
This record contains a hard copy and an electronic file of the subject report. It describes methods and results for the following: 1. The extraction and testing the model for the Amargosa Valley/Yucca Mountain (AVYM) area from the larger DOE Death Valley Regional Groundwater Flow System (DVRFS) model. 2. An evaluation of 50 years of water level data to determine evidence for a steady state or transient flow system. 3. An evaluation of the effect of alluvial channel width and hydraulic conductivity contrasts between alluvium and surrounding sediments on simulated vs. measured hydraulic heads using both steady state and transient state modeling modes.

MODFLOWP was used to conduct transient and steady state simulations on the AVYM model that was extracted directly from the larger DVRFS groundwater model. Alluvial channel width and hydraulic conductivity were varied to determine the sensitivity of hydraulic head outputs to these parameters.

The area modeled consisted of the Amargosa Valley/Yucca Mountain (AVYM) region.


Data processing is described in detail in reports listed under "Data Sources".

Differences between transient simulation results and average water levels may in part be due to errors in average water level data and/or errors in calibrated apparent transmissivity values assigned to major aquifers. Reasons for water level errors may include: 1. Different data sets were used for the 5 decades of data compared. 2. Water levels were measured in different aquifers and at various depths within each aquifer. 3. Data in some cases are from different groundwater basins. 4. Data used were not checked against original citations. 5. Exact coordinates were not available for many wells.

QAP-3.1, QAP-3.2

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Direct Questions About Data
To-

Nye County QA Records Center