42 - Bighorn sheep

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Clashing Rocky Mountain bighorn rams in Wyoming (Bureau of Land Management)
#Subspectacular
The problem with bighorn sheep

• Historic population estimates of 1.5-2 million at the turn of the 19th century
• Current estimates at approximately 70,000
• Three subspecies
  – Rocky Mountain Bighorn Sheep (*Ovis candadensis candadensis*)
  – Sierra Nevada Bighorn Sheep (*Ovis candadensis sierrae*)
  – Desert Bighorn Sheep (*Ovis candadensis nelsoni*)
Potential causes of decline

• Predation
• Hunting
• Loss of habitat
• Disease
Bronchopneumonia

• Episodic outbreaks of respiratory disease in adults
• Decreased lamb recruitment for 1-10 years
• Lamb deaths at 4-8 weeks of age
Causes of bronchopneumonia

- Lungworms
- *Mannheimia haemolytica*
- *Bibersteinia trehalosi*
- *Mycoplasma ovipneumoniae*
Morphologic diagnosis

- Bronchopneumonia, suppurative and histiocytic, with peribronchiolar lymphoid cuffing and epithelial hyperplasia
Significance of agent

• Mannheimia/Bibersteinia

• Mycoplasma
Public Lands Managed by the Bureau of Land Management (BLM)

In the Eastern United States, the BLM manages 39.7 million acres of subsurface mineral estate and 30,000 acres of surface, mostly small isolated parcels scattered throughout 31 States.

Eastern States are administered by the Eastern States Office in Springfield, VA.

Today, the BLM administers 264 million acres of public lands located primarily in the 12 Western States, including Alaska.

The agency manages an additional 300 million acres of subsurface mineral estate located throughout the country.

The Montana State Office has jurisdiction over BLM-managed land in North and South Dakota. The New Mexico State Office has jurisdiction over BLM-managed land in Oklahoma, Kansas, and Texas. The Oregon State Office has jurisdiction over BLM-managed land in the State of Washington. The Wyoming State Office has jurisdiction over BLM-managed land in Nebraska.
Significance of agent

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References
