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Invasive Species Control and Perennial Plant Establishment in Antelope Pasture, Pocatello, BLM

Kari E. Veblen
Utah State University, kari.veblen@usu.edu

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Data Management Plan

a. Expected Data Types and Format
Data will include: 1) soil and vegetation mapping field data, 2) field experimental data (e.g., plant survival), and 3) digital soil and vegetation mapping data. 1) and 2) will be entered and stored in an Access database. 3) will be generated in a GIS/remote sensing environment and stored in appropriate file formats (e.g., shapefiles, geodatabases, tiff) .

Senior project personnel will train technicians and supervise data collection/generation. Field data will be entered in Microsoft Access forms that impose limits on the types and values of data that can be entered in a given cell. All data types will be checked for errors by the PI, and data will be examined for outliers indicative of errors. A log of any corrections to the data, as well as archives of previous data versions will be maintained.
Meta-data will be created for all data. We will use a metadata documentation tool (e.g., Metavist; http://nrs.fs.fed.us/pubs/2737) and use Ecological Metadata Language to create metadata that follows KNB (Knowledge Network for Biocomplexity) standards: https://knb.ecoinformatics.org/#external// emlparser/docs/index.html.

b. Data Storage and Preservation
All data will be stored locally on PI Veblen's hard drive, which syncs instantaneously to a cloud server and daily to an external hard drive. Original datasheets will be stored at USU and scanned into pdf form to be stored electronically by each PI separately. Digital soil and vegetation mapping data will be additionally stored on computers in co-PI Boettinger's soil lab.

c. Data Sharing and Public Access
After QA/QC data will be added to a permanent database accessible to only the PI's. After two years following project completion, or upon publication of project results in peer-reviewed journals (whichever comes first), field experiment will be made publicly available in a data repository such as USU's Digital Commons. Prior to public availability the data will be available to the Bureau of Land Management.

d. Roles and Responsibilities
Veblen will oversee implementation of the DMP for the entire project; in the event Veblen leaves the project, responsibility will be turned over co-PI Boettinger.