



## Evaluation of Artificial Recharge in the Mojave River Ground-Water Basin, California: Open-File Report 2002-430

By Christina L Stamos

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The Mojave River Basin relies almost entirely on ground water to meet the needs of its growing population and agriculture, which has resulted in overdraft conditions. Some of the ground-water management alternatives being proposed to mitigate the effects of overdraft include artificial recharge using water from the California State Water Project (SWP) and using SWP water in lieu of ground-water pumpage. A calibrated ground-water flow model was used to evaluate six proposed water-management alternatives using SWP water during a 20-year simulation period, 2000-2019, using constant rates from 1999 for recharge and pumpage (with the exception of recharge derived from Mojave River streamflows which were variable). The measured streamflow for the period of 1970-1989 was used to simulate the Mojave River streamflow. Water-management alternative 1 assumed that none of the Mojave Water Agency allocation of SWP water was available for mitigation measures and resulted in increases in hydraulic head in the floodplain aquifer in years of above-average streamflow (2008-2010, 2013) and decreases in years of below average streamflow. In general, simulated hydraulic heads in the regional aquifer declined with...

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