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BLUETONGUE VIRUS SURVEILLANCE UPDATE

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Proposed Plan

Multi-faceted BTV surveillance strategy, combining:

- Serologic surveillance of cattle slaughter brucellosis samples
- Sentinel and vector surveillance, and
- Aggregation of testing data from bovine semen collection centers





Objectives

- Define areas free or with low prevalence of BTV, per OIE guidance, to support trade
- Explore BTV prevalence/distribution and assess current ecology given concerns about potential impact of climate change
- Begin to establish a BTV serotype distribution map to monitor future changes, and
- Help develop national BTV surveillance strategy



Serological Surveillance



- Update State risk status
- Provide baseline information
- 600 samples from brucellosis program per low incidence/ free state/region
 - ME, MA, CT, RI, VT, and NH (New England region)
 - DE/MD (one region)
 - NY, NJ/PA (one region)
 - WV, OH, MI, IN, WI, MN, and ND
- Update State designation
 - A State/ region will be considered low incidence/ free if seroprevalence <2.0%
 - Epidemiological traceback investigations of positives



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Sentinel Surveillance

- Update State risk status
- Real-time information
- ~260 calves sampled per State
 - Sample subset of low-incidence/ free states
 - Proposed: OH, PA, NY, WI, MN, MI
 - Incentives provided
- Update State designation
 - State considered low incidence if seroprevalence <2.0%
 - PCR testing on positive samples



Vector Surveillance

- Update disease transmission risk
- Subset of sentinel surveillance sites during vector season
- Samples analyzed for known and potential vectors





AI Center Data Aggregation

- Baseline information
- Working with Certified Semen Services
- Collect testing data from AI centers in low-incidence/ free States



Expected Outcomes

- Update BTV seroprevalence, risk information
- Support trade
- Develop national BTV surveillance strategy
- Develop a BTV serotype and vector distribution map in areas surveyed





Current Status

- Serology testing underway
- Outreach to internal and external stakeholders
- Assessing funding





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Questions?





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