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State of California  
THE RESOURCES AGENCY  
Department of Water Resources

BULLETIN No. 91-12

WATER WELLS IN THE EASTERN PART  
OF THE  
ANTELOPE VALLEY AREA

LOS ANGELES COUNTY, CALIFORNIA

WATER RESOURCES  
CENTER ARCHIVES

APR 1967

UNIVERSITY OF CALIFORNIA  
BERKELEY

*Prepared by*

United States Department of Interior  
Geological Survey

FEDERAL-STATE COOPERATIVE GROUNDWATER INVESTIGATIONS

DECEMBER 1966

HUGO FISHER  
*Administrator*  
The Resources Agency

EDMUND G. BROWN  
*Governor*  
State of California

WILLIAM E. WARNE  
*Director*  
Department of Water Resources

PWS-0121-0001

This report is one of a series of reports prepared by the United States Department of the Interior, Geological Survey, Water Resources Division, which presents basic data on wells obtained from reconnaissance surveys of desert areas. These investigations are conducted by the Geological Survey under a cooperative agreement whereby funds are furnished equally by the United States and the State of California. The reports in this Bulletin No. 91 series are being published by the Department of Water Resources in order to make sufficient copies available for use by all interested agencies and the public at large. Earlier reports of this series are:

- Bulletin No. 91-1: Data on Wells in the West Part of the Middle Mojave Valley Area, San Bernardino County, California
- 91-2: Data on Water Wells and Springs in the Yucca Valley-Twenty-nine Palms Area, San Bernardino and Riverside Counties, California
- 91-3: Data on Water Wells in the Eastern Part of the Middle Mojave Valley Area, San Bernardino County, California
- 91-4: Data on Water Wells in the Willow Springs, Gloster, and Chaffee Areas, Kern County, California
- 91-5: Data on Water Wells in the Dale Valley Area, San Bernardino and Riverside Counties, California
- 91-6: Data on Wells in the Edwards Air Force Base Area, California
- 91-7: Data on Water Wells and Springs in the Chuckwalla Valley Area, Riverside County, California
- 91-8: Data on Water Wells and Springs in the Rice and Vidal Valley Areas, Riverside and San Bernardino Counties, California
- 91-9: Data on Water Wells in Indian Wells Valley Area, Inyo, Kern, and San Bernardino Counties, California
- 91-10: Data on Wells and Springs in the Lower Mojave Valley Area, San Bernardino County, California
- 91-11: Data on Water Wells in the Western Part of the Antelope Valley Area, Los Angeles and Kern Counties, California



IN REPLY REFER TO:  
Cal-28-C(21)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Water Resources Division  
District Office  
345 Middlefield Road  
Menlo Park, California, 94025

August 10, 1966

Mr. William E. Warne, Director  
Department of Water Resources  
State of California--Resources Agency  
Post Office Box 388  
Sacramento, California, 95814

Dear Mr. Warne:

We are pleased to transmit for publication by the Department of Water Resources the U.S. Geological Survey report, "Data on Water Wells in the Eastern Part of the Antelope Valley Area, Los Angeles County, California," by J. H. Koehler.

This report, one of a series for the Mojave Desert region, was prepared by the Garden Grove subdistrict office of the Geological Survey in accordance with the cooperative agreement between the State of California and the Geological Survey. It tabulates all available data on wells in the eastern part of the Antelope Valley area and shows reconnaissance geology with special reference to the water-yielding deposits.

Sincerely yours,

Walter Hofmann  
District Chief

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### Recharge and Discharge of Ground Water

Recharge to the ground-water bodies of the area occurs by direct infiltration of rain, from subsurface flow from adjoining areas, and from percolation of infrequent runoff in streams that drain the San Gabriel Mountains. Rainfall on the valley floor averages less than 8 inches annually, but in the surrounding mountains may reach a maximum of about 20 inches per year. The average annual recharge is less than the pumpage; consequently, in excessively pumped areas the water levels have declined. The gradient of the water table, as shown by water-level measurements, suggests that runoff from the San Gabriel Mountains supplies most of the recharge and that the ground water, in general, moves from south to north.