

# New Mexico Water Data Initiative Update

October 27, 2022 Presented by Stacy Timmons, project convener and Associate Director for Hydrogeology Programs, NM Bureau of Geology and Mineral Resources

# https://newmexicowaterdata.org

In 2019, Water Data Act became statute (NMSA 1978, §72-4B). Implementation of this statute is a collaborative effort of state agencies listed below, working together to modernize how we SHARE, INTEGRATE, and MANAGE a wide range of water data.

- Convened by Bureau of Geology and Mineral Resources
- Office of State Engineer
- Interstate Stream Commission
- Environment Department
- Energy, Minerals and Natural Resources Department

Project began in 2019 with ~\$100K provided to the NM Bureau of Geology (under New Mexico Tech).

# WHAT WE HAVE ACCOMPLISHED

- Structured governance and work groups (see Figure 1)
- Built initial data catalog to illuminate data and engagement (catalog.newmexicowaterdata.org)
- Designed and deployed website for further communications (newmexicowaterdata.org)
- Developed data infrastructure plan
- Data integration using SensorThings API data standard is underway
- Developing tools, dashboards, and applications to discover and use water data
- Annual reports completed every September 1 (see 2022 Water Data Plan)
- Initiated several regional pilot projects, including Pecos and Rio Grande basins
- Increased funding through philanthropy, grants and new state funding (see Figure 2)

# **NEXT STEPS**

- Need to build funding for state agencies for short and long term staffing needs and to improve technical skills
- Internal agency data management in some cases is further behind than expected, need significant upgrades to modernize
- Reduce paper data transfer
- Address data gaps especially groundwater / aquifers and water use data











## DIRECTING AGENCIES TEAM

Agencies in legislation (or directly related) that collect, publish, and maintain data, and will work to integrate data and implement water data standards.

Tasks: Help set goals and metrics, determine priority needs and key data, assist with communications and data inventory in agency, help with reporting. Stacy Timmons NMBGMR, ISC, SNL

Tasks: Provide oversight, convene and organize groups, guide strategy and direction, assist with finance/ procurement, reporting.

## IMPLEMENTATION TEAM

#### IT SUPPORT TEAM

Tasks: Provide technical support to data providers, help build the WDI infrastructure, and set up data integrations.

### TECHNICAL WORKING GROUP

Technical staff or researchers that collect, publish, and maintain data. Research, database, IT or GIS roles.

Tasks: Guide development of data standards, help evaluate technical needs/software, help complete data inventory, share and maintain data.

## EXECUTIVE STEERING COMMITTEE

Cabinet secretaries & directors +/- ClOs or lead IT from directing agencies. **Tasks:** Periodic check in on progress; set priorities; provide directives and agency budget.

# DATA USERS WORKING GROUP

Stakeholder and data users, may include water planners, water managers, policy makers, and researchers.

Tasks: Articulate users needs, provide recommendations and feedback, develop use case scenarios.

### Figure 1. Governance structure for NM Water Data Initiative.

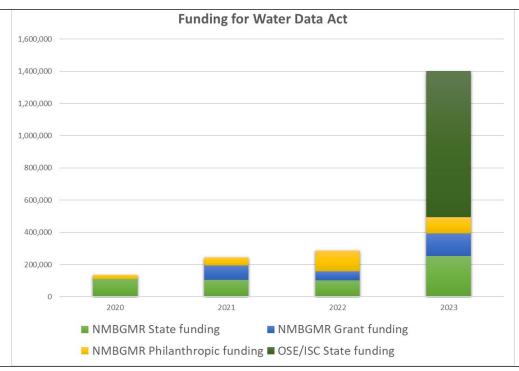


Figure 2. Total funding for NM Water Data Initiative to date, including recurring and non-recurring funds. Funding goals identified on pages 7-8 of the 2022 Water Data Plan aim for \$2.65M in recurring funds for all agencies and \$6.5M for non-recurring funding.







