

DATA SHARING: NATURAL RESOURCES RESEARCHERS USE OF JOURNALS AND INSTITUTIONAL REPOSITORIES

Shannon L. Farrell and Wanda Marsolek (University of Minnesota Libraries)

Introduction

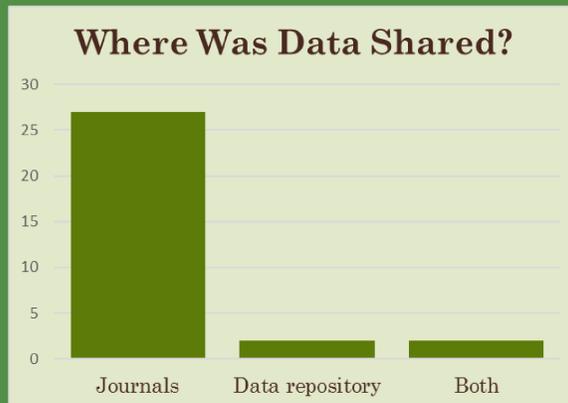
- ❖ Although academic libraries have been offering services to researchers around data management and data sharing, it is unclear how and if researchers are incorporating data sharing into their workflow
- ❖ To gain understanding, we examined the current data sharing practices of 33 faculty in the natural resources sciences

Methods

- ❖ Gathered 91 newly published articles by natural resources researchers over 6 months
- ❖ Examined articles for:
 - ✓ Grant funding
 - ✓ Presence/absence of supplemental data on journal website
 - ✓ If data was found, the format was noted
 - ✓ Data citations in references section
- ❖ Reviewed associated journals' data sharing policies
- ❖ Checked if researchers had deposited data in UMN data repository (DRUM) associated with analyzed articles

Results

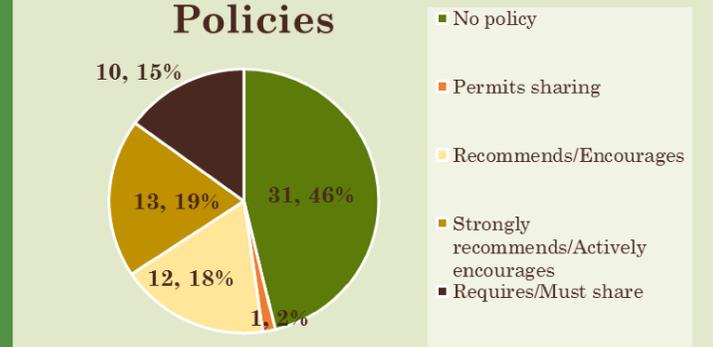
- ❖ 28 of 34 faculty have shared data in some format



Format of Data Shared on Journal Websites*	Summarized	Raw
PDF	24	0
Excel	13	2
MS Word	12	0
CSV	10	2
TXT	4	0
EPS	1	0
WMV	1	0
Unknown (embargo)	0	1

*Some datasets used more than one format

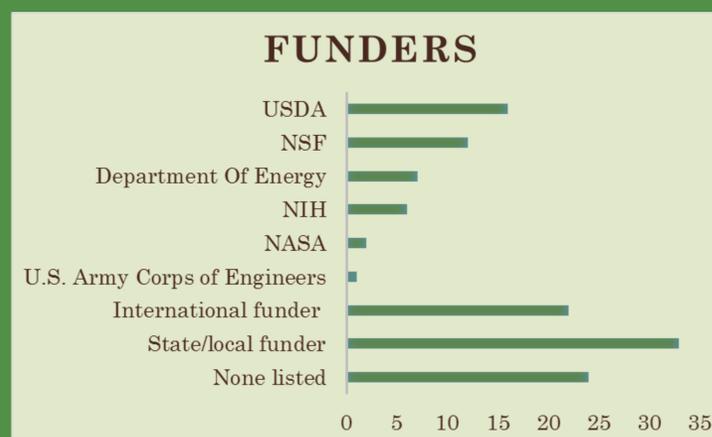
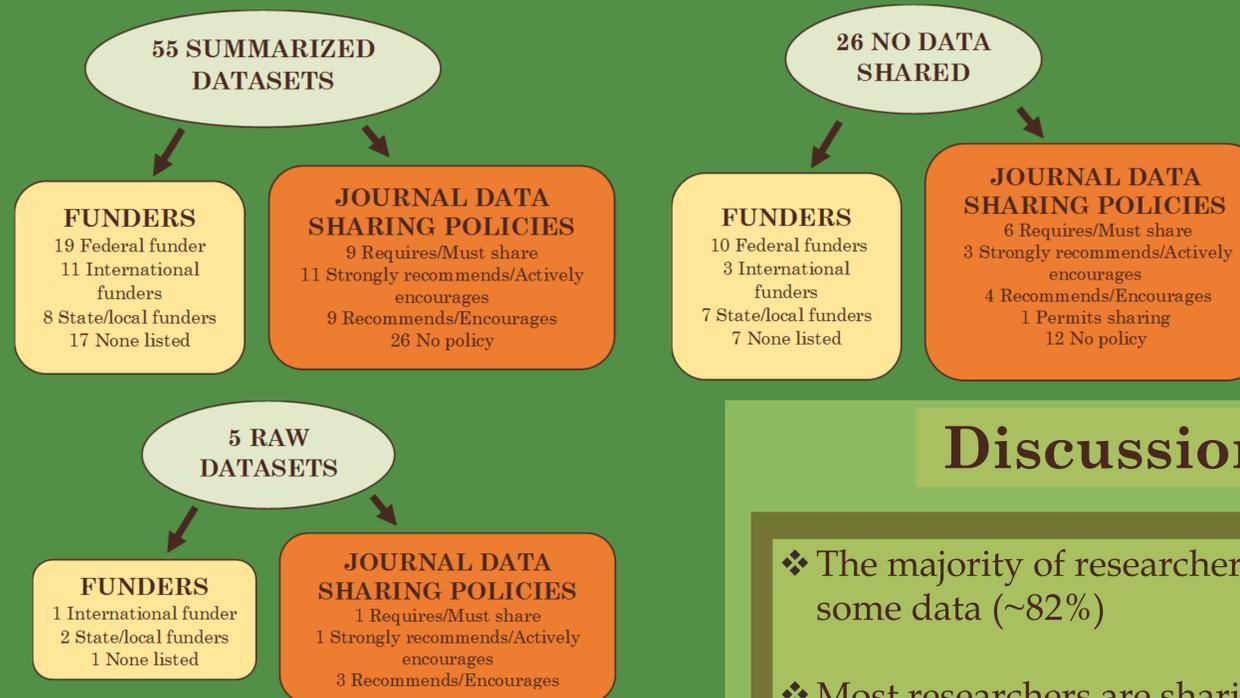
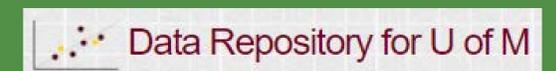
Journal Data Sharing Policies



- ❖ Supplemental data in journals did not have a separate DOI

- ❖ Only 2 articles cited their data / used data citations (1 Dryad, 1 UMN data repository)

- ❖ 25 of 63 journals suggested specific repositories where authors could deposit their data



Discussion

- ❖ The majority of researchers are sharing some data (~82%)
- ❖ Most researchers are sharing data on journal websites; very few are sharing in the UMN data repository
- ❖ Most data that was shared was summarized data in a PDF format rather than raw data
- ❖ The majority of research was grant funded and many of the associated funders require data sharing

Opportunities

- ❖ Explore the drivers for faculty who share data versus those who do not
- ❖ Increase outreach about data sharing options on campus
- ❖ Figure out why researchers are sharing summarized data in PDFs versus other formats
- ❖ Educate researchers on the benefits of sharing machine-readable data