



2019 New Mexico TB Update

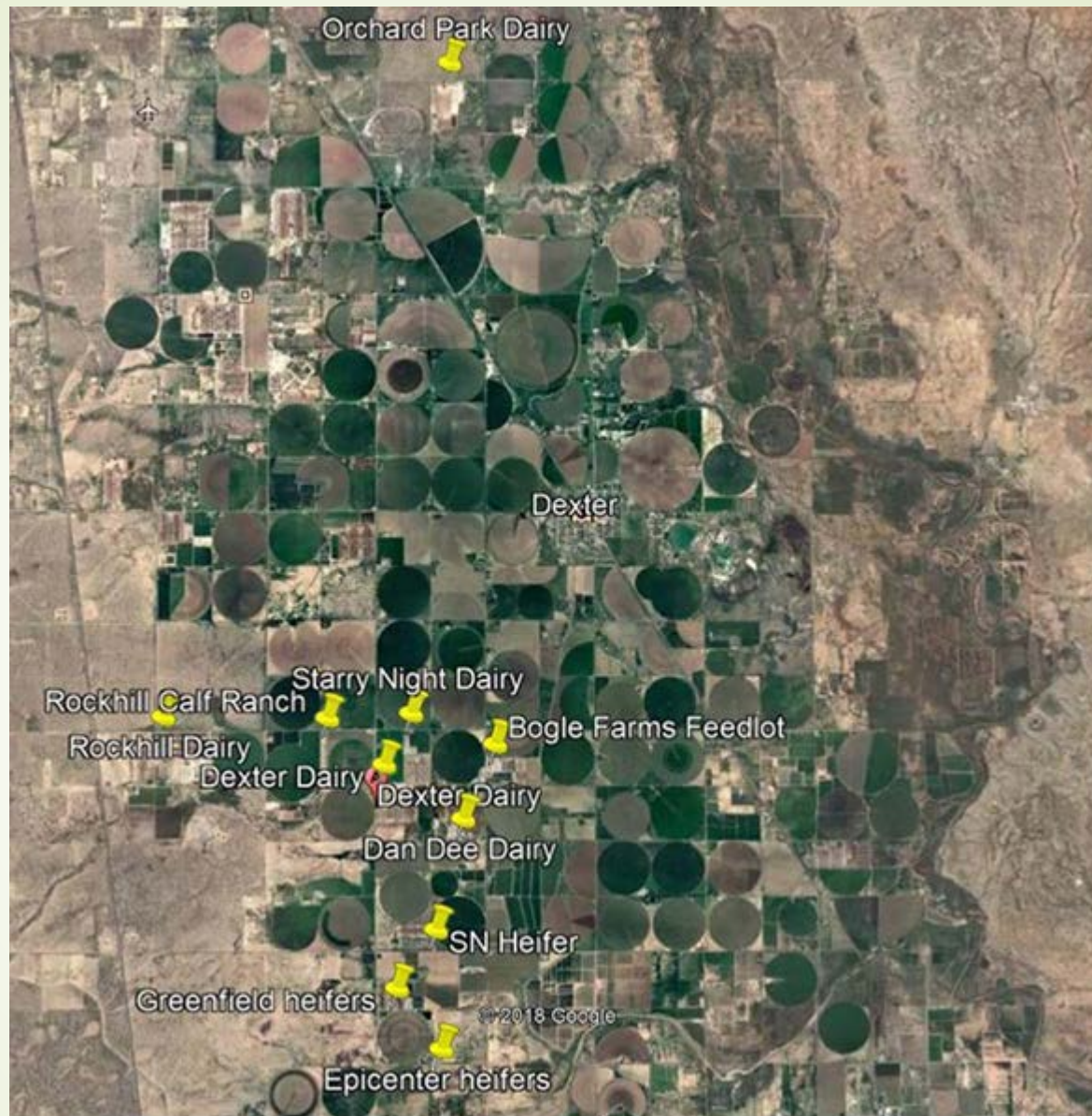
USAHA Subcommittee on Tuberculosis

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Dexter Dairy Complex 2019



TB Timeline

- ▶ Positive slaughter surveillance 1/4/2019 on 2 yr. old heifer recently freshened
- ▶ Suspect lymph node from head diagnosed at NVSL as mycobacteriosis compatible
- ▶ Direct PCR yielded *M. tuberculosis* complex positive
- ▶ All DNA markers matched the heifer
- ▶ Feb. 2 genotype reported novel Mexican origin isolate
- ▶ Conversations ensued with producer who manages 4 family owned dairies and 4 associated heifer facilities. Source dairy for positive trace was known, but heifers from all 4 dairies commingle, requiring testing of entire complex



TB Timeline

- ▶ Caudal fold tested 21,773 hd from April 2 – April 23
- ▶ 36 CFT responders total
- ▶ CCT responders: 10 from 2 dairies
 - ▶ CCT reactors: 8 from 2 dairies
 - ▶ CCT suspects: 2 from 1 dairy
- ▶ No CCT responders from heifer facilities
- ▶ Necropsies performed on site on 26 indemnified animals (May 7-9)
- ▶ 8 registered stock necropsied on farm after indemnity appeal denied
 - ▶ Total of 7 positive from April test + 1 slaughter trace=8 positive prior to July test
 - ▶ One of 8, *M. bovis* positive
- ▶ Gross lesions noted on 6 animals from both dairies
 - ▶ 6 histocompatible diagnoses from NVSL
 - ▶ 4/6 were PCR positive
 - ▶ Cultures pending on all sampled animals



TB Timeline

- ▶ Second whole herd test 7/16-7/30
- ▶ 21,730 animals CFT injected
 - ▶ 2 heifers CFT suspect: no lesions on necropsy
 - ▶ 2 CCT suspect, 1 CCT reactor: necropsied on farm, all 3 histo-compatible, cultures pending
 - ▶ 51 CFT responders, all but 3 negative
 - ▶ Due to difficulty scheduling slaughter with enhanced surveillance, the remainder went to slaughter on 10/21
- ▶ 7 high dollar purebred cattle dried and isolated pending herd plan
 - ▶ asking to treat for TB and continue in isolation for embryo harvesting



TB Timeline

- ▶ The 3rd whole herd test is taking place now, but numbers are not yet available
- ▶ Computer model insists on treating all four dairies and all four heifer facilities as one conglomerate
 - ▶ At this point it appears that we have 2 positive and 2 negative dairy herds
 - ▶ No young stock found positive yet
 - ▶ The producer is in the process of separating out one heifer facility per dairy
 - ▶ The model predicts 7 test and removal tests to attain 95% assurance



Update on 2017 TB quarantines

- ▶ March 2019 completed 4th negative 90-day removal test on the initial herd
- ▶ September 2019 results-both are now off quarantine
 - ▶ Quarantine released based on field results and transfer to annual assurance testing for 5 years
 - ▶ Sister herd had been released from quarantine in September 2018 after successful segregated depopulation of known infected age group (heifers), had a clean 1st assurance test



Take home messages

- ▶ Beware of the banks
- ▶ Think outside the box- Not all dairies are alike. We are here to protect our producers, local economies, and our trading partners.
- ▶ Personnel and management changes in VS appear to be favorable
- ▶ Rules are rules, but look to exploit the gray zones where it is beneficial

Questions?

