

## Piko Assessments Thu Mar 28 08:52:15 HST 2024

Name	Spatial Distribution of Groundwater Recharge on the Island of Oahu, Hawaii
Lead Agencies	USGS/Pacific Islands Water Science Center
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Partnering Agencies	Hawaii State Commission on Water Resource Management
Types	- Needs And Capabilities
	- Capacity
Area of Applicability	- Regional/Local or Problem-focused
Focus Area	- Fresh Water Resources and Drought
Regions	- Central North Pacific
	- State Of Hawaii
Status	- Ongoing
Description	An updated, island-wide estimate of groundwater-recharge distribution is needed for the island of Oahu, Hawaii. A new water-budget model for Oahu also would take into account the substantial changes in urban and agricultural land use that have occurred during the last several decades, as well as project the effects of future land-use and climate changes. The results from this study are necessary to properly manage groundwater in the State of Hawaii. The study is consistent with the mission of the USGS Science Strategy (2007) to provide citizens, communities, natural-resource managers, and policymakers with a clearer knowledge of the status of their water resources. By providing estimates of current groundwater recharge and analyses of the effects of land-use and climate change on recharge to aquifers that provide public water supply and support fragile ecosystems, this study broadly supports three of the six science directions in the USGS Science Strategy (2007), including (1) a water census of the United States, (2) understanding ecosystems and predicting ecosystem change, and (3) climate variability and change.
Url	http://hi.water.usgs.gov/studies/oahurecharge/