



SD ANIMAL INDUSTRY BOARD

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Background:

Bovine Tuberculosis (TB) was identified in a beef cow during routine slaughter inspection by USDA Food Safety Inspection Service inspectors at a Texas slaughter plant in October, 2017. The cow had been sold to an Iowa livestock dealer at a South Dakota auction market, and records indicated it originated from a herd in Tripp County (south central South Dakota). This herd was tested by state and federal animal health officials, revealing additional infected animals, and confirming infection in the herd.

Update:

All adult cattle from the index ranch in Tripp County have been removed to inspected slaughter or rendering. Test negative animals were sent to inspected slaughter, revealing four additional infected cows. Calves which were born into the herd in 2017 have been tested and test positive animals were removed from the herd. This resulted in the detection of two additional infected animals. The remainder of these calves are quarantined at the index premises until they can be fed to slaughter weight, at which point they will be moved directly to a federally inspected slaughter establishment. Cleaning and disinfection of conveyances, water tanks, and other potential sources of contamination will be completed.

All adult animals in the 10 herds adjacent to the index herd have been tested. No evidence of infection was found during testing of over 4,000 cattle.

State and federal animal health officials continue to track cattle using sales records, official animal identification records, and certificates of veterinary inspection to identify animals that may have originated in the index herd and may now be in other herds.

Tracing epidemiologic investigation has led to the identification of several additional infected animals which moved from the index herd in the past year. One heifer sold in April, 2017 through a Nebraska livestock auction market was found to be infected in a central Nebraska herd. One cow sold through a South Dakota auction market in October, 2017 was found to be infected at a South Dakota feedyard. Another cow sold through a South Dakota auction market in October, 2017 was found to be infected in an Iowa feedyard.

Molecular characterization of *Mycobacterium bovis*, the causative agent of bovine tuberculosis, from the infected animals has identified this strain as being similar to, yet distinct from a strain identified in a Texas feedyard in 2013. According to scientists at the National Veterinary Services Laboratory (NVSL), this strain is new to the U.S., and its pathway of introduction into the Tripp County herd is as of yet unknown. No unusual risk factors (Mexican origin cattle, recreational cattle, foreign workers, wildlife reservoir, etc.) have been identified during the epidemiological investigation.

Number of Trace Out Investigation Herds in SD	81
Number of Trace Out States	92 traces in 6 states: CO, NE, KS, MN, IA, WI
Total Cattle Tested in SD (April 6, 2018)	4,606