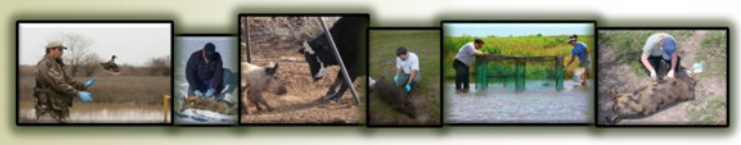

The National Wildlife Disease Program

Sarah Bevins

Wildlife Disease Biologist

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Expertise/Experience:

- *(August 2010 -- Current)*
  Wildlife Disease Biologist, National Wildlife Disease Program, United States Department of Agriculture
- *(January 2008 -- August 2010)*
  Postdoctoral Researcher, Effects of urbanization on disease in wild and domestic felids, Colorado State University
- *(August 2002 -- August 2007)*
  Researcher and Teaching Assistant, Invasive species and effects on vector-borne disease, Colorado State University
- *(May 2002 -- August 2002*)
  Field Technician, Effects of invasive grass species on fire regimes and species abundance, University of Arizona
- *(January 2002 -- April 2002)*
  Field Technician, Antillean Manatee distribution and population size in Belize, Earthwatch Institute
- *(May 2000 -- August 2000)*
  Howard Hughes Medical Institute Intern, Glaucoma genetics, The Jackson Laboratory

Current Projects:

- Spatial analysis of plague data in coyotes to identify epizootics across the western US
- Broad –scale patters in tularemia prevalence across species and regions
- Comparison of plague surveillance strategies in the US with collaborators in China
- Comparison of wildlife disease surveillance data and human disease occurrence
- QA/QC of plague and tularemia data
- Power analyses and sample size estimates for disease studies

Education:

Ph.D. Ecology, Colorado State University (August 2007)

B.A. Human Ecology, College of the Atlantic (June 2001)

Publications

Tracey JA, KR Crooks, **SN Bevins**, and S VandeWoude (Submitted) An agent-based movement model to assess the impact of landscape fragmentation on disease transmission. Ecosphere

Lagana, D, J lee, J Lewis, **S Bevins,** S Carver, L Sweanor, R McBride, C McBride, K Crooks, and S VandeWoude (Submitted) Characterization of regionally-associated Feline Immunodeficiency Virus (FIV) in bobcats (*Lynx rufus*). Journal of Virology

Carver S, AV Scorza, **SN Bevins**, SPD Riley, KR Crooks, S VandeWoude and MR Lappin (2012) Zoonotic parasites of bobcats around human landscapes. Journal of Clinical Microbiology 50(9) 3080-3083

Pederson K, **SN Bevins**, BS Schmit, MW Lutman, MP Millson, CT Turnage, TT Bigelow, TJ DeLiberto (2012) Apparent seroprevalence of brucellosis in feral swine in the United States. Human Wild-life Interactions 6(1) 38-47

Bevins SN, JA Baroch, DL Nolte, M Zhang, and H He (2012) *Yersinia pestis*: examining wildlife plague surveillance in China and the United States. Integrative Zoology 7(1) 99-109

Bevins SN, S Carver, EE Boydston, L Lyren, M Alldredge, KA Logan, SPD Riley, RN Fisher, W Vickers, W Boyce, MR Lappin, M Salman, KR Crooks, and S VandeWoude (2012) Three pathogens in sym-patric populations of pumas, bobcats, and domestic cats: implications for disease transmission. PLoS One 7:e31403

Bleiholder, A, M Muhle, T Hechler, **S Bevins**, S VandeWoude, J Denner, and M Löchelt. 2011. Pattern of seroreactivity against feline foamy virus proteins in domestic cats from Germany. Veterinary Immunology and Pathology 143:292-300.

Shock BC, SM Murphy, LL Patton, PM Shock, C Olfenbuttel, J Beringer, S Prange, DM Grove, M Peek, JW Butfiloski, DW Hughes, JM Lockhart, **SN Bevins**, S Vandewoude, KR Crooks, VF Nettles, HM Brown, DS Peterson, MJ Yabsley. 2011. Distribution and prevalence of *Cytauxzoon felis* in

bobcats (Lynx rufus), the natural reservoir, and other wild felids in thirteen states. Veterinary Parasitology 175: 325-330.

Bevins SN. 2010. Behavior, parasites, conservation, and invasive species. In M Breed and J Moore (Eds). Encyclopedia of Animal Behavior. Oxford, Academic Press. Vol. 1, 392-395.

Bevins SN, JA Tracey, SP Franklin, VL Schmit, ML MacMillan, KA Logan, LL Sweanor, MW Alldredge, WM Boyce, SPD Riley, LM Lyren, EE Boydston, RN Fisher, W Vickers, C Krumm, KL Gage, ME Schriefer, ME Roelke, M Salman, KR Crooks, and S VandeWoude. 2009. Wild felids as hosts for human plague, western United States. Emerging Infectious Diseases. 15(12) 2022-2024

Bevins SN. 2008. Effects of expanded mosquito range. Science. 321(5896) 1634

Bevins SN. 2007. Timing of resource input and larval competition between invasive and native mosquitoes (Diptera: Culicidae). Journal of Vector Ecology. 32(2) 252-262

Bevins SN. 2007. Establishment and abundance of the recently introduced mosquito species *Ochlerotatus japonicus* (Diptera: Culicidae) in the southern Appalachians, USA. Journal of Medi cal Entomology. 44(6) 945-952

Bevins SN. 2007. Invasive mosquitoes, larval competition, and vector-borne disease: potential effects on vector competence. Biological Invasions. 10(7) 1109-1117