



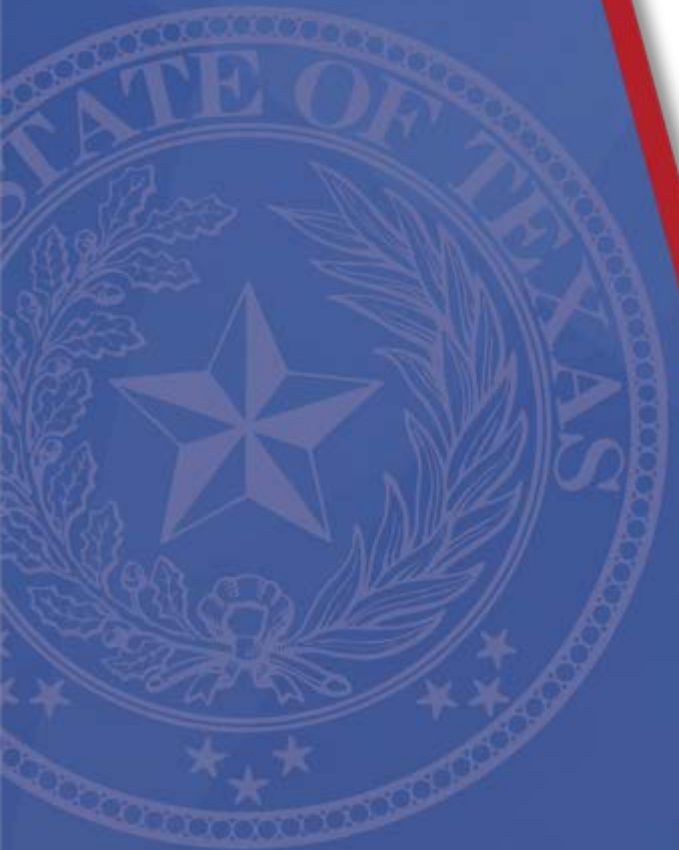
# Texas TB Status 2019

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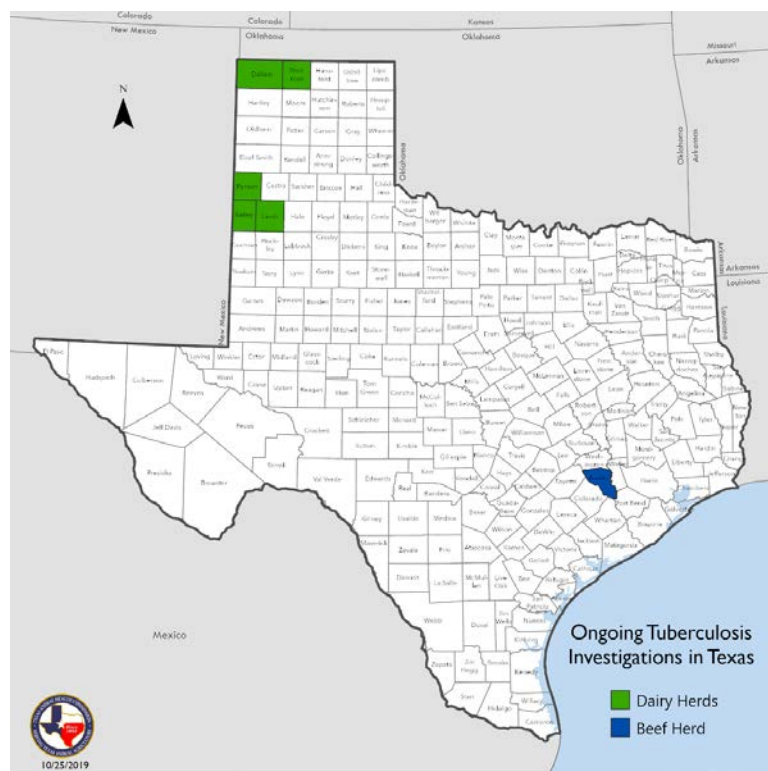
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State Epidemiologist



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# Texas TB Status 2019



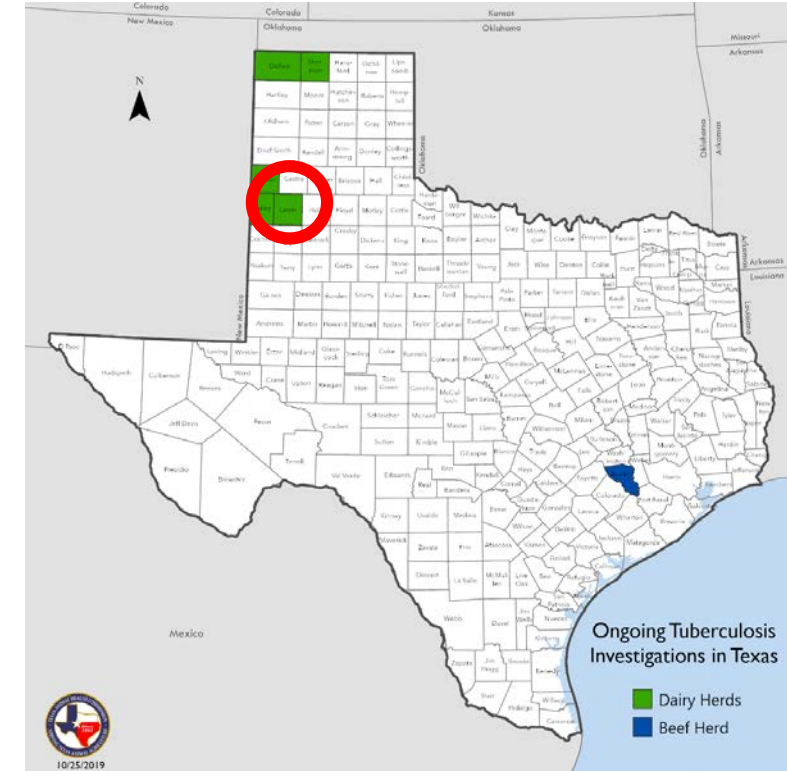
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# Status of the 2015 infected herds in Parmer and Lamb Counties

- Two organic dairies and a feed yard (~12,000 head) completed an assessment test in April 2015 then **13** removal tests.
- The 14<sup>th</sup> removal test is pending completion.
- Last culture positive was on the **10<sup>th</sup>** test
- On 13<sup>th</sup> test, there was a histocompatible positive result; culture negative
- To date, there are 68 histocompatible samples disclosed.



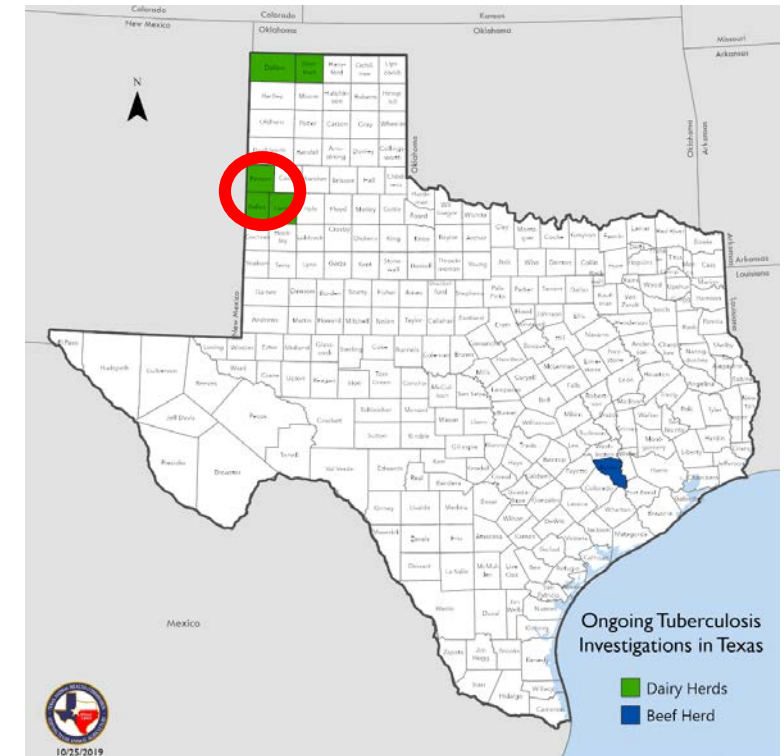




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# Status of the infected dairy in Bailey County (feedyard and associated dairy in Parmer/Bailey Counties)

- Two organic dairies and a feed yard (~6500 head) completed an assessment test in the spring 2016
- **One** positive disclosed
- Additional two complete whole herd tests did not reveal any additional TB
- Herd complex just completed the 6 month verification test in August and negative cultures are pending
- Whole genome sequence indicates association with complex #1 and both are under the same management

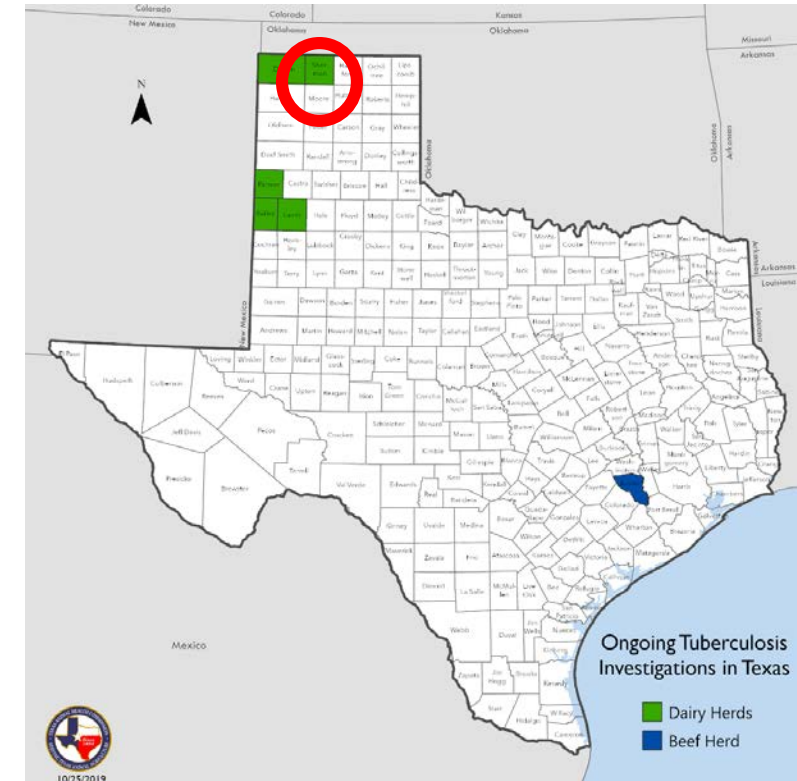




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# Status of infected dairy in Sherman County

- The ~8,700 head dairy was previously tested annually 2015- 2017 with negative test results.
- During the annual December 2018 test, a high rate of responders were disclosed.
- To date, 63 cows are confirmed since the first diagnosis in February 11, 2019.
- The second removal test is pending completion.
- Based on whole genome sequencing, two unique strains have been identified.
- WGS on 2<sup>nd</sup> strain is closest to a distant strain from the Iberian peninsula
- All traces distributed with the exception of culls

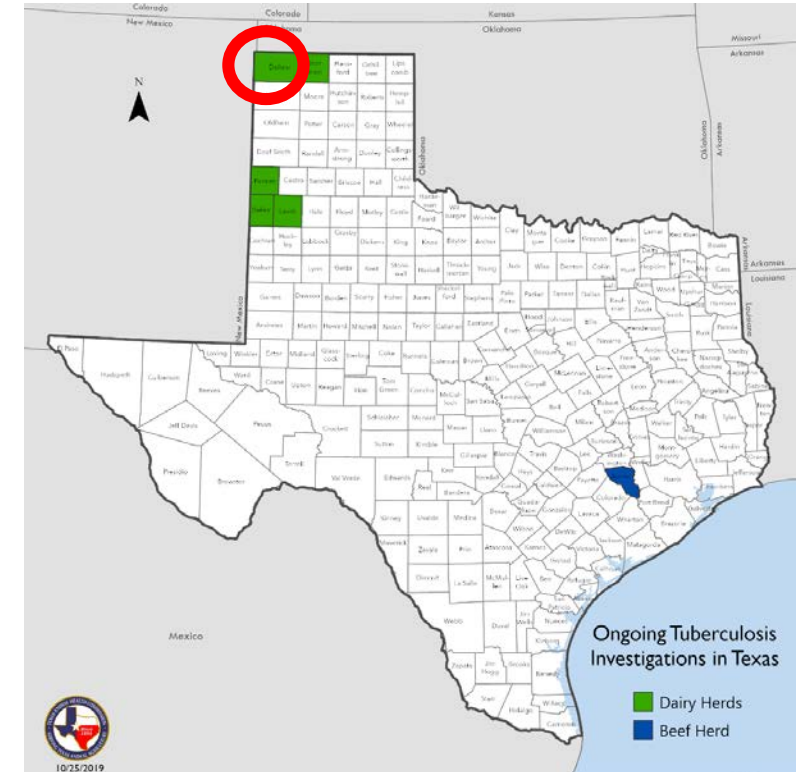




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# Status of first infected grower operations in Dallam county linked to the Sherman County dairy

- One associated grower facility is a ~70,000 head calf ranch.
- To date, one positive heifer was disclosed on 3/1/2019.
- Approximately 12,000 head are considered exposed.
- In addition to testing at the premises, epidemiologically linked dairies including 1 in Oklahoma, 2 in Kansas, and 1 in Texas also have required whole herd testing.
- The associated dairies are tested at the same time as the grower operation to help coordinate movement tests between states

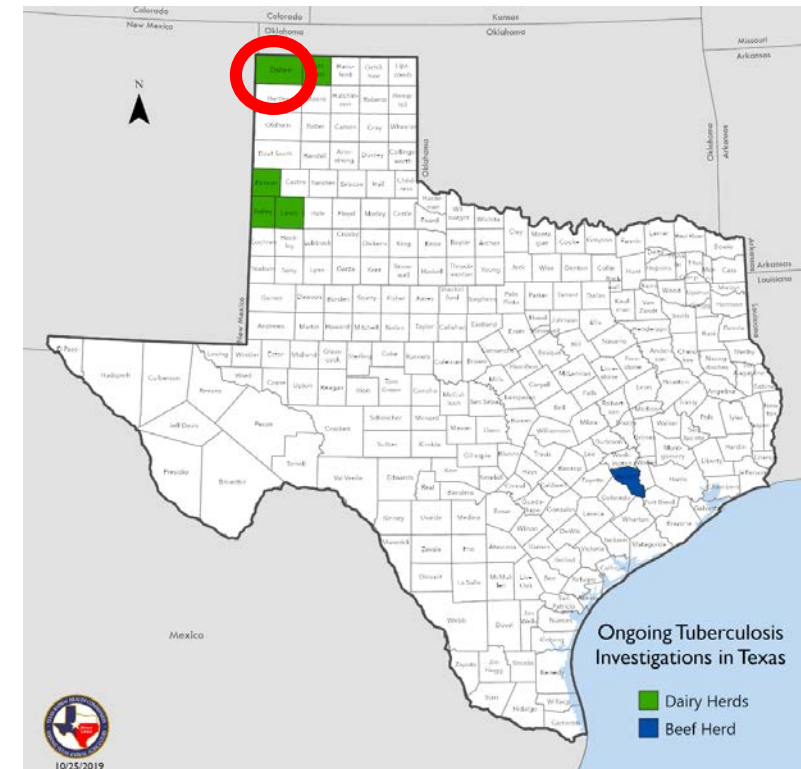




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# Status of second infected grower operations in Dallam county linked to the Sherman County dairy

- One positive heifer was disclosed on a grower facility that manages heifers for the index dairy (~4,500 head) on April 8, 2019.
- Heifer was born on infected dairy, raised in calf hutch then moved to this facility around ~6 months of age.
- This facility also grows heifers for a sister dairy in Colorado.
- Testing is scheduled at the same time as the index dairy to allow coordinated movements of the springing heifers
- Last movement to the dairy from index was in June-July time period
- Facility will phase out contract with index



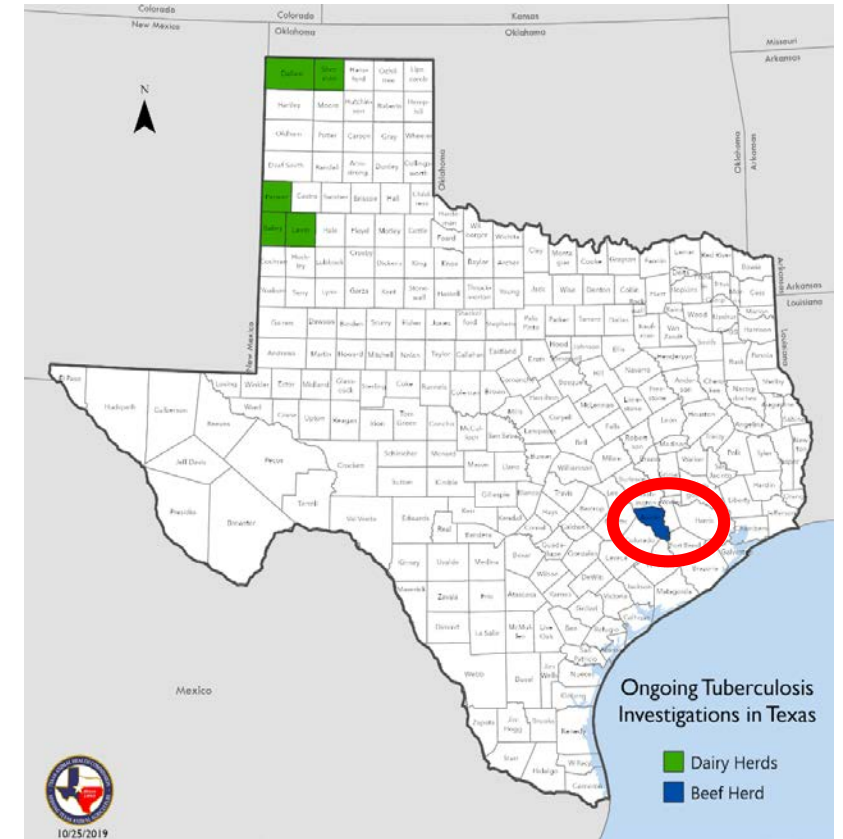




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# Status of infected beef herd in Austin County

- In June 2019, a positive beef herd was disclosed from a slaughter trace back.
- After the whole herd assessment test, an additional positive cow was identified.
- Whole genome sequencing describes a unique strain to the US with Mexican origin.
- Beef herd plans to sign a test and remove herd plan







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# Bovine Tuberculosis (TB)

- **Lessons Learned**

- Unable to apply a sensitive enough test early on to stop the extended testing schedules
- Dairies can live with extended testing schedule but the removal of all CFTs becomes burdensome over successive years
- Organic values are an issue with indemnity
- Organic milk values play a part in indemnity decisions
- Larger dairy sizes and complexity (i.e. larger ones and more grower operations)
- Good recordkeeping is very helpful
- **Unable to truly assess the human contribution to TB transmission**



# Questions?

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Thank you

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