Estimating Economic Impacts of Livestock Diseases

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Seitzinger Economic Model Development with Paarlberg at Purdue University

- **Annual Model** (Developed prior to 2002 by Paarlberg for other work, Updated and Applied 2002–2005)

- **Quarterly Model** (Developed 2006–2007, In Use 2007–2010, still available for specific questions)
  - Updated Quarterly Model (Updated in 2010, In Use 2010–2015?)
  - Incorporation of Plant Pests in Quarterly Model (Updated in 2010, In Use 2010–2015?)

- **North American Livestock Model** (Developed 2010–2011, In Use 2011–2020?)
Foot and Mouth Disease


Highly Pathogenic Avian Influenza


Classical Swine Fever

Joint and Individual Work by Disease/Subject Area

- Sanitary Trade Regulations Costs to U.S. Exports of Livestock
- Johnes Disease, Bovine Spongiform Encephalopathy, Cattle Fever Ticks, Screwworm, Bovine Tuberculosis
- Performance Measures – Avoided Losses due to Livestock Disease Surveillance Programs
Plant Work


NAHMS – ARMS Economics Efforts

- NAHMS – National Animal Health Monitoring System surveys conducted by USDA:APHIS:VS
- ARMS – Agricultural Resource Management Survey conducted by USDA:Economic Research Service