

USDA, Joint ARS-NIFA Animal Health Stakeholder Workshop

Baltimore, MD

March 23-24, 2010

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The Stakeholders in Specialty Farmed Species (Primarily Wild Ruminants)

- Bison
- Elk
- Deer
- Exotic Ungulates

Bison



ELK (Wapiti)



Wapiti - The North American Elk

North American Deer Farmers Association



White-tailed Deer and Mule Deer



Many Other State Based Organizations



Exotic (Non Native) Wildlife



Animal Health Issues for Specialty Farmed Species (Not by Priority)

1. Vaccines – not designed, optimized, or validated or licensed for many species. No data on safety or efficacy.
2. Diagnostics – generally for traditional domestic livestock not for other species. No data on sensitivity or specificity in these species. Particularly for diseases of biological, political, or regulatory importance.
3. Chemotherapeutic agents – antibiotics, anthelmintics, anesthetics, food additives or supplements, hormones etc. Almost all are not licensed and are used off label in these species. No data on optimum dosages, withdrawal/clearance times, tissue residues, or safety in these species.

Animal Health Issues - Continued

4. Reproductive manipulations – agents such as those used in artificial insemination, (CIDR's), hormones, etc. are not licensed for many species. Also semen and embryo collection, transfer, storage, and shipping. In vitro fertilization, and in some cases cloning.
5. Delivery Systems – suitable for captive and free-ranging wildlife that do not require physical capture/restraint such as oral, ballistic, mechanical, aerosol, etc.
6. Applied Genetic Study – to identify the genes that control natural disease resistance/ susceptibility.

Some of the Specific Disease Issues

- Bison – Malignant Catarrhal Fever (MCF); Bovine TB (testing); Bovine Brucellosis (testing, and vaccines); Bovine Viral Diarrhea (BVD)
- Elk – Chronic Wasting Disease (CWD) (testing); Bluetongue Virus (BTV) (vaccines and diagnostics); Bovine TB (testing)
- Deer – Epizootic Hemorrhagic Disease (EHD) and BTV (vaccines; diagnostics); parasite control; licensing of antibiotics etc.; CWD (testing); Bovine TB (testing)
- Exotic Ungulates – licensing of drugs, antibiotics; vaccines; diagnostics; testing for regulatory diseases; movement restrictions

Questions, Comments, Clarifications?

