



2019 Vesicular Stomatitis Virus (VSV) Situation Report – September 5, 2019

Information current as of 6:00pm MDT, 09/5/2019

VSV-positive premises have been confirmed to date in 7 states: Colorado, Nebraska, New Mexico, Oklahoma, Texas, Utah, and Wyoming. No new states have been confirmed positive since the last situation report.

Since the last situation report (August 29, 2019), there have been 42 new VSV-affected premises (11 confirmed positive, 31 suspect) identified:

Colorado (3 new confirmed positive, 20 new suspect premises)

- Adams County – 1 new suspect premises
- Delta County – 3 new suspect premises
- **Dolores County (New Infected County)** – 1 confirmed positive premises
- Douglas County – 1 new suspect premises
- Jefferson County – 1 new confirmed positive, 5 new suspect premises
- La Plata County – 1 new suspect premises
- Mesa County – 2 new suspect premises
- Montezuma County – 1 new suspect premises
- Morgan County – 2 new suspect premises
- Pueblo County – 1 new suspect premises
- San Miguel County – 1 new suspect premises
- Weld County – 1 new confirmed positive, 2 new suspect premises
- Since the last situation report, 98 previously VSV-infected or suspect premises have been released from quarantine.

Nebraska (1 new confirmed positive premises)

- **Morrill County (New Infected County)** – 1 confirmed positive premises
- Since the last situation report, 3 previously VSV-infected premises were released from quarantine.

New Mexico

- Since the last situation report, 2 previously VSV-infected or suspect premises were released from quarantine.

Texas (1 new confirmed positive, 1 new suspect premises)

- Hays County – 1 new suspect premises
- **Hill County (New Infected County)** – 1 confirmed positive premises
- Since the last situation report, 18 previously VSV-infected or suspect premises have been released from quarantine.

Utah

- Since the last situation report, 6 previously VSV-infected or suspect premises have been released from quarantine.

Wyoming (6 new confirmed positive, 10 new suspect premises)

- Albany County – 2 new confirmed positive premises
- **Big Horn County (New Infected County)** – 1 confirmed positive premises
- Carbon County – 1 new confirmed positive premises
- Goshen County – 1 new suspect premises
- Hot Springs County – 1 new confirmed positive, 1 new suspect premises
- **Park County (New Infected County)** – 1 new confirmed positive, 6 new suspect premises
- Platte County -2 new suspect premises
- Since the last situation report, 6 previously VSV-infected or suspect premises were released from quarantine.

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 2019 VSV outbreak began on June 21, 2019, when the National Veterinary Services Laboratories (NVSL) in Ames, Iowa confirmed the first VSV-positive premises in Kinney County, Texas. New Mexico, Colorado, Wyoming, Oklahoma, Nebraska and Utah subsequently broke with cases which were confirmed by NVSL on June 26, 2019 (Sandoval County, New Mexico), July 3, 2019 (Weld County, Colorado), July 24, 2019 (Platte County, Wyoming), July 29, 2019 (Tillman County, Oklahoma), August 9, 2019 (Lincoln County, Nebraska), and August 19, 2019 (Emery and Uintah Counties, Utah).

Since the start of the outbreak, **947 VSV-affected premises have been identified (396 confirmed positive, 551 suspect)**. **Nine hundred forty-four (944)** of these premises have only equine species clinically affected and 3 premises have affected cattle (Boulder and Delta County, Colorado and Gonzales County, Texas). Colorado has identified **632** affected premises (**236** confirmed positive, **396** suspect) in **32** counties (Adams, Alamosa, Arapahoe, Archuleta, Boulder, Broomfield, Chaffee, Conejos, Delta, **Dolores**, Douglas, El Paso, Fremont, Garfield, Gilpin, Grand, Gunnison, Jefferson, La Plata, Larimer, Mesa, Mineral, Montezuma, Montrose, Morgan, Ouray, Park, Pueblo, Rio Blanco, San Miguel, Summit, and

Weld Counties). Nebraska has identified 8 affected premises in 4 counties (Dawes, Lincoln, Morrill, and Scotts Bluff Counties). New Mexico has identified 76 affected premises (47 confirmed positive, 29 suspect) in 12 counties (Cibola, Los Alamos, Mora, Rio Arriba, Sandoval, San Juan, San Miguel, Santa Fe, Sierra, Socorro, Taos, and Valencia Counties). Oklahoma has identified 1 affected premises in 1 county (Tillman County). Texas has identified 170 affected premises (75 confirmed positive, 95 suspect) located in 37 counties (Bastrop, Bell, Bosque, Brown, Caldwell, Coleman, Collin, Coryell, Dallas, Eastland, Ellis, Erath, Falls, Gonzales, Guadalupe, Haskell, Hays, Hill, Hood, Johnson, Kerr, Kinney, Lampasas, Mason, McLennan, Mills, Palo Pinto, Parker, San Saba, Shackelford, Somervell, Taylor, Tom Green, Travis, Val Verde, Wichita, and Williamson Counties). Utah has identified 14 affected premises (10 confirmed positive, 4 suspect) in 5 counties (Duchesne, Emery, Grand, San Juan, and Uintah Counties). Wyoming has identified 46 affected premises (19 confirmed positive, 27 suspect) in 10 counties (Albany, Big Horn, Carbon, Converse, Goshen, Hot Springs, Laramie, Park, Platte, and Sweetwater Counties). There have been a total of 770 previously VSV-infected or suspect premises that have completed the quarantine period and been released.

Summary of VSV-Affected Premises

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

| COLORADO | Confirmed Positive Premises | Suspect Premises | Premises Released from Quarantine | Current Premises Quarantined |
|-------------------|-----------------------------|------------------|-----------------------------------|------------------------------|
| Adams County | 7 | 7 | 10 | 4 |
| Alamosa County | 2 | 1 | 1 | 2 |
| Arapahoe County | 2 | 0 | 1 | 1 |
| Archuleta County | 7 | 10 | 17 | 0 |
| Boulder County | 24 | 35 | 59 | 0 |
| Broomfield County | 1 | 1 | 1 | 1 |
| Chaffee County | 2 | 0 | 0 | 2 |
| Conejos County | 2 | 0 | 1 | 1 |
| Delta County | 5 | 40 | 25 | 20 |
| Dolores County | 1 | 0 | 0 | 1 |
| Douglas County | 12 | 3 | 8 | 7 |
| El Paso County | 1 | 0 | 0 | 1 |
| Fremont County | 1 | 0 | 1 | 0 |
| Garfield County | 1 | 0 | 0 | 1 |
| Gilpin County | 1 | 0 | 1 | 0 |
| Grand County | 1 | 0 | 1 | 0 |

| | | | | |
|---------------------------|------------|------------|------------|------------|
| Gunnison County | 1 | 0 | 1 | 0 |
| Jefferson County | 36 | 26 | 38 | 24 |
| La Plata County | 10 | 56 | 63 | 3 |
| Larimer County | 52 | 85 | 125 | 12 |
| Mesa County | 12 | 46 | 43 | 15 |
| Mineral County | 1 | 0 | 0 | 1 |
| Montezuma County | 3 | 26 | 24 | 5 |
| Montrose County | 4 | 23 | 17 | 10 |
| Morgan County | 1 | 4 | 3 | 2 |
| Ouray County | 3 | 1 | 3 | 1 |
| Park County | 1 | 0 | 0 | 1 |
| Pueblo County | 2 | 3 | 4 | 1 |
| Rio Blanco County | 1 | 0 | 0 | 1 |
| San Miguel County | 1 | 1 | 0 | 2 |
| Summit County | 1 | 0 | 0 | 1 |
| Weld County | 37 | 28 | 58 | 7 |
| TOTAL: 32 COUNTIES | 236 | 396 | 505 | 127 |
| NEBRASKA | | | | |
| Dawes County | 1 | 0 | 1 | 0 |
| Lincoln County | 1 | 0 | 1 | 0 |
| Morrill County | 1 | 0 | 0 | 1 |
| Scotts Bluff County | 5 | 0 | 3 | 2 |
| TOTAL: 4 COUNTIES | 8 | 0 | 5 | 3 |
| NEW MEXICO | | | | |
| Cibola County | 1 | 0 | 1 | 0 |
| Los Alamos County | 1 | 0 | 1 | 0 |
| Mora County | 1 | 0 | 1 | 0 |
| Rio Arriba County | 1 | 6 | 6 | 1 |
| Sandoval County | 7 | 3 | 10 | 0 |
| San Juan County | 1 | 3 | 4 | 0 |
| San Miguel County | 2 | 2 | 4 | 0 |
| Santa Fe County | 5 | 6 | 11 | 0 |
| Sierra County | 1 | 0 | 1 | 0 |
| Socorro County | 1 | 0 | 1 | 0 |
| Taos County | 5 | 1 | 6 | 0 |
| Valencia County | 21 | 8 | 29 | 0 |
| TOTAL: 12 COUNTIES | 47 | 29 | 75 | 1 |
| OKLAHOMA | | | | |
| Tillman County | 1 | 0 | 1 | 0 |
| TOTAL: 1 COUNTY | 1 | 0 | 1 | 0 |

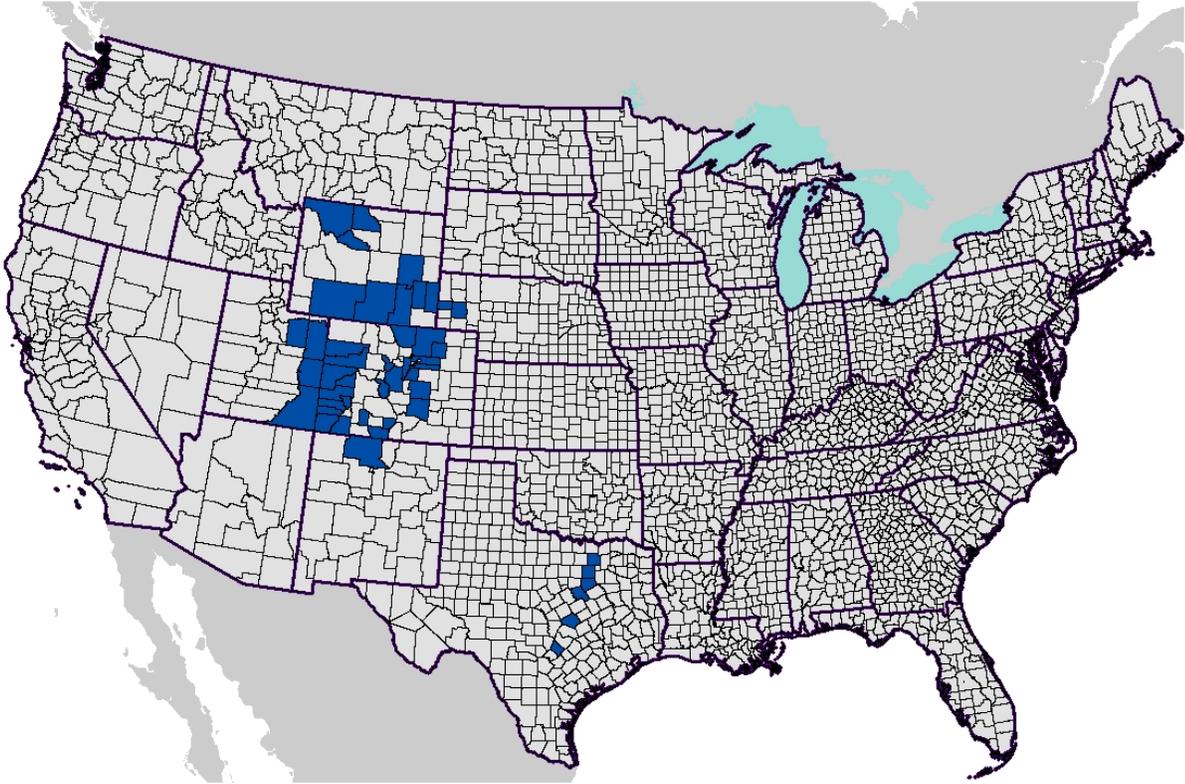
| TEXAS | Confirmed Positive Premises | Suspect Premises | Premises Released from Quarantine | Current Premises Quarantined |
|---------------------------------|-----------------------------|------------------|-----------------------------------|------------------------------|
| Bastrop County | 9 | 50 | 59 | 0 |
| Bell County | 1 | 2 | 2 | 1 |
| Bosque County | 1 | 0 | 1 | 0 |
| Brown County | 1 | 0 | 1 | 0 |
| Caldwell County | 2 | 1 | 3 | 0 |
| Coleman County | 3 | 0 | 3 | 0 |
| Collin County | 2 | 0 | 1 | 1 |
| Coryell County | 1 | 0 | 1 | 0 |
| Dallas County | 4 | 0 | 1 | 3 |
| Eastland County | 1 | 0 | 1 | 0 |
| Ellis County | 4 | 1 | 0 | 5 |
| Erath County | 1 | 1 | 2 | 0 |
| Falls County | 1 | 0 | 1 | 0 |
| Gonzales County | 1 | 0 | 1 | 0 |
| Guadalupe County | 1 | 5 | 6 | 0 |
| Haskell County | 1 | 0 | 1 | 0 |
| Hays County | 1 | 4 | 4 | 1 |
| Hill County | 1 | 0 | 0 | 1 |
| Hood County | 4 | 3 | 7 | 0 |
| Johnson County | 1 | 0 | 1 | 0 |
| Kerr County | 1 | 0 | 1 | 0 |
| Kinney County | 1 | 0 | 1 | 0 |
| Lampasas County | 1 | 0 | 1 | 0 |
| Mason County | 1 | 0 | 1 | 0 |
| McLennan County | 2 | 3 | 5 | 0 |
| Mills County | 1 | 0 | 1 | 0 |
| Palo Pinto County | 6 | 1 | 7 | 0 |
| Parker County | 4 | 1 | 5 | 0 |
| San Saba County | 1 | 0 | 1 | 0 |
| Shackelford County | 2 | 0 | 2 | 0 |
| Somervell County | 2 | 1 | 3 | 0 |
| Taylor County | 1 | 0 | 1 | 0 |
| Tom Green County | 3 | 0 | 3 | 0 |
| Travis County | 2 | 15 | 17 | 0 |
| Val Verde County | 1 | 0 | 1 | 0 |
| Wichita County | 1 | 0 | 1 | 0 |
| Williamson County | 4 | 7 | 11 | 0 |
| TOTAL TEXAS: 37 COUNTIES | 75 | 95 | 158 | 12 |
| UTAH | | | | |
| Duchesne County | 1 | 0 | 0 | 1 |
| Emery County | 1 | 0 | 1 | 0 |
| Grand County | 2 | 0 | 1 | 1 |
| San Juan County | 1 | 0 | 0 | 1 |
| Uintah County | 5 | 4 | 7 | 2 |

| | | | | |
|----------------------------------|------------|------------|------------|------------|
| | | | | |
| TOTAL: 5 COUNTIES | 10 | 4 | 9 | 5 |
| WYOMING | | | | |
| Albany County | 4 | 0 | 1 | 3 |
| Big Horn County | 1 | 0 | 0 | 1 |
| Carbon County | 2 | 0 | 0 | 2 |
| Converse County | 2 | 5 | 6 | 1 |
| Goshen County | 1 | 1 | 0 | 2 |
| Hot Springs County | 2 | 1 | 1 | 2 |
| Laramie County | 1 | 0 | 1 | 0 |
| Park County | 1 | 6 | 0 | 7 |
| Platte County | 4 | 14 | 8 | 10 |
| Sweetwater County | 1 | 0 | 0 | 1 |
| TOTAL: 10 COUNTIES | 19 | 27 | 17 | 29 |
| TOTAL PREMISES ALL STATES | 396 | 551 | 770 | 177 |

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 |
|-------------------|--|--|--|---|-------------------------|
| COLORADO | 630 | 2 | 0 | 0 | 632 |
| NEBRASKA | 8 | 0 | 0 | 0 | 8 |
| NEW MEXICO | 76 | 0 | 0 | 0 | 76 |
| OKLAHOMA | 1 | 0 | 0 | 0 | 1 |
| TEXAS | 169 | 1 | 0 | 0 | 170 |
| UTAH | 14 | 0 | 0 | 0 | 14 |
| WYOMING | 46 | 0 | 0 | 0 | 46 |
| TOTAL | 944 | 3 | 0 | 0 | 947 |

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



Map 2. Counties with Premises Quarantined for VSV Since June 21, 2019 (shaded in blue)

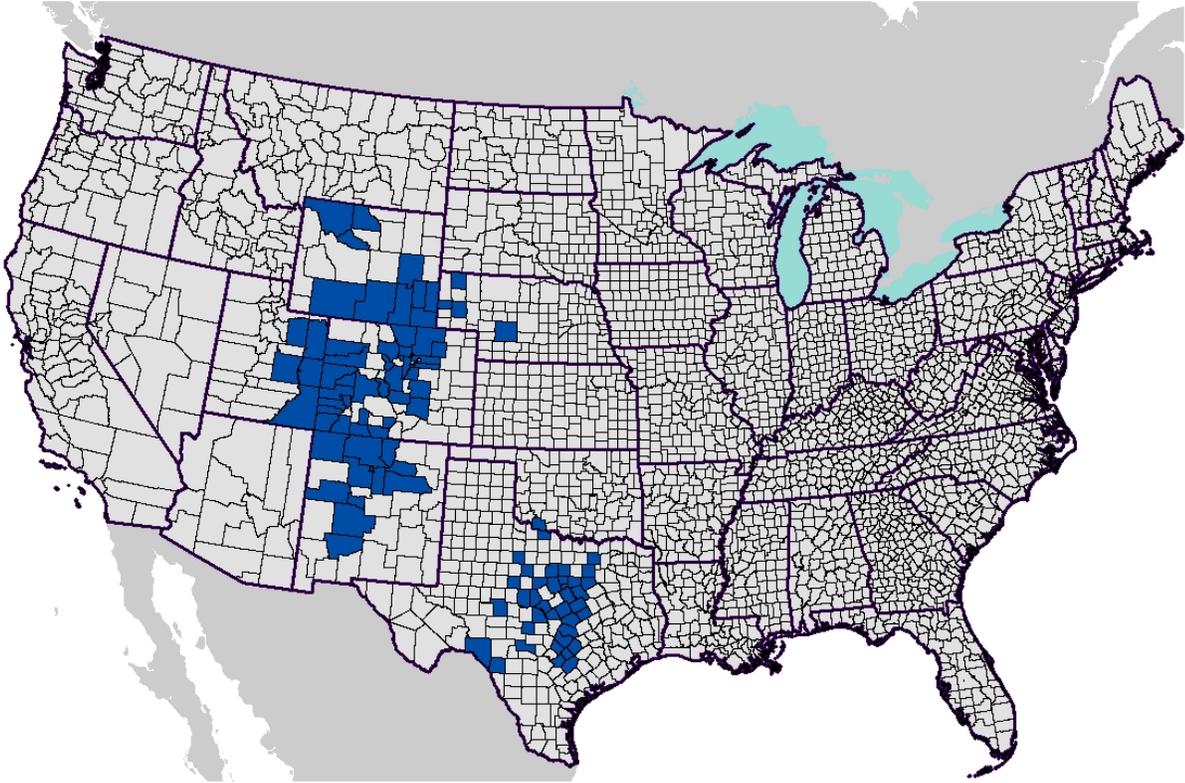


Figure 1. Cumulative Epidemic Curve for Onset of Lesions in Animals on Affected Premises. Information complete as of August 15, 2019.

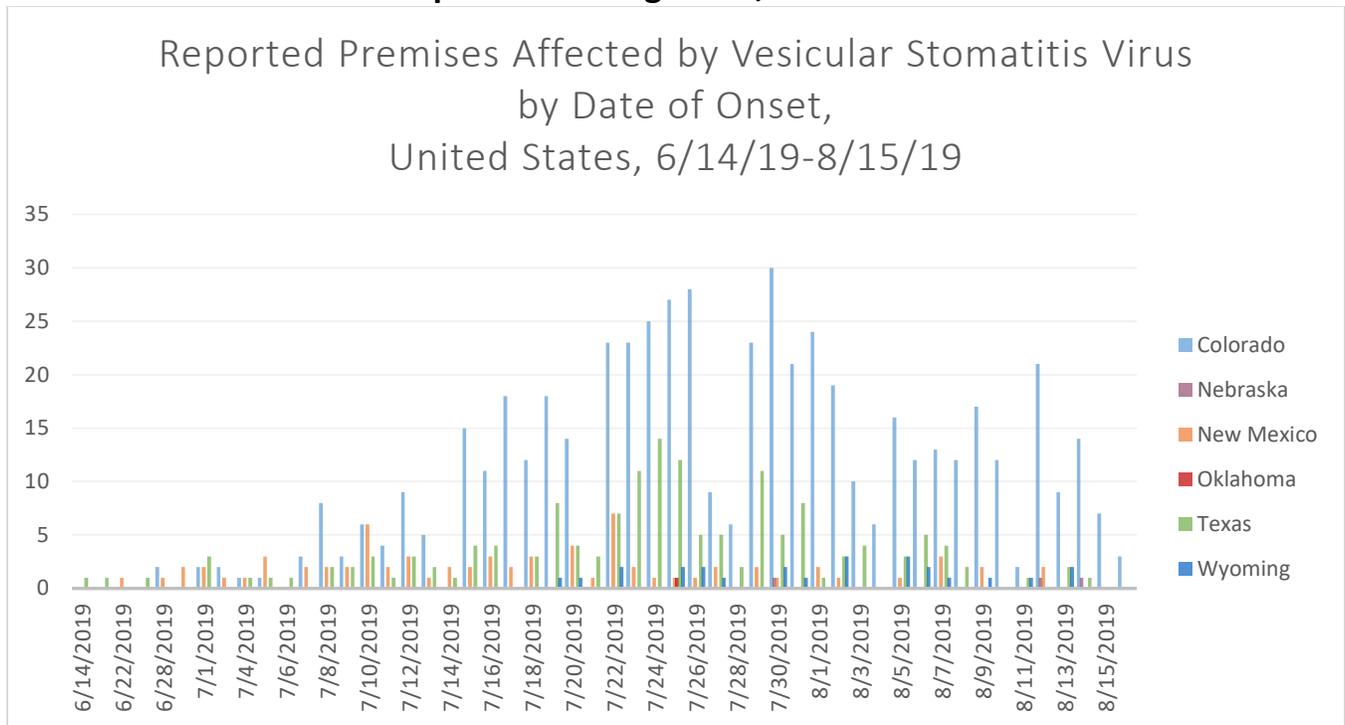


Table 3. Timeline of Events

| Date | Event |
|---------------|--|
| June 21, 2019 | VSV index case for the U.S. confirmed at NVSL – Kinney County, Texas |
| June 24, 2019 | New affected county confirmed – Tom Green County, Texas |
| June 26, 2019 | Index case for New Mexico confirmed – Sandoval County, New Mexico |
| July 3, 2019 | Index case for Colorado confirmed – Weld County, Colorado |
| July 5, 2019 | New affected counties confirmed – Los Alamos, New Mexico; Larimer County, Colorado |
| July 8, 2019 | New affected counties confirmed – Valencia County, New Mexico; Coleman County, Texas; Kerr County, Texas |
| July 10, 2019 | New affected counties confirmed – La Plata County, Colorado; Santa Fe County, New Mexico |
| July 11, 2019 | New affected counties confirmed – Taylor County, Texas; Val Verde County, Texas |
| July 12, 2019 | New affected counties confirmed – Boulder County, Colorado; Shackelford and Wichita Counties, Texas |
| July 16, 2019 | New affected county confirmed – Broomfield County, Colorado |
| July 17, 2019 | New affected counties confirmed – Adams County, Colorado; Bastrop, Hood, and Johnson Counties, Texas |

| | |
|-----------------|--|
| July 18, 2019 | New affected county confirmed – Hays County, Texas |
| July 19, 2019 | New affected county confirmed – Delta County, Colorado |
| July 22, 2019 | New affected county confirmed – Archuleta County, Colorado |
| July 23, 2019 | New affected counties confirmed – Montezuma County and Morgan County, Colorado; Somervell County, Texas |
| July 24, 2019 | Index case for Wyoming confirmed – Platte County, Wyoming. New affected counties confirmed – Mesa County, Colorado; Cibola and San Miguel Counties, New Mexico |
| July 25, 2019 | New affected counties confirmed – Brown, Palo Pinto, and Travis Counties, Texas |
| July 26, 2019 | New affected counties confirmed – Jefferson County, Colorado; Sierra County, New Mexico; Parker County, Texas. |
| July 29, 2019 | Index case for Oklahoma confirmed – Tillman County, Oklahoma. New affected counties confirmed – San Juan County, New Mexico; Caldwell, Eastland, and San Saba Counties, Texas. |
| July 30, 2019 | New affected counties confirmed – Conejos County, Colorado; Mills County, Texas. |
| July 31, 2019 | New affected counties confirmed – Montrose County, Colorado; Guadalupe, Lampasas, McLennan, and Williamson Counties, Texas. |
| August 1, 2019 | New affected counties confirmed – Alamosa and Ouray Counties, Colorado; Gonzales and Mason Counties, Texas; Laramie County, Wyoming. |
| August 2, 2019 | New affected counties confirmed – Douglas County, Colorado; Socorro County, New Mexico; Falls County, Texas; Converse County, Wyoming. |
| August 5, 2019 | New affected counties confirmed – Coryell and Erath Counties, Texas. |
| August 6, 2019 | New affected counties confirmed – Gilpin and Pueblo Counties, Colorado; Haskell County, Texas. |
| August 7, 2019 | New affected counties confirmed – Grand County, Colorado; Mora County, New Mexico. |
| August 8, 2019 | New affected county confirmed – Bell County, Texas. |
| August 9, 2019 | Index case for Nebraska confirmed – Lincoln County, Nebraska. New affected county confirmed – Bosque County, Texas. |
| August 14, 2019 | New affected counties confirmed – Arapahoe and Mineral Counties, Colorado. |
| August 15, 2019 | New affected counties confirmed – Gunnison County, Colorado; Scotts Bluff County, Nebraska; Dallas County, Texas; Albany and Sweetwater Counties, Wyoming. |
| August 16, 2019 | New affected county confirmed – Collin County, Texas. |
| August 19, 2019 | Index cases for Utah confirmed – Emery and Uintah Counties, Utah. |
| August 20, 2019 | New affected counties confirmed – Chaffee and Fremont Counties, Colorado. |
| August 21, 2019 | New affected county confirmed – Park County, Colorado |
| August 22, 2019 | New affected counties confirmed – Dawes County, Nebraska; Ellis County, Texas; Hot Springs County, Wyoming. |
| August 23, 2019 | New affected counties confirmed – Garfield and San Miguel Counties, Colorado. |

| | |
|-------------------|---|
| August 26, 2019 | New affected counties confirmed – Rio Blanco and Summit Counties, Colorado. |
| August 28, 2019 | New affected counties confirmed – El Paso County, Colorado; Grand and San Juan Counties, Utah; Carbon and Goshen Counties, Wyoming. |
| August 29, 2019 | New affected county confirmed – Duchesne County, Utah. |
| August 30, 2019 | New affected counties confirmed – Dolores County, Colorado; Hill County, Texas. |
| September 3, 2019 | New affected counties confirmed – Big Horn and Park Counties, Wyoming. |
| September 5, 2019 | New affected county confirmed – Morrill County, Nebraska. |