

DMPTool for Data Management Plans

Todd Grappone and Sharon E. Farb

Presented to the Research Administrators Forum (RAF)

February 9, 2012

NSF Awards to UCLA in FY 2010-11

- \$84,364,252.00
- 7.8% of awarded dollars to UCLA come from NSF

Federal Dollars for Science and Engineering

- UCLA was ranked 5th in 2007 (most recent data available from NSF)
- UCLA is consistently ranked in the top 10

NSF Requirement for Data Management Plan (DMP)

“Proposals must include a supplementary document of no more than two pages labeled ‘Data Management Plan.’ This supplement should describe how the proposal will conform to NSF policy on the dissemination and sharing of research results.”

Reasons for the **DMPTool**

- NSF requirements for data management plans beginning Jan 2011
 - For instance, University of California researchers received over \$600 million from NSF in FY 2010/11
- Other agencies following suit: NEH, IMLS
- NIH has data sharing requirements

UCLA Project participants

- Todd Grappone
- Judy Consales
- Sharon Farb
- Lisa Federer
- Courtney Hoffner
- Tony Aponte
- Anita Colby
- Claudia Horning
- Jen Weintraub
- Stephen Davison
- Gary Thompson
- Darrow Cole
- Dawn Setzer

Data Management

this concept refers to the activities in the research lifecycle that involve some aspect of planning, collecting, processing, editing, preparing, documenting, verifying, analyzing, preserving, discovering and repurposing data; a Data Management Plan should articulate how these data activities will be conducted in a research project;

The “WHAT” of e-research data activities

Data Stewardship

this concept refers to the individuals, parties or institutions taking responsibility for data management activities across the research lifecycle; a Data Management Plan should identify the data stewards associated with a research project;

The “WHO” involved in e-research data activities

DMPTool for Data Management Plans

- Helps researchers meet requirements of NSF and other U.S. funding agencies.
- Guides researchers through the process of creating a data management plan.
- Is available to everyone.
- Provides additional help for researchers at DMPTool partner institutions – like UCLA.

NSF Dissemination and Sharing Policy

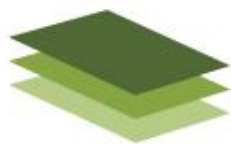
“Investigators are expected to share with other researchers, at no more than incremental cost and within a reasonable time, **the primary data**, samples, physical collections and other supporting materials created or gathered in the course of work under NSF grants. Grantees are expected to encourage and facilitate such sharing.”

Goals of the **DMPTool**, I

- To provide researchers a simple way to create a Data Management Plan by giving them information from the funding agency:
 - Questions asked by the agency
 - Any additional explanation or context provided by the agency
 - Links to the agency website for policies, help, guidance

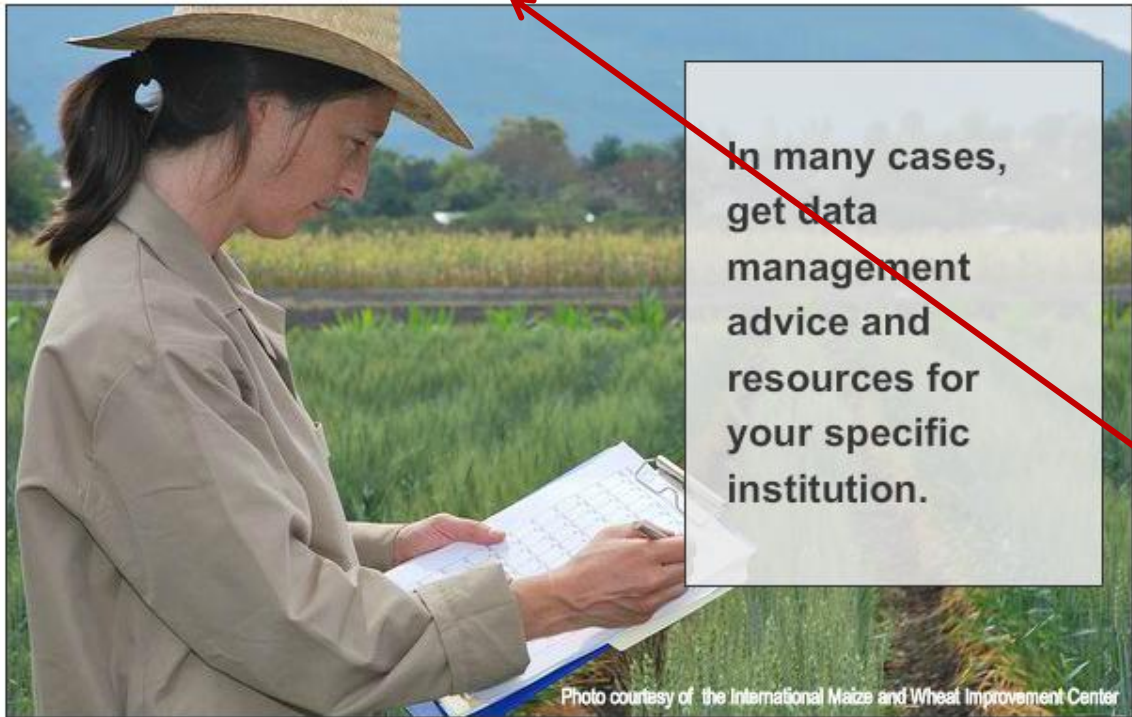
Goals of the **DMPTool**, II

- To provide researchers with additional information from their local institution:
 - Resources and services to help them manage data
 - Help text for specific questions
 - Suggested answers to questions that they can simply cut-and-paste
 - News and events related to data management on their campus



DMPTool

Guidance and Resources for your Data Management Plan



In many cases, get data management advice and resources for your specific institution.

Photo courtesy of the International Maize and Wheat Improvement Center

The DMP Tool allows you to: 1 2 3 4

Get Started!

**Data Management Plan
Atmospheric CO2 Concentrations,
Mauna Loa Observatory, 2011-2013**

1. Types of data produced

All samples at Mauna Loa Observatory will be collected continuously from air intakes located at five towers – a central tower and four towers located at compass quadrants. Raw data files will contain continuously measured CO2 concentrations, calibration standards, reference standards, daily check standards, and blanks. The sample lines located at compass quadrants were used to examine the influence of source effects associated with wind directions (SW). In addition to the CO2 data, we will record weather data (wind speed and direction, temperature, humidity, precipitation, and cloud cover). Site conditions at Mauna Loa Observatory will also be noted and related.

See a plan created with the DMP Tool

Recent DMP News

DMPTool workshop at the DLF Fall Forum

DMPTool demo: Wed Oct 19

Importance of Data Management Education

More news >

DMPTool

Guidance and Resources for your Data Management Plan

- Home
- About DMP Tool
- DMP News
- My Plans
- Funder Requirements
- Help



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Recent DMP News

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The screenshot shows a web browser window with the URL <https://dmp.cdlib.org>. The page features a navigation bar with links for Home, About DMP Tool, DMP News, My Plans, **Funder Requirements** (circled in red), and Help. The main content area includes a large banner image of a woman in a field writing on a clipboard. A text box overlaid on the image reads: "In many cases, get data management advice and resources for your specific institution." Below the image is a caption: "Photo courtesy of the International Maize and Wheat Improvement Center". To the right of the banner is a "Get Started!" button. Below the button is a box containing a sample Data Management Plan titled "Data Management Plan Atmospheric CO2 Concentrations, Mauna Loa Observatory, 2011-2013". The plan includes a section for "1. Types of data produced" and a detailed description of the data collection process at Mauna Loa Observatory. Below the plan is a link: "See a plan created with the DMP Tool". Further down is a "Recent DMP News" section with links to "DMPTool workshop at the DLF Fall Forum", "DMPTool demo: Wed Oct 19", "Importance of Data Management Education", and "More news >". At the bottom of the page, there is a footer with copyright information and links for "Privacy Policy", "Terms of Use", and "Site Credits". The "Terms of Use" link is circled in red.

DMPTool

Guidance and Resources for your Data Management Plan

- [Home](#)
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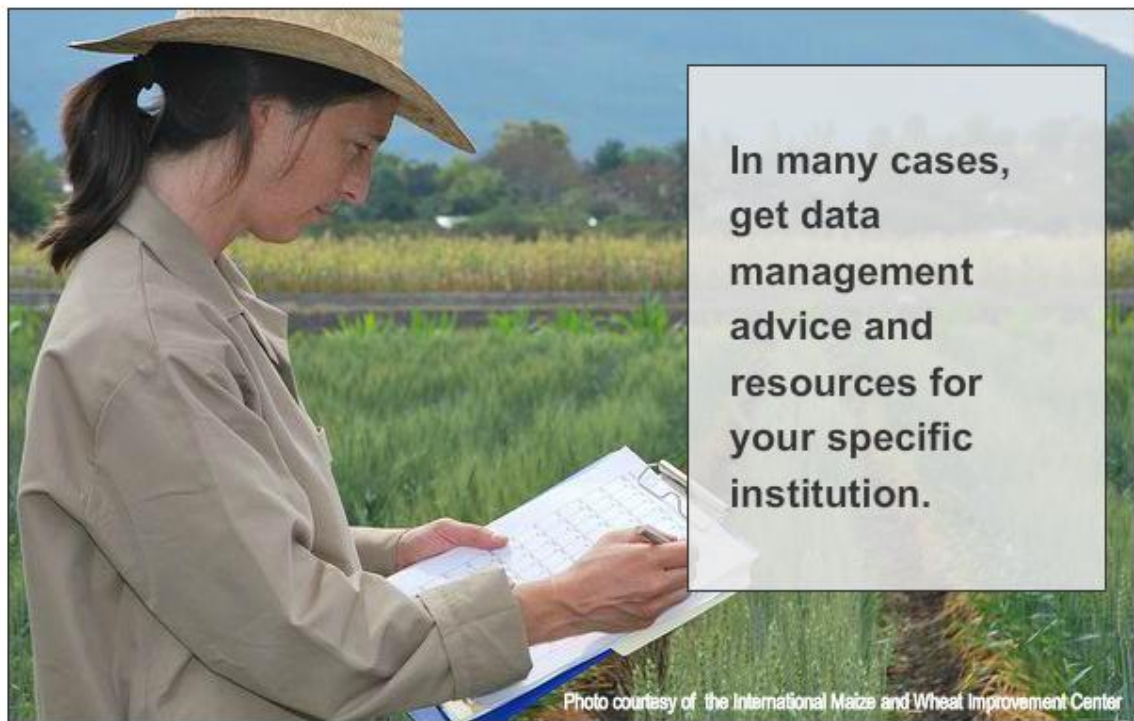


Photo courtesy of the International Maize and Wheat Improvement Center

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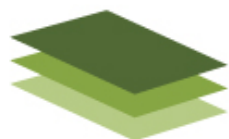
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DMPTool

Guidance and Resources for your Data Management Plan

Funder Requirements

Funder	Funder Link	Sample Plan	Funder Requirements Template	Supported in DMP Tool
IMLS	Guidance			
IEH – Office of Digital Humanities	Guidelines			
ISF – General	Grant Proposal Guide	NSF-GEN Sample 1 NSF-GEN Sample 2	Template [RTF]	✔
ISF – Astronomical Sciences	Advice to PIs			
ISF – Atmospheric & Geospace Sciences	AGS Advice			
ISF – Biological Sciences	Information	NSF-BIO Sample 1 NSF-BIO Sample 2	Template [RTF]	✔
ISF – Chemistry	Advice to PIs			
ISF – Earth Sciences	Guidelines		Template [RTF]	✔
ISF – Education & Human Resources	Guidance			
ISF – Engineering	Guidance		Template [RTF]	✔
ISF – Materials Research	Advice to PIs		Template [RTF]	✔
ISF – Mathematical Sciences	Advice to PIs			
ISF – Social, Behavioral & Economic	Contents		Template [RTF]	✔
ISF – Physics	Advice to PIs		Template [RTF]	✔

As new Data Management Plan Guidelines become available, they will be added to this page and eventually to the DMPTool.

Disclaimer

The sample plans provided here may or may not be associated with successful grant applications. They may contain details not relevant to your specific project. They are provided only to illustrate representative responses.

Funder Key

ISF = National Science Foundation
IEH = National Endowment for the Humanities
IMLS = Institute of Museum and Library Services

Additional DMP Tool Help

- [DMP Tool Guide](#)
- [Video Demo](#)

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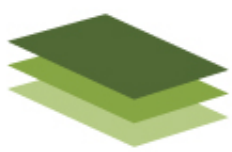
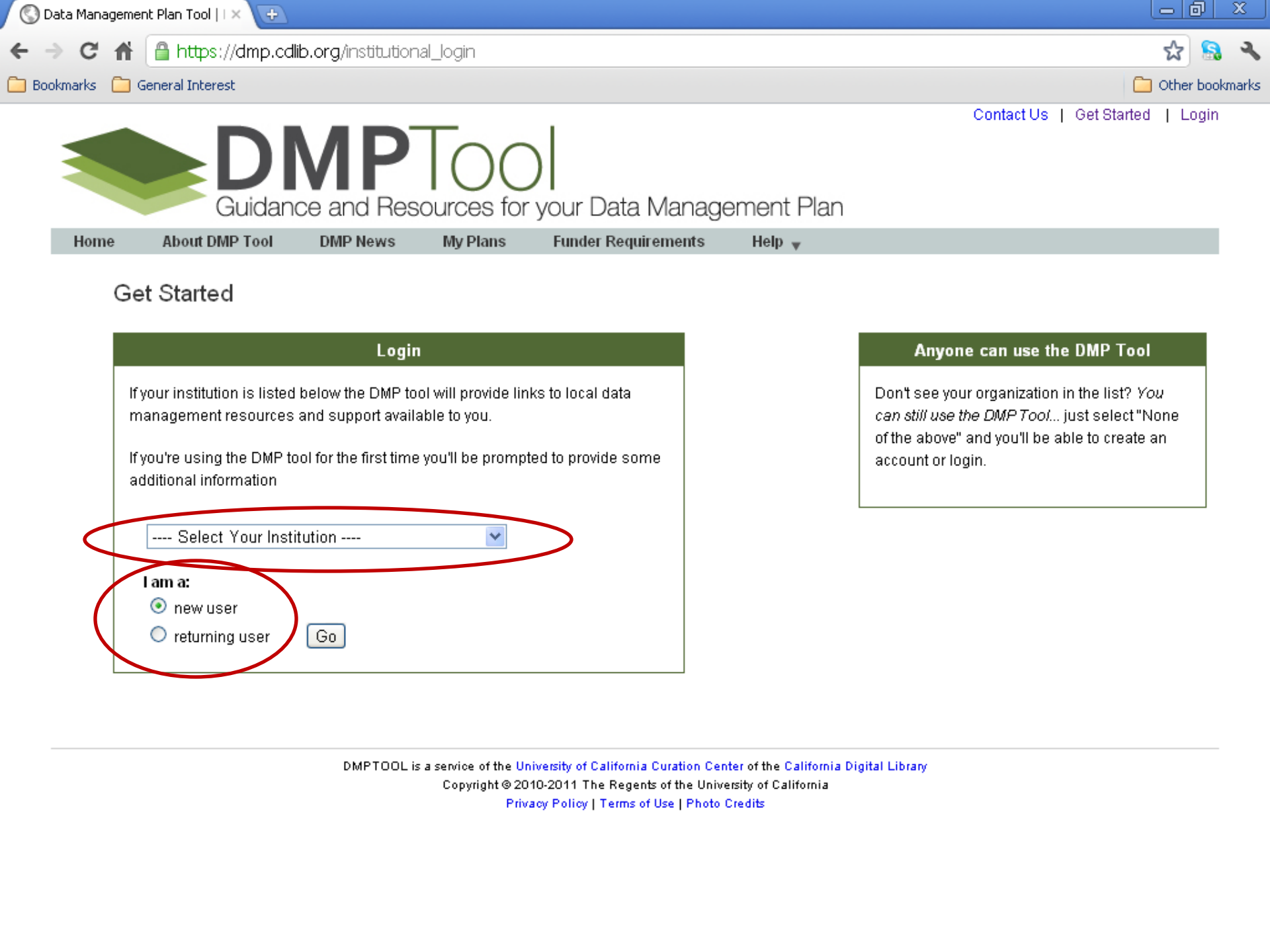
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DMP Tool

Guidance and Resources for your Data Management Plan

Get Started

Login

If your institution is listed below the DMP tool will provide links to local data management resources and support available to you.

If you're using the DMP tool for the first time you'll be prompted to provide some additional information

---- Select Your Institution ----

I am a:

- new user
- returning user

Go

Anyone can use the DMP Tool

Don't see your organization in the list? *You can still use the DMP Tool...* just select "None of the above" and you'll be able to create an account or login.

— Select Your Institution —

- Arizona State University
- California State University, Fresno
- California State University, Los Angeles
- California State University, Office of the Chancellor
- Humboldt State University
- Johns Hopkins University
- Michigan State University
- Moss Landing Marine Laboratories (CSU)
- North Carolina State University
- Northwestern University
- Ohio State
- Old Dominion University
- Penn State
- Rice University
- Smithsonian Institution
- UCLA**
- University of Arizona
- University of California, Berkeley
- University of California, Davis

— Select Your Institution —

I am a:

new user

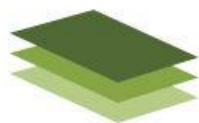
returning user

Your Data Management Plan

[Funder Requirements](#) [Help](#)

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Create a DMPTool account

* First name

* Last name

* Username

* Password

* Repeat Password

* Email

Institution

* indicates a required item.

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Add local information

- Help text, Links to resources and services, Suggested answers, Contact information
- Information can be added at various levels for researchers at UCLA:
 - All data management plans
 - All data management from a particular funding agency, e.g.. NSF Biological Sciences Directorate
 - A particular question within a data management plan

<https://bitbucket.org/dmptool/main/wiki/Documentation>

Questions?

- Contact us at data@library.ucla.edu to participate

- Important links:

- Funder Templates:

- <https://bitbucket.org/dmptool/main/wiki/Documentation>

- DMPTool Blog:

- <http://blogs.library.ucla.edu/dmptool>



(easy-eye-dee)

- Create a persistent identifier: DOI or ARK
- Add object location
- Add metadata
- Update object location
- Update object metadata