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# 2015 Vesicular Stomatitis Virus (VSV) Situation Report – September 23, 2015

Information current as of 5:00 pm MDT, 09/22/2015

*Updated information in blue ink*

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## ***Critical New Information***

- **Fifty-two (52)** new VSV-confirmed (New Jersey serotype) and/or suspect premises have been identified and quarantined since the last situation report (9/16/15).
- **Newly affected counties** have been identified in:
  - **Colorado** (Fremont County, Mineral County, Washington County)
  - **Nebraska** (Lincoln County, Sioux County)
  - **Wyoming** (Natrona County)
- Since the start of the outbreak, **four hundred ninety (490)** 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 one (101)** affected premises remaining under quarantine in 6 states (Colorado, Nebraska, New Mexico, South Dakota, Utah, and Wyoming).

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

The 2015 VSV outbreak in the United States began April 29, 2015. To date, a total of **four hundred ninety (490)** VSV-affected premises (New Jersey serotype) have been confirmed or suspected in eight (8) U.S. states; Arizona (36 premises in 3 counties), Colorado (**251** premises in **24** counties), Nebraska (**14** premises in **3** counties), New Mexico (**48** premises in 12 counties), South Dakota (**42** premises in 5 counties), Texas (3 premises in 3 counties), Utah (**24** premises in 5 counties), and Wyoming (**72** premises in **9** counties). Currently, there are **101** premises remaining under quarantine in 6 states (Colorado, Nebraska, New Mexico, South Dakota, Utah, and Wyoming).

## VSV Current Premises

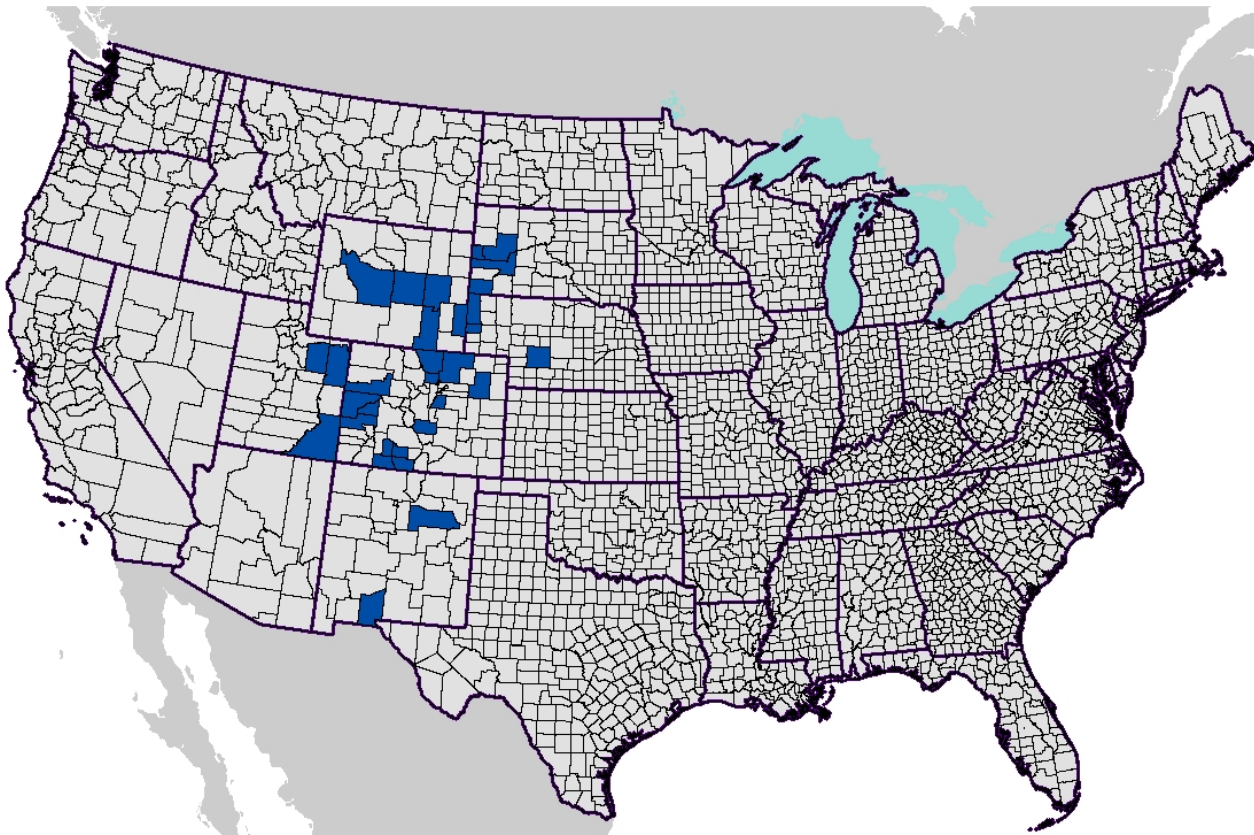
Table 1. Location and number of premises currently under movement control for VSV

ARIZONA	New Premises 9/16- 9/22/15 Confirmed (Suspect)	Total Current Premises last report	VSV Premises Released 9/16 – 9/22/15	Total Current Premises
Apache County	0	1	1	0
<b>TOTAL ARIZONA</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>COLORADO</b>				
Archuleta County	0	2	1	1
Boulder County	1 (1)	0	0	2
Conejos County	0	1	0	1
Delta County	1*	2	0	2
Douglas County	0	1	0	1
Fremont County	1 (2)	0	0	3
Garfield County	0 (1)	0	0	1
Jefferson County	0	2	2	0
Larimer County	0 (1)	7	3	5
Mesa County	1 (4)	14	3	16
Mineral County	1	0	0	1
Montrose County	0 (1)	0	0	1
Ouray County	0	1	1	0
Rio Grande County	0	3	1	2
Routt County	0	1	1	0
Washington County	1	0	0	1
Weld County	1 (3)	6	1	9
<b>TOTAL COLORADO</b>	<b>7* (13)</b>	<b>40</b>	<b>13</b>	<b>46</b>
<b>NEBRASKA</b>				
Lincoln County	1	0	0	1
Scotts Bluff County	5* (4)	7	0	12
Sioux County	1	0	0	1
<b>TOTAL NEBRASKA</b>	<b>7* (4)</b>	<b>7</b>	<b>0</b>	<b>14</b>
<b>NEW MEXICO</b>				
Dona Ana County	0 (1)	0	0	1
San Juan County	0	3	3	0
San Miguel County	1*	1	0	1
<b>TOTAL NEW MEXICO</b>	<b>1* (1)</b>	<b>4</b>	<b>3</b>	<b>2</b>
<b>SOUTH DAKOTA</b>				
Custer County	0	1	1	0
Fall River County	0 (2)	2	0	4
Lawrence County	0 (1)	2	1	2
Meade County	0 (1)	1	1	1
Pennington County	0 (1)	5	2	4
<b>TOTAL SOUTH DAKOTA</b>	<b>0 (5)</b>	<b>11</b>	<b>5</b>	<b>11</b>
<b>UTAH</b>				
Duchesne County	1* (1)	2	0	3
Grand County	0	1	1	0
San Juan County	0	1	0	1
Uintah County	0	5	1	4
<b>TOTAL UTAH</b>	<b>1* (1)</b>	<b>9</b>	<b>2</b>	<b>8</b>

WYOMING	New Premises 9/16- 9/22/15 Confirmed (Suspect)	Total Current Premises last report	VSV Premises Released 9/15 – 9/22/15	Total Current Premises
Albany County	1	1	0	2
Converse County	3*	9	1	9
Fremont County	1 (6)	1	1	7
Goshen County	0	2	1	1
Natrona County	1	0	0	1
Platte County	0	4	4	0
Weston County	0	1	1	0
<b>TOTAL WYOMING</b>	<b>6* (6)</b>	<b>18</b>	<b>8</b>	<b>20</b>
<b>TOTAL: 6 STATES w/ current quarantines</b>	<b>22* (30)</b>	<b>90</b>	<b>32</b>	<b>101</b>

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

Map 1. VSV Current: Counties with Current Premises Quarantined



### *New Confirmed/Suspect Premises*

Since the last situation report (9/16/15), the following **fifty-two (52) new VSV-confirmed (New Jersey serotype) and/or suspect premises** have been identified and quarantined:

Colorado [7 new confirmed (1 previously reported suspect), 13 new suspect premises]

- Boulder County – 1 new confirmed positive, 1 new suspect premises
- Delta County – 1 new confirmed positive premises
- Fremont County (new affected county) – 1 new confirmed positive, 2 new suspect premises
- Garfield – 1 new suspect premises
- Larimer County – 1 new suspect premises

- Mesa County – 1 new confirmed positive, 4 new suspect premises
- Mineral County (new affected county) -1 new confirmed positive premises
- Montrose County – 1 new suspect premises
- Washington County (new affected county) – 1 new confirmed positive premises
- Weld County – 1 new confirmed positive, 3 new suspect premises

Nebraska [7 new confirmed (4 previously reported suspect) , 4 new suspect premises]

- Lincoln County (new affected county) – 1 new confirmed positive premises
- Scotts Bluff County – 5 new confirmed positive , 4 new suspect premises
- Sioux County (new affected county) – 1 new confirmed positive premises

New Mexico (1 new confirmed (previously reported suspect), 1 new suspect premises)

- Dona Ana County – 1 new suspect premises
- San Miguel County – 1 new confirmed positive premises

South Dakota (5 new suspect premises)

- Fall River County – 2 new suspect premises
- Lawrence County – 1 new suspect premises
- Meade County – 1 new suspect premises
- Pennington County – 1 new suspect premises

Utah [1 new confirmed (previously reported suspect), 1 new suspect premises]

- Duchesne County – 1 new confirmed positive, 1 new suspect premises

Wyoming [6 new confirmed (2 previously reported suspect), 6 new suspect premises]

- Albany County – 1 new confirmed positive premises
- Converse County – 3 new confirmed positive premises
- Fremont County – 1 new confirmed positive, 6 new suspect premises
- Natrona County (new affected 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 (9/16/15), the following **thirty-two (32)** premises have been **released from quarantine**:

Arizona (1 premises released)

- Apache County – 1 premises released

Colorado (13 premises released)

- Archuleta County – 1 premises released
- Jefferson County – 2 premises released
- Larimer County – 3 premises released
- Mesa County – 3 premises released
- Ouray County – 1 premises released
- Rio Grande County – 1 premises released
- Routt County – 1 premises released
- Weld County – 1 premises released

New Mexico (3 premises released)

- San Juan County – 3 premises released

South Dakota (5 premises released)

- Custer County – 1 premises released
- Lawrence County – 1 premises released
- Meade County – 1 premises released
- Pennington County – 2 premises released

Utah (2 premises released)

- Grand County – 1 premises released
- Uintah County – 1 premises released

Wyoming (8 premises released)

- Converse County – 1 premises released
- Fremont County – 1 premises released
- Goshen County – 1 premises released
- Platte County – 4 premises released
- Weston County – 1 premises released

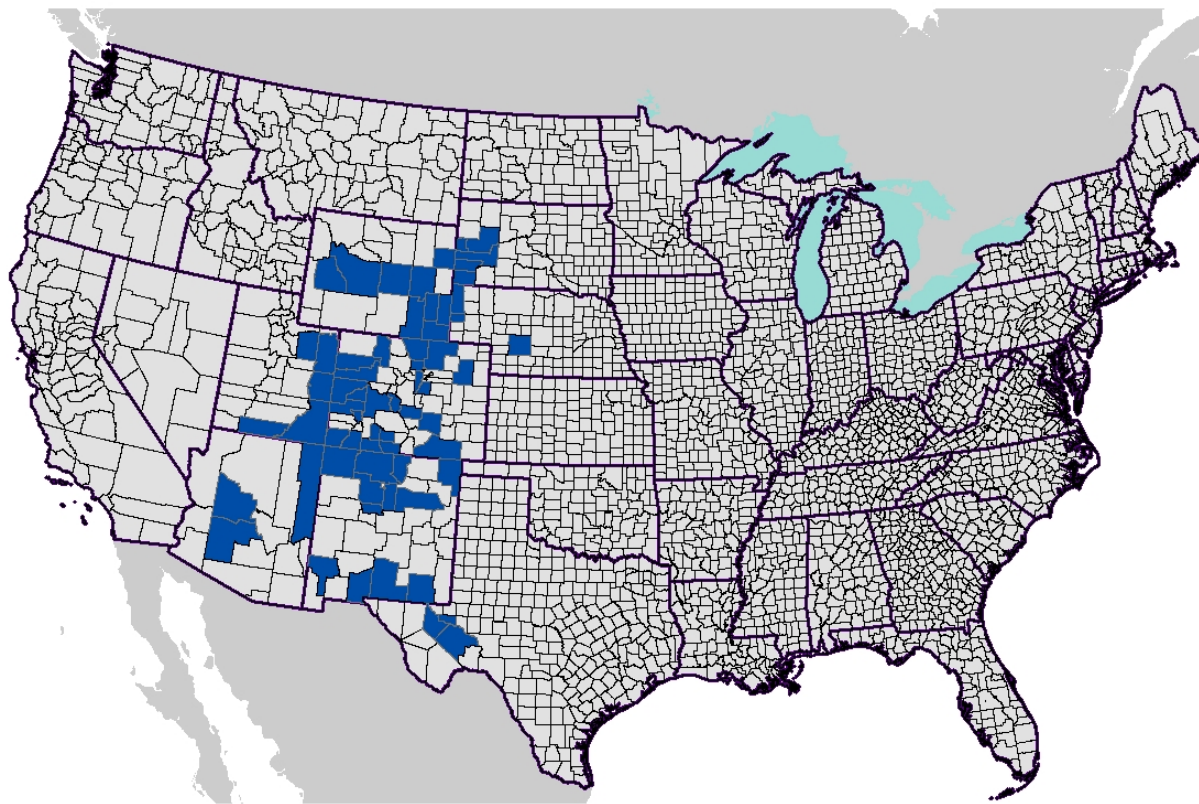
## ***VSV Cumulative Premises***

**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>			
Archuleta County	7	4	11
Boulder County	2	1	3
Chaffee County	1	0	1
Conejos County	3	1	4
Delta County	11	26	37
Douglas County	1	0	1
Fremont County	1	2	3
Garfield County	1	1	2
Gunnison County	1	0	1
Jefferson County	3	4	7
La Plata County	4	9	13
Larimer County	10	34	44
Las Animas County	1	1	2
Mesa County	16	28	44
Mineral County	1	0	1
Montezuma County	3	8	11
Montrose County	12	26	38
Ouray County	1	3	4
Pueblo County	1	0	1
Rio Blanco County	2	0	2
Rio Grande County	5	0	5
Routt County	1	0	1
Washington County	1	0	1

Weld County	4	10	14
<b>TOTAL COLORADO: 24 COUNTIES</b>	<b>93</b>	<b>158</b>	<b>251</b>
<b>NEBRASKA</b>			
Lincoln County	1	0	1
Scotts Bluff County	8	4	12
Sioux County	1	0	1
<b>TOTAL NEBRASKA: 3 COUNTIES</b>	<b>10</b>	<b>4</b>	<b>14</b>
<b>NEW MEXICO</b>			
Bernalillo County	0	1	1
Dona Ana County	0	2	2
Eddy County	0	2	2
Grant County	3	0	3
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
<b>TOTAL NEW MEXICO: 12 COUNTIES</b>	<b>12</b>	<b>36</b>	<b>48</b>
<b>SOUTH DAKOTA</b>			
Custer County	0	4	4
Fall River County	2	3	5
Lawrence County	2	3	5
Meade County	4	11	15
Pennington County	3	10	13
<b>TOTAL SOUTH DAKOTA: 5 COUNTIES</b>	<b>11</b>	<b>31</b>	<b>42</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>			
Duchesne County	1	2	3
Grand County	4	5	9
Kane County	1	1	2
San Juan County	1	3	4
Uintah County	2	4	6
<b>TOTAL UTAH: 5 COUNTIES</b>	<b>9</b>	<b>15</b>	<b>24</b>
<b>WYOMING</b>			
Albany County	2	1	3
Converse County	4	6	10
Fremont County	1	7	8
Goshen County	3	5	8
Laramie County	3	0	3
Natrona County	1	0	1
Platte County	8	28	36
Sublette County	2	0	2
Weston County	1	0	1
<b>TOTAL WYOMING: 9 COUNTIES</b>	<b>25</b>	<b>47</b>	<b>72</b>
<b>TOTAL: 8 STATES</b>	<b>177</b>	<b>313</b>	<b>490</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.