



Research Data Management

An update on the University Libraries' efforts to address the management, sharing and preservation needs on campus

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UNIVERSITY OF MINNESOTA
LIBRARIES
Science & Engineering Library



Talk Overview

University Libraries support research data management through...

1. Web site <https://www.lib.umn.edu/datamanagement>

- *Local services, tools, and storage options*
- *Example data management plans*

2. Training and Outreach

- *"Creating a Data Management Plan" (RCR credit)*
- *"Introduction to Data Management" (online version)*
- *File formats for long term access*

3. New (emerging) Research Services

- *Consultation for writing your data management plan*
- *Data archive and preservation tools such as UDC and UMedia*
- *More to come...*

The screenshot shows the University of Minnesota Libraries website. At the top is the university logo and name, 'UNIVERSITY OF MINNESOTA Driven to Discover'. Below that is a navigation bar with 'UNIVERSITY LIBRARIES' and a search box. A secondary navigation bar includes 'Home', 'About Us', 'Services', 'How to Find', 'Ask Us!', and 'Chat'. The main content area features a large heading 'Managing Your Data' and an introductory paragraph about digital data growth. Below this is a section titled 'Creating a data management plan?' with a list of five bullet points: 1. Take one of our data management workshops or watch our online tutorial on best practices. 2. Learn about the various funding agency requirements and recommendations (ie. NSF Data Sharing Policy). 3. View a list of subject-specific data repositories to determine the best place to share your data. 4. Get access to research computing resources on campus and include them in your data management plan. 5. Consult with a data librarian by contacting us with your questions.

1. Web Site

- *Local services, tools, and storage options*
- *Example data management plans*
- *Contacts for help*



2. Training and Outreach

“Introduction to Data Management”

- Workshop for faculty, staff, and students
- An introductory focus on the tools and tips addressing practical problems (including storage options, file management, and metadata).
- This 1-hour session was taught four times during 2010 and was recorded as an online tutorial available at

<https://www.lib.umn.edu/datamanagement/workshops/data101>

"Creating a Data Management Plan for Your Grant Application"

- Workshop in response to the National Science Foundation (NSF) requiring a 2-page data management plan with all new grant proposals.
- Each 1.5 hour session satisfies RCR's Continuing Education Credit for PI's.
- Slides and handouts available at

<https://www.lib.umn.edu/datamanagement/workshops/dataplan>



"Creating a Data Management Plan" Workshop Overview:

1. Data types (including samples, physical collections, software)
2. Data and metadata format standards
3. Access & sharing policies (including privacy/IP provisions)
4. Re-use policies & provisions
5. Archiving & access preservation plans

Plus....Any other specific program directorate requirements

What happens to data once the project is complete?



- How long to retain?
- In what format?
- Migration Schedule?
- Plans for archiving other research products?
 - Physical samples
 - Derivatives



File Formats for Long-term Access



MS Access

MS Word

MS Excel

GIF or JPG

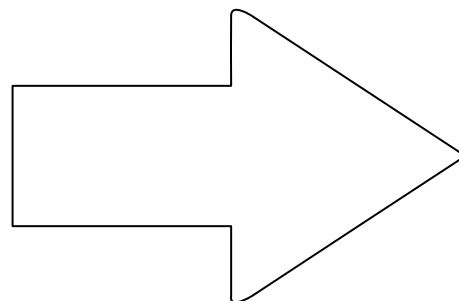


DBF

PDF

CSV

TIFF



Campuses: [Twitt](#)

UNIVERSITY OF MINNESOTA
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UNIVERSITY LIBRARIES

Home About Us Services How to Find

Researcher Support

- Researcher Support Home
- Copyright and Fair Use
- Citation Management
- Data Management
- Grant Funding
- Scholarly Communication
- University Digital Conservancy
- Research Impact Measures**
 - Individuals
 - Research Groups and Departments
 - Institutions and Universities
 - Journals
- Workshops, Guides and Tutorials

Research Impact Measures

Explore some of the most commonly-accepted measures of research impact.

- [Individual Impact Measures](#), including h-index
- [Research Group/Department Impact Measures](#), including Science Indicators
- [Institution/University Impact Measures](#), including *U.S. Report Rankings*
- [Journal Impact Measures](#), including Impact Factor and

You'll find tips on how to find and calculate these measures, strengths and weaknesses of the data, a context for using tools, and an understanding of what the numbers actually mean.

The favored trend employs measures based on citations because they are relatively easy-to-gather, objective data that may indicate contribution to further research. Deeper investigation reveals how these measures are calculated and the difficulties of certain disciplines that have different research and publication practices.

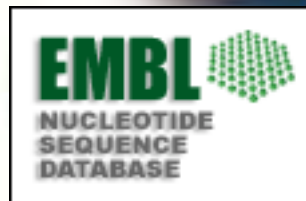
The ramifications of research may be diverse, wide-ranging and therefore intrinsically hard to measure. The current, common measures of research impact highlighted in these pages are understood in context. Care should be taken in understanding their merits and limitations.

Further Reading

[Science Metrics](#), a *Nature News* special issue (6/16/10) discusses individual productivity measures.

- **3. Research Services**
Consultation for writing your data management plan
Metadata, preservation, and archive
tools such as UDC and UMedia
More to come...

Subject Data Repositories



Marine Geology & Geophysics

Institutional Data Repositories



digitalconservancy

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HATHI
TRUST



Minnesota Population Center

digital content library

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Metadata and PURL for Access



[University of Minnesota Digital Conservancy](#) >
[University of Minnesota - Twin Cities](#) >
[Minnesota Geological Survey](#) >
[Miscellaneous Map Series](#) >

Files in This Item:

File	Description	Size	Format	
m92_Extras.zip	Supplementary GIS files	17515Kb	Zip	View/Open
readme.txt	readme file	1Kb	Text	View/Open
M92.pdf	M-92 map	2380Kb	PDF	View/Open

Please use this permanent URL to cite or link to this item: <http://purl.umn.edu/973>

Title: M-092 Bedrock geologic map of northwestern Minnesota.

Authors: Jirsa, M.A.
Chandler, V.W.
Runkel, A.C.

Keywords: geology
geography
bedrock

Issue Date: 1999

Publisher: Minnesota Geological Survey

Series/Report no.: M-92

Description: 1:200,000

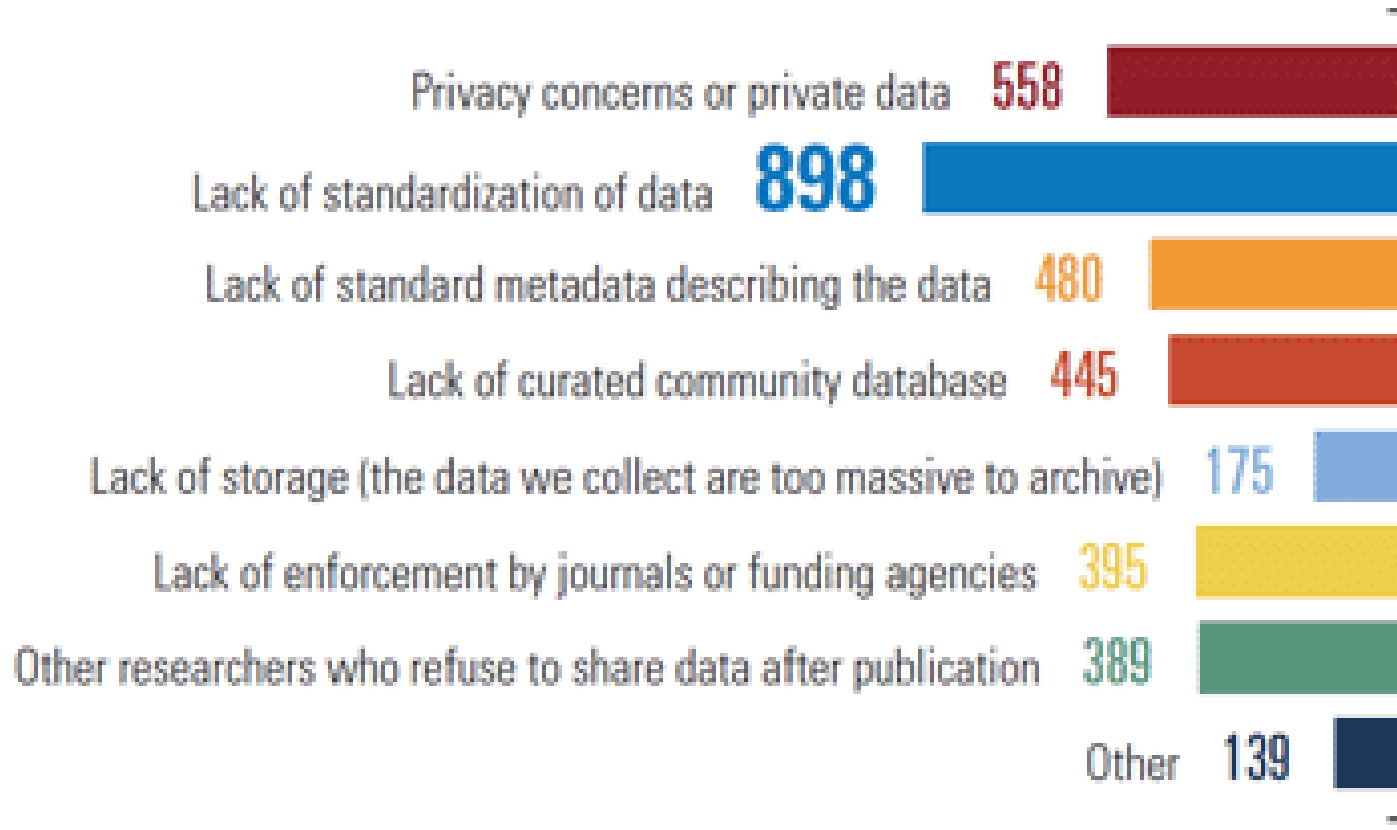
Permanent URL: <http://purl.umn.edu/973>

Appears in Collections: [Miscellaneous Map Series](#)

What are the Challenges?

According to *Science* peer reviewers respondents (n=1616)

Special Iss





Thank You!

<http://www.flickr.com/photos/dkscully/2291816634/>