



USGS STATEMAP Grant 2023 Oregon Department of Geology and Mineral Industries

January 26, 2023



DOGAMI Programs Delivers Science & Stewardship

RIVER CALDER.

Agency Leadership (Administration, IT and Finance) Geological Survey & Services (General Fund & Grant Based) Mineral Lands (Fee Based) Earthquake **Regulation & Reclamation** Landslide Flood & Tsunami & Geological & Seismic of Surface Mining, **Inventory &** Channel Coastal & Mineral Susceptibility **Exploration**, Oil & Gas, Hazards Migration **Erosion Resource** Mapping Geothermal, Chemical Mapping Mapping Mapping Mapping **Process Mining Lidar Mapping**

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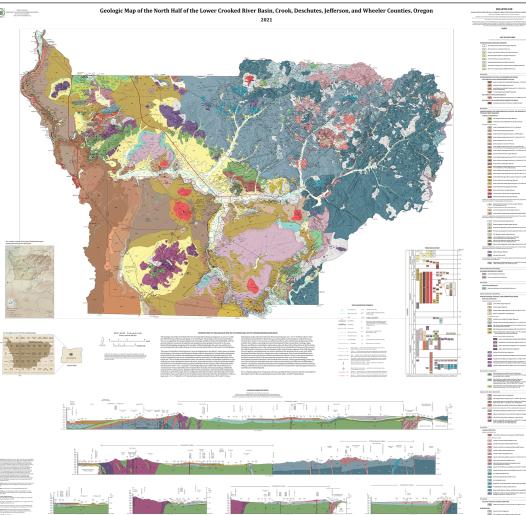
FY23 U.S. Geological Survey National Cooperative Geologic Mapping Program – STATEMAP GRANT

STATEMAP Program –

- 1992, Created by Congress. A coordinated program between the USGS/State Geological Surveys prioritizing mapping needs of the nation, to increase geologic map production.
- DOGAMI has applied/been awarded annually since 1992.
- To date Oregon has received \$4,879,921 in federal funds, partially supporting DOGAMI's geologic mapping program.

FY23 STATEMAP Program Request (cap for request \$500,000):

- Federal Funds \$499,995
- General Fund Match Request \$501,000
 - Includes \$219,354 from 2023 geophysical data
 - Net General Fund request \$281,646 (staff, services/supplies/contracts)
 - No new staffing needs for the FY23 STATEMAP Grant Request



Geologic Map Priorities

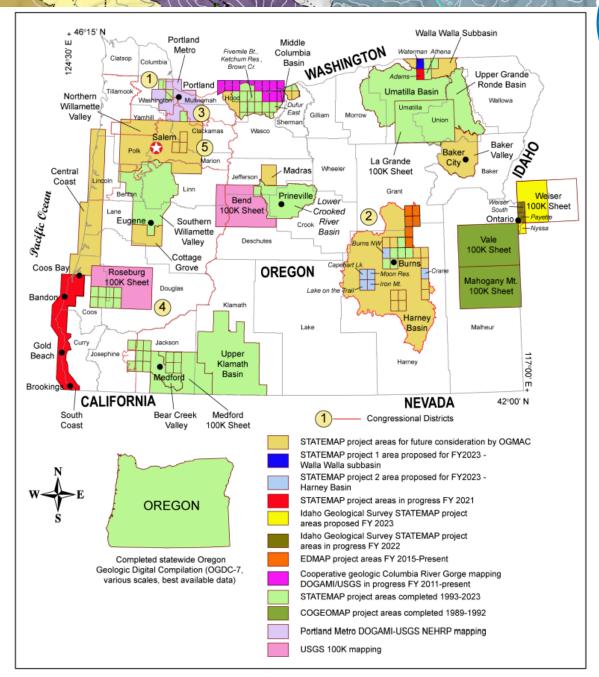
30.8 ± 0.5 Ma

- Key Performance Measure #2 (KPM) Detailed Geologic Map Completion.
- Percent of Oregon where geologic data in the form of high-resolution maps have been completed to be used for local problem solving.

Report Year	2021	2022
Target	65%	66%
Actual	62.7%	62.8%

- Oregon Geologic Mapping Advisor Committee
- State, Federal, Tribal Government, Industry, and Community partners

Compelling societal needs such as water resources, hazards, mineral and rock resources, opportunities for collaboration, and scientific merit.

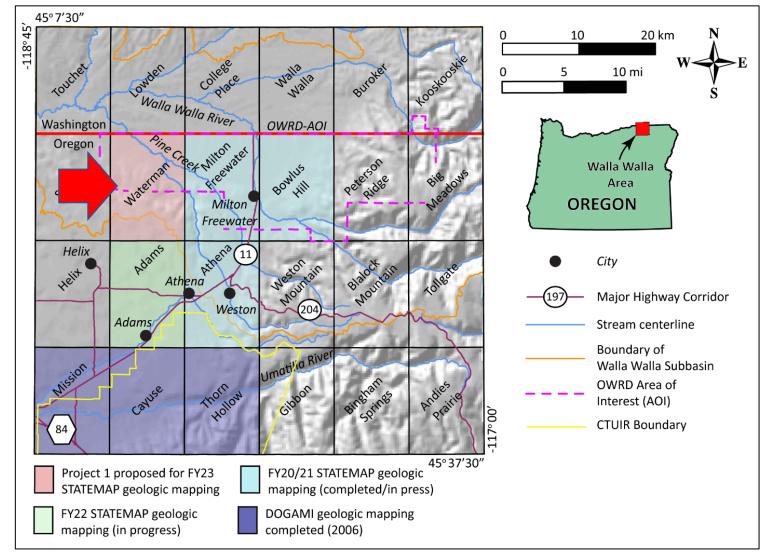






Project 1: Geologic Mapping in the Waterman 7.5' Quadrangle, Umatilla County

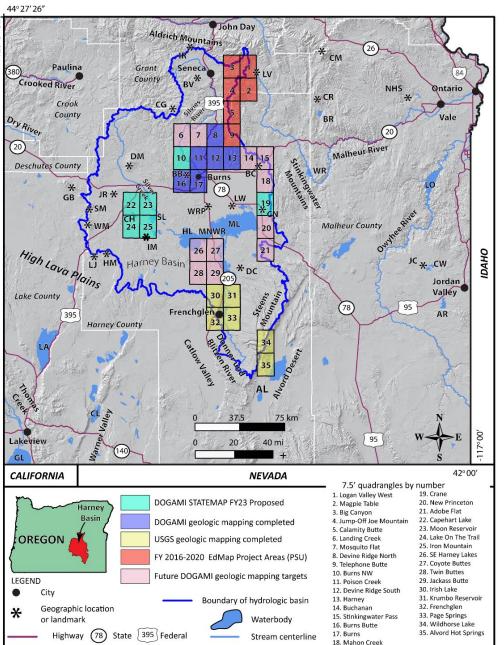
RIVER CALDER.



-30.8 ± 0.5 Ma

- Continues Geologic Mapping from FY20/21/22.
- OWRD and the USGS are actively studying aquifers in Walla Walla Basin in response to long-term groundwater level declines. Project is within OWRD's area of interest (AOI)-Waterman
- Working with USGS to map potentially active faults and characterize regional earthquake hazard.
- Overlaps with DOGAMI KPM-2 area
- Collaboration opportunities with OWRD, USGS, and the Confederated Tribes of the Umatilla Indian Reservation (CTUIR).





-30.8 ± 0.5 Ma

Project 2: Geologic Mapping in the Harney Basin, Harney County

- Six Harney Basin Quadrangles targeted for FY23 Geologic Mapping.
- High-resolution aeromagnetic and radiometric data is being collected in the Harney Basin quadrangles in 2023 (fulfills some match requirements). Additional field data collected in FY22/23 field campaigns.
- OWRD and the USGS are actively studying aquifers in Harney Basin in response to longterm groundwater level declines.
- Supports Greater Harney Valley Groundwater Committee and OWRD focus areas.

