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## Engaging Educators through a Drone Curriculum Project to Deliver 21st Century FANH Skills to Grades 4-12 Students

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**Data Management Plan for NIFA-Funded Research, Education,  
and Extension Projects**

**Project: Engaging Educators through a Drone Curriculum Project to Deliver 21<sup>st</sup> Century  
FANH Skills to Grades 4-12 Students**

**Expected Data Type**

The primary non-digital data format collected includes:

- lesson plans and accompanying activities
- professional development workshop resources
- number of teacher participants
- resulting number of students impacted.

The primary, digital data format collected includes:

- educational videos (as curriculum resources).

Appropriate community-recognized standard formats will be used e.g., Microsoft Word and Adobe Acrobat, for lesson plans and professional development resources. Qualtrics will be used to collect pre- and post-evaluation by teacher participants.

**Data Storage and Preservation**

The participant response data will be managed and stored in domain-specific workspaces at Utah State University (see [Research Data Management Services @ USU](#)). Access to the data will be granted to the project team members as appropriate and identified by the Institutional Review Board. Electronic data that are preserved will be stored on password-protected, university owned computers and backed up on university servers. The project's key personnel will share and collaborate on files using Box—a cloud service that offers storage, backup, and sync options. Access rights are restricted when any member of the project key personnel leaves the university.

### **Data Sharing, Protection, and Public Access**

The curriculum—including instructional videos—created as part of this project will be shared via a database of lessons and resources available on the [Utah Agricultural Literacy Curriculum Matrix](#), [National Agricultural Literacy Curriculum Matrix](#), and [ROAVcopters](#). Although this data is available publicly, access to the original files is password-protected. Use of these resources are protected under Creative Commons.

### **Roles and Responsibilities**

Denise Stewardson, principal investigator, is responsible for administering this data management plan. Gary Stewardson (co-principal investigator), the project's graduate student, and Lendel Narine (Extension evaluation specialist) are responsible for following all university procedures in regards to proper use of shared Box files. There is no cost to develop and implement this data management plan.