Surveillance, Preparedness and Response Services (SPRS)
Cattle Health Center
Bovine Tuberculosis and Brucellosis Surveillance Results
Monthly Reports, Federal Fiscal Year (FY) 2017

TUBERCULOSIS

New Information – Bovine Tuberculosis (TB)
- Two histo compatible cases were identified during routine slaughter.
  - One PCR (+) case in a feeder steer with confirmed identification devices tracing to the Yucatan Region in Mexico.
  - One PCR (-) case in a feeder steer with no official identification submitted. Culture is pending.

- A TB-affected beef herd was identified in Michigan's Modified Accredited Zone (MAZ) as a result of annual surveillance testing. The herd is approximately 150 head.

October 2016
- Three positive TB cases in fed cattle were identified during routine slaughter.
  - One with confirmed identification devices tracing to Nuevo Leon.
  - One with identification devices tracing to Michigan's Presque Isle County north of Michigan's MAZ.
  - One with identification implicating a Mexican origin animal; however, identification devices and lesion tissue did not match.

Table 1. Bovine TB cases found through routine slaughter inspection, FY 2017.[a]

Laboratory Status	New TB Cases November 1 - 30, 2016		Cumulative TB Cases October 1, 2016 - November 30, 2106		
	Fed cattle	Adult cattle	Fed cattle	Adult cattle	Total
M. bovis cases, confirmed[b]	1	0	4	0	4

[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
MI-MAZ	November 2016	Area Testing	Beef	Pending
Texas	June 2015	Slaughter Trace	Dairy	Test-and-Remove
MI-MAZ	December 2015	Area Testing	Beef	Depopulated July 2016 (State Funded)
MI-MAZ	April 2016	Area Testing	Beef	Test-and-Remove
MI-MAZ	May 2016	Epi Investigation	Beef	Test-and-Remove
IN	June 2016	Slaughter Trace	Beef	Depopulated June 2016
MI-MAZ	August 2016	Movement Test	Beef	Test-and-Remove

BRUCELLOSIS

New Information – Brucellosis
- A new affected livestock herd was detected in the Montana Designated Surveillance Area (DSA) using DSA herd plan surveillance. Culture of *B. abortus* biovar 1 was confirmed by National Veterinary Services Laboratories (NVSL) in two young bulls out of a herd of 180 head on November 22, 2016.

October 2016

The Wyoming DSA Brucellosis affected herd was tested October 31 – November 1, 2016. 404 head were tested with 2 reactors, serology confirmed at NVSL.

Table 1. Brucellosis cases found through routine slaughter inspection – cattle, FY 2016.[a]

Laboratory Status	New Brucellosis Cases October 1 - 31, 2016		Cumulative Brucellosis Cases October 1, 2015 - October 31, 2016		
	Fed cattle	Adult cattle	Fed cattle	Adult cattle	Total
B. abortus 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
MT-DSA	November 2016	DSA Surveillance testing	Livestock	Test and remove
WY - DSA	November 2015	Surveillance Testing	Cattle	Test-and-Remove
MT - DSA	November 2010	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.