

Understanding Data Impact at the U.S. Geological Survey

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U.S. Department of the Interior U.S. Geological Survey



U.S. Geological Survey

Science for a Changing World

The USGS serves the Nation by providing reliable scientific information to describe and understand the Earth; minimizing loss of life and property from natural disasters; managing water, biological, energy, and mineral resources; and enhancing and protecting our quality of life.





CSS SAS Science Data Management Team

Mission: Optimize and share USGS data management practices and workflows to ensure that USGS scientific data are fully described, preserved, and publicly accessible

Building Communities Community for Data **USGS Powell Center** Integration (CDI) powellcenter.usgs.gov usgs.gov/cdi ScienceBase Data Release Network Leadership in Policy **Promoting Best Practices**

USGS Data Management Website

https://www.usgs.gov/ products/data-andtools/datamanagement



Model Catalog data.usgs.gov/modelcatalog

ScienceBase sciencebase.gov

DOI Creation Tool www1.usgs.gov/csas/doi

Online Metadata Editor www1.usgs.gov/csas/ome

Metadata Wizard https://code.usgs.gov/usgs/fort-pymdwiza

Science Data Catalog data.usgs.gov

Maintaining Enterprise Tools

3

USGS data management policies



Scientific Data Management Foundation *(requires DMPs)*

Metadata for Scientific Data, Software, and Other Information Products

Review and Approval of Scientific Data for Release

Preservation Requirements for Digital Scientific Data

Understanding Data Impact

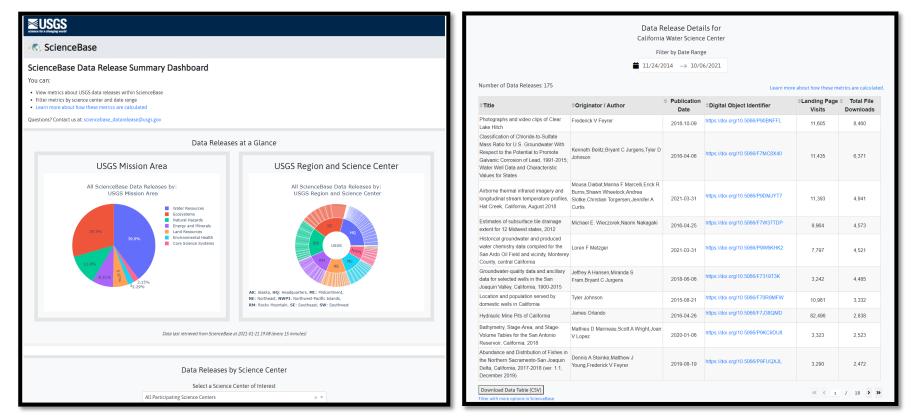


DATA ACCESS – VIEWS & DOWNLOADS

DATA USE – CITATION TRACKING



ScienceBase Data Release Summary Dashboard



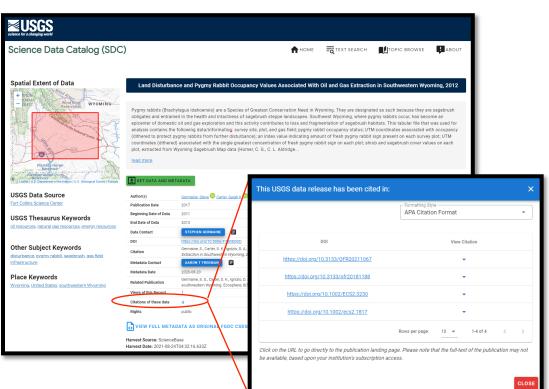


https://sciencebase.gov/datarelease/summary/



Data Citation Tracking

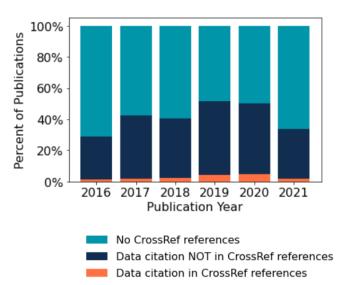
- Mine xDD (GeoDeepDive) weekly for USGS DOI prefix: 10.5066
- Store pub DOIs as related identifiers in DataCite DOIs
- Display citations in the USGS Science Data Catalog



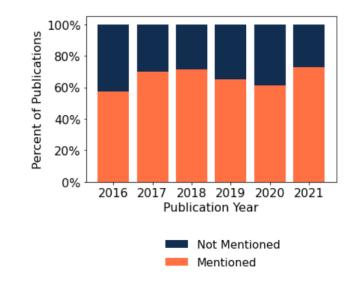


Are Data Being Cited or Mentioned?

Data DOIs Listed in CrossRef References



Data DOIs Mentioned in Publication Full Text





Next Steps

- Align data access counts with COUNTER Code of Practice for Research Data
- Explore Scholix for tracking formal citations
- Continue to educate our researchers & publishing staff

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Thank you!

Questions & Discussion

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