U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared in cooperation with the
MOJAVE WATER AGENCY, the U.S. MARINE CORPS AIR/GROUND COMBAT CENTER, and the U.S. ARMY FORT IRWIN NATIONAL TRAINING CENTER

WATER-RESOURCES INVESTIGATIONS REPORT 97-4160
Regional water table (1996) and water-level changes - PLATE 1

Mendez, G.O., and Christensen, A.H., 1997, Regional water table (1996) and water-level changes in the Mojave River, the Morongo, and the Fort Irwin ground-water basins, San Bernardino County, California

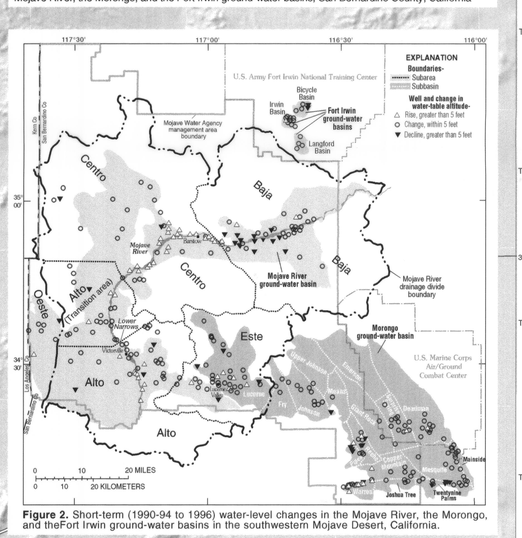
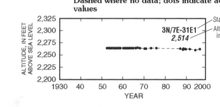


Figure 2. Short-term (1990-94 to 1996) water-level changes in the Mojave River, the Morongo, and theFort Irwin ground-water basins in the southwestern Mojave Desert, California.

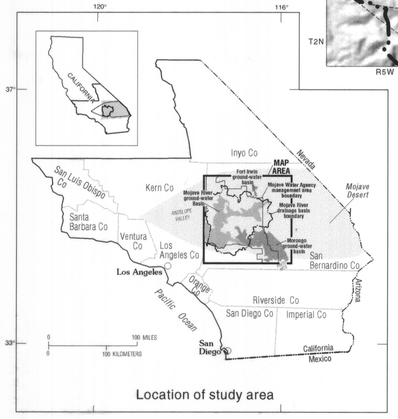
EXPLANATION

- Fault - Dashed where approximately located, dotted where concealed
- Boundaries -
  - Mojave River drainage
  - Mojave River ground-water basin (approximate)
  - Morongo ground-water basin (approximate) Subbasin boundary
  - Fort Irwin ground-water basins (approximate)
  - Mojave Water Agency management area Subarea
- 2,200 — Water-table contour - Shows altitude of water table. Contour interval, in feet, is variable; dashed where approximately located, queried where uncertain. Hachures indicate depression. Datum is sea level
- 2,250 — (Intermediate contour)
- Generalized direction of ground-water movement
- 7N1 1,702 — Well in which water table was measured - Top number is well number. Bottom number is altitude of water table, in feet above sea level. Measured in 1996. Dashes (--) indicate no measurement made 1996
- 23R1 — Well with historical data shown first in sequence on a multiple-well hydrograph
- 30A3 2,780 — Multiple well site - Top number is well number. Bottom number is altitude of water table, in feet above sea level. Measured in 1996
- Extinct spring
- Spring

Hydrograph - Shows period of record for well. Dashed where no data; dots indicate actual data values



0 2 4 6 8 10 MILES
0 2 4 6 8 10 KILOMETERS



Location of study area

Base from U.S. Geological Survey digital elevation data, 1:250,000, 1987, and digital data, 1:100,000, 1981-89. Universal Transverse Mercator Projection, Zone 11. Shaded relief base from 1:250,000-scale Digital Elevation Model; simulated sun illumination from northwest at 30 degrees above horizon

Faults modified from Schaefer, 1978; Bortugno, 1986; Londquist and Martin, 1991; and J.C. Matti, and S.I. Dixon, U.S. Geological Survey, written commun., 1994.
Fort Irwin ground-water basin boundaries modified from Wilson F. So and Associates, 1989

REGIONAL WATER TABLE (1996) AND WATER-LEVEL CHANGES IN THE MOJAVE RIVER, THE MORONGO, AND THE FORT IRWIN GROUND-WATER BASINS, SAN BERNARDINO COUNTY, CALIFORNIA