

# Wyoming Report to USAHA Brucellosis Committee 2016

Dr. Jim Logan

Wyoming State Veterinarian



# Current Wyoming Brucellosis Situation Facts

- **All of Wyoming's Brucellosis cases since 1985 have been within the DSA**
  - All cases have resulted from wildlife exposure
- **Domestic Bison Herd**
  - Released from quarantine in October 2015
- **2 affected herds found October 2015**
  - 1 in Park County (60 miles east of YNP)
  - 1 in Sublette County (60 miles south of YNP)
- **Genomic testing verified elk as the source of both infections**
- **Quarantine release plans require 3 consecutive, negative, whole-herd tests with the last test being post calving**

# Park County Herd

- **1 reactor**
- **1 fence-line contact herd**
  - Whole-herd test found no suspects or reactors
  - Quarantine released
- **Affected herd released from quarantine July 2016 after completing 3 whole-herd negative tests**

# Sublette County Herd

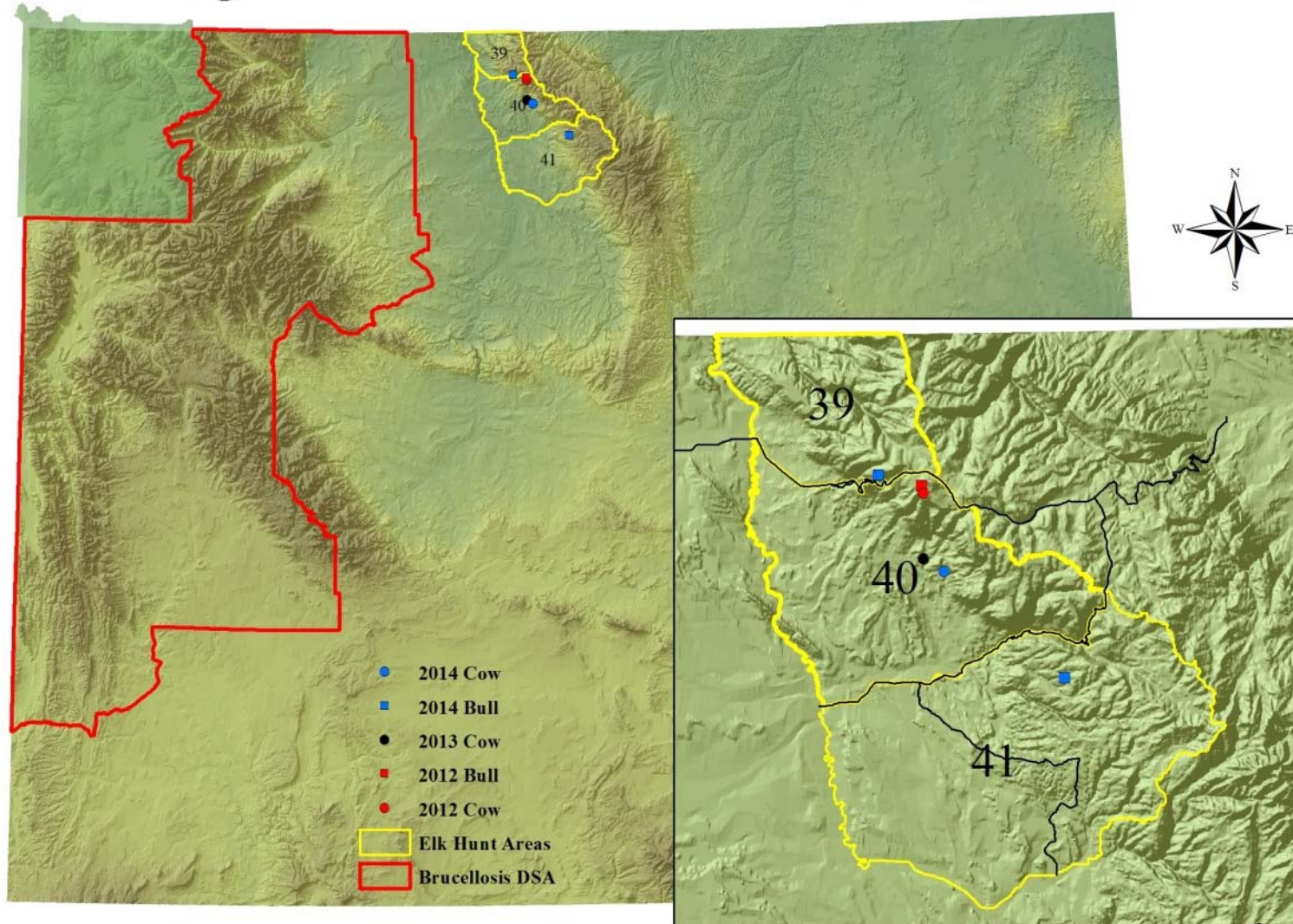
- **11 initial reactors**
- **7 contact herds**
  - **All herd tests were negative**
    - Quarantines released
  - **Contact herds will all be tested again this fall**
- **1 negative, whole-herd test in January 2016**
- **2 additional reactors found in 2<sup>nd</sup> test in March 2016**
- **Another 2 found in May**
- **Requirement for 3 consecutive, negative tests starts anew**
  - **Next test scheduled for late October**
- **Worked with producer, contact herd owners, APHIS, & USFS to facilitate grazing management this summer**

# Brucellosis in the Big Horn Mountains

- **9 Total Seropositive Elk Found Outside DSA 2012-15**
  - **1<sup>st</sup> time Brucellosis has been found outside of DSA boundaries since Wyoming achieved Brucellosis-free status in 1985**
  - **2 positive samples from hunter-killed elk during 2012 hunting season, 2 during 2013 hunting season**
    - **Hunt Area 40 = 30 miles east of DSA boundary**
  - **3 seropositive elk found in 2014 hunting season**
  - **2 additional seropositive elk found in 2015 radio-collar study**
  - **Entire North Bighorn Elk Herd Unit surveilled in 2013, 2014, 2015 and will be continued in future**

# North Bighorn (E321) Elk Herd Unit

## Brucellosis Positive Elk in the Bighorn Mountains 2012 - November 7, 2014



# Wyoming Livestock Board Response

- **Wyoming Livestock Board (WLSB)**
  - **Conducting risk assessments and testing on cattle herds in Big Horn and Sheridan counties**
  - **Voluntary testing being done on ranches and at all Wyoming markets as well as out-of-state markets in the area**
  - **Testing funded by WLSB and APHIS**
- **WLSB will consider cattle and elk surveillance data in determining any rule or DSA boundary change**
- **Approx. 11,000 head of cattle tested**
  - **No reactors or suspects**

# Wyoming Game & Fish Response

- **Wyoming Game and Fish Department (WGFD)**
  - Increasing elk surveillance testing in area
  - Providing extra field help to collect blood and tissue samples
  - Conducting radio-collared elk movement studies
  - Conducting vaginal implant transmitter studies to determine elk calving location



# Requirements

- **Wyoming requires Brucellosis vaccination statewide**
  - DSA requirements are enhanced
- **All sexually intact female cattle (regardless of age) leaving the DSA must be identified with Official/Approved ID**
  - **Brucellosis vaccination tags**
    - Orange metal or RFID
  - **Silver BRITE tags**
  - **Green WY tags**
  - **RFID tags**
  - **Age/Source Verified tags as approved by the WLSB**

# Requirements

- **If leaving the DSA or changing ownership, all test eligible cattle must be tested**
  - **A negative test performed between Aug. 1 and Jan. 31 is valid for that entire period.**
  - **Between Feb. 1 – July 30, a test is required within 30 days of movement or change of ownership**
- **State of Wyoming pays for all surveillance testing, and for Adult/Yearling booster vaccinations for producers with herd plans if risk is significant enough to warrant**
- **Brucellosis rules have been revised to reflect changes in federal and state requirements**
  - **Test eligible = sexually intact females 12 months of age and over**

# Prevention Efforts: Vaccination

- **From July 1, 2015 to June 30, 2016**
  - **187,512 head of cattle or domestic bison were vaccinated for Brucellosis statewide**
    - **This includes calfhood, Adult, and Yearling Booster vaccinations**

# Surveillance Efforts: Testing

- **From July 1, 2015 to June 30, 2016**
  - **43,875 Cattle and Bison were tested for Brucellosis statewide**
  - **2,094 cattle were sampled at Wyoming slaughter plants**
  - **Approx. 6,500 additional cattle were tested July – September 2016**

# Producer Education

- **430 Producers in the DSA**
  - **Approximately 85,000 head of breeding cattle**
  - **149 with voluntary Herd Plans**
    - **28 Herd Plans outside the DSA**
    - **Herd plans are NOT mandatory except for affected herds**
    - **Herd plans are developed primarily in highest risk locations and are based on risk assessment**
- **Producer education efforts**
- **Wyoming Brucellosis Coordination Team**

# Our Present and Future

- **We expect to find sporadic cases of Brucellosis among our cattle herds as long as there is a wildlife reservoir of the disease in our state.**
- **Our test and identification requirements provide good surveillance, traceability, and early detection.**

# Credits/Thank You

- **April Peregoy – WLSB Brucellosis Field Office**
- **Lindsay Johnson – WLSB Cheyenne Office**
- **Hank Edwards – WGFD Laboratory**
- **Dr. Mary Wood – WGFD Wildlife Veterinarian**