MONTANA’S DESIGNATED SURVEILLANCE AREA 2018

ERIC LISKA
BRUCELLOSIS PROGRAM VETERINARIAN
MONTANA DEPARTMENT OF LIVESTOCK
FISCAL YEAR 2018

• 337 producers utilized the DSA

• 91,409 cattle and domestic bison that utilize the DSA at some point during the year.
PILLARS OF THE MONTANA BRUCELLOSIS PROGRAM

1. Regulations
2. Wildlife surveillance
3. Livestock surveillance
4. DSA Producers and compliance
1. Movement testing
   • Bulls and females 12 months of age and older

2. Change of ownership testing
   • Bulls and females 12 months of age and older or any age if sold for breeding purposes

3. Official brucellosis vaccination required (RB-51) in 10 counties
   • All females by 12 months of age and older
   • Official Calfhood Vaccination (OCV) or Adult Vaccination (AV)

4. Traceability-official I.D. required
   • All bulls and
   • females (includes feeder heifers <12 months of age)
2018 VACCINATION REQUIREMENT RULE CHANGE
WILDLIFE SURVEILLANCE

• Live elk capture
  • Test
  • GPS collars
• Opportunistic testing of elk throughout the State
2014
LIVE ELK CAPTURE SUMMARY 2011-2017
2017
PLANNING 2019

Brucellosis Designated Surveillance Area (DSA)

Map created by Montana Fish, Wildlife & Parks
RDS Aligned from description provided by the Montana Department of Livestock
http://www.gwdg.mt.gov/animals/bovine/bovine-brucellosis
SURF-HD-05-2013
https://www.daml.ai/gemini/Desk2Desk/DSG/2019

MONTANA

0 10 20 Miles
**DSA Boundary Adjustment Decision Matrix**

1. **E. abortus detected outside the Designated Surveillance Area (DSA)**
   - **ELK**
   - **LIVESTOCK**

2. Are the elk on the landscape during the risk period (January-June)?
   - **No**
   - **Yes**

3. **No recommendation for a boundary adjustment**
   - **Monitor elk seasonal movement**

4. **Are livestock on the same landscape as the elk during the risk period?**
   - **No**
   - **Yes**

5. **No recommendation for a boundary adjustment**
   - **Yes**

6. **Recommend a DSA boundary adjustment and work with FWP to begin wildlife surveillance.**

7. Are the livestock that share the landscape already under DSA regulation (utilize some ground in the DSA)?
   - **No**
   - **Yes**

8. **No recommendation for a boundary adjustment**
   - **Monitor elk movement and create new management agreements with the livestock herds to reflect this new information.**

9. Are there 3 herds or fewer that can be managed appropriately with Management Agreements?
   - **Yes**
   - **No**

10. **No recommendation for a boundary adjustment**
    - **Continue to monitor elk movement and/or seroprevalence to quickly determine when/If non-DSA livestock could be at risk.**

11. **Recommend a DSA boundary adjustment to include at risk program animals.**
LIVESTOCK SURVEILLANCE
NUMBER OF DSA RELATED BRUCELLOSIS TESTS CONDUCTED FY14-FY18
TOTAL HEADCOUNT AND COST FOR REIMBURSMENT FY11-18

![Graph showing the trend of total reimbursed amount and headcount over fiscal years (FY) 11 to 18.](image-url)
COSTS OF REIMBURSEMENT BY PAYMENT TYPE FY14-FY18

<table>
<thead>
<tr>
<th></th>
<th>FY14</th>
<th>FY15</th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount</td>
<td>69%, $280,908</td>
<td>71%, $433,057</td>
<td>70%, $389,337</td>
<td>73%, $480,425</td>
<td>73%, $531,634</td>
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<tr>
<td>Reimbursed</td>
<td>20%, $81,220</td>
<td>14%, $88,183</td>
<td>17%, $92,578</td>
<td>13%, $89,114</td>
<td>13%, $98,711</td>
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<tr>
<td>Vet (Market)</td>
<td>11%, $46,140</td>
<td>15%, $92,144</td>
<td>13%, $70,672</td>
<td>14%, $92,462</td>
<td>14%, $102,566</td>
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<tr>
<td>Vet (Ranch)</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
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</tbody>
</table>
ANNUAL IN-HOUSE COMPLIANCE EVALUATION

• Compare brand inspection information to test data to confirm that required testing has been done.

• FY 2017 compliance evaluation
  • 94%

• FY 2018 compliance evaluation
  • Not yet complete but looks very similar
## FINDING THE NEEDLE IN THE HAYSTACK: 2010 - PRESENT

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</thead>
<tbody>
<tr>
<td><strong>Affected Herd Size (approx.)</strong></td>
<td>3,250</td>
<td>275</td>
<td>1,550</td>
<td>1,100</td>
<td>700</td>
<td>2340</td>
<td>650</td>
<td>1,100</td>
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<tr>
<td><strong>No of Reactors on Index Test</strong></td>
<td>4</td>
<td>7</td>
<td>1 (bull)</td>
<td>3</td>
<td>1 (bull)</td>
<td>1</td>
<td>1</td>
<td>2 (bulls)</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Bison</td>
<td>Cattle</td>
<td>Bison</td>
<td>Cattle</td>
<td>Cattle</td>
<td>Cattle</td>
<td>Cattle</td>
<td>Bison</td>
</tr>
<tr>
<td><strong>Herd Prevalence %</strong></td>
<td>.12</td>
<td>2.5</td>
<td>.065</td>
<td>.27</td>
<td>.14</td>
<td>.043</td>
<td>.15</td>
<td>1.1</td>
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<tr>
<td><strong>Affected Herd Quarantine</strong></td>
<td>Ongoing</td>
<td>7 months</td>
<td>36 months</td>
<td>8 months</td>
<td>7 months</td>
<td>7 months</td>
<td>6 months</td>
<td>9 months</td>
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<tr>
<td><strong>Disposition</strong></td>
<td>Test out</td>
<td>Test out</td>
<td>Test out</td>
<td>Test out</td>
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<td>Test out</td>
<td>Test out</td>
<td>Test out</td>
</tr>
<tr>
<td><strong>Adjacent Herd animals (approx.)</strong></td>
<td>7,000</td>
<td>3,000</td>
<td>10,000</td>
<td>3,000</td>
<td>800</td>
<td>22,000</td>
<td>1,500</td>
<td>4,000</td>
</tr>
<tr>
<td><strong>Adjacent Herd tests complete</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td><strong>County</strong></td>
<td>Gallatin</td>
<td>Park</td>
<td>Madison</td>
<td>Madison</td>
<td>Park</td>
<td>Madison</td>
<td>Park/ (Carbon)</td>
<td>Beaverhead</td>
</tr>
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QUESTIONS?
THANK YOU!

- Dr. Martin A. Zaluski, State Veterinarian
- Dr. Tahnee J. Szymanski, Assistant State Veterinarian
- Dr. Emily Kaleczyc, brucellosis compliance specialist 2016-18
- Brooke Ruffier, brucellosis compliance specialist
- USDA-APHIS-VS
- Montana Fish Wildlife and Parks
- Montana DSA producers
- Montana’s private practitioners