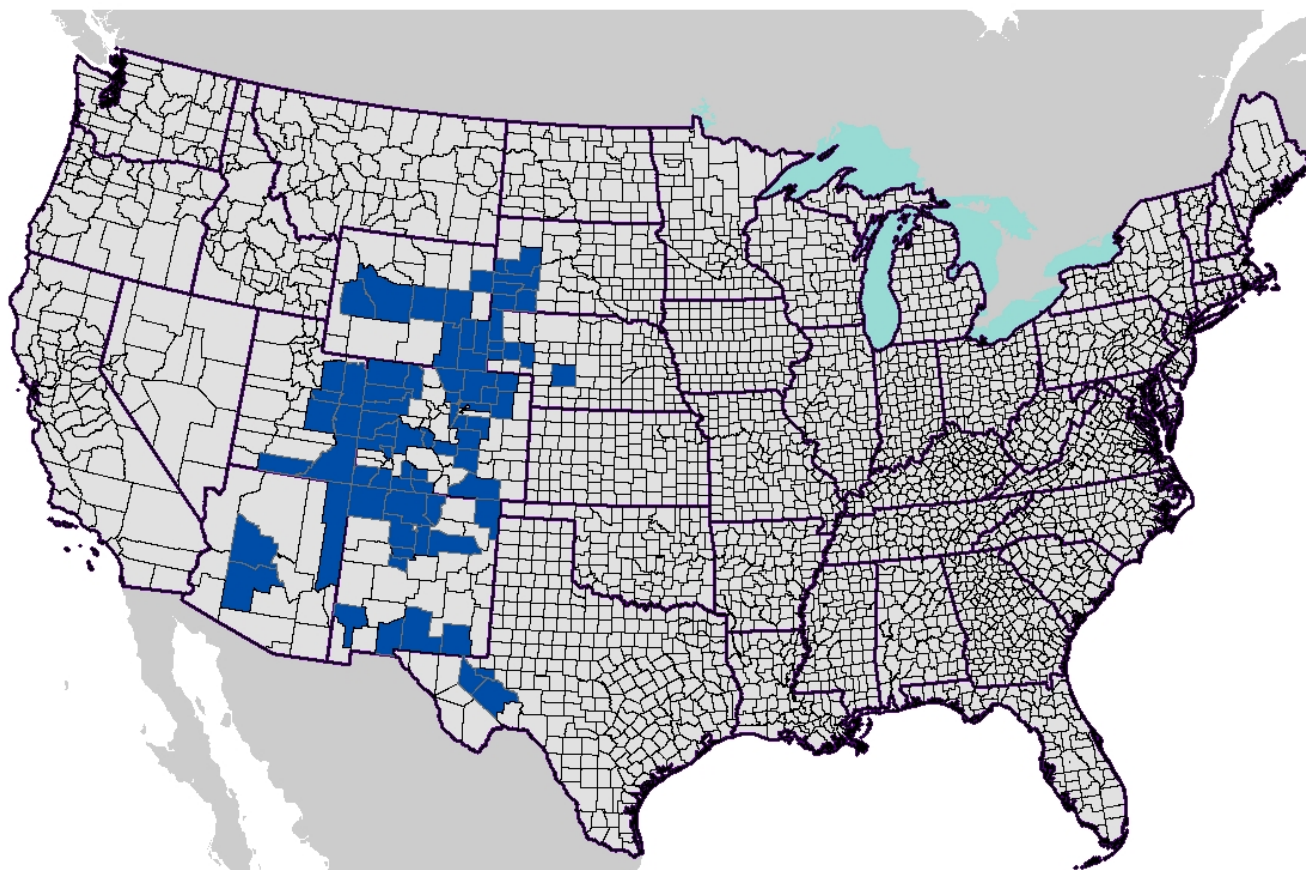
## VSV Cumulative Premises

**Table 2. Location and number of premises confirmed/suspect for VSV since April 29, 2015**

ARIZONA	Confirmed Positive Premises	Suspect Premises	Total Premises
Apache County	1	0	1
Maricopa County	13	15	28
Yavapai County	0	7	7
<b>TOTAL ARIZONA: 3 COUNTIES</b>	<b>14</b>	<b>22</b>	<b>36</b>
<b>COLORADO</b>			
Adams County	1	0	1
Archuleta County	7	4	11
Boulder County	3	2	5
Broomfield County	1	0	1
Chaffee County	1	0	1
Conejos County	3	1	4
Delta County	11	29	40
Douglas County	3	1	4
Elbert County	1	0	1
El Paso County	12	6	18
Fremont County	6	11	17
Garfield County	5	6	11
Gunnison County	1	0	1
Jefferson County	3	4	7
La Plata County	4	10	14
Larimer County	12	35	47
Las Animas County	1	1	2
Logan County	1	0	1
Mesa County	19	30	49
Mineral County	1	0	1
Moffat County	1	0	1
Montezuma County	3	8	11
Montrose County	12	26	38
Morgan County	2	0	2
Ouray County	1	3	4
Pueblo County	1	0	1
Rio Blanco County	2	0	2
Rio Grande County	5	1	6
Routt County	1	0	1
Washington County	1	0	1
Weld County	12	15	27
<b>TOTAL COLORADO: 31 COUNTIES</b>	<b>137</b>	<b>193</b>	<b>330</b>
<b>NEBRASKA</b>			
Banner County	1	0	1
Garden County	1	0	1
Lincoln County	2	0	2
Morrill County	1	0	1
Scotts Bluff County	12	12	24
Sioux County	1	0	1
<b>TOTAL NEBRASKA: 6 COUNTIES</b>	<b>18</b>	<b>12</b>	<b>30</b>

NEW MEXICO	Confirmed Positive Premises	Suspect Premises	Total Premises
Bernalillo County	0	2	2
Dona Ana County	0	2	2
Eddy County	0	2	2
Grant County	3	2	5
Otero County	1	0	1
Rio Arriba County	0	3	3
Sandoval County	1	3	4
San Juan County	4	21	25
San Miguel County	2	1	3
Santa Fe County	1	1	2
Taos County	0	1	1
Union County	0	1	1
Valencia County	0	1	1
<b>TOTAL NEW MEXICO: 13 COUNTIES</b>	<b>12</b>	<b>40</b>	<b>52</b>
<b>SOUTH DAKOTA</b>			
Custer County	1	5	6
Fall River County	2	3	5
Lawrence County	3	2	5
Meade County	4	11	15
Pennington County	3	11	14
Shannon County	1	0	1
<b>TOTAL SOUTH DAKOTA: 6 COUNTIES</b>	<b>14</b>	<b>32</b>	<b>46</b>
<b>TEXAS</b>			
Pecos County	1	0	1
Reeves County	1	0	1
Ward County	1	0	1
<b>TOTAL TEXAS: 3 COUNTIES</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>UTAH</b>			
Carbon County	0	2	2
Duchesne County	2	3	5
Emery County	2	3	5
Grand County	4	5	9
Kane County	1	1	2
San Juan County	1	3	4
Uintah County	3	10	13
<b>TOTAL UTAH: 7 COUNTIES</b>	<b>13</b>	<b>27</b>	<b>40</b>
<b>WYOMING</b>			
Albany County	2	2	4
Converse County	4	6	10
Fremont County	20	40	60
Goshen County	5	6	11
Laramie County	3	0	3
Natrona County	1	0	1
Platte County	8	29	37
Sublette County	2	0	2
Weston County	1	0	1
<b>TOTAL WYOMING: 9 COUNTIES</b>	<b>46</b>	<b>83</b>	<b>129</b>
<b>TOTAL: 8 STATES</b>	<b>257</b>	<b>409</b>	<b>666</b>

**Map 2. VSV Cumulative: Counties with Premises Quarantined April 29, 2015-present**



### **Background**

On April 29, 2015, the National Veterinary Services Laboratories (NVSL) in Ames, Iowa, confirmed a finding of vesicular stomatitis virus (VSV) infection (New Jersey serotype) on a premises in Grant County, New Mexico. One horse on the premises has met the case definition of infection with compatible clinical signs and a four-fold change in positive complement fixation antibody titers. This is the 2015 VSV index case for the United States.

On May 1, 2015, the National Veterinary Services Laboratories (NVSL), confirmed findings of vesicular stomatitis virus (VSV) infection (New Jersey serotype) on premises in Maricopa County, Arizona and Kane County, Utah. Three horses on two premises in Maricopa County, Arizona met the case definition of infection with compatible clinical signs and positive complement fixation antibody titers. One mule on a premises in Kane County, Utah met the case definition of infection with compatible clinical signs and positive virus isolation. The equids involved in the Kane County, Utah case had moved from Arizona just prior to identification of clinical signs. These are the 2015 VSV index cases for Arizona and Utah, respectively.

On May 18, 2015, the National Veterinary Services Laboratories in Ames, Iowa confirmed a finding of VSV infection (New Jersey serotype) on a premises in Pecos County, Texas. Two horses and a mule on



the premises met case definition of infection with compatible clinical signs and positive complement fixation antibody titers. This is the 2015 index case of VSV for Texas.

On July 2, 2015, the National Veterinary Services Laboratories (NVSL) in Ames, Iowa confirmed findings of VSV infection (New Jersey serotype) on three (3) premises located in Colorado; one equine premises in Delta County, Colorado and two equine premises in Montrose County, Colorado. Two horses and two mules on the three premises met case definition of infection with compatible clinical signs and positive complement fixation antibody titers. These are the 2015 index cases of VSV for Colorado.

As of July 7, 2015, all VSV-affected premises were released from quarantine in Texas.

On July 22, 2015, the National Veterinary Services Laboratories (NVSL) in Ames, Iowa confirmed a finding of vesicular stomatitis virus (VSV) infection (New Jersey serotype) from a premises in Laramie County, Wyoming. One horse from the premises has met the case definition of infection with compatible clinical signs and positive virus isolation. This is the 2015 VSV index case for Wyoming.

On July 30, 2015, the National Veterinary Services Laboratories (NVSL) in Ames, Iowa confirmed a finding of vesicular stomatitis virus (VSV) infection (New Jersey serotype) from a premises in Pennington County, South Dakota. Two horses from the premises met the case definition of infection with compatible clinical signs and positive complement fixation antibody titers. This is the 2015 VSV index case for South Dakota.

Although all VSV-affected premises had initially been released from quarantine in Utah as of May 14, 2015, on August 3, 2015, the National Veterinary Services Laboratories (NVSL) on Plum Island, NY subsequently confirmed a finding of vesicular stomatitis virus (VSV) infection (New Jersey serotype) from a cattle premises in San Juan County, Utah. One Jersey cow from the premises met the case definition of infection with compatible clinical signs and positive virus isolation. Based on this confirmation, Utah was added back to the list of currently VSV-affected states.

On September 10, 2015, the National Veterinary Services Laboratories in Ames Iowa confirmed a finding of vesicular stomatitis virus (VSV) infection (New Jersey serotype) from a premises in Scotts Bluff County, Nebraska. Three horses from the premises have met the case definition of infection with compatible clinical signs and positive virus isolation. This is the 2015 VSV index case for Nebraska.

Although all VSV-affected premises had initially been released from quarantine in Arizona as of July 15, 2015, on September 14, 2015, the National Veterinary Services Laboratories (NVSL) in Ames, Iowa subsequently confirmed a finding of vesicular stomatitis virus (VSV) infection (New Jersey serotype) from an equine premises in Apache County, Arizona. One horse from the premises met the case definition of infection with compatible clinical signs and positive complement fixation antibody titer. Based on this confirmation, Arizona was added back to the list of currently VSV-affected states.