



Piko Assessments Sat Apr 20 04:50:37 HST 2024

Name	A Water-Budget Model and Assessment of Groundwater Recharge for the Island of Hawaii
Lead Agencies	USGS/Pacific Islands Water Science Center
Contacts	John A. Engott, jaengott@usgs.gov
Partnering Agencies	State of Hawaii Commission on Water Resource Management
Types	<ul style="list-style-type: none"> - Needs And Capabilities - Capacity
Area of Applicability	- Regional/Local or Problem-focused
Focus Area	- Fresh Water Resources and Drought
Regions	<ul style="list-style-type: none"> - Central North Pacific - State Of Hawaii
Status	- Completed
Description	Concern surrounding increasing demand for groundwater on the Island of Hawaii, caused by a growing population and an increasing reliance on groundwater as a source for municipal and private water systems, has prompted a study of groundwater recharge on the island using the most current data and accepted methods. For this study, a daily water-budget model for the entire Island of Hawaii was developed and used to estimate mean recharge for various land-cover and rainfall conditions, and a submodel for the Kona area was developed and used to estimate historical groundwater recharge in the Kona area during the period 1984–2008.
Url	http://pubs.usgs.gov/sir/2011/5078/