

**Surveillance, Preparedness and Response Services (SPRS)**  
**Cattle Health Center**  
**Bovine Tuberculosis and Brucellosis Surveillance Results**  
**Monthly Reports, Federal Fiscal Year (FY) 2019**

## **TUBERCULOSIS**

### **New Information – Bovine Tuberculosis (TB)**

#### **January 2019**

- A small TB-affected beef herd, ~100 head, was identified in North Dakota as a result of epi investigations of the cow slaughter cases identified in November and December. The herd has been depopulated.
- One histo compatible case was identified during routine slaughter.
  - PCR (+) case in a 2 Y.O. dairy heifer. Official identification matched the lesion tissue. Epi investigations are underway.

#### **December 2018**

- Two histo compatible cases were identified during routine slaughter.
  - PCR (+) case in a cow
    - Official identification device did match lesion tissue.
    - This cow was slaughtered late November and histo results were obtained in early December.
  - PCR (+) case in a fed steer
    - No ID was submitted.
    - Whole genome sequencing (WGS) is unrelated to any other U.S. isolate in the NVSL data bank.
- ID matching was re-run on the histo (+)/PCR (+) case reported in November and a match was reported in early December.

#### **November 2018**

- One histo compatible case was identified during routine slaughter.
  - PCR (+) case in a cow.
    - Official identification device did not match lesion tissue.

#### **October 2018**

- One TB-affected beef herd was identified in Michigan's Modified Accredited Zone (MAZ) as a result of annual surveillance testing. This herd is approximately 260 head.
- A TB-affected dairy was identified in Wisconsin as a result of investigation of the September 2018 slaughter case. The herd is approximately 2,000 head.

**Table 1.** Bovine TB cases found through routine slaughter inspection, FY 2019.<sup>a</sup>

Laboratory Status	New TB Cases January 1 -31, 2018		Cumulative TB Cases October 1, 2018 – January 31, 2109		
	Fed cattle	Adult cattle	Fed cattle	Adult cattle	Total
<i>M. bovis</i> cases, confirmed	1	0	2	2	4

<sup>a</sup> Animals detected only through routine Food Safety and Inspection Service (FSIS)/State-inspected slaughter. Animals sent to slaughter for diagnostic purposes on a 1-27 permit, “Permit for Movement of Restricted Animals” are not included.

<sup>b</sup> Confirmed by *M. bovis* identification; or Histo compatible and PCR positive for *M. TB* complex.

**Table 2.** Livestock herds confirmed infected with bovine TB and under quarantine. Includes test-and-remove managed herds under quarantine from previous years. Herds will be removed when the quarantine on the TB-affected premises has been released.

Location	Date Detected	Method of Detection	Herd Type	Herd Management Plan
Wisconsin	October 2018	Slaughter Trace	Dairy	Test-and Remove
MI-MAZ	October 2018	Area Surveillance	Beef	Test-and Remove
Texas	June 2018	Area Surveillance	Dairy	Test-andRemove
South Dakota	November 2017	Slaughter Trace	Beef	Depopulated
New Mexico	February 2017	Slaughter Trace	Dairy	Test-and-Remove
Indiana	December 2016	Area Surveillance	Beef	Depopulated
MI-MAZ	November 2016	Area Testing	Beef	Test-and-Remove
Texas	June 2015	Slaughter Trace	Dairy	Test-and-Remove

## BRUCELLOSIS

### New Information

#### January 2019

- No update.

#### December 2018

- Fall testing of the Montana Designated Surveillance Area (DSA) livestock herd was completed in early December 2018. Thirty-three (33) reactors and three (3) suspects were found in the herd of ~2670 head. The next test is scheduled for Fall 2019.

#### November 2018

- Two brucellosis-affected beef herds were identified in Wyoming's DSA as a result of herd plan testing.
  - A small beef herd of ~50 head voluntarily depopulated.
  - A previously affected beef herd of ~700 head was released from quarantine in June 2017.

#### October 2018

- One brucellosis-affected beef herd was identified in Wyoming's DSA as a result of herd plan testing. This herd is approximately 660 head.

**Table 1.** Livestock herds confirmed with brucellosis and under quarantine. Includes test-and-remove managed herds under quarantine from previous years. Herds will be removed when the quarantine on the brucellosis-affected premises has been released.

Location	Date Detected	Method of Detection	Herd Type <sup>a</sup>	Herd Management Plan
WY-DSA	November 2018	DSA Surveillance Testing	Beef	Test-and-Remove
WY-DSA	November 2018	DSA Surveillance Testing	Beef	Test-and-Remove

WY-DSA	October 2018	Herd Plan Testing	Beef	Quarantine Released
ID-DSA	November 2017	DSA Surveillance Testing	Beef	Test-and-remove
MT-DSA	November 2010	DSA Surveillance testing	Bison	Test-and-Remove

a. Current Montana state statute prevents public disclosure of herd type. Previous herd type identification is “grandfathered” in prior to this law.