

**Surveillance, Preparedness and Response Services (SPRS)
Cattle Health Center
Bovine Tuberculosis and Brucellosis Surveillance Results
Monthly Reports, Federal Fiscal Year (FY) 2018**

TUBERCULOSIS

New Information – Bovine Tuberculosis (TB)

November 2017

- A TB-affected beef herd was identified in South Dakota as a result of investigation of the October slaughter case. The herd is approximately 340 head.

October 2017

- One histo compatible case was identified during routine slaughter.
 - PCR (+) case in a cow with confirmed official identification device tracing to South Dakota.

Table 1. Bovine TB cases found through routine slaughter inspection, FY 2018.^a

Laboratory Status	New TB Cases November 1-30, 2017		Cumulative TB Cases October 1, 2016-November 30, 2017		
	Fed cattle	Adult cattle	Fed cattle	Adult cattle	Total
<i>M. bovis</i> cases, confirmed ^b	0	0	0	1	1

^a Animals detected only through routine Food Safety 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.

^b 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
New Mexico	June 2017	Epi Investigation	Dairy	Pending

MI - MAZ	April 2017	Area Surveillance	Beef	Test-and-Remove
Michigan - AFZ	March 2017	Epi Investigation	Beef	Depop
New Mexico	February 2017	Slaughter Trace	Dairy	Test-and-Remove
Indiana	December 2016	Area Surveillance	Beef	Test-and-Remove
MI-MAZ	November 2016	Area Testing	Beef	Test-and-Remove
Texas	June 2015	Slaughter Trace	Dairy	Test-and-Remove
South Dakota	November 2017	Slaughter Trace	Beef	Pending

BRUCELLOSIS

New Information

November 2017

A brucellosis-affected herd was identified in Idaho's Designated Surveillance Area (DSA) as a result of voluntary herd testing. A culture of *B. abortus* was confirmed by the National Veterinary Services Laboratories in one 4-year old cow out of a herd of ~1001 head on November 30, 2017. The culture genotype shares a common ancestor with a 2005 elk isolate collected from the Rainey Creek feedground in Idaho. The herd has been placed under quarantine and the epidemiological investigation is underway.

October 2017

- The Montana DSA livestock herd detected in August 2017 completed its first whole herd test in September. Three non-negative animals were found, with *B. abortus* biovar 1 being isolated from the index animal. The next test is scheduled for mid-January 2018.
- The Montana DSA livestock herd that was detected in November 2016 completed its whole herd post-calving test. One sero suspect animal was detected and went negative upon retest. The quarantine was lifted October 14, and the assurance test is scheduled for December 2017.

Table 1. Brucellosis cases found through routine slaughter inspection – cattle, FY 2018 Year-to-Date.^a

Laboratory Status	New Brucellosis Cases November 1 – 30, 2017		Cumulative Brucellosis Cases October 1 2017 – November 30, 2017		
	Fed cattle	Adult cattle	Fed cattle	Adult cattle	Total
<i>B. abortus</i> reactor cases	0	0	0	0	0

^a Animals detected only through routine FSIS/State slaughter inspection. Animals sent to slaughter for diagnostic purposes on a 1-27 permit, “Permit for Movement of Restricted Animals” are not included.

Table 2. 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 ^a	Herd Management Plan
ID-DSA	November 2017	DSA Surveillance testing	Beef	Test-and-remove
MT-DSA	August 2017	DSA Surveillance testing	Livestock	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.