

Data Management Plan Template

1. Expected Data Type

For scientific data to be readily accessible and usable it is critical to use an appropriate community- recognized standard and machine readable formats when they exist. The data should preferentially be stored in recognized public databases appropriate for the type of research conducted. Regardless of the format used (notebook, samples, images, spreadsheet, etc.), that data set should contain enough information to allow independent investigators to understand, validate, and use the data.

2. Data Format

Scientific data should be stored in a safe environment with adequate measures taken for its long-term preservation. Applicants should describe plans for storing and preserving their data during and after the project and specify the data repositories, if they exist. They should outline strategies, tools, and contingency plans that will be used to avoid data loss, degradation, or damage.

3. Data storage and preservation

Describe your data access and sharing procedures during and after the grant. Provide any restrictions such as copyright, confidentiality, patent, appropriate credit, disclaimers, or conditions for use of the data by other parties.

4. Data sharing and public access

Who will ensure DMP implementation? This is particularly important for multi-investigator and multi- institutional projects. Provide a contingency plan in case key personnel leave the project. Also, what resources will be needed for the DMP? If funds are needed, have they been added to the budget request and budget narrative? Projects must budget sufficient resources to develop and implement the proposed DMP.

5. Roles and responsibilities

Successful projects should monitor the implementation of the DMP throughout the life of the project and after, as appropriate. Implementation of the DMP should be a component of annual and final reports to NIFA (REEport) and include progress in data sharing (publications, database, software, etc.). The final report should also describe the data that was produced during the award period and the components that will be stored and preserved (including the expected duration) after the award ends.

6. Monitoring and reporting

Successful projects should monitor the implementation of the DMP throughout the life of the project and after, as appropriate. Implementation of the DMP should be a component of annual and final reports to NIFA (REEport) and include progress in data sharing (publications, database, software, etc.). The final report should also describe the data that was produced during the award period and the components that will be stored and preserved (including the expected duration) after the award ends.

Expected Data Type (example below)

Title	Description

Data Format

Title	Format	Average Size	Number of files	Location

3. Data storage and preservation

Support for data management for this project throughout its lifecycle will occur using the Purdue University Research Repository (PURR), Purdue's institutional data repository. PURR utilizes HUBzero®, a web-mediated software platform designed for scientific collaboration and sharing of scientific data that was developed with support from the National Science Foundation and Purdue University. PURR provides workflows and tools for ingestion, identification and dissemination of data as well as services to ensure data security, fidelity, backup, and mirroring. Purdue Libraries will consult with investigators to facilitate selection and ingestion of data with the application of appropriate descriptive metadata and data standards as well as to provide appraisal of data for long-term preservation and stewardship. PURR is working towards the ISO 16363 process to become a certified Trusted Digital Repository. PURR comes with a set of default policies and functionality that addresses privacy and confidentiality, intellectual property and copyright, and access and sharing of data. Datasets published using PURR will be assigned Digital Objects Identifiers (DOIs) and will be exposed to the web using open standards to maximize discoverability and scholarly reuse of data. An allocation of resources from PURR has been reserved for this project and will be appropriated upon its award.

The project has access to up to 100 GB of free working space during the grant period with the capacity to extend the storage space and time of storage beyond the grant period. Published datasets remain online for 10 years and then can be stored in Purdue Libraries.

Purdue University. (2012). Purdue University Research Repository. Retrieved from <http://purrr.purdue.edu>

4. Data sharing and public access

The team manages data access permissions with the ability to restrict some or all of the data for public viewing until such time as the data is ready for publication. with PURR provides the capability to publish and archive up to 1 GB of curated data during the life of the grant.

5. Roles and responsibilities

The PI is ultimately responsible for the data uploaded and published for public use. Each investigator is responsible for the quality and integrity of their uploaded data. The Executive Committee will review the data regularly and at a minimum 2 times per year. The Strategic Advisory Committee will review the plans for monitoring, reporting and data sharing and provide input into the controls. They will review these processes annually.

6. Monitoring and reporting

Dissemination (example...)

The data and project results will be disseminated through multiple outlets, including web-site, Purdue University Research Laboratory Repository, presentations at conferences and workshops, and peer-reviewed publications. We will create a web-site for the project and will publish

Data Management Plan Template

project results and deliverables on the web-site. A strategic plan will be developed within the first 90 days, modified quarterly, to upload data, materials, and tools to PURR and the website. Data will also be made widely available in easy-to-use materials for farmers in addition to being used in scientific and trade publications and industry decision-making tools including prospectus'

Each PI will provide a link of the published data available through PURR and other resources on their.....

Reporting

Purdue will be responsible for reporting about the project, the data and its use, and progress toward the goals through NIFA's REEport system as well as the Annual Report of Accomplishments. NIFA and the grant name will be included in all publications and dissemination of data or other project information to the various public audiences.

Monitoring

The Executive Committee is responsible for monitoring the integrity and publication of data through the strategic plan to be developed within the first 90 days or receiving the award.

Proprietary and Confidential Information

A bulk of the data is being

Commented [DP1]: Is any of the data proprietary or confidential?

DO NOT COPY