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Integrating arthropod and weed management in a water-stressed agro-ecosystem

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Data Management Plan

1. Expected Data Type

All data generated from this project will consist of primary data. These data will result from field sampling of weeds and spider mites, cage experiments (spider mite counts, plant phenological responses), plant defense protein assays in lab, weed competition experiments in greenhouse and field (plant weights, heights), and measurements related to water-stress (soil moisture, leaf temperature, stomatal conductance, PAR). All data will initially be recorded as a hardcopy (e.g., lab notebooks and data sheets) and then entered into digital format.

2. Data Format

Data from lab notebooks and data sheets will be entered into MS Excel Spreadsheets.

3. Data Storage and Preservation

Data will be stored on at least three systems throughout the course of the project. First, a copy of data will be on the hard-drive of the graduate student/post-docs computer and on that of the PD. Data will also be stored on a cloud service used by Utah State University faculty and students (Box) which is backed up by Utah State University servers. From Box, weekly updates of data will be uploaded and will be gathered by PDs, graduate student, and post-doc for placement on their hard-drive. The PD will also save a copy of these data on an external hard-drive. The data will remain on at least 2 computers, 1 external hard-drive, and on the cloud service through the conclusion of the project but will also be archived in the DRYAD Digital Repository (datadryad.org) which provides data access to the public.

4. Data Sharing and Public Access

Data will be shared among the PDs (Ramirez, Young, Yost, Creech) and graduate student and post-doc on this project throughout the duration of the project. Accepted journal manuscripts developed from this project will have its data deposited in the DRYAD repository which makes data in scientific publications freely available with associated citations. PD Ramirez maintains data here from other projects (e.g., Ruckert et al. 2018. Data from: Combinations of plant water-stress and neonicotinoids can lead to secondary outbreaks of Banks grass mite (*Oligonychus pratensis* Banks. Dryad Digital Repository. <https://doi.org/10.5061/dryad.14cf0>). In addition to these data being available for public access, uploading these data from this project to the repository ensures that the data will never be lost.

5. Roles and Responsibilities

The PDs (Ramirez, Young, Yost, and Creech) share responsibility of the Data Management Plan as described above. The PDs agree to share all digital data generated from their respective labs as soon as they are available. PDs Young, Yost, and Creech will ensure the Data Management Plan is implemented if PD Ramirez leaves the project. Likewise, Ramirez will ensure the Data Management Plan is implemented if any of the other PDs leave the project.