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)

March 2019

- One histo compatible case was identified during routine slaughter.
    - PCR (+) case in a cull beef cow.
    - Official identification matched the lesion tissue.
    - Epi investigations are underway.
    - Whole genome sequencing (WGS) is unrelated to any other U.S. isolate in the National Veterinary Services Laboratories (NVSL) data bank.

February 2019

- A TB-affected dairy, ~10,000 head, was identified in Texas as a result of epi investigations of exposed cattle from known TB-affected dairies. WGS associated with this herd did not match the WGS of the previously known TB-affected dairies, which indicates this dairy was infected from a different, unidentified source.
- A TB-affected calf raising facility was identified as a result of an epi investigation of exposed calves from the newly identified TB-affected dairy. The calf raiser has ~70,000 calves, with ~14,000 identified as exposed.

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 year old 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.

        - 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.[a]

	New TB Cases March 1 - 31, 2018		**Cumulative TB Cases October 1, 2018 – March 31, 2109**		
Laboratory Status	**Fed cattle**	**Adult cattle**	**Fed cattle**	**Adult cattle**	**Total**
M. bovis cases, confirmed	0	1	2	3	5

[a] 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.
[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**
Texas	February 2019	Epi Investigation	Calf Raiser	Test-and-Remove
Texas	February 2019	Epi Investigation	Dairy	Test-and-Remove
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
MI-MAZ	November 2016	Area Testing	Beef	Test-and-Remove
Texas	June 2015	Slaughter Trace	Dairy	Test-and-Remove

BRUCELLOSIS

New Information

March 2019

- No update.

February 2019

- One brucellosis-affected beef herd in Wyoming's Designated Surveillance Area (DSA) had second whole herd test performed mid February. All ~660 head tested negative. Next whole herd test will be a post calving test in May/June.
- The other brucellosis-affected beef herd in Wyoming's DSA had second whole herd test performed early February. All of ~700 head tested negative. Next whole herd test will be a post calving test in June.

January 2019

- No update.

December 2018

- Fall testing of the Montana 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[a]	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
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.