

Vesicular Stomatitis 2014
Situation Report – November 23, 2014

Information Current as of 8:00 am MDT, November 23, 2014
(Updated information listed in blue ink)

New Information

On November 22, 2014, the National Veterinary Services Laboratories' Foreign Animal Disease Diagnostic Laboratory on Plum Island, NY confirmed a finding of vesicular stomatitis virus (VSV) infection (New Jersey serotype) on a bovine premises in Wheeler County, Nebraska. Three (3) head of cattle on the premises met the case definition of infection with compatible clinical signs and positive complement fixation antibody titers. This is the 2014 VSV index case for Nebraska. A second epidemiologically-linked bovine premises in Wheeler County, NE also has cattle showing clinical signs and is being managed as a presumptive positive premises.

Additionally, since the last situation report (11/19/2014), a total of **two (2)** new VSV-positive premises (New Jersey serotype) have been confirmed in Colorado; **one (1) equine premises and one (1) bovine premises**. Horses and cattle were newly confirmed VSV-positive by compatible clinical signs and either complement fixation test (CFT) antibody titer or virus isolation in the following counties:

Colorado

Morgan County, Colorado – 3 horses on 1 premises

Otero County, Colorado – 1 cow on 1 premises

Nebraska

Wheeler County, Nebraska - 3 cattle on 1 premises (A 2nd epidemiologically linked premises is also under quarantine.)

To date, a total of four hundred twenty-nine (429) VSV-positive premises have been confirmed in three U.S. states, Nebraska (1 premises), Colorado (366 premises) and Texas (62 premises). There has been 1 county affected in Nebraska (Wheeler County), 16 counties affected in Colorado (Adams, Arapahoe, Boulder, Broomfield, Douglas, El Paso, Fremont, Huerfano, Jefferson, Larimer, Logan, Morgan, Otero, Pueblo, Sedgwick, and Weld Counties), and 13 counties affected in Texas (Bastrop, Falls, Guadalupe, Hidalgo, Jim Wells, Kinney, Lee, McLennan, Nueces, San Patricio, Travis, Val Verde, and Williamson Counties). Of the 429 total VSV-positive premises, 400 have been positive equine premises, 26 have been positive bovine premises, and 3 premises have had both cattle and horses positive.

Positive premises are eligible for quarantine release 21 days after lesions have healed in all affected animals. To date, **three hundred twenty-three (323)** premises in Colorado have been released from quarantine and there are an additional **twenty-five (25)** premises in Colorado on 21-day countdown to quarantine release. As of October 13, 2014, all confirmed VSV-positive premises in Texas have been released from quarantine.

Map Information

See adjoining maps for current and cumulative positive premises information.

Current: Counties with Positive Premises Remaining Under Quarantine

Note: Does NOT include data from premises already released from quarantine. See Cumulative information section.

STATE	COUNTY	PREMISES
Colorado	Adams	5
	Arapahoe	1
	El Paso	5
	Fremont	2
	Huerfano	1
	Jefferson	3
	Larimer	4
	Logan	3
	Morgan	4
	Otero	3
	Pueblo	5
	Sedgwick	1
	Weld	6
Nebraska	Wheeler	1*
TOTAL	14	44

*A second epidemiologically-linked premises in Wheeler County also has cattle showing clinical signs of VSV and is being managed as a presumptive positive premises, although laboratory confirmation has not been performed.

Current Statistics for Premises Remaining Under Quarantine

Note: Does NOT include data from premises already released from quarantine. See Cumulative Statistics.

Current Positive Premises	Nebraska	Colorado	Texas	Total
Current Positive Premises Under Quarantine	1	43	0	44
Premises on 21-day Countdown to Quarantine Removal	0	25	0	25
Current Counties with Positive Premises	1	13	0	14

Current Positive Species	Nebraska	Colorado	Texas	Total
Positive Equine Species	0	54	0	54
Positive Bovine Species	3	21	0	24
Positive Porcine Species	0	0	0	0
Positive Ovine Species	0	0	0	0
Positive Caprine Species	0	0	0	0
Positive Other Species	0	0	0	0
Total Positive Animals	3	75	0	78

Current Susceptible Species	Nebraska	Colorado	Texas	Total
Susceptible Equine Species	0	313	0	313
Susceptible Bovine Species	236	5484	0	5720
Susceptible Porcine Species	0	0	0	0
Susceptible Ovine Species	0	2	0	2
Susceptible Caprine Species	0	54	0	54
Susceptible Other Species	0	22	0	22
Total Susceptible Animals	236	5875	0	6111

*Current susceptible species counts include current positive cases.

Cumulative: Counties with Positive Premises (since the start of the outbreak)

STATE	COUNTY	PREMISES
Colorado	Adams	17
	Arapahoe	3
	Boulder	76
	Broomfield	3
	Douglas	2
	El Paso	6
	Fremont	5
	Huerfano	1
	Jefferson	24
	Larimer	87
	Logan	5
	Morgan	6
	Otero	5
	Pueblo	28
	Sedgwick	1
Weld	97	
Nebraska	Wheeler	1
Texas	Bastrop	37
	Falls	1
	Guadalupe	1
	Hidalgo	2
	Jim Wells	1
	Kinney	1
	Lee*	1
	McLennan	1
	Nueces	2
	San Patricio	2
	Travis	10
	Val Verde	1
	Williamson	2
TOTAL	30	429

*Horses in Lee County were confirmed to have been infected in Bastrop County, but were illegally moved

Cumulative Statistics (for all premises since the start of the outbreak)

Cumulative Positive Premises	Nebraska	Colorado	Texas	Total
Cumulative Positive Premises Quarantined	1	366	62	429
Cumulative Counties with Positive Premises	1	16	13	30

Cumulative Positive Species	Nebraska	Colorado	Texas	Total
Positive Equine Species	0	492	89	581
Positive Bovine Species	3	47	8	58
Positive Porcine Species	0	0	0	0
Positive Ovine Species	0	0	0	0
Positive Caprine Species	0	0	0	0
Positive Other Species	0	0	0	0
Total Positive Animals	3	539	97	639

Cumulative Susceptible Species	Nebraska	Colorado	Texas	Total
Susceptible Equine Species	0	3791	619	4410
Susceptible Bovine Species	236	6627	2023	8886
Susceptible Porcine Species	0	21	3	24
Susceptible Ovine Species	0	80	4	84
Susceptible Caprine Species	0	223	64	287
Susceptible Other Species	0	105	2	107
Total Susceptible Animals	236	10847	2715	13798

*Cumulative susceptible species counts include positive cases.

Background Information

On May 23, 2014, the National Veterinary Services Laboratories (NVSL) in Ames, Iowa, confirmed a finding of vesicular stomatitis virus (VSV) infection (New Jersey serotype) on an equine premises in Kinney County, Texas. Four affected horses on the premises met the case definition of infection with compatible clinical signs and either virus isolation or positive complement fixation antibody titers. This was the 2014 VSV index case for the nation.

On July 17, 2014, the National Veterinary Services Laboratories in Ames, Iowa, confirmed findings of vesicular stomatitis virus (VSV) infection (New Jersey serotype) on two (2) equine premises in Weld County, Colorado. These were the index cases for Colorado. Three affected horses on one premises and one affected horse on the other premises met the case definition of VSV infection with compatible clinical signs and either positive complement fixation antibody titers or positive virus isolation.

On October 13, 2014, the last confirmed VSV-positive premises in Texas was released from quarantine.