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Using Ungulate Movements to Assess Risk of Disease Spread and Transmission Between Livestock and Wildlife

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USING UNGULATE MOVEMENTS TO ASSESS RISK OF DISEASE SPREAD AND TRANSMISSION BETWEEN LIVESTOCK AND WILDLIFE DATA MANAGEMENT PLAN

Types of data, samples, physical collections, software, curriculum materials, and other materials to be produced in the course of the project

We anticipate that this project will produce the following data:

- 1) Computer simulation files for the spatial propagation model, which will be published as supplementary files in peer reviewed manuscripts describing the model.
- 2) Data generation through simulation for the disease transmission model. Data generated through simulation, along with simulation code files, will all be made public for download at ScienceBase-Catalog (www.ScienceBase.gov) at the time of publication.
- 3) A database of movement information from bighorn sheep GPS collars in Alberta and Nevada.
- 4) Code for analysis of the GPS data. Code files will be published as supplementary materials in peer-reviewed manuscripts describing bighorn sheep movement dynamics.

The standards to be used for data and metadata format and content (where existing standards are absent or deemed inadequate, this should be documented along with any proposed solutions or remedies)

We will use the Ecological Metadata Language (EML; the standard in ecological research) as our template for metadata structuring throughout the project.

Policies for access and sharing including provisions for appropriate protection of privacy, confidentiality, security, intellectual property, or other rights or requirements

Data and metadata generated from this project, and/or not subject to restrictions will be made available as supplementary on-line materials for all data-relevant publications produced by this project as they are published, or provided upon request by the PI's or Co-PI's and made available for download through the ScienceBase-Catalog (www.ScienceBase.gov). To facilitate discoverability, access and sharing of the data of which the Authors have ownership, data and metadata will be uploaded to the ScienceBase.gov as per US Geological Survey requirements and standards. As other datasets are owned by the entities that collected the data, discovery, access and preservation fall under the individual mandates and policies of the organization, which we have no control over. With prior approval from the owners, some of these data sets may be made available as supplementary on-line materials to peer reviewed publications and/or by the authors at request.

Provisions for re-use, re-distribution, and the production of derivatives

We encourage re-use and distribution of published code by interested researchers following model publication in a peer reviewed journal.

Plans for archiving data, samples, and other research products, and for preservation of free public access to them

Simulation data generated during this project will be stored in an SQL database or similar. Partner data will also be stored in an SQL database or similar, though we may limit access to these data.