Bovine Trichomoniasis

National Institute of Animal Agriculture

Indianapolis, Indiana
March 25, 2015

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Texas Animal Health Commission
Executive Director/State Veterinarian

www.tahc.state.tx.us
Coming soon!!!

NVAP Module 27: Bovine Trichomoniasis

USDA-APHIS National Veterinary Accreditation Program (NVAP)
Online Search: “USDA NVAP”

There are 23 modules available online for Accreditation Renewal Training.

Module 1: Introduction to NVAP
Module 2: Role of Agencies, Health Certificates
Module 3: Overview of Foreign Animal, Program, and Reportable Diseases
Module 4: Preventing Disease Introduction and Spread
Module 5: Vesicular Diseases
Module 6: Exotic Avian Diseases
Module 7: Foreign Animal Disease Detection in Category 1 Animals
Module 8: International Movement of Horses
Module 9: Interstate and International Health Certificates for Category 1 Animals
Module 10: Personal Protective Equipment for Veterinarians
Module 11: Sheep and Goats: Disease Awareness and Health Certificates
Module 12: Animal Disease Traceability
Module 13: Aquatic Animal Health Regulations and Health Certification
Module 14: Evaluation of Aquatic Animals for Detection of Reportable Diseases and Pathogens
Module 15: Preventing Disease Introduction and Spread in Aquaculture
Module 17: National Poultry Improvement Plan (NPIP)
Module 18: Avian Influenza and Exotic Newcastle Disease
Module 19: Animal Health Emergency Response
Module 20: Slaughter Horse Transport
Module 21: Animals’ Fitness to Travel
Module 22: Animal Welfare: An Introduction
Module 23: Use of Antibiotics in Animals
Module 24: Collecting and Shipping Swine Diagnostic Samples

Adding 4 more in 2015 including Bovine Trich!
Upon completion of this module, an accredited veterinarian will be able to:

- List the impacts of trichomoniasis on the cattle industry
- Describe the clinical signs, transmission, and control methods associated with trichomoniasis
- Develop a herd management plan to prevent trichomoniasis entry and spread
- Describe the steps of proper sample collection
- Explain the importance of proper sample handling, packaging, and shipping requirements
Western States Livestock Association (WSLHA)

WSLHA members:

Alaska          Navajo Nation  South Dakota
Arizona         Nebraska       Texas
California      Nevada         Utah
Hawaii          New Mexico     Washington
Idaho           North Dakota   Wyoming
Kansas          Oklahoma       Oregon
Western States Livestock Association (WSLHA) Resolution

WSLHA Trich Issues:

- Negative economic impact
- Confusion moving to other states
- Lost opportunities to move
- Inconsistency in Programmatic policies
Western States Livestock Association (WSLHA) Resolution

WSLHA Resolution October 19, 2014:

• Seeks uniformity in state Trich rules
• Urges state animal health officials to revise trich reg’s to include:
  • Virgin bulls up to 18 mo exempt
  • Neg Trich test valid for 60 days
  • Accept single PCR collected by Accred vet
Study Results

- 28 states with Trich rules - 6 are consistent/22 are not
- 5 Have changes pending
- 6 are not planning changes
- 11 more will soon
- Planned changes
  - 9 virgin age
  - 6 test validity
  - 2 Accept PCR
Texas Trichomoniasis Program

- Started Jan 1 2010
- Industry Driven
- Took best practices from other states
- Control concept (not eradication)
- Vets must be trained
- Official labs will run regulatory tests

www.tahc.state.tx.us
Interstate Entry
March 2015

- 60 day test 😊
- 1 PCR ok 😊
- No virgins < 12 mo
  = No test >12 mo = test
- Accept Pooled
- Exhibition animals exempt for 60 days
All Breeding Bulls from Canada or Mexico

Bulls entering shall:
Move under entry permit
Remain under hold order at designated premises, away from female cattle, until tested negative
Be officially identified when testing sample is collected
Infected Herd
March 2015

- Reportable Disease
- Bulls only quarantined
- 2 Negative tests to release
- Pooled sample ok
- Neighbors notified
Texas Test Statistics – 2014

- 29,093 bulls tested
- 714 positive
- 2.5% Prevalence
- 129 Herds quarantined
- Herd Prevalence?
Texas Trich Program Evolution

Major Issues Addressed:

- Creation of Test Chart (30 then 60 days)
- Creation of Virgin Certificate (30 then 60 days)
- Virgin Certificate w/longer timeline due to Brahman breeds – 24 mo or 30 mo w/vet co-sign
- Creation of Trich Epidemiological Investigation form
- Creation of untested bull permit form
# Texas Animal Health Commission

## Trichomoniasis Test Record

**TVMDL Account:**

<table>
<thead>
<tr>
<th>State</th>
<th>TAHC Area</th>
<th>Herd Owner</th>
<th>Last</th>
<th>First</th>
<th>Initial</th>
<th>Vet Printed Name</th>
<th>Vet Code</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>County Code</th>
<th>Route-Street-Road</th>
<th>Vet Signature</th>
<th>Specimen Collection Date</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Herd Number</th>
<th>Post Office - State - ZIP</th>
<th>Route-Street-Road</th>
<th>Vet Phone</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Ranch Name NAIS</th>
<th>Post Office - State - ZIP</th>
<th>Vet Fax</th>
</tr>
</thead>
</table>

### Reason for Test
- q Initial
- q ReTest
- q Diagnostic
- q Herd Cert/Valid.
- q Private Sale
- q Post Move Quar. & Test
- q Other (specify)

### Test Requested
- q PCR
- q Culture

### Clinic Incubation (PCR Only)
- q None
- q 24
- q 48

### Pouch Expiration Date:

<table>
<thead>
<tr>
<th>NO.</th>
<th>RE-Tag?</th>
<th>OFFICIAL IDENTIFICATION NUMBERS</th>
<th>AGE</th>
<th>BREED</th>
<th>SEX</th>
<th>RESULTS</th>
<th>PCR</th>
<th>CULTURE</th>
<th>REMARKS &amp; ADDITIONAL INFO</th>
</tr>
</thead>
</table>

### Laboratory Use Only

- Laboratory Performing Test:
- Date Set Up:

### Results Summary

<table>
<thead>
<tr>
<th>Date Reported:</th>
<th>PCR</th>
<th>Culture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reported By:</td>
<td>Negative</td>
<td></td>
</tr>
<tr>
<td>Signature:</td>
<td>Positive</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TAHC Form 09-03 (Revised 07/13/2009)**

Copies must be distributed to: Owner, Veterinarian, Area Office
Texas Animal Health Commission

Trichomoniasis Virgin Status Certificate

The animals individually identified with an official identification described below are virgin male bovine under 24 months of age or are between 24 and 30 months of age and breeder’s veterinarian certifies that the breeder has sufficient management practices and facilities to ensure animals are virgins (veterinarian signature required). Only bulls located in Texas can be certified as virgin between 24 and 30 months of age. This extension of age does not apply to out of state bulls entering Texas.

<table>
<thead>
<tr>
<th>OFFICIAL IDENTIFICATION NUMBERS</th>
<th>AGE</th>
<th>BREED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>2</td>
<td></td>
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<td>3</td>
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<tr>
<td>4</td>
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<tr>
<td>5</td>
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</tr>
</tbody>
</table>

Original Breeder or Representative

Printed Name

Signature *(required on all)*

Date

Accredited Veterinarian

Printed Name

Signature *(required on bulls 24-30 months of age)*

Date
Texas Animal Health Commission
Trichomoniasis Permit and Hold Order

PERMIT NUMBER: ___________________  DATE: ___________________

PERMISSION IS GRANTED TO:  FOR MOVEMENT OF:

<table>
<thead>
<tr>
<th>Name</th>
<th>Number of Head of Cattle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Address</th>
<th>Moving From Livestock Market / Premises of Sale</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>City/State/ZIP</th>
<th>State of Origin (if applicable)</th>
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</thead>
<tbody>
<tr>
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</table>

<table>
<thead>
<tr>
<th>Phone</th>
<th>Moving To Premises Location / Premises County</th>
</tr>
</thead>
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</tbody>
</table>

Pursuant to provisions of the Texas Agriculture Code and applicable regulations, bull(s) in this shipment are granted permission to move to the premises described above for trichomoniasis testing to change status from a slaughter bull to a breeding bull. Such bull(s) shall be held in isolation from female cattle, under hold order, and shall be individually identified with a permanent, official form of identification prior to movement.

The bull(s) shall undergo 3 consecutive culture tests not less than 7 days apart or the bull(s) shall undergo one Real Time Polymerase Chain Reaction (RT-PCR) test for trichomoniasis within 30 days of sale, at owner’s expense. If the results of any test are positive the bull shall be classified as infected and be permitted for movement only directly to slaughter or to a market for sale directly to slaughter.

The breeding bull(s) listed below are restricted.

<table>
<thead>
<tr>
<th>OFFICIAL INDIVIDUAL IDENTIFICATION NUMBERS</th>
<th>BRED</th>
<th>AGE</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

TAHC Destination Office must receive notification of test results to release this Hold Order.

<table>
<thead>
<tr>
<th>TAHC Office</th>
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<table>
<thead>
<tr>
<th>Address</th>
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<tbody>
<tr>
<td></td>
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<table>
<thead>
<tr>
<th>Phone:</th>
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</tbody>
</table>

Executive Director, TAHC

Received:  

Issued by:  

Owner/Agent Signature  Date  TAHC Representative Signature  Issue Date

TAHC Form 09-04 (Revised 01/01/2010)

White: Owner  Yellow: TAHC Representative  Pink: TAHC Destination Office  Gold: TAHC Origin Office
Texas Trich Program Evolution

Major Issues Addressed (cont):

• Bulls to feedlots – infected or not
• Create Trich certified Feedlots
• Out of state bulls can go to feedlots
• “Cutter” bulls to be castrated at feedlots
• Infected bulls through sale barns
• Out of state infected bulls through sale barns
• Untested bulls allowed to be tested later
• Untested bulls to be resold 1 time w/in 7 days
Texas Trich Program Evolution

Major Issues Addressed (cont.):

- Accept pooled samples – 1st - 1 of 2 quarantined or for change of ownership – then both ok
- Exempted Bison (not mini’s or exotics)
- Incapable of breeding definition (teasers)
- Certified Free Herd Concept
- Discrepant PCR Process – best 2 out of 3
- Control herd plan for large ranches – 3 years to clean up herd – test 1x @ yr – then re-evaluated
Texas Trich Program Evolution

Major Issues Addressed (cont.):

• Lengthen shipping time to 120 days (w/incubation)
• Allow pooled samples for change of ownership or both releasing tests
• Allow untested bulls to come out of feedlots and be tested
• Culture positive cows will result in herd quarantine
• Bull test station issues
• Positive stray bulls require original owner to test also
Texas Trich Program Success

- Industry support
- Adequate animal health infrastructure present at:
  1. Markets
  2. Feedlots
  3. Special sales
  4. Roadstops
What is next Trich issue?
Texas Trich Program Evolution

2015 Stakeholder Meeting

- Discussion topics
  - Harmonization Effort – Accept >18 mo virgin bulls
  - Test fence line adjacents?
  - No age limit for virgin status?
  - Trich tubes vs. N-pouches?
  - Bison?
  - Female cattle in Quarantine herds??
Produced by the Texas Animal Health Commission

“Because livestock & poultry health matters”

www.tahc.state.tx.us
800-550-8242

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