

Project Summary

Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Chronic Wasting Disease (CWD) Evolution Disease Agreement 2010

Type of Project: Research

Project Discipline: Natural Resources

Funding Agency: USGS

Other Partners/Cooperators: Colorado State University

Effective Dates: 7/9/2010 - 8/31/2015

Funding Amount: \$24,534

Investigators and Agency Representative:

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Project Abstract:

The objective of this research is to develop an evolutionary ecology framework to investigate possible ultimate outcomes of Chronic Wasting Disease (CWD) infection at the population and landscape scales. Specific objectives include:

1. Review of literature to assess availability of parameters and feasibility of developing a data-driven CWD specific evolutionary ecology model. At the same time, determine reasonable structure for either a data-driven or more theoretical model that would be informative about CWD.
2. Develop appropriate model, analyze possible outcomes predicted by the model and perform sensitivity analysis.
3. Prepare results for publication in a peer-reviewed scientific journal.

Outcomes with completion dates: August 31, 2015

Keywords: Chronic Wasting Disease (CWD), outcomes, population, landscape scale, modeling, USGS - Northern Rocky Mountain Science Center (NOROCK), Colorado State University