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Improving the Economic and Environmental Sustainability of Tart Cherry Production through Precision Management

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Data Management Plan – Precision Cherry

- **Expected Data Type:**

Digital data in the form of spreadsheets, field notes, and georeferenced point, line, polygon, elevation and raster files will be collected as primary data through the activities of this project. Soil plant and environmental factors that these data represent will be recorded in meta-data files to accompany these primary data files. In addition, models derived from this project will be generated in worksheets and programming languages (R, Matlab, Python)

- **Data Format:**

Non-georeferenced data will be saved as CSV and Word files. Georeferenced data will be saved in formats compatible with ArcGIS software (shp, las, and GeoTIFF). CSV and Word files are commonly used and can be read by a range of different software programs. ArcGIS is a proprietary GIS program that has broad use across the GIS community. Models developed in worksheets will be saved in MS Excel format and other in their respective programming language file extensions.

- **Data Storage and Preservation:**

Short-term data storage and sharing among project participants will be by a secure cloud-based file sharing platform (box.com). Long term storage and archiving will be through USU's institutional repository, Digital Commons (digitalcommons.usu.edu). Data will also be stored using USDA's Ag Data Commons.

- **Data Sharing, Protection, and Public Access:**

Results of data collection will be made available upon publication of manuscripts in peer-reviewed journals. Since some data will arise from research conducted on private commercial farms, these data will be scrubbed of cooperator identification and proprietary information, prior to being made publicly available.

Roles and Responsibilities:

Dr. Brent Black, PD, will supervise and ensure DMP implementation for all institutions collaborating on the proposed project. This effort has been accounted for in the budget and justification. DMP procedures listed do not require purchase of licensing agreements. USU Libraries provides support for DMP of the PD.