WELL-CONSTRUCTION, WATER-QUALITY, AND WATER-LEVEL DATA, AND POND-INFILTRATION ESTIMATES, FOR THREE GROUND-WATER SUBBASINS, RIVERSIDE COUNTY, CALIFORNIA

By Carmen A. Burton, Charles A. Kaehler, *and* Allen H. Christensen

---

U.S. GEOLOGICAL SURVEY
Water-Resources Investigations Report 96-4294

Prepared in cooperation with the
EASTERN MUNICIPAL WATER DISTRICT

5009-23

Sacramento, California
1996

U.S. DEPARTMENT OF THE INTERIOR
BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY
Gordon P. Eaton, Director

For sale by the
U.S. Geological Survey
Information Services
Box 25286
Denver Federal Center
Denver, CO 80225

For additional information write to:
District Chief
U.S. Geological Survey
Placer Hall
6000 J Street
Sacramento, CA 95819-6129

CONTENTS

FIGURES

TABLES

CONVERSION FACTORS, VERTICAL DATUM, WATER-QUALITY INFORMATION, ABBREVIATIONS, AND WELL-NUMBERING SYSTEM

Conversion Factors

Multiply	By	To obtain
acre-foot (acre-ft)	1,233	cubic meter
acre-foot per year (acre-ft/yr)	1,233	cubic meter per year
acre-foot per day (acre-ft/d)	1,233	cubic meter per day
foot (ft)	0.3048	meter
gallon (gal)	3.785	liter (L)
inch (in.)	2.54	centimeter
inch (in.)	25.4	millimeter
mile (mi)	1.609	kilometer
square mile (mi^2)	2.590	square kilometer

Temperature is given in degrees Celsius (°C), which can be converted to degrees Fahrenheit (°F) by the following equation:

$$°F=1.8(°C)+32.$$

Vertical Datum

Sea Level: In this report, "sea level" refers to the National Geodetic Vertical Datum of 1929—a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929.

Water-Quality Information

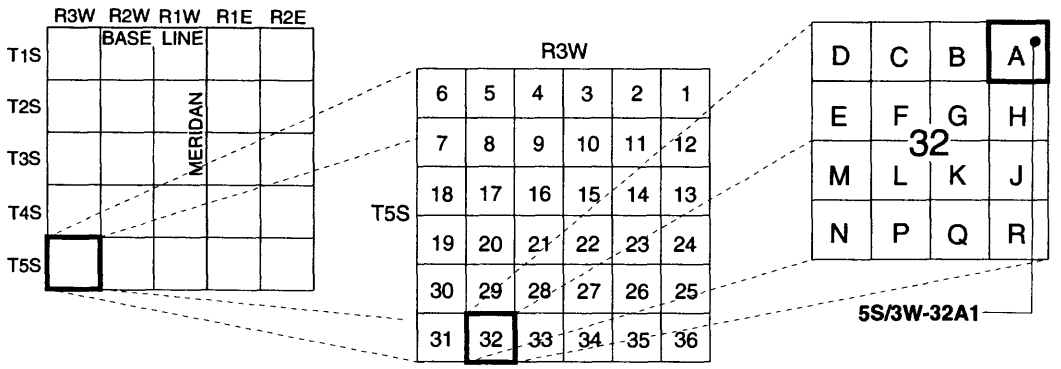
Chemical concentrations are given in milligrams per liter (mg/L) or micrograms per liter (µg/L). Milligrams per liter is approximately equivalent to parts per million; micrograms per liter is approximately equivalent to parts per billion.

Abbreviations

EMWD	Eastern Municipal Water District
MWD	Metropolitan Water District
USGS	U.S. Geological Survey
RCFCD	Riverside County Flood Control and Water Conservation District
RWRF	Regional Water-Reclamation Facility
µS/cm	microsiemen per centimeter at 25°Celsius
gal/min	gallons per minute
gal/d	gallons per day
ft/d	foot per day

Well-Numbering System

Wells are identified and numbered according to their location in the rectangular system for the subdivision of public lands. Identification consists of the township number, north or south; the range number, east or west; and the section numbers. Each section is divided into sixteen 40-acre tracts lettered consecutively (except I and O), beginning with "A" in the northeast corner of the section and progressing in a sinusoidal manner to "R" in the southeast corner. Within the 40-acre tract, wells are sequentially numbered in the order they are inventoried. The final letter refers to the base line and meridian. In California, there are three base lines and meridians; Humboldt (H), Mount Diablo (M), and San Bernardino (S). All wells in the study area are referenced to the San Bernardino base line and meridian (S). Well numbers consist of 15 characters and follow the format 005S003W32A001S. In this report, well numbers are abbreviated and written 5S/3W-32A1. Wells in the same township and range are referred to by only their section designation, 32A1. The following diagram shows how the number for well 5S/3W-32A1 is derived.



WELL-CONSTRUCTION, WATER-QUALITY, AND WATER-LEVEL DATA, AND POND-INFILTRATION ESTIMATES, FOR THREE GROUND-WATER SUBBASINS, RIVERSIDE COUNTY, CALIFORNIA

By Carmen A. Burton, Charles A. Kaehler, *and* Allen H. Christensen

Abstract

Reclaimed water in the Eastern Municipal Water District of Riverside County, California, is used within the service area for agricultural irrigation. Owing to the seasonal demand for reclaimed water, storage/infiltration ponds were constructed in the Winchester, Menifee, and south Perris subbasins. Reclaimed water infiltrates from these ponds and enters the ground-water system. Little is known of the effects of the reclaimed water on ground-water quality. In cooperation with the Eastern Municipal Water District, the U.S. Geological Survey began a study in 1995 to determine the quantity and fate of reclaimed water percolating from these storage ponds. Data compiled during the first phase of this study are presented in this report.

Field reconnaissance of the Winchester, Menifee, and south Perris subbasins indicated the existence of many wells. Well-construction data for 115 of these wells were tabulated. Available historical water-quality and water-level data for 178 wells in the subbasins also were tabulated. In addition, water levels in 86 wells were measured during the spring and autumn of 1995. On the basis of these data, water-level contour lines were drawn and the direction of ground-water flow was determined. Three lithologic sections through the subbasins were constructed from drillers' logs of 26 wells.

Water-level data were collected from one pond at each of the three storage-pond sites. Water-level data and evaporation data, for periods of no pumped inflow or pumped outflow, were used to estimate an infiltration rate of -0.18 to -0.15 acre-feet/day (upward percolation) for Sun City pond no. 9 during August 3-September 15, 1995, and a rate of 0.72 acre-feet/day for Trumble Road pond during September 11-12, 1995. For Winchester pond B, a rate of -5.35 acre-feet/day was estimated for July 28-August 19, 1995, during which time pumped inflow and outflow were measured. The Trumble Road pond estimate was made on the basis of nighttime measurements and assumes negligible evaporation.

The upward percolation of water in Sun City pond no. 9 and Winchester pond B probably resulted from the pumped lowering of the water level in the ponds to an altitude below the local water-table altitude, followed by a gradual rise as the pond level equilibrated with the water-table altitude. The range of values and direction of infiltration may be indicative both of the variability of infiltration rates at different sites (and under different conditions) and the possible error ranges of the measured parameters used in calculating infiltration. At any of the sites, infiltration rates during times when the ponds are at high stage are likely to be different from the rates estimated using primarily low-stage data.

INTRODUCTION

Artificial recharge of ground water with reclaimed water has been an increasingly important topic for study in recent years as the need for reuse of water has grown. Two common mechanisms of artificial recharge of ground water are percolation of reclaimed water from infiltration ponds and percolation of reclaimed water applied as irrigation.

Several studies have shown that the effects of artificial recharge with reclaimed water on ground-water conditions vary from site to site. In a study in the Livermore-Amador Valley in Alameda County, California, ground-water quality was found to be degraded in all areas where reclaimed water was applied (Sylvester, 1983). In an aquifer near Tallahassee, Florida, increases in nitrate and chloride concentrations were attributed to irrigation with reclaimed water (Pruitt and others, 1988). Surfactant-derived residues (that is, methylene blue activated substances) also have been detected in ground water affected by recharge areas (Field and others, 1992a,b). In contrast, results of a study at East Meadow, Long Island, New York, suggest that recharging with reclaimed water decreased concentrations of nitrate-nitrogen and several low-molecular-weight hydrocarbons, thereby improving ground-water quality (Schneider and others, 1987).

Statement of the Problem

The Eastern Municipal Water District (EMWD), located in southwestern Riverside County, California, serves a population of 350,000 in a service area that exceeds 550 mi^2. The EMWD provides both domestic and irrigation water and operates five regional water-reclamation facilities (RWRF's). In 1995, the five RWRF's had a combined reclaimed-water production of 31,900 acre-ft/yr, all of which is used within the EMWD service area—mostly for agricultural irrigation or irrigation of golf courses. Because demand for the reclaimed water is seasonal, three storage/ infiltration-pond sites have been constructed: near the town of Winchester; at the Sun City RWRF; and at the Perris RWRF (including the Trumble Road pond) (fig.1). It is estimated by EMWD that about 13,000 acre-ft of reclaimed water is lost annually, incidental to the operation of the storage ponds, as a result of evaporation and percolation to the ground-water system. The ponds near Winchester and at Sun City RWRF are located in subbasins in which the ground water is characterized by high dissolved-solids concentration. The quality of reclaimed water percolating from those ponds is better than that of the ground water.

Purpose and Scope

In 1995, the U.S. Geological Survey (USGS), in cooperation with EMWD, began a study to determine the quantity and fate of water percolating from the reclaimed-water storage/infiltration ponds to the ground-water system. Although some of the ponds have been in operation for 33 years, little is known about the effects of recharge from the ponds on ground water. The purposes of this report are to present (1) data on historical water quality, historical and current water levels, and construction of existing wells; (2) borehole-lithologic descriptions and depth-to-bedrock data; and (3) pond water-level data and infiltration estimates. These data will be useful for future interpretative reports from this study. In addition, general directions of ground water flow in the three subbasins were determined, on the basis of water-level data collected during the study. Water-level contour maps are presented in this report.

Acknowledgments

The authors gratefully acknowledge the help of Jeffrey Hale, Alfred Javier, Stephen Crombie, and other EMWD personnel for their help in compiling the data presented in this report, for permitting use of EMWD equipment, and for providing access to EMWD facilities. The authors also acknowledge the many well owners for their cooperation in obtaining water-level measurements and collecting water samples.

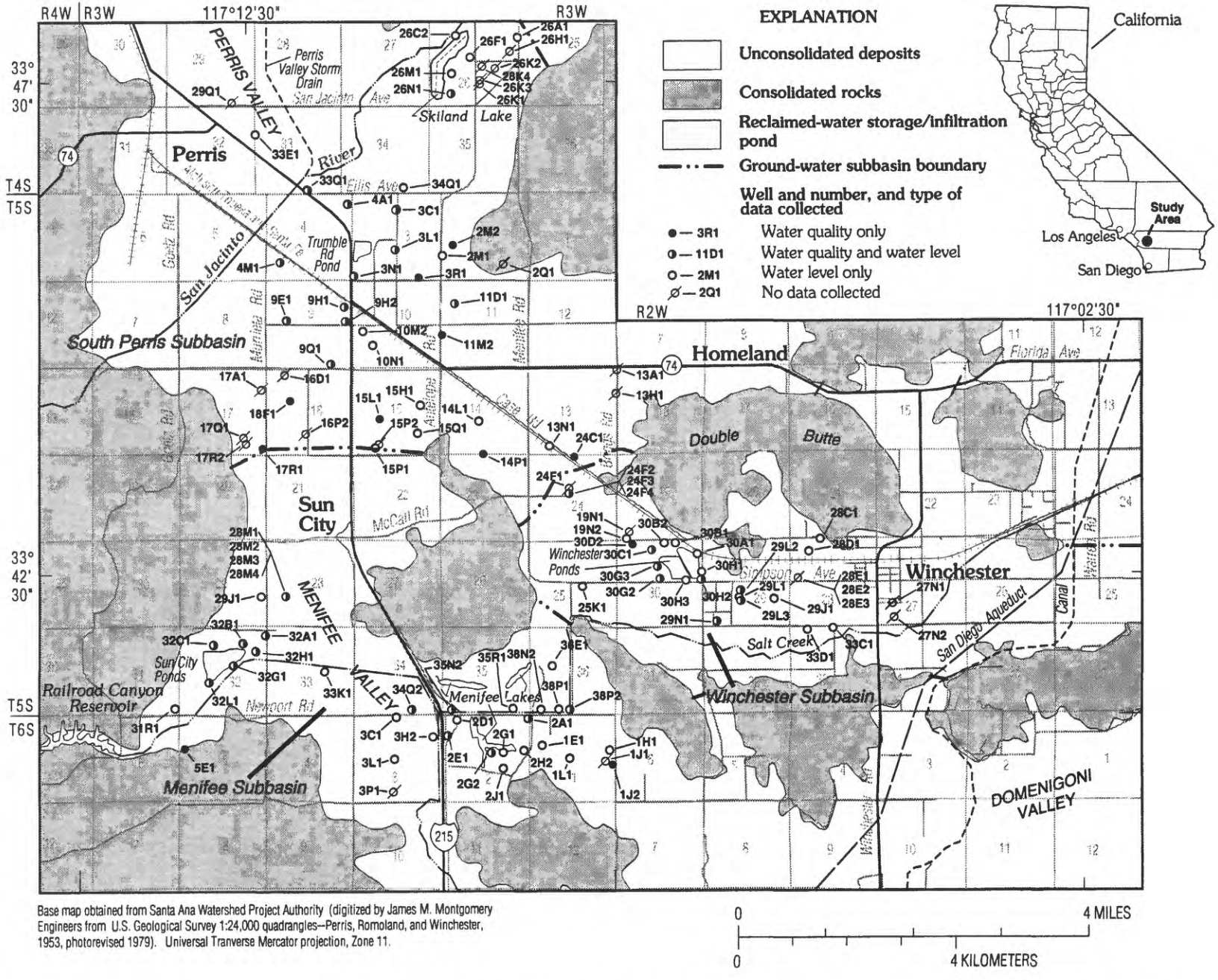


Figure 1. Location of study area and selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California.

DESCRIPTION OF THE STUDY AREA

The study area includes all or part of the ground-water subbasins in which the three storage ponds are located: the Winchester subbasin, the Menifee subbasin, and the south Perris subbasin (fig.1). The Winchester ground-water subbasin is about 25 mi southeast of Riverside, California, in the upper Santa Ana River drainage basin. The 13-mi^2 subbasin (California Department of Water Resources, 1979) is bounded by granitic and undifferentiated metamorphic rocks (California Department of Water Resources, 1959). The boundaries of the Winchester subbasin coincide with surface-water-drainage divides, except in areas where valley-floor alluvium is contiguous with neighboring basins. The boundary with the south Perris subbasin to the northwest is arbitrarily selected (California Department of Water Resources, 1979) as the valley constriction west of Double Butte. The boundary with the Menifee subbasin to the southwest is the valley constriction 3.5 mi west of Winchester and about 1 mi northeast of Menifee Lakes (fig.1) (California Department of Water Resources, 1979). Saturated alluvium that fills the constrictions connects the subbasins hydraulically in the subsurface. Alluvium in the Winchester subbasin is estimated to be as much as 500 to 800 ft thick in places (Biehler and Lee, 1994; California Department of Water Resources, 1978). Depth to water generally is about 15 to 75 ft (California Department of Water Resources, 1978).

Surface water in the Winchester subbasin drains to ephemeral Salt Creek, which is one of few well-defined drainages in the upper Santa Ana River basin. Salt Creek flows westward from the Winchester subbasin, through the Menifee subbasin, and into Railroad Canyon Reservoir.

The 40-mi^2 Menifee subbasin is bounded by metamorphic rocks on the west and by igneous rocks on the south and east (NBS/Lowry, 1987). The boundary with the Winchester subbasin is to the northeast. The boundary with the south Perris subbasin to the north is arbitrarily set about 1 mi north of Sun City (California Department of Water Resources, 1979). Alluvium in the Menifee sub-basin is about 600 ft thick in the Sun City area and more than 800 ft thick in the vicinity of Menifee Lakes (Biehler and Lee, 1995; NBS/Lowry, 1987).

The 50-mi^2 south Perris subbasin is bounded on the west and east by mostly granitic mountains (Lang, 1979). The south Perris subbasin extends north to the north Perris subbasin, approximately 3 mi north of the study area. The boundaries with the Menifee and Winchester subbasins are to the south and southeast, respectively. Alluvium in the south Perris subbasin is more than 800 ft thick in places, on the basis of drill logs of wells in the subbasin (table 1) and a geophysical study (Biehler and Lee, University of California, Riverside, written commun., 1996). The San Jacinto River, an ephemeral stream, runs southwestward through the subbasin and into the northern end (not shown in fig. 1) of Railroad Canyon Reservoir.

EXISTING WELL-CONSTRUCTION, WATER-QUALITY, AND WATER-LEVEL DATA

Well-Construction Data

The location of 115 wells identified in field reconnaissance of the study area in 1995 is shown in figure 1. Available well-construction information for these wells and depth-to-bedrock data, where applicable, are given in table 1. Because most wells end in alluvium and do not reach bedrock, determination of depth to bedrock solely on the basis of well-log data is difficult. Most wells for observation or for domestic use were constructed with plastic casings, and wells used for irrigation, now or in the past, were constructed with steel casings.

Water-Quality Data

Historical water-quality data compiled from available USGS, EMWD, and well-owner records are given in table 2. The data include physical properties and concentrations of major ions, nutrients, and trace metals. Many of these wells no longer exist and are not shown in figure 1. Generally, only one set of data per site per year from non-USGS sources is given in table 2.

Water-quality analyses of ground-water samples collected from different zones were done at some sites. These data were obtained by two methods. The first method involved the use of

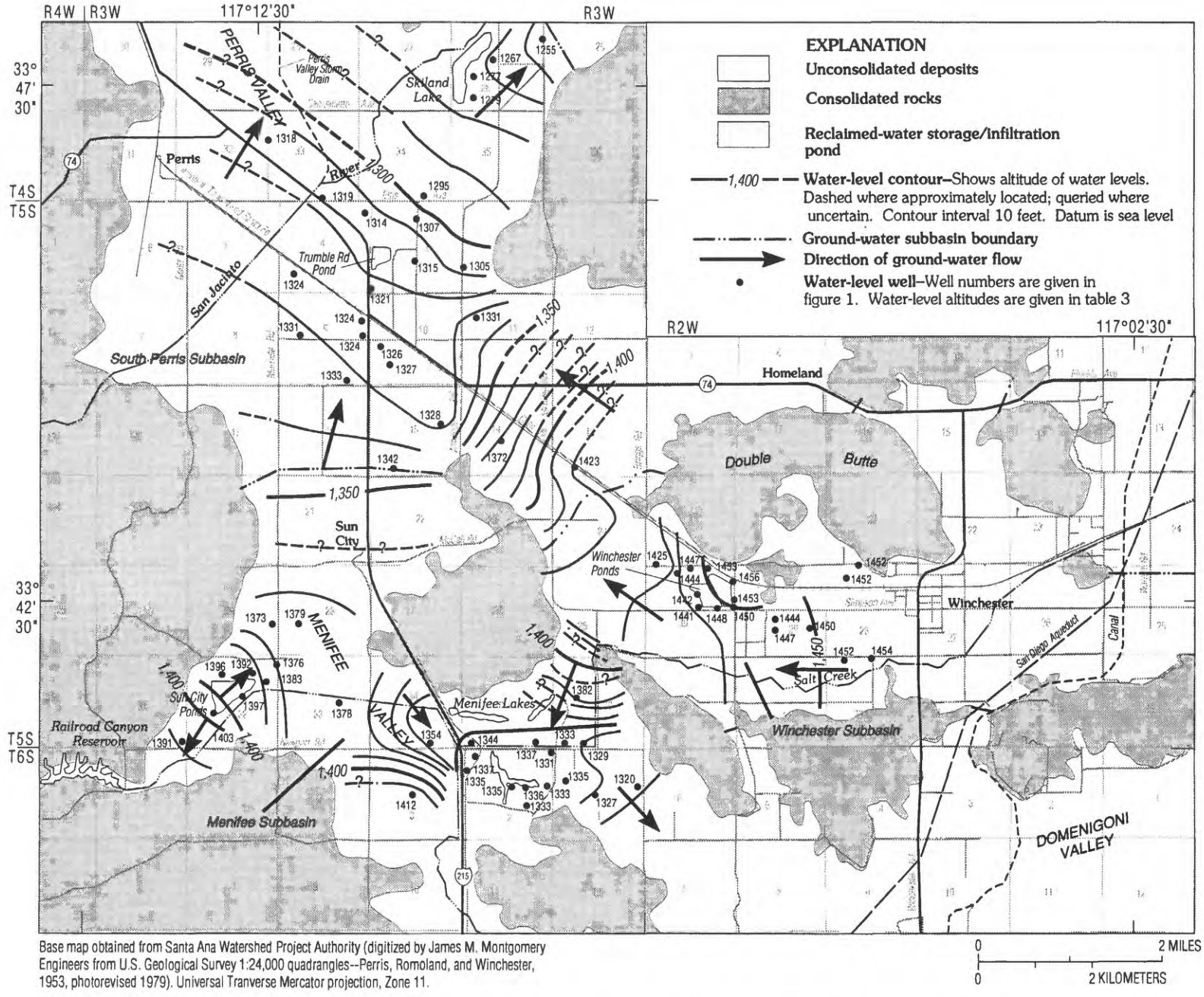


Figure 2. Water levels in the Winchester, Menifee, and south Perris ground-water subbasins, California, March 31 to June 6, 1995.

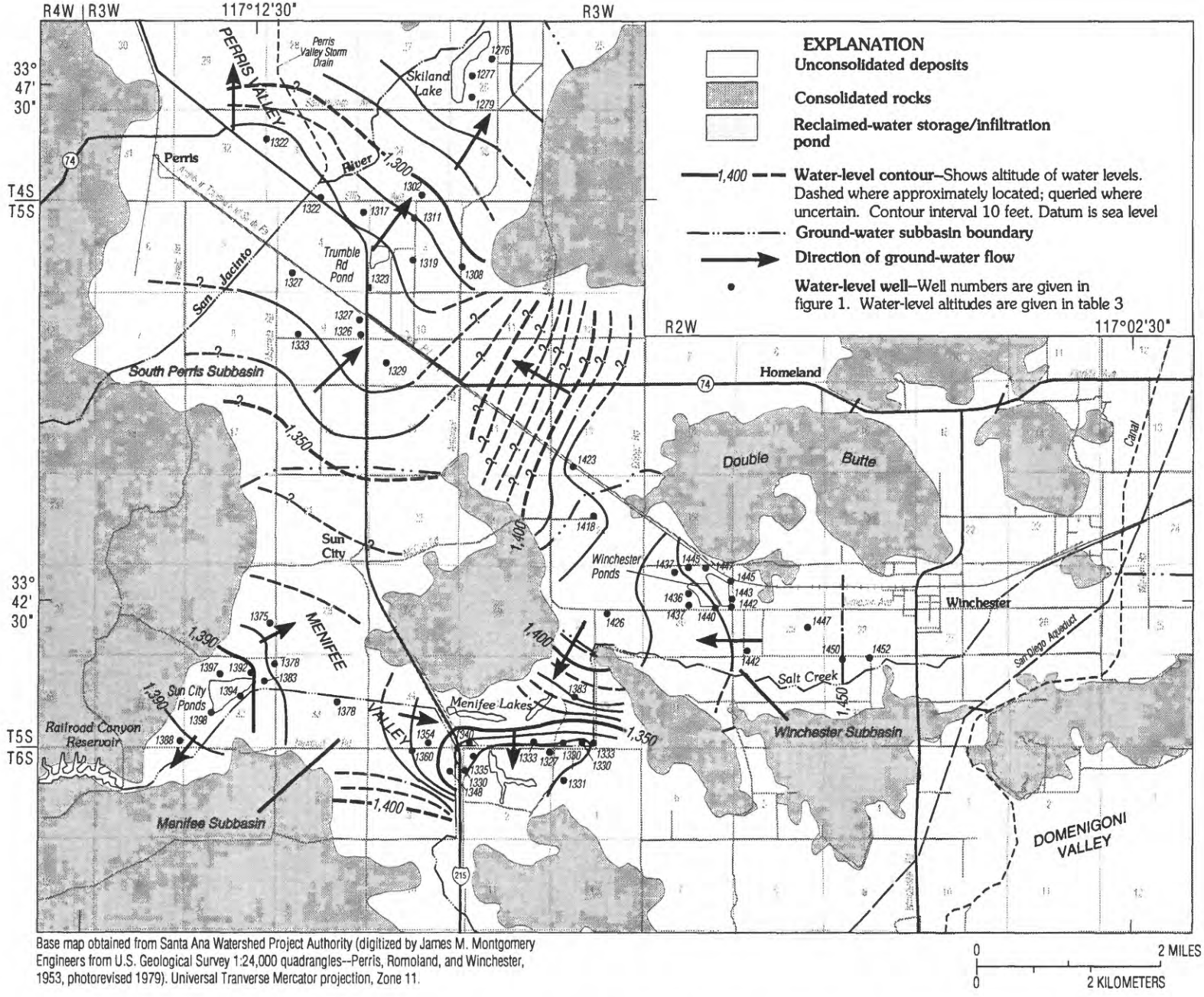


Figure 3. Water levels in the Winchester, Menifee, and south Perris ground-water subbasins, California, September 1995.

nested piezometers. Three or four 2-inch-diameter well casings with screened intervals at different depths (separated by bentonite grout) were placed in the same borehole. This method was used by the USGS at two sites: wells 5S/3W-28M1, -28M2, -28M3, and -28M4, and wells 5S/3W-24F2, -24F3, and -24F4. The second method involved the use of inflatable packers placed in multiple-screened casings above and below the desired zone or zones. This method was used by EMWD at five sites: wells 5S/3W-35N2 and -36P2, and wells 6S/3W-2A1, -2D1 and -2E1. Bentonite grout was used in the annulus to separate the screened intervals in wells 5S/3W-35N2 and -36P2. For wells 6S/3W-2A1, -2D1, and -2E1 the screened intervals were connected by gravel in the annulus.

Water-Level Data

Water levels in 86 wells were measured during reconnaissance of the study area in 1995 using a steel tape or a calibrated electric sounder. These data, along with historical water-level data collected over several years, are given in table 3. Generally, for wells that had numerous historical measurements, only one or two measurements per year (usually spring and (or) autumn) are included.

Water levels in wells measured during March 31-June 6, 1995, and again in September 1995, were used to prepare water-level-contour maps (figs. 2 and 3). These contour maps then were used to determine the direction of ground-water flow. Flow is northwestward from the the Winchester subbasin into the south Perris subbasin and southwestward into the Menifee subbasin toward Menifee Lakes. From Menifee Lakes, flow is southeastward. From a ground-water divide near the southwest corner of Sun City storage/infiltration ponds in the Menifee subbasin, ground water flows northward toward the south Perris subbasin and southwestward toward Railroad Canyon Reservoir. In the south Perris subbasin, flow is northward into north Perris subbasin and northeastward into the Lakeview subbasin (north of study area; not shown in figures). Very few differences, other than seasonal changes in altitude of the water-level surface, were found between the two sets (March-June 1995 and September 1995) of data.

LITHOLOGIC SECTIONS

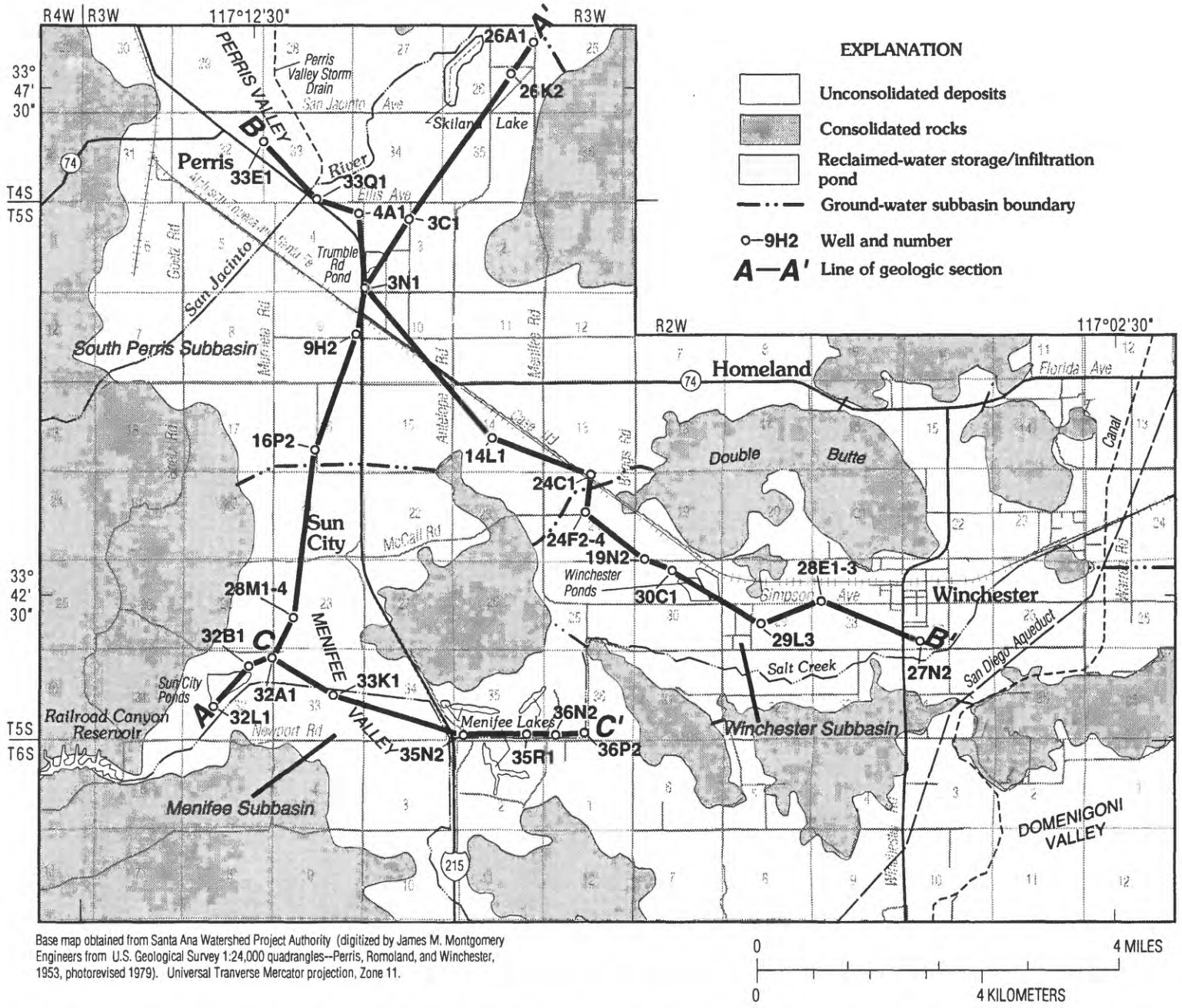
Three generalized lithologic sections (line of sections shown in fig. 4) were constructed to gain a better understanding of the stratigraphy and thickness of alluvial deposits in the Winchester, Menifee, and south Perris subbasins. Alluvial sediment in driller's log descriptions of cuttings was grouped into four categories that are similar to the categories used by Rees and others (1995): (1) fine-grained deposits—including sandy soil, conglomerate, clay with gravel, cemented sand or gravel, and topsoil; (2) sand deposits—including silty sand, silty sand and gravel, and sand with gravel; (3) gravel deposits—including rock and sand, coarse sand and gravel, cobbles, and boulders; (4) lenses of clay, sand, and gravel—including interbedded layers of clay, sand, and (or) gravel. Underlying weathered and unweathered bedrock were grouped into two additional categories, respectively: (5) decomposed granite and (6) granitic basement rock.

The lithology of selected wells along three sections in the study area is shown in figures 5, 6, and 7. Lithologic section *A-A′* (fig. 5) extends from the southwest corner of the Menifee subbasin northeastward through the south Perris subbasin; section *B-B′* (fig. 6) extends from the northwest part of the south Perris subbasin southeastward through the Winchester subbasin; and section *C-C′* (fig. 7) extends west to east through the Menifee subbasin.

POND-INFILTRATION ESTIMATES

A water-budget method was used to estimate the quantity of water infiltrating from selected storage/infiltration ponds. Measurement of unsaturated-zone moisture content, change in unsaturated- and saturated-zone storage, and aquifer specific yield beneath the ponds would have provided information on the rate that water moves through the unsaturated zone (if present), but such work was beyond the scope, instrumentation, and time limitations of the study.

Water-level data were collected from one pond at each of the three storage-pond sites, primarily during July-September 1995. The data-



Base map obtained from Santa Ana Watershed Project Authority (digitized by James M. Montgomery Engineers from U.S. Geological Survey 1:24,000 quadrangles--Perris, Romoland, and Winchester, 1953, photorevised 1979). Universal Tranverse Mercator projection, Zone 11.

Figure 4. Location of lithologic sections *A-A'*, *B-B'*, and *C-C'* in the Winchester, Menifee, and south Perris ground-water subbasins, California.

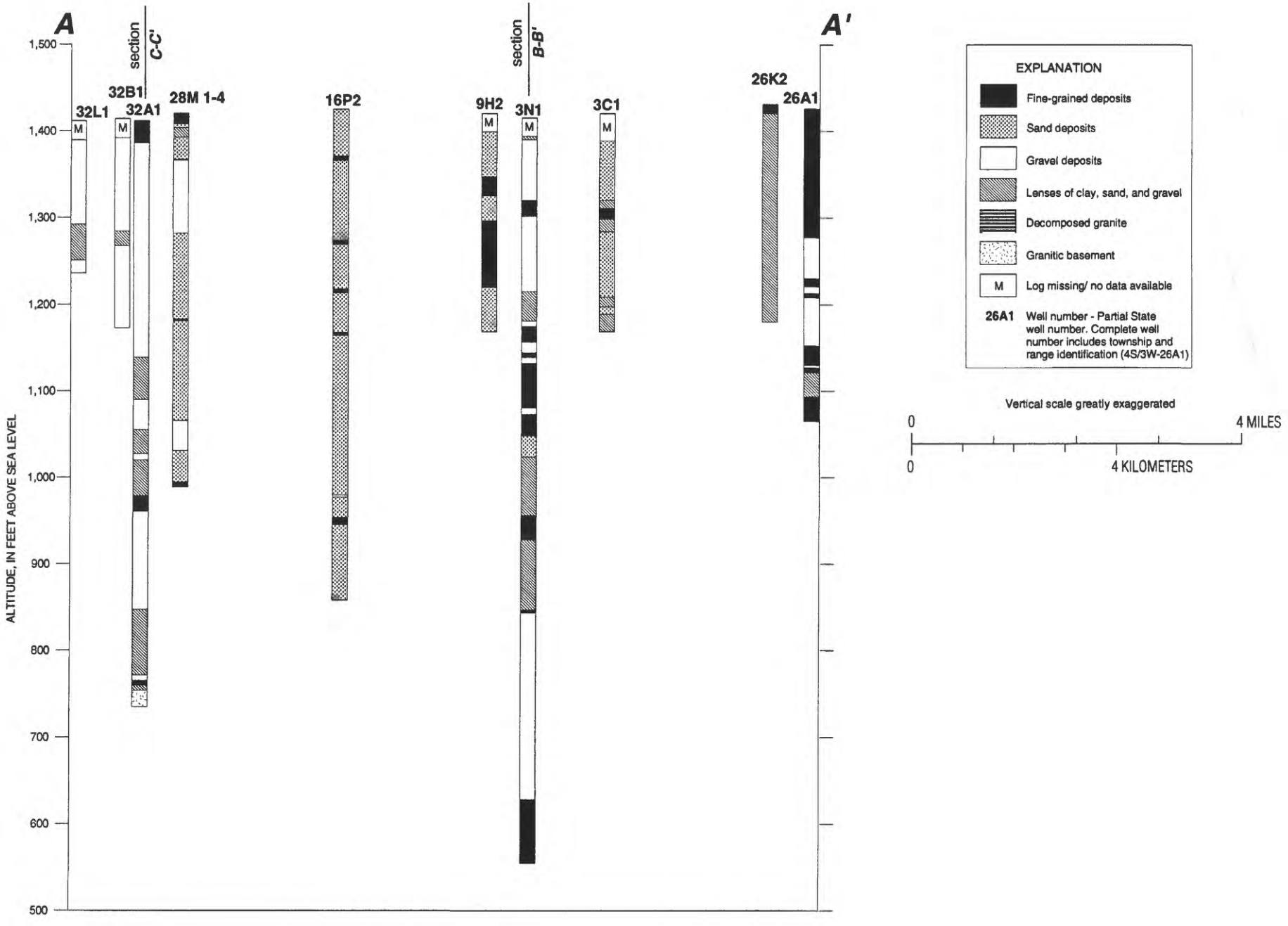


Figure 5. Lithologic section *A-A'* of the Winchester, Menifee, and south Perris ground-water subbasins, California. Line of section is shown in figure 4.

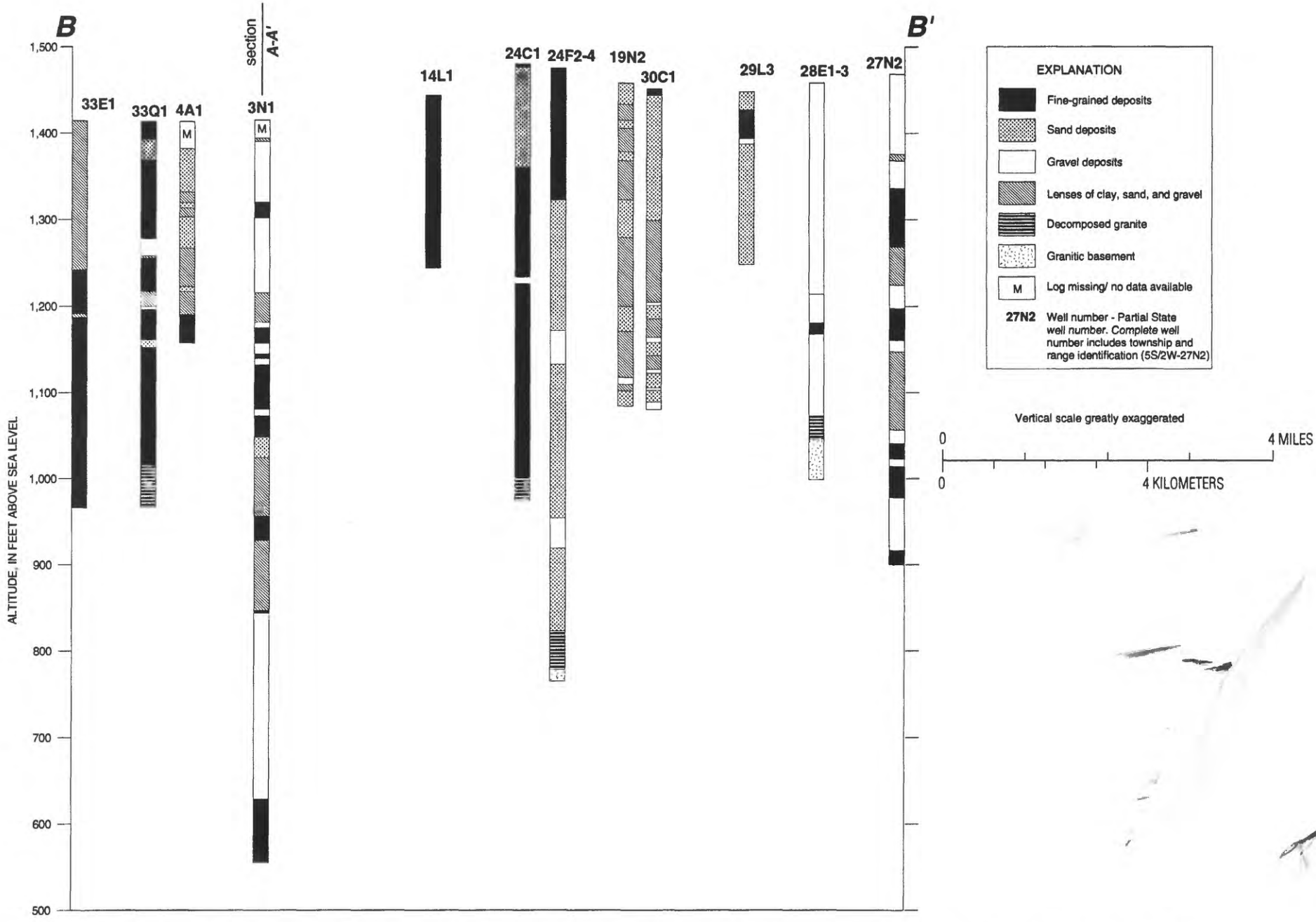


Figure 6. Lithologic section *B-B'* of the Winchester, Menifee, and south Perris ground-water subbasins, California. Line of section is shown in figure 4.

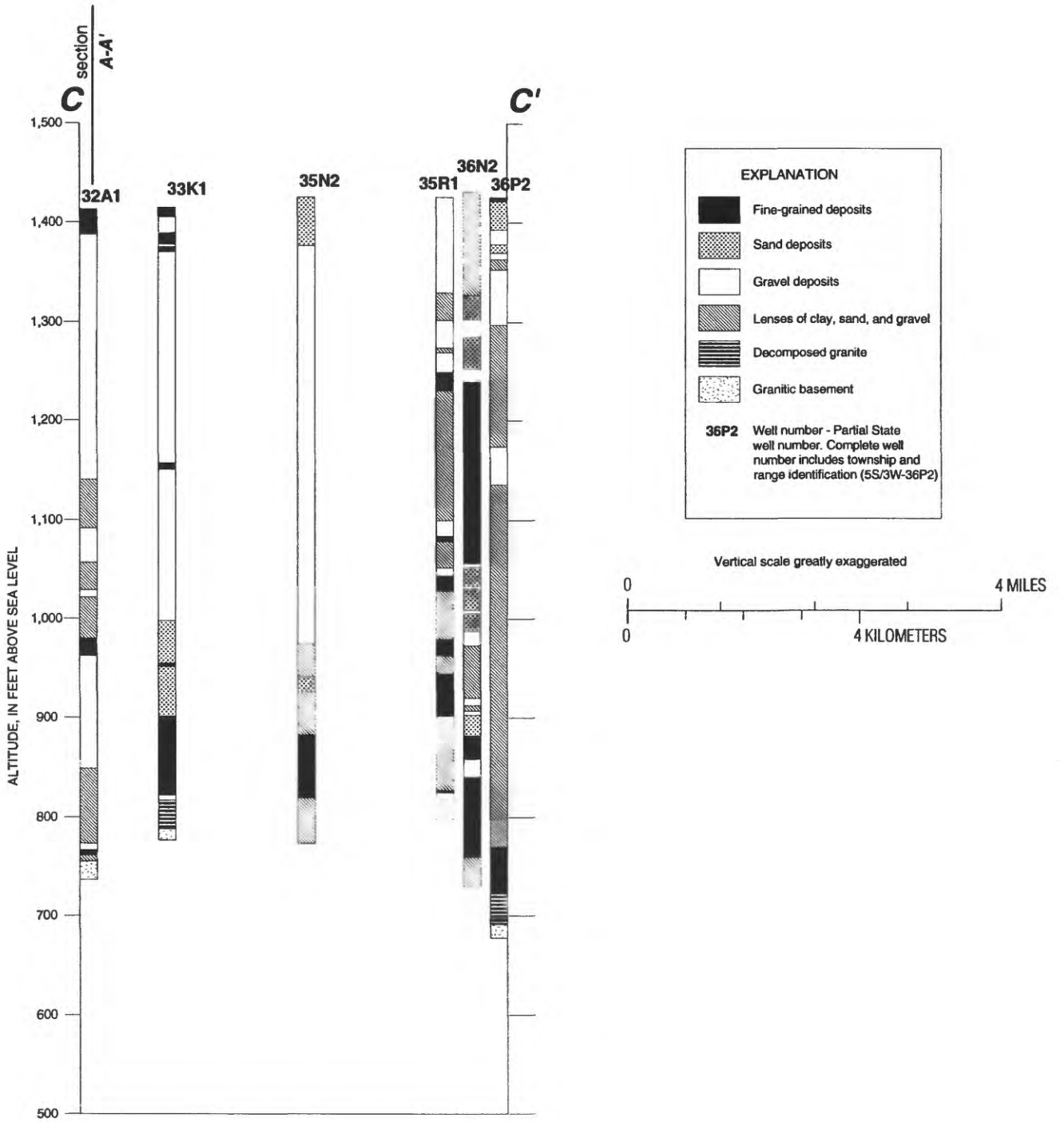


Figure 7. Lithologic section *C-C'* in the Winchester, Menifee, and south Perris ground-water subbasins, California. Line of section is shown in figure 4.

collection time period was limited by the brief timespan of the study. These data were collected using Rittmeyer submersible pressure transducers installed in 2-inch-diameter stilling wells and connected to Stevens AXSYS SDI-12 data loggers. The transducer data were calibrated against periodic staff-gage measurements of pond levels. Pond infiltration for a chosen time period was estimated using a water-balance equation:

Volume infiltrated = [(starting volume in pond) - (ending volume in pond)] + [(volume pumped into pond) - (volume pumped out of pond)] - (evaporation) + (rainfall). (1)

Starting and ending volumes were determined using the measured pond water levels in conjunction with pond-level/pond-volume conversion tables or graphs provided by EMWD. Volumes pumped into and out of ponds also were measured by EMWD. Evaporation was measured near Lake Skinner at Tucalota Creek, 8 mi south of Winchester, by Metropolitan Water District of Southern California (MWD) using a U.S. Weather Bureau Class A pan. A pan coefficient of 0.7 was applied to convert the measured pan value to an estimated value for a lake or reservoir, as is common practice (Veihmeyer, 1964, p. 11-7).

The methods used to calculate the components of equation 1 varied slightly for each of the three sites owing to differences in pond operating procedures and available data. The three sites are discussed individually below. In addition, the pond sites differ somewhat in construction. The Sun City and Trumble Road ponds have unlined bottoms and sides, whereas the Winchester ponds have unlined bottoms and compacted-clay or soil-cement sides. Sun City pond no. 9 and the Winchester ponds are about 20 ft deep, and the Trumble Road pond is about 60 ft deep.

Sun City Ponds

Pond no. 9 at the Sun City RWRF (fig. 8*A*) was instrumented with a Rittmeyer Series MPSDI submersible pressure transducer placed in a 2-inch-diameter stilling well and connected to a Stevens AXSYS SDI-12 data logger in June 1995. This pond was chosen because during normal operation the pond is not pumped, and the only inflow it receives is occasional overflow from pond no. 8 during the winter months; thus, the number of variables needed to calculate outflow in the form of infiltration to ground water is reduced. However, at about the same time the instrumentation was installed, the pond was pumped (June 1-July 24, 1995) to lower the water level of the pond and the immediately adjacent water table in preparation for construction of a buried pipeline next to the pond.

Pond water levels, measured in pond no. 9 beginning 10 days after pumping ceased, rose 0.68 ft during August 3-September 15, 1995 (fig. 9 and table 4). During this period, no water was pumped into or out of the pond; therefore, the rise in water level represents the combined effects of upward percolation of ground water, minus evaporation, plus rainfall. The upward percolation of water probably is the result of the lowering of the water level in pond no. 9, during pumping, to an altitude below the local water-table altitude (figs. 10*A* and 11*A*), followed by a gradual rise as the pond level equilibrated with the water-table altitude.

The local water table (and pond no. 9 water level) probably was influenced by infiltration of water from pond no. 8 and pond no. 7 (fig. 8*A*), which were kept relatively full. Generally, treated water is pumped from the RWRF to ponds nos. 1-4, and then pumped to pond no. 7 approximately twice per week. During the winter, some of this water cascades, at times, into pond no. 8 and pond no. 9. Shown in table 5 are water-level altitudes in observation wells near the Sun City ponds for April-September 1995. It should be noted that although these wells are perforated at a depth of 200 to 220 ft, which is about 180 ft below the water table, the water levels nevertheless might be representative of the water table rather than a deeper confined aquifer (except for well 5S/3W-32A1, which is perforated at a depth of 560 to 580 ft). The decline in water level in well 5S/3W-32L1 (table 5) probably was influenced by the pumped decline in water level in pond no. 9; conversely, the rise in water level in well 5S/3W-32C1 probably is related to the twice-weekly addition of treated water to pond no. 7. (These additions kept the pond relatively full.) The second largest decline in water level, in well 5S/3W-32G1 (table 5; fig. 8*A*), probably reflects the dry status of pond no. 1 and pond no. 5 during the measurement period. The rise in water level of 1.61 ft in well 5S/3W-32A1 may be indicative of regional change in a deeper aquifer.

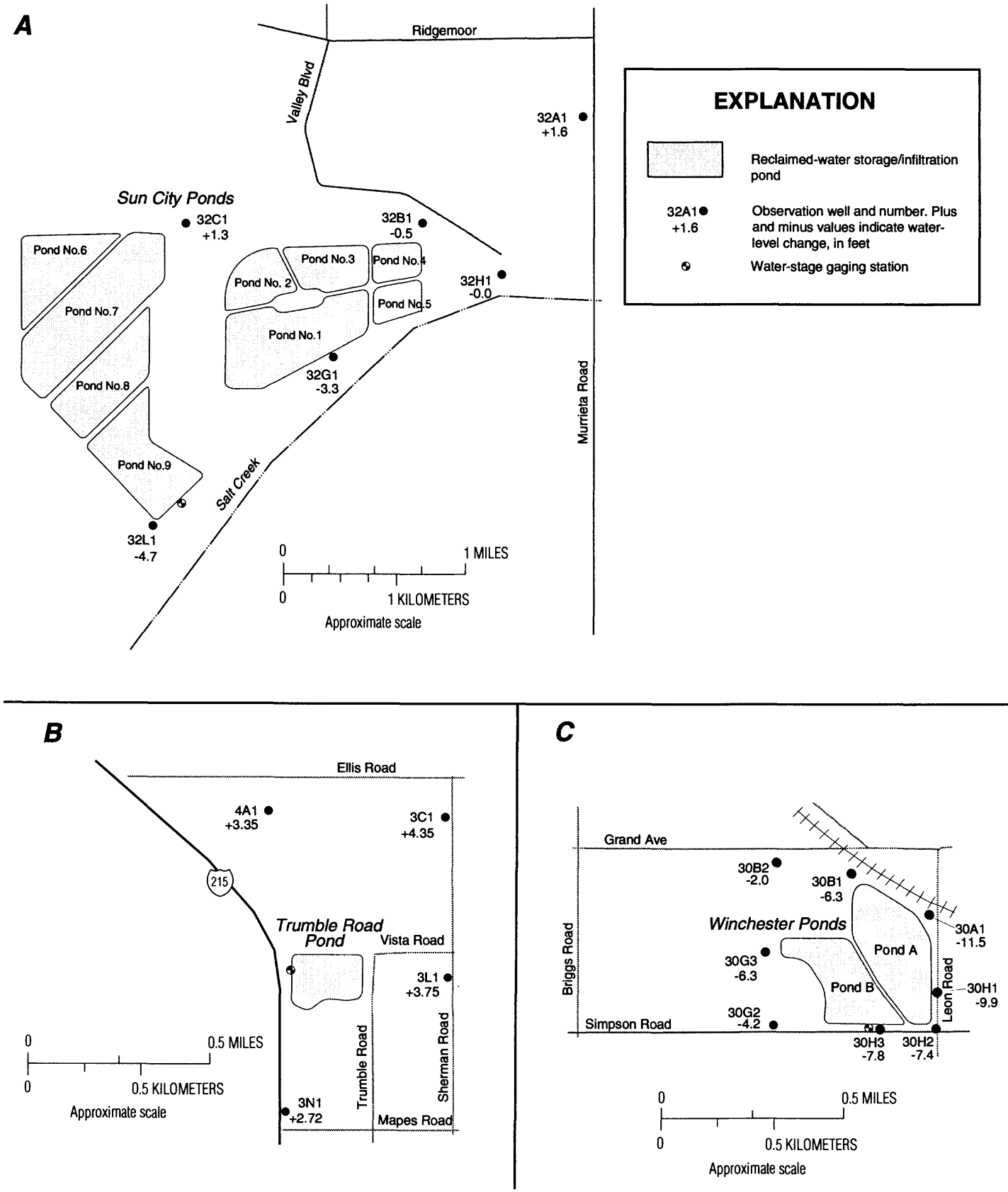


Figure 8. Pond sites, ground-water-level changes, and location of observation wells and water-stage gaging stations. **A.** Sun City site; ground-water-level change from 4/25/95 to 9/13/95; **B.** Trumble Road site; ground-water-level change from 3/31/95 or 4/14/95 to 9/11/95 or 9/13/95; **C.** Winchester site; ground-water-level change from 5/11/95 or 5/23/95 to 9/11/95 or 9/13/95. (See figure 1 for site locations.)

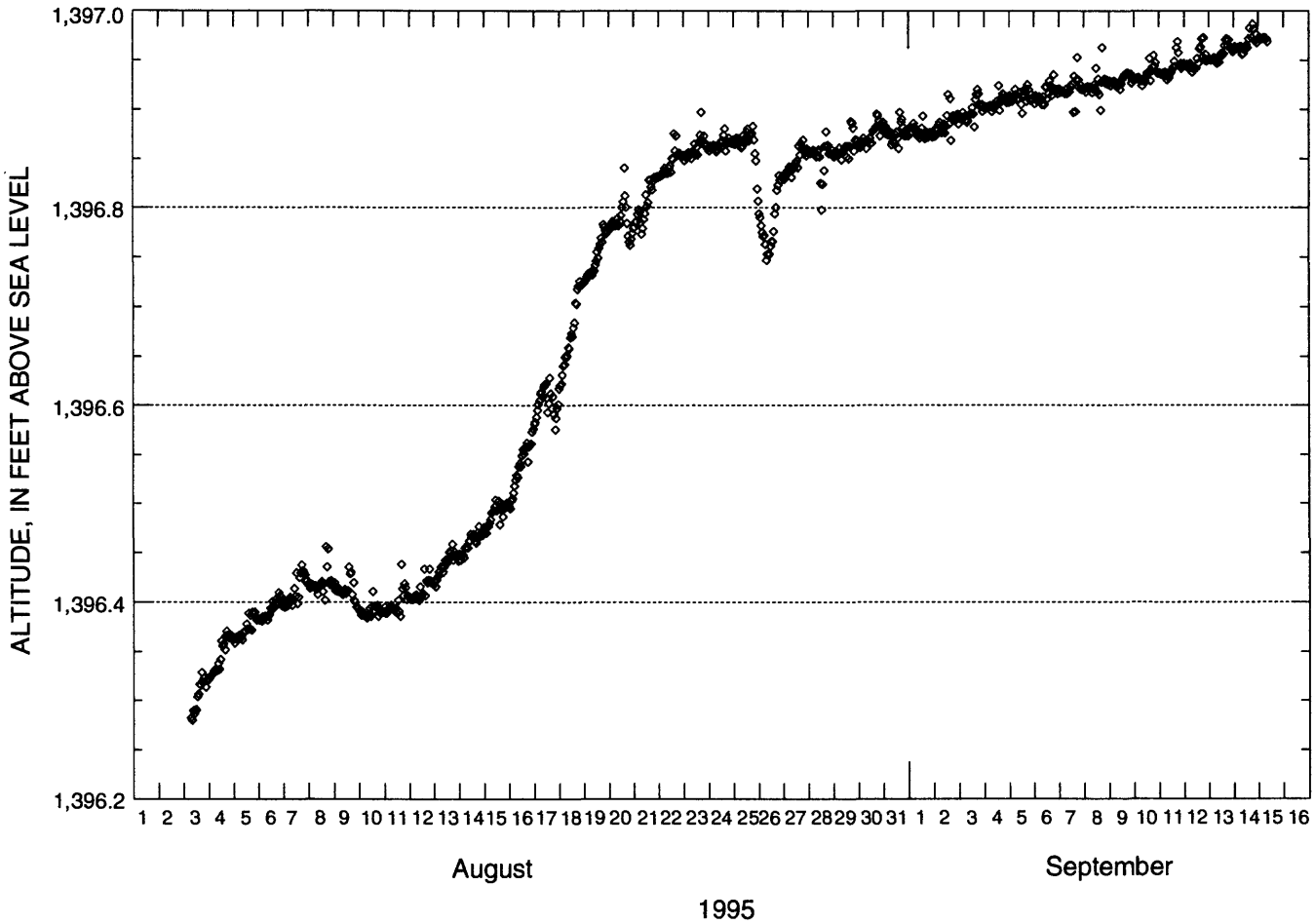


Figure 9. Water-level altitudes in Sun City pond no. 9, August 3 to September 15, 1995.

The purpose in measuring water levels in pond no. 9 was to use the change in volume of water in a water-balance equation, and to solve for the volume of water that infiltrated from the pond. For the period August 3 to September 15, 1995 (fig. 9), no water was pumped into or out of the pond and there was no rainfall; therefore, equation 1 becomes:

Volume infiltrated = [(starting volume in pond) - (ending volume in pond)] - (evaporation). (2)

Water levels in the pond were converted to volumes using a pond-stage/pond-volume conversion table (table 6) provided by EMWD (Alfred Javier, EMWD, written commun., 1996):

Water level on August 3, 1995 (8 a.m.) = 1,396.28 ft;
water level on September 15, 1995 (8 a.m.) = 1,396.97 ft.

From table 6: For pond stage of 1,396.5 ft, pond volume = 10,500,000 gal = 1,403,700 ft^3; and for pond stage of 1,396.0 ft, pond volume = 9,600,000 gal = 1,283,400 ft^3.

Rate of change = 120,300 ft^3 per 0.5 ft of water-level change = 240,600 ft^3/ft of water-level change.

Therefore, pond volume at a pond stage of 1,396.28 ft = (1,283,000 ft^3) + (0.28 ft × 240,600 ft^3/ft) = 1,350,000 ft^3.

From table 6: For pond stage of 1,397.0 ft, pond volume = 11,300,000 gal = 1,511,000 ft^3; and for pond stage of 1,396.5 ft, pond volume = 10,500,000 gal = 1,404,000 ft^3.

Rate of change = 107,000 ft^3 per 0.5 ft of water-level change = 214,000 ft^3/ft of water-level change.

Therefore, pond volume at a pond stage of 1,396.97 ft = (1,511,000 ft^3) - (0.03 ft × 214,000 ft^3/ft) = 1,505,000 ft^3.

Evaporation for August 3 to September 15, 1995, was estimated by multiplying the summed daily pan- evaporation values, measured by Metropolitan Water District (MWD) at Tucalota Creek near Lake Skinner (about 13 mi southeast of Sun City), by the appropriate rate of volume change at the prevailing water-level altitude in pond no. 9 and by a pan coefficient of 0.7:

Feet of evaporation = (14.23 in) × (0.7) = 9.96 in = 0.83 ft;

Rate of pond-volume change at 1,396 to 1,397 ft altitude = (240,600 ft^3/ft + 214,000 ft^3/ft)/2;

Volume evaporated = (0.83 ft) × [(240,600 ft^3/ft + 214,000 ft^3/ft)/2] = 188,700 ft^3.

Substitution into equation 2 gives:

Volume infiltrated = [(1,350,000 ft^3) - (1,505,000 ft^3)] - (0.83 ft × 227,300 ft^3/ft) = [-155,000 ft^3] - (188,700 ft^3) = -343,700 ft^3 = -7.89 acre-ft.

The average rate of infiltration for August 3-September 15 is -0.18 acre-ft/d (upward infiltration.) The average rate for August 28 to September 15, a period of constant rate of water-level change (fig. 9), is -0.15 acre-ft/d. The above infiltration rates were estimated using data collected during conditons of low pond stage and probably are not representative of conditions at higher stage. Ranges in possible error in the estimates are discussed in the section "Uncertainties in Infiltration Estimates."

The calculation of infiltration rate is dependent, in part, on the accuracy of the evaporation estimates. As an alternative to using pan-evaporation rates, water-level altitudes for three 5-day periods for pond no. 9 were examined to see if the daytime/nighttime difference in rate of water-level change could be used to estimate evaporation. The data for three 5-day periods (fig. 12; table 7) did not show the expected daily increased rate of water-level rise at night when evaporation might be considered to be negligible (or at least greatly reduced). Instead, the peak daily water-level altitudes usually occurred between 1300 and 2000, a period that generally includes the hottest and windiest times of day. Therefore, this method for estimating evaporation was not used. Possible theoretical explanations (and arguments against them) for the observed timing of daily peak water levels may be (1) water added to other ponds at the site once per day (water was added only three times [to pond no. 7] during the 15 days); (2) rainfall at about the same time every day (there was no rainfall on any of the days); (3) wind-driven water "piling up" toward one side of the pond; (4) transducer error caused by heating of the cable by air-temperature increases (peaks do not correspond as closely as would be expected to daylight hours); (5) tidal effects (the response does not appear to be diurnal); or, (6) barometric-pressure effects. In essence, an adequate explanation for the observed pattern of daily water-level rises has not been found, but some effect related to temperature or wind appears to be most likely.

Trumble Road Pond

The single pond at the Trumble Road site (fig. 8*B*) was instrumented with a Rittmeyer Series MPSDI submersible pressure transducer placed in a 2-inch-diameter stilling well and connected to a Stevens AXSYS SDI-12 data logger, and water-level data were collected during July 22-September 27, 1995. This period was chosen, in part, because no water was pumped into the pond after the beginning of July. The data (fig. 13; table 8) show a decline in water level of about 30 ft during the period. The drawdown was caused in large part by continuous pumping of the pond at a rate of approximately 960 to 1,030 gal/min. Direction of ground-water movement in the vicinity of the pond did not vary seasonally as much as at the Sun City and Winchester sites (figs. 10 and 11).

The exception to continuous pumping was one 24-hour period—from 0914 on September 11, 1995, to 0930 on September 12, 1995—when the pond operators were able to shut down the pump. Water-level data for this period of reduced number of inflow and outflow variables can be seen as a relatively flat section in the graph in figure 13 and are shown in detail in figure 14. The rate of infiltration, estimated on the basis of the slope of line segment CD (12 hours) in figure 14, is 0.72 acre-ft/d (equivalent to 260 acre-ft/yr and 235,000 gal/d), and was estimated as follows:

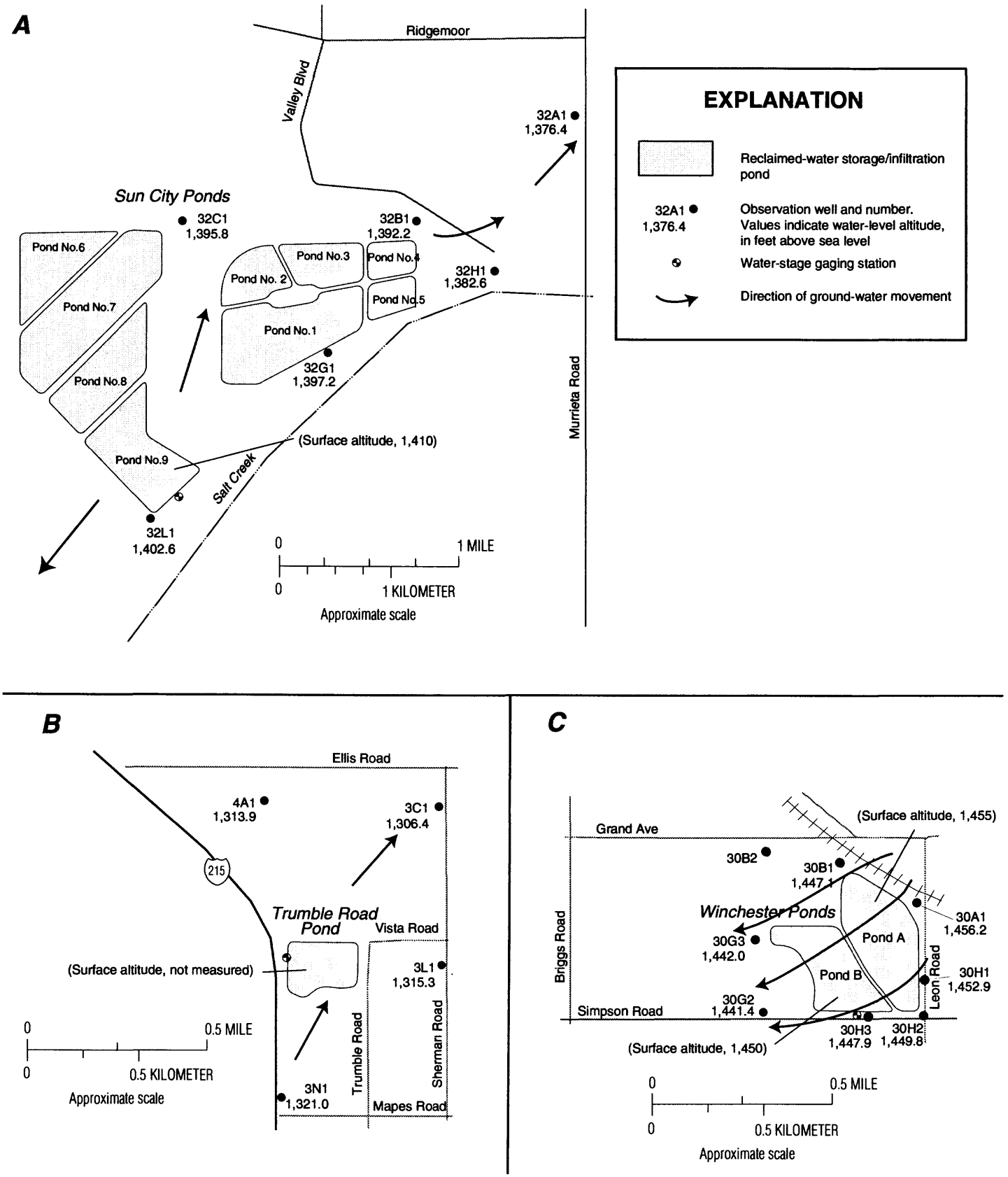


Figure 10. Water-level altitudes, spring 1995. ***A.*** Sun City site, 4/25/95; ***B.*** Trumble Road site, 3/31/95; ***C.*** Winchester site, 5/11/95 to 5/23/95. (See figure 1 for site locations.)

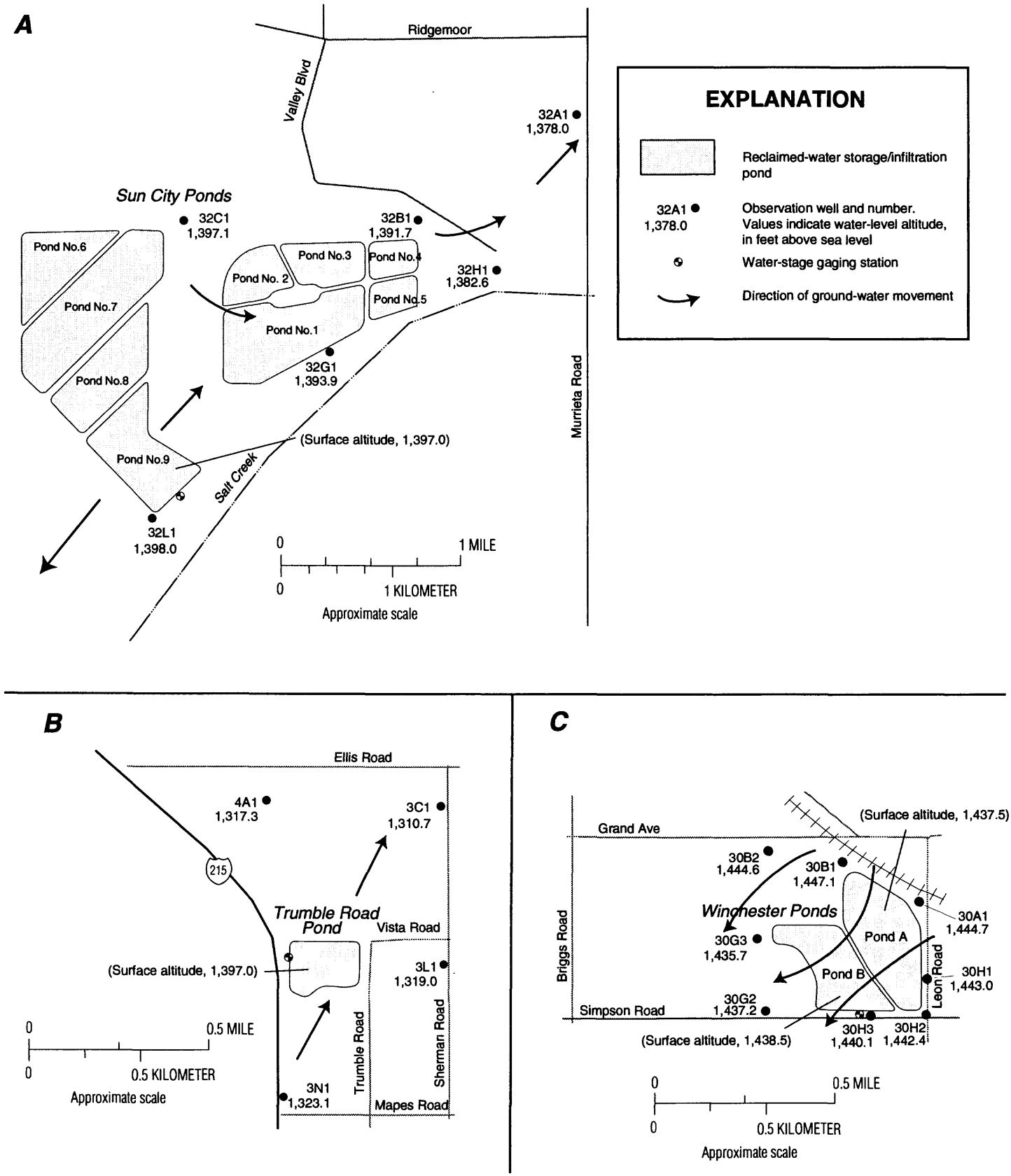


Figure 11. Water-level altitudes, autumn 1995. ***A.*** Sun City site, 9/13/95; ***B.*** Trumble Road site, 9/11/95; ***C.*** Winchester site, 9/11/95 to 9/13/95. (See figure 1 for site locations.)

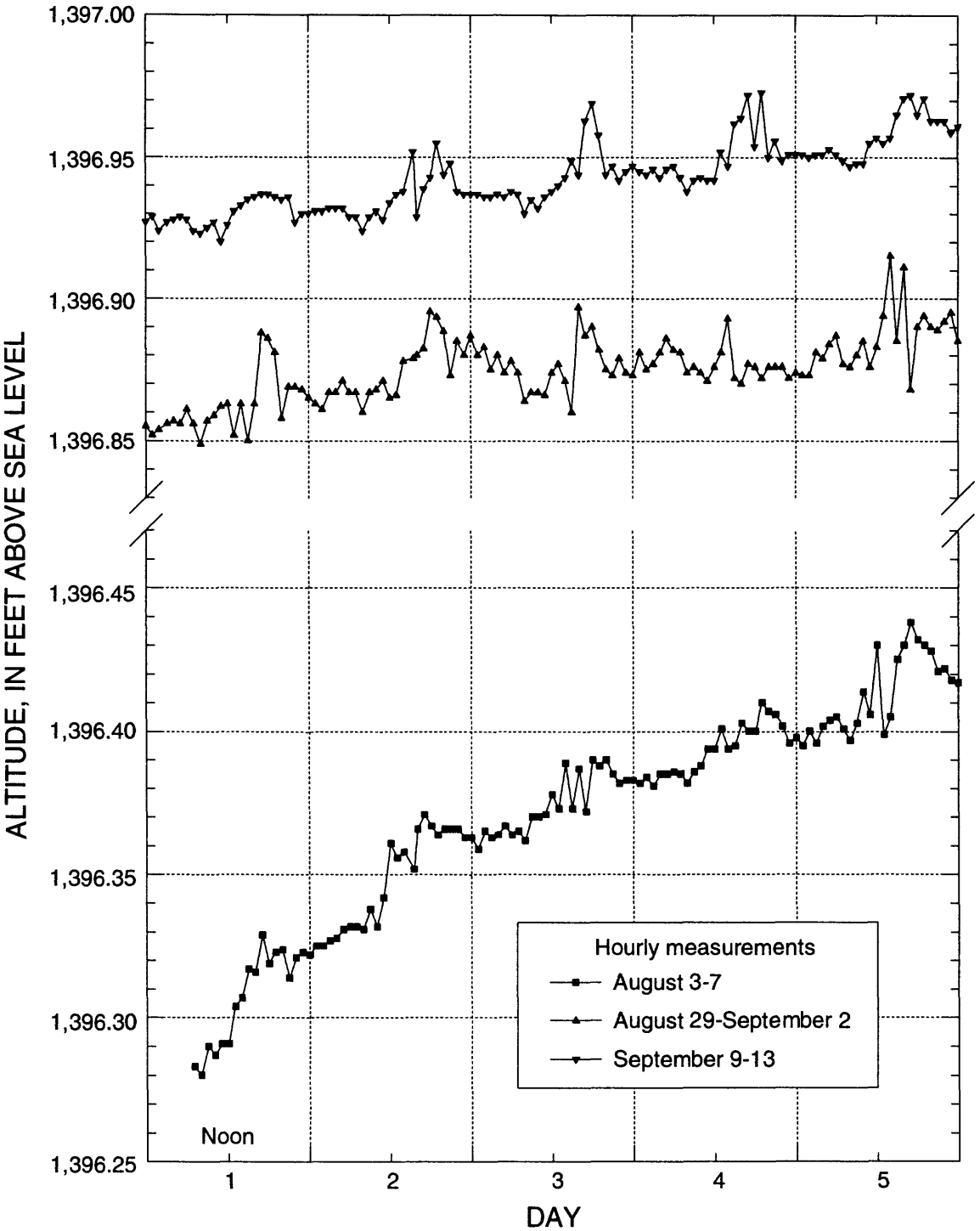


Figure 12. Water-level altitudes in Sun City pond no. 9 for three 5-day periods.

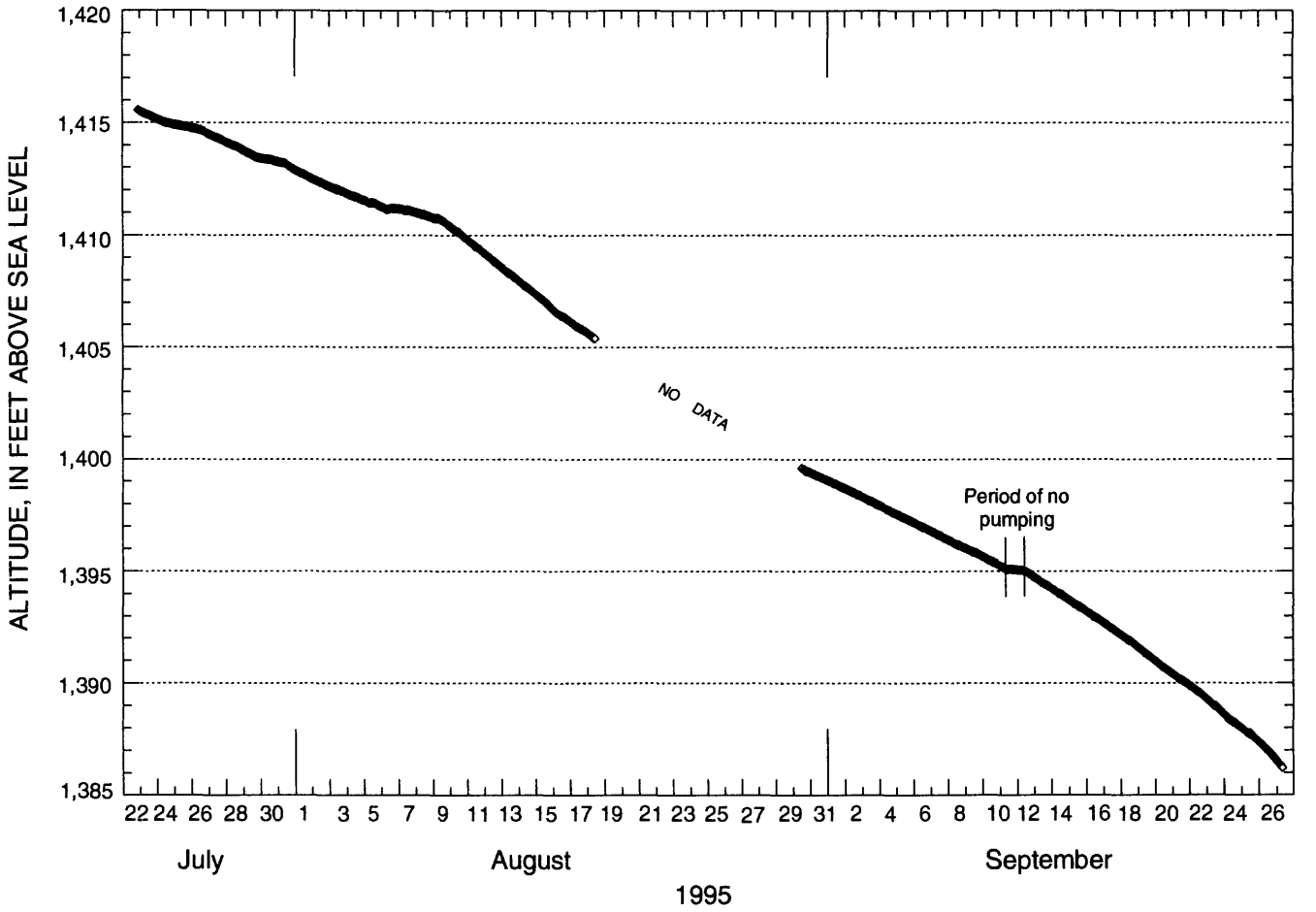


Figure 13. Water-level altitudes in Trumble Road pond, July 22 to September 27, 1995.

12-hour change in pond level = (1,395.08 ft - 1,395.04 ft) = 0.04 ft.

Rate of change in volume to change in water level: Volume at water level 1,395.6 ft = 1.100×10^8 gal, and volume at water level 1,394.0 ft = 1.053×10^8 gal (Alfred Javier, EMWD, written commun., 1996);

Rate = (4.75×10^6 gal / 1.6 ft) x (0.04 ft / 0.5 d) x (1 acre-ft / 325,000 gal) = 0.72 acre-ft/d.

Segment CD, which represents change in water level between 1800 and 0600, is best suited for estimating infiltration rate because the effect of evaporation is assumed to be minimized. Segments AB and FG (fig. 14) represent the rate of water-level change while the pond was being pumped, and segment DE may include the effect of increased evaporation after sunrise.

The above rates calculated using segment CD are overestimated if evaporation was responsible for a significant part of the water-level decline observed between 1800 and 0600; calculations were made using the assumption that evaporation was negligible. The average pan-evaporation rate, measured 11 mi southeast of the pond, for September 11, 1995 (24 hours), was 0.02 ft/d (Richard Morton, EMWD, written commun., 1996) after application of a pan coefficient of 0.7. The pan coefficient is used to convert observed pan-evaporation values to estimated values for reservoirs or lakes, and it takes into account the thermal effects of the large volume of pond water in comparison with the small volume of the pan. Reported pan coefficients vary from 0.6 to 0.8 (Veihmeyer, 1964, p. 11-7). For the evening and nighttime period represented by segment CD, the adjusted 24-hour average pan-evaporation rate is greater than actual evaporation from the pond surface because the pond measurements were made

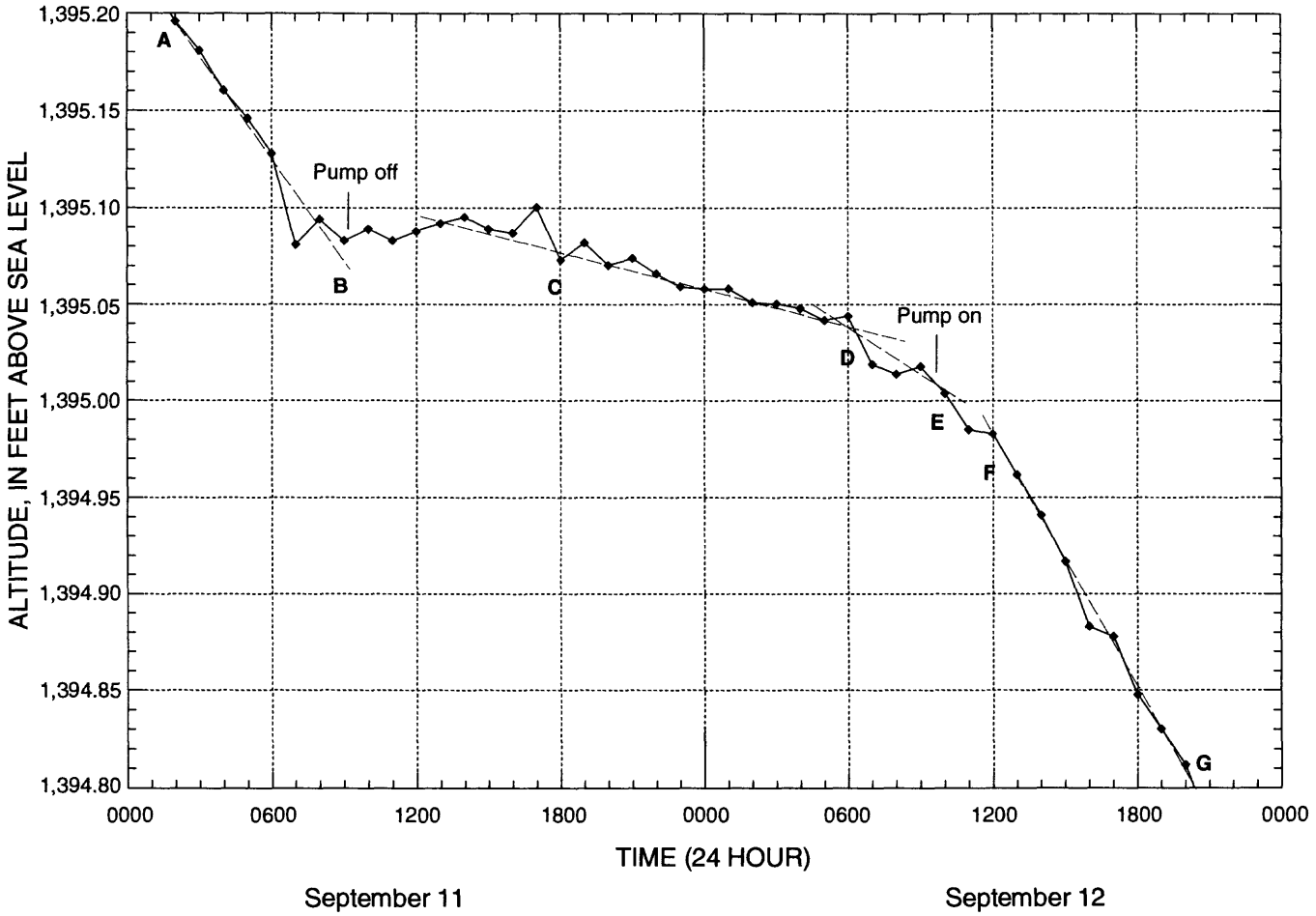


Figure 14. Water-level altitudes in Trumble Road pond, September 11-12, 1995.

in the evening and nighttime hours when evaporation presumably is minimized, and because the pan is not sheltered by tall berms (as is the pond). Inclusion of evaporation (from adjusted pan-evaporation) in the estimate yields a minimum value of infiltration rate of -0.39 acre-ft/d (-140 acre-ft/yr). This value probably is not valid given the use of 24-hour pan evaporation rate in place of nighttime actual pond evaporation rate. In addition, it should be noted that the rate of infiltration may be different at different pond stages owing to larger or smaller head differentials between the pond surface and the water table.

Winchester Ponds

Pond B (west pond) at the Winchester pond site (fig. 8*C*) was instrumented with a Rittmeyer Series MPSDI submersible pressure transducer placed in a 2-inch-diameter stilling well and connected to a Stevens AXSYS SDI-12 data logger, and water-level data were collected for the period June 21-September 6, 1995. Water-level altitudes, shown in figure 15 and table 9, generally declined steadily during July and August, and the total decline for this period was about 10 ft. Treated water was pumped both into and out of the pond on an almost daily basis during the measurement period.

The water-balance equation (eq. 1) was used to estimate infiltration from pond B for July 28-August 19, 1995 (the period with a complete set of inflow/outflow measurements). More water was pumped out (252.7 acre-ft) of the pond than was pumped in (35.28 acre-ft). Water levels in the pond were converted to volumes using a pond-level/pond-volume conversion table provided by EMWD (Alfred Javier, EMWD, written commun., 1996):

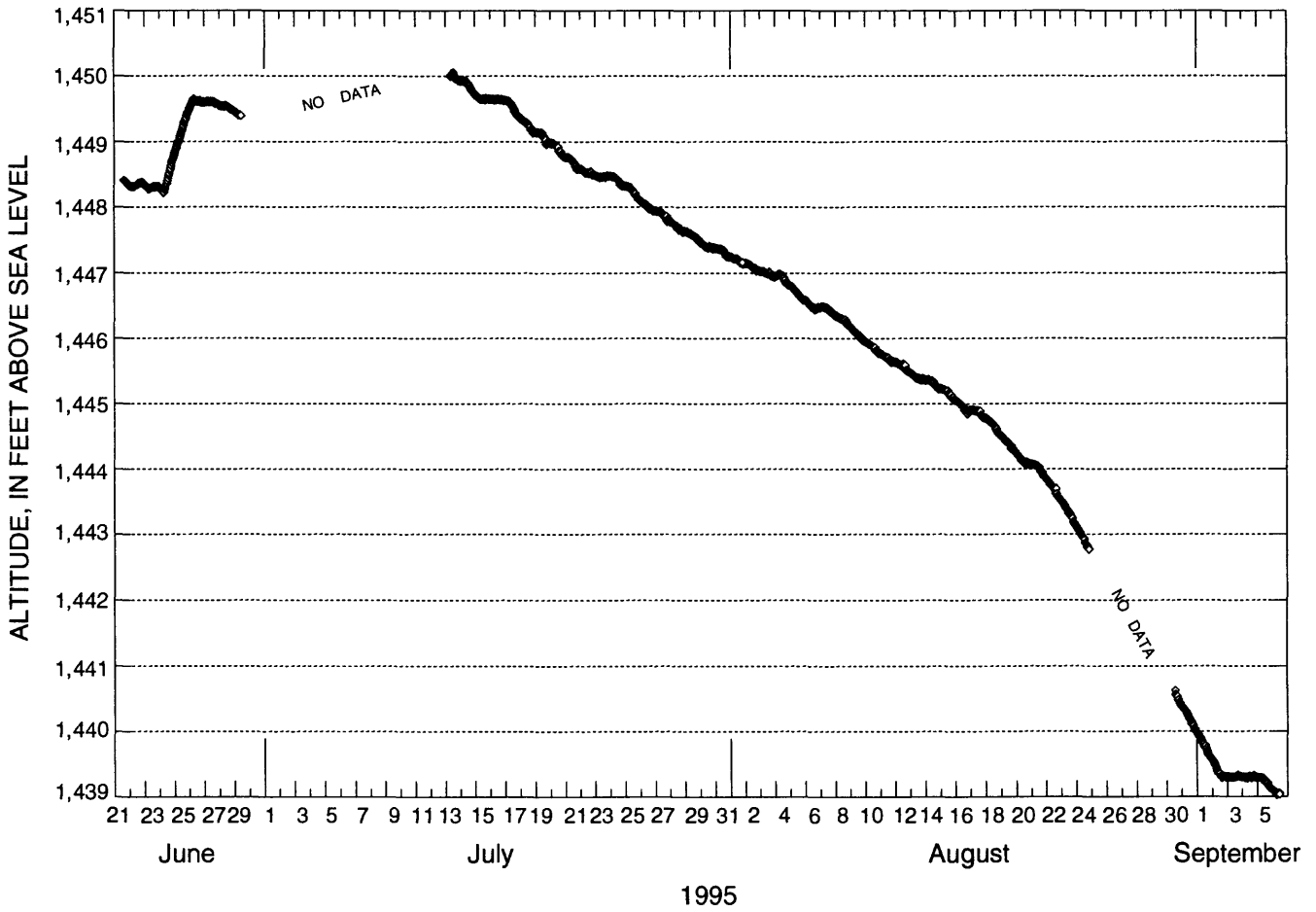


Figure 15. Water-level altitudes in Winchester pond B, June 21 to September 6, 1995.

Pond volume on July 28 = 130.9×10^6 gal = 17.50×10^6 ft^3, and
pond volume on August 19 = 95.79×10^6 gal = 12.81×10^6 ft^3.

Change in pond volume = 4.69×10^6 ft^3.

Evaporation was estimated by multiplying the summed daily pan-evaporation values, measured by MWD at Tucalota Creek near Lake Skinner (about 8 mi south of Winchester), by the appropriate rate of volume change at the prevailing water-level altitude in pond B and by a pan coefficient of 0.7:

Feet of evaporation = (6.45 in) × (0.7) = 4.52 in = 0.377 ft ;

Rate of pond-volume change at 1,447.7 to 1,444.4 ft altitude = $(4.69 \times 10^6$ ft$^3)/3.3$ ft = 1.42×10^6 ft^3/ft.

Volume evaporated = (0.377 ft) × (1.42×10^6 ft^3/ft) = 0.535×10^6 ft^3.

Substitution into equation 1 gives:

Volume infiltrated = [(17.50×10^6 ft^3) - (12.81×10^6 ft^3] + [(1.537×10^6 ft^3) - (11.07×10^6 ft^3)] - (0.535×10^6 ft^3) + (0) = -5.38×10^6 ft^3 = -123 acre-ft.

The average rate of infiltration from pond B for July 28-August 19 is -5.35 acre-ft/d (upward infiltration). As at the Sun City site, the apparent net flow of ground water into the pond may be the result of equilibration of the water-table altitude (which previously had been raised by downward infiltration of pond water and percolation of rainfall) with the altitude of the pond's water level (which had been lowered relatively quickly by net-outward pumping). During the winter months, water-level altitudes in the pond usually are higher than the water table, and downward infiltration is likely to take place.

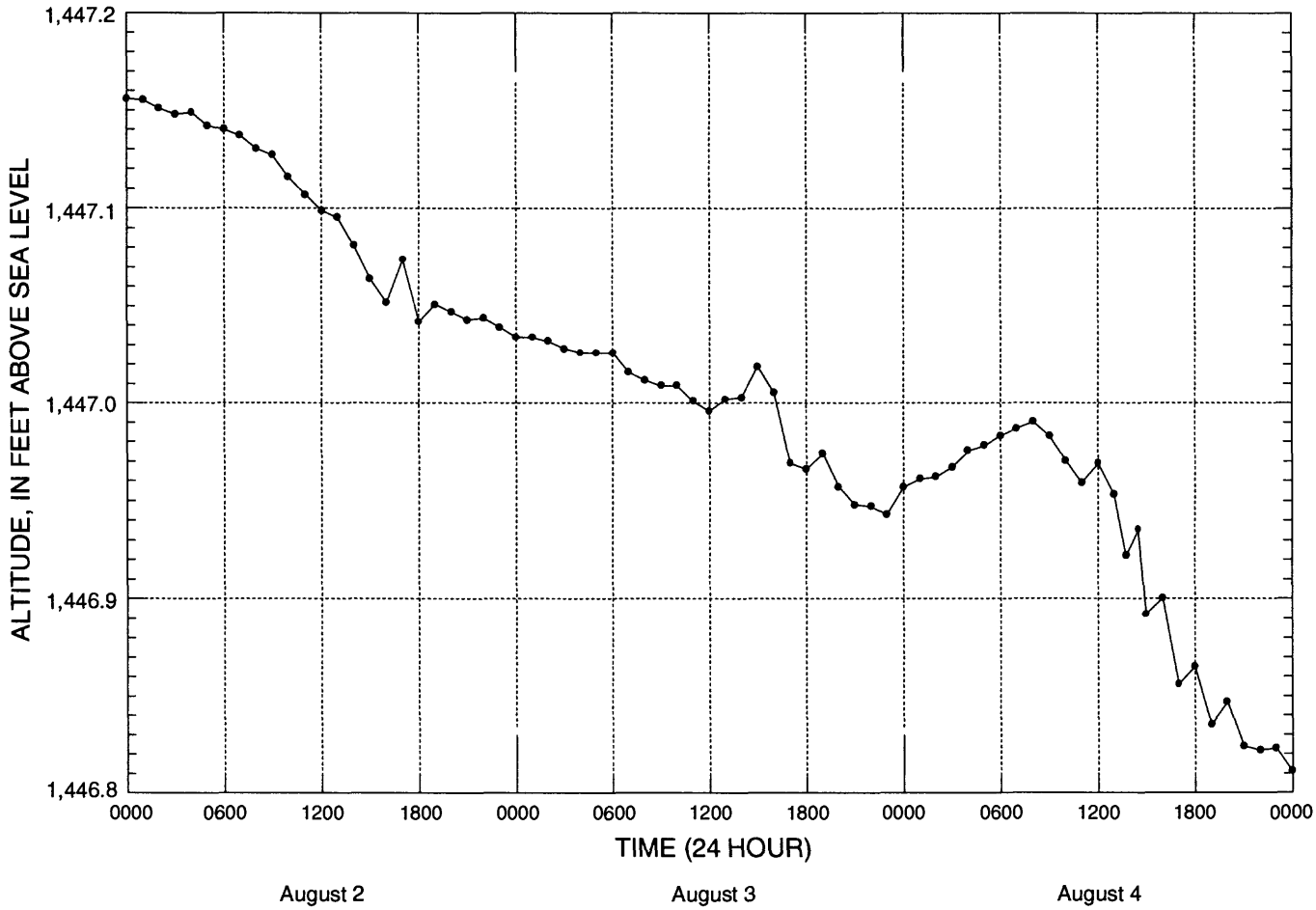


Figure 16. Water-level altitudes in Winchester pond B, August 2-4, 1995.

Records indicate that August 3-4, 1995, was a period of zero measured inflow- or outflow-pumping. The exact times that the pumps were turned off and on are not known; but, on the basis of the time of day the meters were read, both pumps were off for a period greater than the span of 1030 on August 3 to 0940 on August 4, 1995. Water-level altitudes in pond B for this 23-hour period (fig. 16) generally declined gradually from 1030 to 2300 on August 3, and then rose gradually until about 0900 on August 4. The early-morning rise may reflect the upward infiltration of ground water into the pond during the nighttime period of reduced evaporation. The average infiltration rate calculated on the basis of data from this 23-hour period, using equation 2, is 0.75 acre-ft/d (downward infiltration).

Comparison of this 1-day value with the longer term infiltration rate for Winchester pond and with infiltration values calculated for the Sun City and Trumble Road sites shows the uncertainties caused by both the use of short-term water-level data and pan-evaporation data. In addition, the values may reflect spatial and temporal variability of infiltration rates. At any of the sites, infiltration rates during times when the ponds are at high stage are likely to be different from the rates estimated above using primarily low-stage data.

Over the longer term (May-September), water levels in shallow observation wells adjacent to the Winchester ponds (fig. 8; table 5) generally reflect the decline in water level in the ponds. During May-September, water levels declined about 11 ft in Pond B and about 17 ft in Pond A (table 5). The water level in the observation well closest to Pond B (30H3) declined 7.8 ft; water levels in wells near Pond A (30H2, 30H1, and 30A1) declined 7.4 to 11.5 ft (fig. 8*C*). The water-level altitudes in the closest observation wells, all of which are perforated a minimum of about 9 to 37 ft below the bottom of the ponds, were within less than 1 to 5 ft of the adjacent pond water-level altitudes for the

dates given in table 5. The magnitude of water-level change (decline) is related to distance of the observation well from the ponds. As a comparison, water levels in two unused wells (5S/3W-25K1 and 5S/2W-29J1) located about 1 mi southwest [-25K1] and about 1 mi southeast [-29J1] of the ponds (fig. 1) declined 2.3 and 3.3 ft, respectively (table 3).

As the ponds filled in winter, a ground-water mound developed; during summer and autumn, as the pond levels were lowered by pumping, evaporation, and infiltration, the water level in pond B became lower than immediately adjacent ground-water levels. In general, water levels in the observation wells east and south (generally upgradient) of the ponds were a little below the pond water levels during spring (fig. 10*C*; table 5) and early summer, and were a little above the pond water levels during late summer and autumn (fig. 11*C*; table 5). Therefore, seasonal upward infiltration of ground water into pond B occurs primarily from the east side of the pond and, to a lesser extent, the south side. West of the ponds (downgradient), ground-water levels were lower than pond water levels for all the measurement dates; the slightly greater distance of these wells from the ponds also is a factor.

Uncertainties in Infiltration Estimates

Correctness of the calculated infiltration rate, and possibly of the indicated direction of infiltration, is dependent on the accuracy of the measurements of pumped inflow and outflow, the validity of the pan-evaporation measurements, and the accuracy of the conversion of pond water-level values to pond volumes. The pumped inflow and outflow values are subject to meter error of as much as 5 percent (Michael Garner, EMWD, oral commun., 1995). Using the Winchester site as an example, 5 percent of the total pumped inflow and outflow for the period of interest for Pond B is 1.8 acre-ft and 13 acre-ft, respectively. Each pond-volume calculation at the Winchester site has a possible error of about 1.5 acre-ft, and pond-evaporation calculations have a possible error of about 0.2 acre-ft, on the basis of significant figures of the values reported in the pond-water level/pond volume conversion table. The sum of these possible errors is about 17 acre-ft; most of the possible error is associated with the inflow and outflow meters. The possible error in the difference between measured pan evaporation and actual evaporation from the pond surface at sites several miles away, and any error resulting from selection of a pan coefficient of 0.7, cannot be assessed within the scope of this project.

Possible error for the estimates made in this report for the Sun City and Trumble Road sites is less than that for the Winchester site because inflow and outflow measurements were not used at the Sun City and Trumble Road sites. The possible error instead is primarily related to the pond-water level/pond volume conversion values and errors associated with estimation of actual evaporation.

More reliable estimates of infiltration rates could be obtained by collecting pond water-level data during periods of no pumped inflow or outflow lasting 1 week or more and combining those data with onsite measurements of evaporation. If inflow and outflow pumping cannot be turned off for at least a week, accurate measurement of pumped flows would be a necessity. Understanding of pond infiltration also would be improved through data collection and analysis for all seasons; infiltration rates during times when the ponds are at high stage are likely to be different from the rates estimated using primarily low-stage data because the high stages create substantially greater head differentials between the ponds and the water table. Transferability of infiltration rates could be investigated through data collection and estimation of infiltraton for more than one pond at a site to determine both the variation of rates for different ponds and the effect of infiltration of water from adjacent ponds. The relation between pond levels and ground-water levels could be better defined through the installation of monitoring wells located near the Trumble Road and Sun City ponds and screened a short distance below the water table.

An alternative method of monitoring infiltration from the ponds would involve instrumentation of the unsaturated zone in the vicinity of the ponds to measure moisture content. If an unsaturated zone is present beneath the ponds, position and speed of a downward-moving front could be determined. This information could be used in combination with estimation of change in ground-water storage to determine infiltration rates if the amount of water infiltrating is greater than the error range of the estimated volume of water in storage in the basin.

SUMMARY AND CONCLUSIONS

During the preliminary phase of a study to determine the quantity and fate of reclaimed water that percolates from storage ponds to the ground-

water system, 115 wells were located and inventoried in parts of the Perris, Sun City, and Winchester subbasins. Well-construction, historical-water-quality, and historical-water-level data were compiled for those wells for which data could be obtained. In addition, during the study, water levels were measured in 86 of the wells, and water-level-contour maps were prepared. The water-level contours indicate flow from the Winchester subbasin northwestward to the south Perris subbasin and southwestward to the Menifee subbasin. From a ground-water divide near the southwest part of the Menifee subbasin, ground water flows north toward the south Perris subbasin and southwestward toward Railroad Canyon Reservoir. In the eastern part of the Menifee subbasin, ground water flows southeastward.

On the basis of information from drillers' logs, three generalized lithologic sections were constructed: from the southwest corner of the Menifee subbasin northeastward through the south Perris subbasin; from the northwest part of the south Perris subbasin southeastward through the Winchester subbasin; and west to east through the Menifee subbasin.

Water-level data were collected from one pond at each of the three storage-pond sites. Water-level data and evaporation data, for periods of no pumped inflow or pumped outflow, were used to estimate an infiltration rate of -0.18 to -0.15 acre-ft/d (upward percolation) for Sun City pond no. 9 during August 3 to September 15, 1995, and a rate of 0.72 acre-ft/d for Trumble Road pond during September 11-12, 1995. For Winchester pond B, a rate of -5.35 acre-ft/d was estimated for July 28 to August 19, 1995, during which time pumped inflow and outflow were measured. The Trumble Road pond estimate was made on the basis of nighttime measurements and assumes negligible evaporation.

The upward percolation of water in Sun City pond no. 9 and in Winchester pond B probably resulted from the lowering of the water level in the ponds to an altitude below the local water-table altitude, followed by a gradual rise as the pond level equilibrated with the water-table altitude. The range of values and direction of infiltration may be indicative both of the variability of infiltration rates at different sites (and under different conditions) and the possible error ranges of the measured parameters used in calculating infiltration. The parameters subject to the greatest inaccuracy are evaporation and pumped inflow and outflow. Conversion from pond stage to pond volume, and selection of a proper pan coefficient also are possible sources of error. At any of the sites, infiltration rates during times when the ponds are at high stage are likely to be different from the rates estimated using primarily low-stage data.

More reliable estimates of infiltration rates could be obtained by collecting pond water-level data during periods of no pumped inflow or outflow lasting 1 week or more and combining those data with onsite measurements of evaporation. If inflow and outflow pumping cannot be turned off for at least a week, accurate measurement of pumped flows would be a necessity.

References Cited

Biehler, Shawn and Lee, T.C., 1994, Subsurface structure of the Winchester basin, Riverside County, California: Riverside, Calif., Department of Earth Sciences, University of California, 47 p.

Biehler, Shawn and Lee, T.C., 1995, Subsurface structure of the Menifee basin, Riverside County, California: Riverside, Calif., Department of Earth Sciences, University of California, 59 p.

California Department of Water Resources, 1959, Santa Ana River investigation: California Department of Water Resources Bulletin No. 15, 207 p.

California Department of Water Resources, 1978, Water resources evaluation of the San Jacinto area: California Department of Water Resources District Report, 81 p.

California Department of Water Resources, 1979, Ground water quality conditions in Menifee, Winchester, and South Perris subareas: California Department of Water Resources District Report, 82 p.

Field, J.A., Barber, L.B., II, Thurman, E. M., Moore, B.L., Lawrence, D.L., and Peake, D.A., 1992a, Fate of alkylbenzenesulfonates and dialkyltetralinsulfonates in sewage-contaminated groundwater: Environmental Science and Technology, v. 26, p. 1140-1148.

Field J.A., Leenheer, J.A., Thorn, K.A., Barber, L.B, II, Rostad, C., Macalady, D.L., and Daniel, S.R., 1992b, Identification of persistent anionic surfactant-derived chemicals in sewage effluent and groundwater: Journal of Contaminant Hydrology, v. 9, p. 55-78.

Lang, D.J., 1979, Water-resources data, 1970-75, for Perris Valley and vicinity, Riverside County, California: U.S. Geological Survey Open-File Report 79-1256, 127 p.

NBS/Lowry, 1987, Feasibility of well recharge of reclaimed water and well extraction of groundwater for Menifee Village irrigation: Irvine, Calif., NBS/Lowry, Engineers and Planners.

Pruitt, J.B., Elder, J.F., and Johnson, I.K., 1988, Effects of treated municipal effluent irrigation on ground water beneath sprayfields, Tallahassee, Florida: U.S. Geological Survey Open-File Report 88-4092, 35 p.

Rees, T.F., Bright, D.J., Fay, R.G., Christensen, A.H., Anders, R., Baharie, B.S., and Land, M.T., 1994 [1995], Geohydrology, water quality, and nitrogen geochemistry in the saturated and unsaturated zones beneath various land uses, Riverside and San Bernardino Counties, California, 1991-93: U.S. Geological Survey Water-Resources Investigations Report 94-4127, 267 p.

Schneider, B.J., Ku, H.F.H., and Oaksford, E.T., 1987, Hydrologic effects of artificial-recharge experiments with reclaimed water at East Meadow, Long Island, New York: U.S. Geological Survey Water-Resources Investigations Report 85-4323, 79 p.

Sylvester, M.A., 1983, Land application of wastewater and its effect on ground-water quality in the Livermore-Amador Valley, Alameda County, California: U.S. Geological Survey Water-Resources Investigation Report 82-4100, 53 p., 2 pls.

Veihmeyer, F.J., 1964, Chapter 11--Evapotranspiration, *in* Chow, V. T., ed., Handbook of Applied Hydrology: New York, McGraw-Hill Book Company, p. 11-1 to 11-38.

Table 1. Well-construction data for selected existing wells in the Winchester, Menifee, and south Perris ground-water subbasins, California

[Site No., number based on latitude and longitude. First six digits are latitude, next seven digits are longitude, last two digits are a sequence number to uniquely identify each well. diam., diameter; in, inch; ft blw LSD, feet below land-surface datum; D.G., decomposed granite; R, value is a reported value; int, intermittent; >, greater than indicated value; --, no data. Well logs: Dr, drillers'; E, electric; V, video; Geol, geologist's; G, gamma-ray; Cal, caliper; T, temperature. Well notes: I, irrigation; D, domestic; O, observation; A, abandoned; C, collapsed; Com, commercial; Rec, recreation; D(I), water used for lawns and small gardens only; U, unused]

Well No.	Site No.	Other known designations	Well depth (ft) Original	Well depth (ft) Sounded (date)	Casing diam. (in)	Perforations (ft blw LSD)	Well-casing material	Date constructed	Depth to bedrock (ft)	Water level (date) (ft blw LSD)	Altitude of LSD (± 5 ft)	Available well logs	Well notes
4S/3W-26A1	334757117092001		365	342 (4/28/95)	14.0	200-330	Steel	12/12/52	--	169.73 (4/28/95)	1,425	Dr	A
4S/3W-26C2	334753117100401	Skiland #5	--	220.5 (5/3/95)	14.0	--	Steel	--	--	103.70 R (5/3/70)	1,415	--	O
4S/3W-26F1	334739117095301		793	165.6 (5/3/95)	14.0	120-570	Steel	8/20/50	>793	151 (5/3/95)	1,418	Dr	O
4S/3W-26H2	334749117092601		200	--	4.0	160-200	Plastic	2/5/91	>200	--	1,426	Dr	D
4S/3W-26K1	334726117094901		220	--	4.0	160-220	Plastic	4/13/88	--	--	1,425	Dr	D
4S/3W-26K2	334736117093601		250	--	4.0	125-245	Plastic	11/15/90	--	--	1,430	Dr	D
4S/3W-26K3	334728117094801		295	--	8.0	--	Plastic	--	--	--	1,425	--	D
4S/3W-26K4	334737117094501		300	--	4.0	200-300	Plastic	8/17/91	>300	--	1,425	Dr	D
4S/3W-26M1	334735117100701	Skiland #2	--	499.5 (5/3/95)	12.0	--	Steel	--	--	138.64 (5/3/95)	1,415	--	O
4S/3W-26N1	334715117100701	Skiland #1	--	700.6 (5/3/95)	14.0	--	Steel	--	--	138.39 (5/3/95)	1,415	--	O
4S/3W-29Q1	334717117124401		624	--	16.0	220-610	Steel	11/45	610	108.51 (3/14/94)	1,417	Dr	O
4S/3W-33E1	334658117122701		440	130.3 (4/7/95)	12.0	170-430	Steel	12/5/53	>440	97.28 (4/7/95)	1,415	Dr	C
4S/3W-33Q1	334624117115001		445	386.1 (4/7/95)	14.0	135-400	Steel	3/29/53	390-445 D.G.	95.98 (4/7/95)	1,415	Dr	A
4S/3W-34Q1	334622117104101		--	133.7 (3/31/95)	10.0	--	Steel	--	--	124.42 (3/31/95)	1,419	--	C
5S/2W-19N1	333712117080901		358	290.5 (5/3/95)	10.0	96-312	Steel	7/1/53	350	40.03 (12/29/92)	1,459	Dr	D
5S/2W-19N2	334251117080201		373	360.35 (5/16/95)	10.0	127-141, 157-217 231-251, 265-365	Steel	8/15/80	>373	33.43 (5/16/95)	1,458	Dr	A
5S/2W-27N1	334211117045201		105	59 (5/13/93)	4.5	40-105	Plastic	5/8/87	--	9.27 (5/12/93)	1,491	Dr	D(I)
5S/2W-27N2	334202117045101		560	--	14.0	180-560	Steel	4/25/84	>570	--	1,469	Dr	A
5S/2W-28C1	334251117054401		300	--	6.5	No casing blw 20 ft	Steel	1/31/83	60	22.68 (5/22/95)	1,475	Dr	D
5S/2W-28D1	334243117055201		--	153.9 (5/16/95)	6.0	60-208	Steel	8/19/54	--	10.98 (5/16/95)	1,463	Dr	A
5S/2W-29J1	334214117061701		100	62.5 (6/2/95)	8.0	40-60	Plastic	11/30/90	58	5.17 (6/2/95)	1,455	Dr	A
5S/2W-29L1	334215117064201		100	--	6.0	--	Steel	--	--	9.86 (5/23/95)	1,456	--	D
5S/2W-29L2	334219117064101		--	85 R (7/3/94)	6.0	--	Steel	--	--	13.60 (5/16/95)	1,458	--	D
5S/2W-29L3	334213117064101		196	--	5.5	50-70, 100-120, 160-180	Steel	1/13/93	>200	7.86 (5/15/95)	1,455	Dr	D
5S/2W-29N1	334201117065801		--	113.5 (12/30/92)	5.0	--	Steel	--	--	15.02 (12/30/92)	1,450	--	A
5S/2W-30A1	334241117070901	Winchester #5	70	71.2 (5/23/95)	6.0	50-70	Plastic	12/21/92	70 D.G.	18.79 (5/23/95)	1,475	Dr	O
5S/2W-30B1	334249117072401	Winchester #4	70	70.4 (5/23/95)	6.0	50-70	Plastic	12/21/92	>70	14.63 (5/23/95)	1,468	Dr	O
5S/2W-30B2	334249117073301	Winchester #3	70	70.7 (6/2/95)	6.0	50-70	Plastic	12/21/92	>70	10.37 (6/2/95)	1,457	Dr	O
5S/2W-30C1	334245117074201		370	355.75 (5/16/95)	10.0	130-190, 210-230, 270-370	Steel	9/16/80	--	8.50 (5/16/95)	1,452	Dr	A
5S/2W-30D2	334250117075601		355	--	14.0	40-355	Steel	--	--	--	1,455	V	Com
5S/2W-30G2	334226117073301	Winchester #1	70	69.65 (5/23/95)	6.0	50-70	Plastic	12/21/92	>70	5.65 (5/23/95)	1,447	Dr	O
5S/2W-30G3	334236117073301	Winchester #2	72	71.4 (5/23/95)	6.0	52-72	Plastic	12/21/92	>75	6.96 (5/23/95)	1,449	Dr	O
5S/2W-30H1	334231117070901	Winchester #6	70	69.1 (5/11/95)	6.0	50-70	Plastic	12/21/92	>70	9.56 (5/11/95)	1,462	Dr	O
5S/2W-30H2	334226117070901	Winchester #7	70	69.9 (5/11/95)	6.0	50-70	Plastic	12/21/92	>70	9.20 (5/11/95)	1,460	Dr	O
5S/2W-30H3	334226117072001	Winchester #8	70	70.9 (5/23/95)	6.0	50-70	Plastic	12/21/92	>70	5.10 (5/23/95)	1,453	Dr	O

Table 1. Well-construction data for selected existing wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Site No.	Other known designations	Well depth (ft) Original	Well depth (ft) Sounded (date)	Casing diam. (in)	Perforations (ft blw LSD)	Well-casing material	Date constructed	Depth to bedrock (ft)	Water level (date) (ft blw LSD)	Altitude of LSD (± 5 ft)	Available well logs	Well notes
5S/2W-33C1	334158117053501		438	70.2 (5/16/95)	12.0	4-54, 62-73, 75-85, 96-110, 124-133, 216-240, 287-403	Steel	11/27/50	283	8.22 (5/16/95)	1,461	Dr	A
5S/2W-33D1	334157117055301		270	145.05 (5/16/95)	12.0	--	Steel	11/46	>270	6.13 (5/16/95)	1,458	Dr	A
5S/3W-1E1	334605117090701		500	--	4.0	420-500	Plastic	5/14/90	1	67.70 (10/3/94)	1,570	Dr	D
5S/3W-2C1	334615117094201		300	--	4.0	80-220,260-300	Plastic	9/17/90	105	--	1,470	Dr	D
5S/3W-2M1	334544117101401		300	229.0 (4/28/95)	14.0	--	Steel	--	--	139.51 (4/28/95)	1,445	--	A
5S/3W-2M2	334549117100501		240	--	5.0	--	Plastic	12/20/88	15	--	1,450	Dr	D
5S/3W-2Q1	334539117093001			--	6.0	--	Steel	--	--	--	1,520	--	D
5S/3W-3C1	334612117104601	B-6	260	250.85 (3/31/95)	4.0	230-250	Plastic	12/31/93	>250	113.60 (3/31/95)	1,420	Dr	O
5S/3W-3L1	334548117104701	B-7	260	252.0 (3/31/95)	4.0	230-250	Plastic	12/31/93	>250	109.73 (3/31/95)	1,425	Dr	O
5S/3W-3N1	334528117111701	A-1	865	577.8 (5/3/95)	6.0	290-310, 555-575	Steel	12/31/93	865	94.64 (3/31/95)	1,415	Dr, E, G, Cal	O
5S/3W-3R1	334530117103001		540	--	12.0	180-540	Steel	~1952 R	--	--	1,435	--	I
5S/3W-4A1	334615117112101	B-5	260	209.4 (4/14/95)	4.0	190-210	Plastic	12/31/93	>260	101.10 (4/14/95)	1,415	Dr	O
5S/3W-4M1	334540117120901	B-1	260	251.3 (4/13/95)	4.0	230-250	Plastic	12/31/93	>260	87.68 (4/13/95)	1,412	Dr	O
5S/3W-9E1	334502117120401	B-3	240	238.4 (4/13/95)	4.0	220-240	Plastic	12/31/93	>250	83.74 (4/13/95)	1,415	Dr	O
5S/3W-9H1	334513117112301	B-2	260	241.75 (4/13/95)	4.0	220-240	Plastic	1/19/94	>260	92.89 (4/13/95)	1,417	Dr	O
5S/3W-9H2	334502117112201	B-4	250	250.6 (4/13/95)	4.0	240-250	Plastic	12/31/93	>260	96.12 (4/13/95)	1,420	Dr	O
5S/3W-9Q1	334436117113201		600	--	16.0	180-600	Steel	~1970 R	--	88.30 (4/19/95)	1,421	--	I
5S/3W-10M2	334458117111001		--	333.7 (5/5/95)	12.0	--	Steel	--	--	96.22 (5/5/95)	1,422	--	A
5S/3W-10N1	334447117110301		--	--	--	--	Steel	--	--	97.98 (6/2/95)	1,425	--	A
5S/3W-11D1	334515117100501		227	--	6.0	--	Steel	12/87	--	134.26 (5/5/95)	1,465	--	D
5S/3W-11M2	334455117101401		787	--	--	--	Steel	--	--	--	1,451	--	I
5S/3W-13A1	334434117080901		431	--	12.0	231-431	Steel	5/12/77	426	--	1,522	Dr	I
5S/3W-13H1	334420117080901		460	--	12.0	200-460	Steel	8/17/83	460 D.G.	--	1,518	Dr	I
5S/3W-13N1	334348117085701		433	142.0 (5/22/95)	10.8	250-433	Steel	5/21/77	417	52.02 (5/22/95)	1,475	Dr	C
5S/3W-14L1	334400117094701		200	--	5.0	80-200	Plastic	1/22/80	>200	71.83 (6/5/95)	1,444	Dr	D
5S/3W-14P1	334343117094401		~250 R	--	--	--	Steel	--	--	--	1,447	--	I
5S/3W-15H1	334413117102901		~220 R	--	6.0	--	Steel	--	--	101.32 (5/5/95)	1,435	--	D
5S/3W-15L1	334404117105801		150	--	4.0	110-150	Plastic	10/15/94	>150	--	1,429	Dr	D
5S/3W-15P1	334347117110101		185	--	4.0	118-185	Plastic	7/21/91	43 D.G.	86.38 (6/6/95)	1,428	Dr	D
5S/3W-15P2	334349117105801		160	--	4.0	120-160	Plastic	10/2/94	--	--	1,429	Dr	D(I)
5S/3W-15Q1	334356117103101		380	--	4.0	180-220, 300-380	Plastic	5/13/91	94	33.49 (5/22/95)	1,439	Dr	D(I)
5S/3W-16D1	334431117120601		160 R	--	6.0	--	Steel	~1980 R	--	--	1,417	--	D
5S/3W-16F1	334415117120201		--	--	8.0	--	Steel	--	--	--	1,419	--	D
5S/3W-16P2	334357117114901		568	--	12.0	250-560, int.	Steel	1971	>568	--	1,425	Dr	I
5S/3W-17A1	334422117122301		160	--	8.0	120-160	Plastic	2/6/95	>160	--	1,422	Dr	I
5S/3W-17Q1	334355117123601		~210 R	--	6.5	--	Steel	9/88	--	--	1,450	--	D
5S/3W-17R1	334346117122101		370	--	16.0	--	Steel	--	>370	--	1,445	Dr	I
5S/3W-17R2	334350117123401		220	--	8.0	150-220	Plastic	2/11/92	>220	--	1,460	Dr	D
5S/3W-24C1	334341117084101		505	--	12.7	265-505	Steel	5/25/77	479	72.56 (1/4/94)	1,480	Dr	I

Table 1. Well-construction data for selected existing wells in the Winchester, Menifee, and south Perris ground-water subbasins, California—*Continued*

Well No.	Site No.	Other known designations	Well depth (ft)		Casing diam. (in)	Perforations (ft blw LSD)	Well-casing material	Date constructed	Depth to bedrock (ft)	Water level (date) (ft blw LSD)	Altitude of LSD (± 5 ft)	Available well logs	Well notes
			Original	Sounded (date)									
5S/3W-24F1	334318117084301		681	680.9 (12/3/94)	6.0	309-348, 387-426, 524-543, 563-582, 621-641, 660-680	Steel	9/30/93	690	68.76 (12/3/94)	1,475	Dr, E, G, T, Cal	O
5S/3W-24F2	334317117084301		691	691 (12/3/93)	2.0	686-691	Plastic	9/30/93	695	64.39 (12/3/93)	1,475	Dr, E, Geol, G, Cal	O
5S/3W-24F3	334317117084302		404	403.8 (12/3/93)	2.0	398.6-403.6	Plastic	9/30/93	695	69.73 (12/3/93)	1,475	Dr, E, Geol, G, cal	O
5S/3W-24F4	334317117084303		155	155.1 (12/3/93)	2.0	150-155	Plastic	9/30/93	695	57.89 (12/3/93)	1,475	Dr, E, Geol, G, Cal	O
5S/3W-25K1	334222117083301		--	34.6 (12/30/92)	6.0	--	Steel	--	--	18.81 (9/13/95)	1,445	--	A
5S/3W-28M1	334217117120501	MC1-430'	445	430 (8/21/90)	2.0	425-430	Plastic	8/21/90	>430	42.96 (4/24/95)	1,420	Dr, E, Time, Geol, G, Cal	O
5S/3W-28M2	334217117120502	MC1-370'	445	370 (8/21/90)	2.0	365-370	Plastic	8/21/90	>430	43.19 (4/24/95)	1,420	Dr, E, Time, Geol, G, Cal	O
5S/3W-28M3	334217117120503	MC1-242'	445	242 (8/21/90)	2.0	237-242	Plastic	8/21/90	>430	40.39 (4/24/95)	1,420	Dr, E, Time, Geol, G, Cal	O
5S/3W-28M4	334217117120504	MC1-160'	445	160 (8/21/90)	2.0	155-160	Plastic	8/21/90	>430	40.58 (4/24/95)	1,420	Dr, E, Time, Geol, G, Cal	O
5S/3W-29J1	334216117122301		435	295.0 (5/22/95)	2.0	--	Plastic	9/29/94	>435	50.25 (5/22/95)	1,423	Dr	anode
5S/3W-31R1	334107117132401		--	49.1 (5/2/95)	14.0	--	Steel	--	--	13.50 (5/2/95)	1,405	--	C
5S/3W-32A1	334155117122001	A-3	675	586.2 (4/26/95)	6.0	560-580	Plastic	3/9/94	655	36.59 (4/26/95)	1,413	Dr	O
5S/3W-32B1	334147117123601	C-2	235	218.1 (4/25/95)	4.5	200-220	Plastic	10/1/93	>235	21.84 (4/25/95)	1,414	Dr, E, G, Cal	O
5S/3W-32C1	334146117125701	C-3	235	218.2 (4/25/95)	4.0	200-220	Plastic	10/1/93	>235	28.00 (4/25/95)	1,422	Dr, E, G, Cal	O
5S/3W-32G1	334137117124301	C-5	235	219.9 (4/25/95)	4.0	200-220	Plastic	10/1/93	>235	17.43 (4/25/95)	1,415	Dr, E, G, Cal	O
5S/3W-32H1	334142117122701	C-1	235	221.0 (4/25/95)	4.0	200-220	Plastic	10/1/93	>235	22.39 (4/25/95)	1,405	Dr, E, G, Cal	O
5S-3W-32L1	334127117130001	C-4	225	221.0 (4/25/95)	4.0	200-220	Plastic	10/1/93	>225	11.38 (4/25/95)	1,412	Dr, E, G, Cal	O
5S/3W-33K1	334130117113701	A-2	665	rock @ ~160 R	6.0	170-190, 280-300 600-620	Plastic	4/15/94	650	36.59 (4/26/95)	1,415	Dr, E, G, Cal, Mud	O

Table 1. Well-construction data for selected existing wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Site No.	Other known designations	Well depth (ft) Original	Well depth (ft) Sounded (date)	Casing diam. (in)	Perforations (ft blw LSD)	Well-casing material	Date constructed	Depth to bedrock (ft)	Water level (date) (ft blw LSD)	Altitude of LSD (± 5 ft)	Available well logs	Well notes
5S/3W-34Q2	334107117103501		--	247.2 (5/2/95)	16.0	--	Steel	--	--	67.62 (5/2/95)	1,422	--	A
5S/3W-35N2	334107117100701	Menifee Test #2	650	587.6 (4/26/95)	6.0	250-350, 400-440, 480-520, 580-600	Stainless steel	8/7/92	>650	80.85 (4/26/95)	1,425	Dr, E, G	O
5S/3W-35R1	334107117092301	Menifee Production #2	625	600.3 (4/26/95)	16.0	160-180, 230-250 290-310, 340-380 400-430, 460-480, 560-580	Steel	10/14/93	>625	88.48 (4/26/95)	1,425	Dr, E, G, Cal	O
5S/3W-36E1	334133117085501		270	51.2 (6/2/95)	12.0	--	Steel	--	--	47.93 (6/2/95)	1,431	--	C
5S/3W-36N2	334107117090301	Lusk #5	700	338.6 (4/26/95)	12.7	320-700	Steel	5/24/77	>700	91.98 (4/26/95)	1,425	Dr	C
5S/3W-36P1	334107117085001		705	128.7 (4/26/95)	14.0	96-705	Steel	12/50	>705	96.41 (4/26/95)	1,425	Dr	C
5S/3W-36P2	334107117084201	Menifee Test #1	740	680.2 (7/12/94)	6.0	400-440, 460-500, 520-560, 580-620 640-680	Steel	6/3/92	695	104.71 (7/12/94)	1,430	Dr	O
6S2W-6D1	--		400	--	5.0	180-400	Steel	3/29/91	107	13.67 (6/2/95)	1,437	Dr	U
6S/3W-1E1	334045117090201		--	272.7 (5/10/95)	14.0	--	Steel	--	--	93.43 (5/10/95)	1,428	--	A
6S/3W-1H1	334042117081401		--	369.5 (6/2/95)	10.0	--	Steel	--	--	109.59 (6/2/95)	1,430	--	A
6S/3W-1J2	334036117081101		300	--	12.0	--	Steel	--	--	--	1,430	--	Rec
6S/3W-1L1	334037117084201		--	109.2 (5/10/95)	14.0	--	Steel	--	--	99.87 (5/10/95)	1,427	--	C
6S/3W-2A1	334105117091201	Menifee Production #1	600	577.0 (4/26/95)	16.0	180-200, 300-360, 380-440, 540-560	Steel	11/19/93	>600	93.97 (4/26/95)	1,425	Dr, E, G, Cal	O
6S/3W-2D1	334102117100101	Menifee Production #3	685	632.5 (5/2/95)	16.0	200-240, 280-310 330-350, 410-430, 470-500, 570-610	Steel	11/4/93	>685	87.62 (5/2/95)	1,425	Dr, E, G, Cal	O
6S/3W-2E1	334049117100601	Menifee Production #4	695	651.3 (4/26/95)	16.0	220-300, 360-400, 440-520, 540-600, 620-640	Steel	11/13/93	>695	89.79 (4/26/95)	1,425	Dr, E, G	O
6S/3W-2G1	334047117093601	Menifee Lake Extraction #2, Lusk #2	625	--	16.0	100-560, 580-620	Steel	4/11/88	>625	89.81 (6/5/95)	1,426	Dr, E, Geol	Rec
6S/3W-2G2	334046117094501	Menifee Lake Extraction #3, Lusk #3	622	--	16.0	--	Steel	9/1/88	>620	92.74 (6/5/95)	1,428	Dr, E, G	Rec
6S/3W-2H2	334042117091501	Menifee Lake Extraction #1, Lusk #1	565	--	16.0	--	Steel	10/9/87	565 D.G.	95.26 (6/2/95)	1,428	Dr, E,	Rec
6S/3W-2J1	334036117092901	Menifee Lake Extraction #4, Lusk #4	514	--	--	--	Steel	9/7/88	--	94.62 (6/5/95)	1,428	E,G	Rec
6S/3W-3C1	334105117104601		600	--	14.0	370-400, 430-470, 480-490, 530-540, 570-580	Steel	1/10/74	>600	65.55 (9/28/95)	1,425	Dr	A
6S/3W-3H2	334050117101401		544	468 R (date unk)	14.0	--	Steel	--	--	82.20 (9/28/95)	1,430	--	A
6S/3W-3L1	334037117104701		200 R	--	10.0	--	Steel	--	--	48.50 (6/5/95)	1,460	--	D
6S/3W-5E1	334043117131701		42 R	--	--	--	--	--	--	--	1,410	--	D

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California

[wells not shown in figure 1 were not located in the field or have been destroyed; ft, foot; ft blw LSD, feet below land-surface datum; µS/cm, microsiemens per centimeter at 25°C; °C, degrees Celsius; mg/L, milligrams per liter; µg/L, micrograms per liter; unsat., unsaturated; RCFCD, Riverside County Flood Control and Water Conservation District; EMWD, Eastern Municipal Water District; DPH, California Department of Public Health; DWR, California Department of Water Resouces; WA, Western Analytical Laboratories; Babcock, E.S. Babcock and Sons, Inc.; WNTL, Watercheck National Testing Laboratories; asterisk(*) indicates additional data are available; <, less than; --, no data]

Well No.	Date	Water level (ft blw LSD)	Well depth (ft)	Altitude of LSD (ft)	Specific conductance (µS/cm)		pH (lab) (Std. units)	Water temperature (°C)
					Field	Lab		
4S/3W-26C2	8/26/88	--	220.5	1,415	--	5,450	7.4	--
	1/20/89	--			--	6,800	8.1	--
	4/18/89	--			--	4,100	8.3	--
	4/20/89	--			--	5,000	7.6	--
	7/6/89	--			--	4,350	8.2	--
	10/12/89	--			--	5,200	8.7	--
	12/26/89	--			--	4,750	8.8	--
	7/14/92	--			--	4,900	7.4	--
4S/3W-26F1	10/29/69	--	165.6	1,418	--	7,180	7.7	24.5
	4/16/70	--			--	7,170	7.1	23.5
	5/11/71	--			--	8,660	7.8	25.5
	8/26/88	--			--	4,620	7.7	--
	1/20/89	--			--	--	--	--
4S/3W-26J1	5/8/58	--	470	1,445	--	1,390	7.6	24.5
	10/14/58	--			--	1,720	7.3	26.5
	3/31/59	--			--	1,660	8.0	26.0
	4/28/69	--			--	1,990	7.7	26.5
	11/20/70	--			--	2,150	7.9	26.5
	5/11/71	--			--	1,730	7.9	28.0
	5/17/72	--			--	2,440	7.9	26.5
	5/2/73	--			--	2,990	7.7	26.5
4S/3W-26K3	5/23/89	--	295	1,425	--	11,600	--	--
	11/20/91	--			--	16,200	7.2	--
4S/3W-26M1	8/26/88	--	499.5	1,415	--	2,860	8.5	--
	9/16/88	--			--	2,940	8.6	--
	1/12/89	--			--	3,000	7.9	--
	4/20/89	--			--	1,680	8.2	--
	7/11/89	--			--	2,200	8.2	--
	10/11/89	--			--	--	--	--
	12/20/89	--			--	2,600	7.8	--
	8/8/90	--			--	2,090	8.1	--
	6/10/91	--			--	--	--	--
	7/9/92	--			--	1,100	8.5	--
4S/3W-26N1	8/26/88	--	700.6	1,415	--	9,680	8.7	--
	9/16/88	--			--	9,460	6.8	--
	12/29/88	--			--	29,000	7.6	--
	4/21/89	--			--	17,500	7.4	--
	7/12/89	--			--	17,000	7.4	--
	10/10/89	--			--	30,000	7.6	--
	1/24/91	--			--	23,000	7.1	--
	7/7/92	--			--	13,000	7.2	--
4S/3W-28C1	3/15/54	--	300	1,421	--	2,310	7.7	20.0
	8/9/55	--			--	--	--	21.0
	10/16/58	--			--	1,900	7.7	22.0
	3/31/59	--			--	1,810	7.4	22.0
4S/3W-28H1	5/3/65	--	42	1,419	--	2,800	7.5	--
	7/19/68	--			--	2,860	7.6	--
	10/17/68	--			--	3,500	7.8	30.0
4S/3W-29C3	4/19/77	--	--	--	--	1,800	7.0	--
4S/3W-29F3	4/19/77	--	--	--	--	1,730	7.1	--
4S/3W-29G2	4/16/70	--	595	1,420	--	2,450	7.4	21.0
	5/11/71	--			--	2,420	8.1	22.0

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California–*Continued*

Well No.	Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO_3)	Alkalinity (mg/L as $CaCO_3$)	
							Field	Lab
4S/3W-26C2	690	260	9.0	730.0	10	24	--	20
	1,300	450	20.0	860.0	10	58	--	--
	770	220	4.5	690.0	8	23	--	--
	770	280	8.0	690.0	7	46	--	--
	650	250	5.8	650.0	9	32	--	--
	680	260	6.0	640.0	7	15	--	--
	600	240	2.8	600.0	8	15	--	--
	750	200	60.0	800.0	3	230	--	190
4S/3W-26F1	2,300	670	150.0	740.0	16	79	--	65
	2,100	670	110.0	660.0	20	91	--	75
	2,300	740	98.0	830.0	13	58	--	58
	1,800	600	60.0	220.0	12	100	--	83
	--	--	--	--	--	--	--	--
4S/3W-26J1	360	94	31.0	120.0	--	100	--	--
	460	140	30.0	150.0	--	110	--	--
	370	110	24.0	170.0	--	67	--	--
	230	84	4.0	280.0	6	70	--	57
	270	110	2.9	290.0	5	63	--	52
	190	68	3.6	270.0	4	45	--	45
	330	130	5.6	340.0	5	62	--	51
	418	160	5.6	420.0	7	60	--	50
4S/3W-26K3	6,000	2,120	160.0	1260.0	29	31	--	25
	--	--	--	--	--	--	--	--
4S/3W-26M1	400	150	7.0	400.0	6	15	--	33
	520	190	10.0	400.0	6	12	--	25
	540	200	8.0	370.0	4	46	--	--
	150	54	2.4	270.0	2	66	--	--
	350	110	4.6	330.0	6	46	--	--
	--	--	--	--	--	--	--	--
	370	150	4.8	310.0	4	58	--	--
	320	120	5.0	360.0	4	18	--	55
	--	410	21.0	600.0	8	--	--	--
	57	21	1.0	180.0	2	34	--	53
4S/3W-26N1	2,600	1,000	30.0	1030.0	17	24	--	35
	2,500	940	35.0	960.0	18	37	--	60
	7,100	2,500	95.0	2620.0	29	19	--	--
	3,800	1,400	49.0	1440.0	16	50	--	--
	4,200	1,580	58.0	1500.0	18	41	--	--
	6,000	2,220	100.0	2800.0	35	13	--	--
	7,600	2,850	120.0	2600.0	44	61	--	50
	3,580	1,340	54.0	1360.0	18	43	--	35
4S/3W-28C1	--	260	66.0	120.0	7	100	--	--
	--	210	42.0	120.0	6	110	--	--
	700	190	53.0	110.0	--	130	--	--
	610	170	46.0	100.0	--	130	--	--
4S/3W-28H1	1,100	340	62.0	240.0	4	330	--	--
	960	240	87.0	250.0	3	230	--	190
	1,200	290	120.0	220.0	5	290	--	230
4S/3W-29C3	650	160	62.0	120.0	3	210	--	--
4S/3W-29F3	650	170	57.0	130.0	6	230	--	--
4S/3W-29G2	600	190	31.0	230.0	5	96	--	79
	610	180	37.0	240.0	6	79	--	79

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)	Bromide, dissolved (mg/L)	Silica, dissolved (mg/L as SiO_2)	Dissolved solids (mg/L) (sum)	Dissolved solids (mg/L) (residue)	Nitrate, dissolved (mg/L as N)	Nitrite dissolved (mg/L as N)
4S/3W-26C2	4	1,600	2.0	--	--	--	3,210	0.68	--
	130	2,170	0.4	--	--	--	3,860	0.50	--
	66	1,410	0.4	--	--	--	2,420	<0.10	--
	66	1,560	0.4	--	--	--	2,890	<0.10	--
	36	1,420	0.5	--	--	--	2,730	<0.10	--
	32	1,490	0.5	--	--	--	2,760	<0.20	--
	18	1,380	0.5	--	--	--	2,600	<0.10	--
	560	1,290	1.2	--	--	--	2,930	3.3	--
4S/3W-26F1	330	2,440	0.5	--	--	--	4,580	0.79	--
	300	2,320	0.4	--	--	--	4,960	0.0	--
	290	2,460	0.0	--	--	--	6,100	0.09	--
	26	1,500	0.2	--	--	--	3,080	4.5	--
	--	--	--	--	--	--	--	--	--
4S/3W-26J1	50	340	0.3	--	--	--	--	1.4	--
	40	470	0.2	--	--	--	--	2.0	--
	30	460	0.6	--	--	--	--	0.45	--
	41	530	0.4	--	--	--	1,110	3.1	--
	31	590	0.4	--	--	--	1,360	2.9	--
	34	490	0.4	--	--	--	1,050	1.8	--
	30	710	0.4	--	--	--	1,460	3.8	--
	21	880	0.1	--	--	--	1,330	2.0	--
4S/3W-26K3	200	5,850	--	--	--	9,630	--	<0.20	--
	--	--	--	--	--	14,000	--	0.70	--
4S/3W-26M1	57	820	1.8	--	--	--	1,800	0.09	--
	65	960	1.4	--	--	--	1,780	<0.10	--
	81	920	0.9	--	--	--	1,710	<0.10	--
	55	460	1.6	--	--	--	970	2.0	--
	64	620	2.0	--	--	--	1,300	<0.10	--
	--	--	--	--	--	--	--	--	--
	64	680	1.7	--	--	--	1,450	<0.10	--
	59	--	1.6	--	--	--	1,400	<0.10	--
	180	1,700	1.3	--	--	--	--	0.90	--
	46	260	2.0	--	--	--	560	<0.01	--
4S/3W-26N1	<1	3,450	1.2	--	--	--	6,600	<1.0	--
	2	3,260	1.2	--	--	--	6,710	<0.10	--
	370	9,000	0.4	--	--	--	16,140	2.5	--
	220	4,710	1.1	--	--	--	8,600	2.9	--
	240	5,140	1.8	--	--	--	9,960	0.20	--
	220	8,660	0.2	--	--	--	14,800	<0.20	--
	440	9,200	0.5	--	--	--	15,800	<2.5	--
	260	4,900	0.9	--	--	--	12,500	0.10	--
4S/3W-28C1	84	690	0.7	--	--	--	1,680	5.0	--
	46	590	0.4	--	--	1,130	--	1.0	--
	--	590	0.2	--	--	--	--	1.1	--
	45	470	0.5	--	--	--	--	1.6	--
4S/3W-28H1	170	810	0.2	--	--	--	2,240	4.1	--
	140	780	0.6	--	--	--	2,230	12	--
	140	880	0.7	--	--	--	2,090	15	--
4S/3W-29C3	66	470	0.4	--	--	--	1,120	6.8	--
4S/3W-29F3	58	470	0.3	--	--	--	1,220	9.0	--
4S/3W-29G2	36	690	1.0	--	--	--	1,530	2.7	--
	40	700	0.8	--	--	--	1,770	2.9	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	$NO_3 + NO_2$, dissolved (mg/L as N)	Nitrogen ammonia, dissolved (mg/L as N)	Phosphorus, dissolved (mg/L)	Phosphorus ortho, dissolved (mg/L as P)	Arsenic, dissolved (µg/L)	Barium, dissolved (µg/L)	Beryllium, dissolved (µg/L)	Boron, dissolved (µg/L)	Cadmium, dissolved (µg/L)
4S/3W-26C2	--	--	--	--	<10	--	<10	200	<10
	--	--	--	--	--	--	--	1,100	7.0
	--	--	--	--	<10	--	<100	700	<5
	--	--	--	--	--	--	--	700	<5
	--	--	--	--	--	--	--	700	<5
	--	0.40	--	--	<10	--	<10	700	<1
	--	--	--	--	--	--	--	600	<5
	--	<0.078	--	--	<10	--	<10	3,100	<1
4S/3W-26F1	--	--	--	--	--	--	--	1,500	--
	--	--	--	--	--	--	--	1,600	--
	--	--	--	--	--	--	--	1,300	--
	--	--	--	--	<10	--	<10	200	<10
	--	--	--	--	<10	--	<10	--	10
4S/3W-26J1	--	--	--	--	--	--	--	300	--
	--	--	--	--	--	--	--	500	--
	--	--	--	--	--	--	--	600	--
	--	--	--	--	--	--	--	410	--
	--	--	--	--	--	--	--	440	--
	--	--	--	--	--	--	--	320	--
	--	--	--	--	--	--	--	460	--
	--	--	--	--	--	--	--	200	--
4S/3W-26K3	--	--	--	--	<10	--	--	--	--
	--	--	--	--	--	--	--	--	--
4S/3W-26M1	--	0.39	--	--	<10	--	<10	1,000	<10
	--	0.20	--	--	--	--	--	1,200	--
	--	--	--	--	<10	--	<10	1,300	9.0
	--	--	--	--	<10	--	<10	1,400	<5
	--	--	--	--	--	--	--	1,400	<5
	--	--	--	--	<10	--	<10	--	<1
	--	--	--	--	--	--	--	1,700	<5
	--	0.31	--	--	<10	<100	--	1,200	<1
	--	--	--	--	--	--	--	--	--
	--	<0.10	--	--	<10	--	<10	1,300	<1
4S/3W-26N1	--	0.39	--	--	<10	--	<10	600	10
	--	13	--	--	--	--	--	700	--
	--	--	--	--	<10	--	10	700	<10
	--	--	--	--	10	--	<10	1,300	<5
	--	--	--	--	<10	--	<10	1,700	<5
	--	0.16	--	--	<10	--	<10	800	<1
	--	--	--	--	<10	--	<10	700	<10
	--	--	--	--	<10	--	<10	1,000	<10
4S/3W-28C1	--	--	--	--	--	--	--	280	--
	--	--	--	--	--	--	--	450	--
	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	500	--
4S/3W-28H1	--	--	--	--	--	--	--	370	--
	--	--	--	--	--	--	--	260	--
	--	--	--	--	--	--	--	280	--
4S/3W-29C3	--	--	--	--	--	--	--	400	--
4S/3W-29F3	--	--	--	--	--	--	--	400	--
4S/3W-29G2	--	--	--	--	--	--	--	670	--
	--	--	--	--	--	--	--	580	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California–*Continued*

Well No.	Chromium, dissolved (µg/L)	Cobalt, dissolved (µg/L)	Copper, dissolved (µg/L)	Iron, dissolved (µg/L)	Lead, dissolved (µg/L)	Lithium, dissolved (µg/L)	Manganese, dissolved (µg/L)	Molybdenum, dissolved (µg/L)	Nickel, dissolved (µg/L)
4S/3W-26C2	<20	--	10	--	<50	--	--	--	10
	--	--	<50	--	60	--	--	--	<100
	--	--	<10	--	42	--	--	--	22
	--	--	<10	--	46	--	--	--	35
	--	<50	--	--	30	--	--	--	15
	<10	10	--	--	<5	--	--	--	<10
	--	<50	--	--	<20	--	--	--	<5
	<10	--	<10	--	<5	--	--	--	<20
4S/3W-26F1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	<20	--	10	--	<50	--	--	--	10
	<20	--	--	--	--	--	--	--	--
4S/3W-26J1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
4S/3W-26K3	--	--	--	--	<5	--	--	--	--
	--	--	--	--	--	--	--	--	--
4S/3W-26M1	<20	--	10	--	<50	--	--	--	<10
	--	--	--	--	--	--	--	--	--
	<20	--	<10	--	30	--	--	--	<10
	--	--	<10	--	<20	--	--	--	<5
	--	<50	--	--	<20	--	--	--	10
	<10	<10	--	--	<5	--	--	--	<10
	--	<50	--	--	<20	--	--	--	<5
	<10	--	<10	--	<5	--	--	--	20
	--	--	--	--	--	--	--	--	--
	<10	--	<10	--	5.0	--	--	--	<20
4S/3W-26N1	<20	--	20	--	<50	--	--	--	<10
	--	--	--	--	--	--	--	--	--
	<10	--	60	--	40	--	--	--	<10
	<20	--	28	--	200	--	--	--	120
	--	110	--	--	290	--	--	--	110
	<10	<10	--	--	<5	--	--	--	<10
	<10	<10	<10	--	<10	--	--	--	<20
	<10	--	30	--	<5	--	--	--	<20
4S/3W-28C1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
4S/3W-28H1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
4S/3W-29C3	--	--	--	--	--	--	--	--	--
4S/3W-29F3	--	--	--	--	--	--	--	--	--
4S/3W-29G2	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California–*Continued*

Well No.	Selenium, dissolved (µg/L)	Silver, dissolved (µg/L)	Strontium, dissolved (µg/L)	Vanadium, dissolved (µg/L)	Zinc, dissolved (µg/L)	Source of data
4S/3W-26C2	<5	10	--	--	20	Babcock
	--	<25	--	--	560	EMWD
	<5	<25	--	--	450	EMWD/Babcock
	--	<25	--	--	220	EMWD
	--	<25	--	--	<50	EMWD
	<5	<10	--	--	360	EMWD/Babcock
	--	<25	--	--	1,900	EMWD
	23	<10	--	--	480	Babcock
4S/3W-26F1	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	<5	10	--	--	20	Babcock
	<5	--	--	--	--	Babcock
4S/3W-26J1	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
4S/3W-26K3	--	--	--	--	--	Babcock
	--	--	--	--	--	Babcock
4S/3W-26M1	<5	10	--	--	20	Babcock
	--	--	--	--	--	Babcock
	<5	<25	--	--	400	EMWD/Babcock
	<5	<25	--	--	650	EMWD/Babcock
	--	<25	--	--	90	EMWD
	<5	<10	--	--	540	Babcock
	--	<25	--	--	80	EMWD
	<5	<10	--	--	40	Babcock
	--	--	--	--	--	Babcock
	<5	<10	--	--	130	Babcock
4S/3W-26N1	<5	10	--	--	50	Babcock
	--	--	--	--	--	Babcock
	10	<10	--	--	50	EMWD/Babcock
	<10	<25	--	--	860	EMWD/Babcock
	<5	<25	--	--	920	EMWD/Babcock
	<5	<10	--	--	1,100	EMWD/Babcock
	<5	<10	--	--	80	Babcock
	<25	<10	--	--	180	Babcock
4S/3W-28C1	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
4S/3W-28H1	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
4S/3W-29C3	--	--	--	--	--	EMWD
4S/3W-29F3	--	--	--	--	--	EMWD
4S/3W-29G2	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Date	Water level (ft blw LSD)	Well depth (ft)	Altitude of LSD (ft)	Specific conductance (µS/cm)		pH (lab) (Std. units)	Water temperature (°C)
					Field	Lab		
	6/14/73	--			--	2,300	8.0	21.0
	5/8/74	--			--	3,050	7.5	21.5
	5/13/76	--			--	2,600	7.8	22.0
	4/20/77	--			--	--	--	22.0
4S/3W-29K1	3/27/63	--	--	--	--	2,400	7.4	--
	4/19/77	--			--	2,910	7.7	--
4S/3W-29Q1	3/31/59	--	624	1,417	--	2,380	7.6	21.0
	4/10/60	--			--	--	7.2	--
	4/12/61	--			--	2,400	8.0	--
	9/27/61	--			--	2,450	8.0	23.0
	5/4/62	--			--	2,250	7.3	24.5
	10/3/69	--			--	1,860	7.0	20.0
	7/14/70	--			--	--	7.4	--
4S/3W-32B1	3/30/65	--	--	--	--	6,200	7.3	--
5S/2W-19N1	12/18/53	--	290.5	1,459	--	888	7.2	--
	12/16/54	--			--	867	7.2	--
	8/10/55	--			--	997	7.1	22.0
	9/18/56	--			--	1,060	--	22.0
	9/18/57	--			--	781	8.0	22.0
	10/14/58	--			--	738	7.7	29.0
	9/16/59	--			--	635	7.0	22.0
	9/14/60	--			--	657	8.2	23.5
	10/5/61	--			--	658	7.9	--
	9/25/62	--			--	668	7.0	22.0
	3/14/63	--			--	660	6.7	--
	9/27/63	--			--	698	7.0	23.5
	8/13/64	--			--	710	7.3	22.0
	9/27/65	--			--	755	7.0	24.5
	9/15/66	--			--	789	7.5	25.5
	9/29/67	--			--	848	7.9	23.5
	10/15/68	--			--	1,040	7.7	26.5
	10/23/69	--			--	990	7.6	26.5
	11/18/70	--			--	851	7.7	24.5
	11/4/71	--			--	649	8.0	24.5
	5/11/72	--			--	637	8.2	23.0
	9/27/73	--			--	700	8.0	22.0
	9/20/74	--			--	883	8.5	27.0
	9/30/75	--			--	888	8.2	21.5
	9/20/76	--			--	949	7.3	22.0
	10/28/77	--			--	1,050	8.1	22.0
	5/23/79	--			--	989	7.8	17.0
5S/2W-21M1	6/9/93		260	1,480	2,150	2,120	7.2	24.0
5S/2W-21M2	6/9/93	26.21	260	1,490	3,980	3,980	6.5	23.0
	1/21/94	--			3,690	3,720	6.7	22.0
5S/2W-27N1	6/8/93	--	59	1,491	6,780	6,720	6.3	21.5
	1/20/94	--			6,630	6,690	6.7	21.0
5S/2W-28E1	7/13/94	--	400.3	1,459	14,800	14,600	6.7	22.5
5S/2W-29N1	6/7/93	6.4	113.5	1,450	6,070	6,120	6.6	20.0
	1/20/94	8.48			5,050	5,100	6.1	21.5
	6/24/94	--			5,200	5,180	6	22.0
5S/2W-30C1	6/83	--	355.7	1,452	--	--	--	--
5S/2W-30D2	11/91	--	355	1,455	--	4,210	7.9	--
	6/25/93	--			4,330	4,400	6.2	22.5
	1/20/94	--			4,400	4,460	6.7	22.5
	6/17/94	--			4,450	4,480	6.2	22.5
5S/2W-30J1	4/6/75	--	300	1,445	--	7,800	6.8	--
5S/2W-31A1	11/6/92	--	--	--	--	2,000	7.6	--
5S/2W-31N1	4/24/75	--	33	1,450	--	893	7.8	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO_3)	Alkalinity (mg/L as $CaCO_3$)	
							Field	Lab
	570	170	37.0	220.0	3	84	--	68
	70	240	26.0	270.0	4	87	--	71
	690	210	38.0	230.0	6	93	--	76
	--	--	--	--	--	--	--	--
4S/3W-29K1	620	200	32.0	280.0	4	160	--	--
	900	290	43.0	240.0	10	150	--	130
4S/3W-29Q1	790	220	60.0	170.0	--	92	--	--
	690	220	37.0	170.0	5	100	--	--
	730	260	19.0	160.0	7	98	--	--
	800	280	24.0	190.0	11	100	--	--
	740	240	31.0	170.0	6	92	--	--
	700	220	38.0	97.0	5	150	--	--
	760	240	37.0	118.0	5	140	--	--
4S/3W-32B1	2,000	640	86.0	500.0	10	85	--	--
5S/2W-19N1	--	77	15.0	76.0	4	180	--	--
	--	73	15.6	71.8	3	160	--	--
	290	82	20.0	84.0	4	130	--	--
	320	86	26.0	95.0	--	150	--	--
	230	60	19.0	72.0	--	130	--	--
	180	52	13.0	64.0	--	140	--	--
	160	47	10.0	58.0	--	120	--	--
	190	54	12.0	64.0	4	120	--	--
	140	50	4.0	55.0	6	120	--	--
	170	57	7.0	62.0	3	120	--	--
	170	50	10.0	70.0	2	120	--	--
	160	48	10.0	58.0	2	110	--	--
	210	58	15.0	67.0	5	110	--	90
	200	57	13.0	69.0	3	130	--	110
	210	59	16.0	70.0	3	130	--	110
	220	61	17.0	81.0	3	150	--	120
	260	71	20.0	99.0	2	170	--	140
	250	69	19.0	98.0	2	190	--	150
	240	61	21.0	76.0	6	160	--	130
	150	42	11.0	61.0	3	110	--	86
	150	39	12.0	58.0	3	110	--	87
	190	46	14.0	77.0	2	120	--	99
	220	85	1.1	88.0	9	150	--	130
	230	67	15.0	83.0	3	140	--	120
	240	67	17.0	99.0	3	150	--	120
	300	80	24.0	120.0	3	150	--	120
	270	75	22.0	110.0	2	--	--	120
5S/2W-21M1	860	190	93.0	120.0	--	--	640	--
5S/2W-21M2	1,700	380	190.0	140.0	--	--	400	--
	1,700	370	180.0	140.0	18	--	360	--
5S/2W-27N1	1,500	370	140.0	950.0	--	--	340	--
	1,600	410	150.0	940.0	9	--	350	--
5S/2W-28E1	1,600	490	92.0	890.0	31	--	430	--
5S/2W-29N1	1,700	380	180.0	1300.0	--	--	210	--
	1,700	430	140.0	440.0	10	--	160	--
	1,700	440	150.0	480.0	10	--	160	--
5S/2W-30C1	--	96	35.4	140.0	4	150	--	--
5S/2W-30D2	1,200	390	61.0	270.0	8	200	--	160
	1,500	410	120.0	290.0	--	--	170	--
	1,600	430	120.0	280.0	7	--	160	--
	1,600	410	130.0	290.0	9	--	170	--
5S/2W-30J1	1,400	330	135.0	830.0	8	230	--	--
5S/2W-31A1	--	150	70.0	250.0	32	340	--	--
5S/2W-31N1	250	63	22.0	79.0	6	130	--	100

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)	Bromide, dissolved (mg/L)	Silica, dissolved (mg/L as SiO_2)	Dissolved solids (mg/L) (sum)	Dissolved solids (mg/L) (residue)	Nitrate, dissolved (mg/L as N)	Nitrite dissolved (mg/L as N)
	35	650	0.7	--	--	--	2,040	3.3	--
	40	830	0.7	--	--	--	1,940	2.9	--
	40	750	0.9	--	--	--	2,230	3.2	--
	--	--	--	--	--	--	1,630	--	--
4S/3W-29K1	25	720	0.4	--	16	--	1,560	1.1	--
	65	870	--	--	11	--	2,520	6.1	--
4S/3W-29Q1	45	710	0.7	--	--	--	1,260	1.6	--
	38	660	0.6	--	--	--	--	3.2	--
	20	720	0.4	--	--	--	--	2.3	--
	150	690	0.6	--	--	--	--	1.8	--
	32	710	0.4	--	--	--	--	1.8	--
	47	510	0.4	--	--	--	1,110	3.6	--
	58	580	0.3	--	--	--	1,690	5.7	--
4S/3W-32B1	35	3,000	0.4	--	--	--	5,340	0.45	--
5S/2W-19N1	53	150	0.3	--	--	--	600	4.3	--
	56	140	0.0	--	--	--	570	6.6	--
	65	200	0.1	--	--	--	760	4.9	--
	78	220	0.0	--	--	--	--	2.0	--
	55	150	0.2	--	--	--	--	2.0	--
	30	110	0.0	--	--	--	--	4.5	--
	30	100	0.0	--	--	--	--	2.0	--
	60	99	0.1	--	--	--	--	4.5	--
	35	89	0.3	--	--	--	--	3.6	--
	36	1,220	0.1	--	--	--	420	3.4	--
	40	110	0.2	--	55	--	490	5.9	--
	28	120	0.2	--	--	--	390	2.7	--
	40	150	0.3	--	--	--	460	4.1	--
	36	110	0.3	--	--	--	530	11	--
	42	120	0.3	--	--	--	470	14	--
	47	120	0.3	--	--	--	620	17	--
	84	140	0.1	--	--	--	600	17	--
	89	120	0.3	--	--	--	600	9.3	--
	70	130	0.2	--	--	--	500	7.2	--
	39	100	0.2	--	--	--	440	6.8	--
	40	96	0.3	--	--	--	400	5.7	--
	51	110	0.2	--	--	--	520	7.9	--
	72	130	0.2	--	--	--	590	9.0	--
	76	120	0.3	--	--	--	600	13	--
	120	120	0.4	--	--	--	620	12	--
	180	130	0.6	--	--	--	850	17	--
	160	130	0.4	--	--	--	720	15	--
5S/2W-21M1	140	190	--	--	58	--	--	35	<0.02
5S/2W-21M2	360	570	--	--	59	--	--	140	<0.02
	350	540	--	--	59	--	--	140	0.40
5S/2W-27N1	1,120	1,460	--	--	--	--	--	3.3	<0.25
	1,110	1,490	--	--	--	--	--	6.4	0.03
5S/2W-28E1	930	4,800	<0.10	9.4	57	8,020	--	2.2	<0.01
5S/2W-29N1	150	110	--	--	--	--	--	--	<0.02
	920	1,160	--	--	54	--	--	12	0.03
	930	1,160	<2.5	--	58	--	--	13	<0.010
5S/2W-30C1	51	300	--	--	43	--	--	--	--
5S/2W-30D2	280	1,100	--	--	69	--	3,280	12	--
	--	--	--	--	66	--	--	--	--
	--	--	--	--	63	--	--	12	
	--	--	--	--	59	--	--	12	<0.010
5S/2W-30J1	710	1,630	0.3	--	--	--	4,220	6.1	--
5S/2W-31A1	750	100	0.7	--	--	1,520	1,610	<0.09	--
5S/2W-31N1	100	120	0.3	--	--	--	590	15	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	$NO_3 + NO_2$, dissolved (mg/L as N)	Nitrogen ammonia, dissolved (mg/L as N)	Phosphorus, dissolved (mg/L)	Phosphorus ortho, dissolved (mg/L as P)	Arsenic, dissolved (µg/L)	Barium, dissolved (µg/L)	Beryllium, dissolved (µg/L)	Boron, dissolved (µg/L)	Cadmium, dissolved (µg/L)
	--	--	--	--	--	--	--	500	--
	--	--	--	--	--	--	--	770	--
	--	--	--	--	--	--	--	620	--
	--	--	--	--	--	--	--	--	--
4S/3W-29K1	--	--	--	--	--	--	--	690	--
	--	--	--	--	--	--	--	200	--
4S/3W-29Q1	--	--	--	--	--	--	--	400	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	400	--
	--	--	--	--	--	--	--	230	--
	--	--	--	--	--	--	--	--	--
4S/3W-32B1	--	--	--	--	--	--	--	700	--
5S/2W-19N1	--	--	--	--	--	--	--	160	--
	--	--	--	--	--	--	--	150	--
	--	--	--	--	--	--	--	0	--
	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	90	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	60	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	300	--
	--	--	--	--	--	--	--	20	--
	--	--	--	--	--	--	--	30	--
	--	--	--	--	--	--	--	20	--
	--	--	--	--	--	--	--	10	--
	--	--	--	--	--	--	--	0	--
	--	--	--	--	--	--	--	0	--
	--	--	--	--	--	--	--	20	--
	--	--	--	--	--	--	--	60	--
	--	--	--	--	--	--	--	0	--
	--	--	--	--	--	--	--	180	--
	--	--	--	--	--	--	--	240	--
	--	--	--	--	--	--	--	0	--
	--	--	--	--	--	--	--	40	--
	--	--	--	--	--	--	--	60	--
5S/2W-21M1	35	--	--	<0.4	--	150	4.0	--	--
5S/2W-21M2	140	--	--	--	--	190	3.0	--	--
	140	0.08	--	0.11	7.0	170	<2	230	--
5S/2W-27N1	3.3	--	--	5.0	--	<100	<10	--	--
	6.4	0.06	--	0.02	<1.0	--	--	2,500	--
5S/2W-28E1	2.2	0.26	--	0.22	3.0	400	<10	100	--
5S/2W-29N1	<0.02	--	--	0.60	--	<100	<10	--	--
	12	0.06	--	0.04	1.0	23	<2	1,300	--
	13	0.03	--	0.04	1.0	23	<2	1,400	--
5S/2W-30C1	--	--	--	<0.03	<100	50	<1	<5	<7
5S/2W-30D2	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	79	<2	--	--
	12	0.06	--	0.06	1.0	74	<2	130	--
	12	0.06	--	0.07	1.0	79	<2	130	--
5S/2W-30J1	--	<1.0	--	--	--	--	--	700	--
5S/2W-31A1	--	--	--	--	--	--	--	700	--
5S/2W-31N1	--	--	--	--	--	--	--	50	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Chromium, dissolved (µg/L)	Cobalt, dissolved (µg/L)	Copper, dissolved (µg/L)	Iron, dissolved (µg/L)	Lead, dissolved (µg/L)	Lithium, dissolved (µg/L)	Manganese, dissolved (µg/L)	Molybdenum, dissolved (µg/L)	Nickel, dissolved (µg/L)
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
4S/3W-29K1	--	--	--	--	--	--	--	--	--
	--	--	--	100	--	--	--	--	--
4S/3W-29Q1	--	--	--	--	--	--	--	--	--
	--	--	--		--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	2,000	--	--	0	--	--
4S/3W-32B1	--	--	--	--	--	--	--	--	--
5S/2W-19N1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
5S/2W-21M1	<20	<9	<30	10	<30	110	<3	<30	<30
5S/2W-21M2	<20	<9	<30	20	<30	160	320	40	<30
	<20	<9	<30	20	<30	170	220	<30	<30
5S/2W-27N1	3.0	2	5.0	70	<1	30	100	1	4.0
	1.0	<1	4.0	460	<1	30	80	1	4.0
5S/2W-28E1	4.0	3	<1	100	<1	190	790	6	5.0
5S/2W-29N1	8.0	<1	1.0	<10	<1	40	230	14	2.0
	<20	<9	<30	<9	<30	40	1,100	<30	<30
	<20	<9	<30	<9	<30	50	1,100	<30	<30
5S/2W-30C1	<10	<9	<2	1,600	<50	30	12	<80	<40
5S/2W-30D2	--	--	10	150	--	--	<10	--	--
	<20	<9	<30	9	<30	30	94	30	<30
	<20	<9	<30	10	<30	30	150	<30	<30
	<20	<9	<30	10	<30	30	210	<30	<30
5S/2W-30J1	--	--	--	--	--	--	--	--	--
5S/2W-31A1	--	--	--	--	--	--	--	--	--
5S/2W-31N1	--	--	--	--	--	--	--	--	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Selenium, dissolved (µg/L)	Silver, dissolved (µg/L)	Strontium, dissolved (µg/L)	Vanadium, dissolved (µg/L)	Zinc, dissolved (µg/L)	Source of data
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	EMWD
4S/3W-29K1	--	--	--	--	--	RCFCD
	--	--	--	--	--	EMWD/Babcock
4S/3W-29Q1	--	--	--	--	--	RCFCD
	--	--	--	--	--	DPH
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	EMWD
	--	--	--	--	--	DPH
4S/3W-32B1	--	--	--	--	--	Babcock
5S/2W-19N1	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD
5S/2W-21M1	--	<3.0	850	24	250	USGS
5S/2W-21M2	--	<3.0	1,700	<18	540	USGS
	<1	<3.0	1,400	19	230	USGS
5S/2W-27N1	--	<1.0	1,700	--	110	USGS
	6.0	<1.0	--	37	90	USGS
5S/2W-28E1	--	<1.0	4,100	120	180	USGS
5S/2W-29N1	--	<1.0	3,300	--	30	USGS
	7.0	<3.0	2,600	21	10	USGS
	--	<3.0	2,800	<18	<9	USGS
5S/2W-30C1	<100	<0.003	200	<3	110	Vetter Research
5S/2W-30D2	<5	--	--	--	<10	Babcock
	--	<3.0	2,200	<18	10	USGS
	6.0	<3.0	2,100	<18	30	USGS
	--	<3.0	2,400	<18	<9	USGS
5S/2W-30J1	--	--	--	--	--	EMWD
5S/2W-31A1	--	--	--	--	--	EMWD
5S/2W-31N1	--	--	--	--	--	DWR

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Date	Water level (ft blw LSD)	Well depth (ft)	Altitude of LSD (ft)	Specific conductance (µS/cm)		pH (lab) (Std. units)	Water temperature (°C)
					Field	Lab		
5S/2W-31R1	7/16/87	--	--	--	--	525	7.4	--
5S/2W-33E1	2/26/81	--	--	--	--	1,900	7.1	--
	5/11/81	--			--	1,400	--	--
5S/3W-2Q1	11/19/93	--	--	1,520	671	674	7.8	22.0
5S/3W-3C1	11/2/93	--	250.8	1,420	--	7,400	7.3	--
5S/3W-3L1	10/29/93	--	252	1,425	--	3,300	7.6	--
5S/3W-3N1	10/22/93	--	577.8	1,415	--	4,700	6.8	--
5S/3W-3Q2	5/22/75	--	--	--	--	903	7.7	--
5S/3W-3R2	4/18/77	--	--	--	--	--	--	--
5S/3W-4A1	11/5/93	--	209.4	1,415	--	3,800	7.6	--
5S/3W-4M1	10/15/93	--	251.3	1,412	--	18,000	7.0	--
5S/3W-9E1	10/26/93	--	238.4	1,415	--	3,100	7.7	--
5S/3W-9H2	10/21/93	--	250.6	1,420	--	2,650	6.6	--
5S/3W-9Q1	6/7/83	--	600	1,421	--	1,760	6.7	26.5
5S/3W-11M1	12/18/53	--	615	1,451	--	448	7.6	24.0
5S/3W-11M2	7/28/55	--	787	1,451	--	1,230	--	23.5
	9/18/56	--			--	1,360	--	23.0
	9/17/57	--			--	1,380	8.1	22.0
	10/14/58	--			--	1,430	6.8	24.5
	4/7/59	--			--	1,440	6.5	23.5
	9/14/60	--			--	1,420	6.5	23.5
	9/28/61	--			--	1,510	7.1	23.5
	9/21/62	--			--	1,100	6.9	22.0
	9/27/63	--			--	1,430	6.6	24.5
	4/16/64	--			--	1,490	7.1	23.5
	4/28/70	--			--	1,770	8.1	22.0
	11/4/71	--			--	1,520	7.9	23.5
	5/11/72	--			--	1,520	8.4	24.0
	9/27/73	--			--	1,190	8.1	23.5
	5/16/75	--			--	1,400	6.5	--
	4/22/77	--			--	1,500	7.2	24.5
	5/11/81	--			--	1,450	6.8	23.0
	6/7/83	--			--	1,280	7.0	24.0
5S/3W-13A1	9/17/77	--			--	600	7.6	23.5
	5/11/81	--			--	625	7.9	23.5
	11/18/93	--	431	1,522	890	897	7.5	22.0
5S/3W-13H1	11/18/93	--	460	1,518	1,160	1,170	7.4	21.5
	1/25/94	--			1,110	1,110	7.5	22.0
5S/3W-14P1	5/30/75	--	250	1,447	--	1,270	8.0	23.0
	4/22/77	--			--	--	--	--
	7/9/85	--			--	1,570	6.4	--
5S/3W-15H1	11/19/93	--	220	1,435	1,500	1,520	7.2	21.5
5S/3W-16D1	11/18/93	--	160	1,417	3,300	3,320	7.6	20.0
5S/3W-16F1	11/18/93	--	--	1,419	1,400	1,420	7.6	21.0
5S/3W-16P1	8/9/55	--	--	--	--	1,660	--	22.0
	5/9/56	--			--	1,490	--	21.0
	9/18/56	--			--	1,540	--	22.0
	5/27/57	--			--	1,410	7.5	20.5
	9/27/57	--			--	1,340	6.9	21.5
	5/8/58	--			--	1,290	6.6	22.0
5S/3W-16P2	4/18/77	--	568	1,425	--	2,290	6.5	24.0
	5/11/81	--			--	2,900	6.7	23.5
	6/7/83	--			--	3,100	6.9	--
5S/3W-17R1	8/30/91	--	370	1,445	--	2,100	7.7	--
5S/3W-17R2	1/26/95	--	220	1,460	--	--	--	--
5S/3W-21C1	11/7/75	--	--	--	--	4,500	6.9	--
	4/19/77	--			--	--	--	--
5S/3W-21D1	9/25/62	--	356	--	--	630	7.7	23.5

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO_3)	Alkalinity (mg/L as $CaCO_3$)	
							Field	Lab
5S/2W-31R1	170	--	--	52.0	6	--	--	--
5S/2W-33E1	500	120	47.0	200.0	3	150	--	--
	--	--	--	--	--	--	--	--
5S/3W-2Q1	170	45	13.0	68.0	6	--	170	--
5S/3W-3C1	2,100	680	88.0	690.0	17	24	--	20
5S/3W-3L1	1,100	350	56.0	270.0	12	210	--	180
5S/3W-3N1	1,800	500	120.0	260.0	13	380	--	310
5S/3W-3Q2	180	59	7.5	96.0	4	73	--	60
5S/3W-3R2	--	--	--	--	--	--	--	--
5S/3W-4A1	500	150	27.0	620.0	9	180	--	150
5S/3W-4M1	7,300	2,220	410.0	1300.0	26	270	--	220
5S/3W-9E1	1,100	320	82.0	160.0	6	310	--	250
5S/3W-9H2	950	260	72.0	130.0	8	290	--	240
5S/3W-9Q1	690	200	48.7	92.0	7	460	--	460
5S/3W-11M1	--	17	5.0	70.0	2	110	--	--
5S/3W-11M2	--	100	35.0	98.0	--	290	--	--
	430	110	36.0	100.0	--	290	--	--
	470	130	38.0	99.0	--	180	--	--
	480	130	36.0	99.0	--	160	--	--
	500	150	32.0	98.0	--	260	--	--
	520	170	21.0	90.0	12	260	--	--
	480	160	21.0	89.0	14	240	--	--
	380	110	27.0	70.0	8	170	--	--
	470	140	28.0	90.0	10	240	--	200
	470	140	30.0	84.0	12	250	--	210
	660	170	54.0	96.0	11	290	--	240
	510	140	41.0	86.0	9	260	--	210
	530	140	44.0	160.0	8	270	--	230
	360	97	29.0	90.0	7	200	--	170
	510	130	41.0	88.0	9	260	--	--
	490	150	25.0	90.0	12	250	--	200
	530	140	43.0	95.0	9	260	--	--
	480	130	35.8	87.5	8	180	--	180
5S/3W-13A1	180	47	16.0	59.0	5	200	--	--
	190	48	16.0	62.0	5	200	--	--
	270	70	23.0	72.0	5	--	180	--
5S/3W-13H1	370	96	31.0	87.0	6	--	180	--
	330	87	27.0	78.0	6	--	160	--
5S/3W-14P1	410	110	31.0	75.0	3	150	--	120
	--	--	--	--	--	--	--	--
	570	160	44.0	93.0	4	240	--	190
5S/3W-15H1	520	140	42.0	84.0	3	--	150	--
5S/3W-16D1	810	230	56.0	360.0	5	--	290	--
5S/3W-16F1	420	120	28.0	100.0	3	--	110	--
5S/3W-16P1	690	170	61.0	63.0	--	290	--	--
	540	150	38.0	68.0	--	350	--	--
	580	150	47.0	63.0	--	300	--	--
	560	140	51.0	61.0	--	310	--	--
	540	150	41.0	58.0	--	320	--	260
	560	150	47.0	60.0	--	410	--	--
5S/3W-16P2	1,100	290	81.0	100.0	7	540	--	--
	1,200	350	76.0	140.0	8	390	--	--
	1,600	430	110.0	150.0	9	780		780
5S/3W-17R1	900	200	99.0	73.0	5	210	--	170
5S/3W-17R2	--	--	--	--	--	--	--	--
5S/3W-21C1	1,500	470	90.0	190.0	12	390	--	--
	--	--	--	--	--	--	--	--
5S/3W-21D1	180	61	6.0	56.0	3	120	--	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California–*Continued*

Well No.	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)	Bromide, dissolved (mg/L)	Silica, dissolved (mg/L as SiO_2)	Dissolved solids (mg/L) (sum)	Dissolved solids (mg/L) (residue)	Nitrate, dissolved (mg/L as N)	Nitrite dissolved (mg/L as N)
5S/2W-31R1	--	--	0.5	--	--	310	--	3.8	--
5S/2W-33E1	150	440	0.5	--	--	--	1,240	9.6	--
	--	--	--	--	--	1,010	--	--	--
5S/3W-2Q1	--	--	--	--	32	--	--	--	<0.010
5S/3W-3C1	110	2,400	0.1	--	--	--	5,090	2.9	<0.10
5S/3W-3L1	34	1,040	0.2	--	--	--	2,710	5.0	<0.10
5S/3W-3N1	58	1,400	0.5	--	--	--	3,490	1.4	<0.10
5S/3W-3Q2	24	220	0.7	--	--	--	640	1.9	--
5S/3W-3R2	--	--	--	--	--	--	1,280	--	--
5S/3W-4A1	240	1,100	0.2	--	--	--	2,260	3.4	<0.10
5S/3W-4M1	370	6,700	0.1	--	--	--	14,000	1.8	<0.10
5S/3W-9E1	150	780	0.3	--	--	--	1,970	8.6	<0.10
5S/3W-9H2	62	660	0.2	--	--	--	1,860	7.5	<0.10
5S/3W-9Q1	41	270	--	--	58	--	1,220	0.45	--
5S/3W-11M1	16	70	0.5	--	--	--	260	3.6	--
5S/3W-11M2	100	190	0.2	--	--	680	--	2.0	--
	39	280	0.0	--	--	730	--	1.6	--
	35	310	0.2	--	--	760	--	1.6	--
	40	320	0.0	--	--	770	--	2.7	--
	40	320	0.0	--	--	780	--	1.1	--
	30	340	0.0	--	--	800	--	1.8	--
	80	280	0.1	--	--	780	--	2.3	--
	48	240	--	--	--	--	680	1.4	--
	28	310	0.1	--	--	--	870	2.7	--
	45	280	0.1	--	--	--	860	3.6	--
	48	390	0.2	--	--	--	1,190	5.2	--
	43	310	0.2	--	--	--	990	4.8	--
	43	310	0.3	--	--	--	990	3.8	--
	38	230	0.2	--	--	--	1,000	5.2	--
	43	300	0.1	--	--	--	950	1.0	--
	45	340	--	--	24	--	1,040	5.4	--
	51	320	0.4	--	--	--	980	6.1	--
	39	290	--	--	50	--	920	1.0	--
5S/3W-13A1	27	73	0.6	--	--	--	400	5.7	--
	26	79	0.7	--	--	--	400	7.5	--
	55	130	--	--	46	--	--	13	<0.010
5S/3W-13H1	80	180	--	--	48	--	--	--	<0.010
	83	180	--	--	43	--	--	--	0.03
5S/3W-14P1	38	280	0.3	--	--	--	1,120	6.1	--
	--	--	--	--	--	--	840	--	--
	470	60	--	--	--	--	1,260	6.3	--
5S/3W-15H1	73	340	--	--	55	--	--	12	0.20
5S/3W-16D1	270	740	--	--	52	--	--	19	<0.010
5S/3W-16F1	37	340	--	--	41	--	--	11	0.20
5S/3W-16P1	74	280	0.1	--	--	--	--	1.8	--
	50	220	0.0	--	--	--	--	2.9	--
	76	300	0.0	--	--	--	--	1.6	--
	70	270	0.1	--	--	--	--	1.8	--
	55	260	0.0	--	--	730	--	2.5	--
	50	210	0.0	--	--	--	--	3.2	--
5S/3W-16P2	120	490	0.2	--		--	1,590	5.7	--
	180	680	0.3	--	--	--	2,150	7.2	--
	240	450	--	--	54	--	2,790	0.38	--
5S/3W-17R1	200	470	0.2	--	59	--	1,430	5.7	--
5S/3W-17R2	--	--	0.4	--	--	--	530	13	--
5S/3W-21C1	150	1,060	5.0	--	--	--	3,060	7.0	--
	--	--	--	--	--	--	2,950	--	--
5S/3W-21D1	50	82	0.2	--	--	--	420	9.5	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	$NO_3 + NO_2$, dissolved (mg/L as N)	Nitrogen ammonia, dissolved (mg/L as N)	Phosphorus, dissolved (mg/L)	Phosphorus ortho, dissolved (mg/L as P)	Arsenic, dissolved (µg/L)	Barium, dissolved (µg/L)	Beryllium, dissolved (µg/L)	Boron, dissolved (µg/L)	Cadmium, dissolved (µg/L)
5S/2W-31R1	--	--	--	--	--	--	--	100	--
5S/2W-33E1	--	--	--	--	--	--	--	300	--
	--	--	--	--	--	--	--	--	--
5S/3W-2Q1	13	0.02	--	0.15	2.0	58	0.70	160	<1
5S/3W-3C1	--	--	--	--	<5	200	--	--	<1
5S/3W-3L1	--	--	--	--	<5	600	--	--	<1
5S/3W-3N1	--	--	--	--	<5	400	--	--	<1
5S/3W-3Q2	--	--	--	--	--	--	--	200	--
5S/3W-3R2	--	--	--	--	--	--	--	--	--
5S/3W-4A1	--	--	--	--	<5	<100	--	--	<1
5S/3W-4M1	--	--	--	--	<5	200	--	--	2.0
5S/3W-9E1	--	--	--	--	<5	200	--	--	<1
5S/3W-9H2	--	--	--	--	<5	200	--	--	<1
5S/3W-9Q1	--	0.06	--	11	--	--	--	150	--
5S/3W-11M1	--	--	--	--	--	--	--	60	--
5S/3W-11M2	--	--	--	--	--	--	--	90	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	90	--
	--	--	--	--	--	--	--	150	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	40	--
	--	--	--	--	--	--	--	90	--
	--	--	--	--	--	--	--	170	--
	--	--	--	--	--	--	--	0	--
	--	<1.0	--	--	--	--	--	200	--
	--	0.00	--	0.10	--	--	--	0	--
	--	--	--	--	--	--	--	500	--
	--	0.06	--	9.0	--	--	--	20	--
5S/3W-13A1	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	300	--
	13	0.04	--	0.02	4.0	260	<0.5	70	--
5S/3W-13H1	13	0.02	--	0.02	4.0	200	<0.5	60	--
	14	0.02	--	0.02	5.0	190	<0.5	60	--
5S/3W-14P1	--	--	--	--	--	--	--	60	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	100	--
5S/3W-15H1	12	0.03	--	0.05	1.0	140	<0.5	70	--
5S/3W-16D1	19	0.03	--	0.02	1.0	66	<0.5	1,500	--
5S/3W-16F1	12	0.03	--	0.02	<1	180	<0.5	80	--
5S/3W-16P1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	40	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	550	--
	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	300	--
5S/3W-16P2	--	--	--	--	--	--	--	400	--
	--	--	--	--	--	--	--	700	--
	--	0.05	--	10	--	--	--	120	--
5S/3W-17R1	--	--	--	--	<10	100	--	<100	<1
5S/3W-17R2	--	--	--	--	--	--	--	--	--
5S/3W-21C1	--	--	--	--	--	--	--	300	--
	--	--	--	--	--	--	--	--	--
5S/3W-21D1	--	--	--	--	--	--	--	100	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Chromium, dissolved (μg/L)	Cobalt, dissolved (μg/L)	Copper, dissolved (μg/L)	Iron, dissolved (μg/L)	Lead, dissolved (μg/L)	Lithium, dissolved (μg/L)	Manganese, dissolved (μg/L)	Molybdenum, dissolved (μg/L)	Nickel, dissolved (μg/L)
5S/2W-31R1	--	--	--	50	--	--	50	--	--
5S/2W-33E1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-2Q1	<5	<3	<10	<3	<10	10	<1	20	<10
5S/3W-3C1	<10	--	<10	<20	<5	--	30	--	--
5S/3W-3L1	<10	--	<10	<20	<5	--	40	--	--
5S/3W-3N1	<10	--	<10	450	<5	--	140	--	--
5S/3W-3Q2	--	--	--	--	--	--	--	--	--
5S/3W-3R2	--	--	--	--	--	--	--	--	--
5S/3W-4A1	<10	--	<10	<20	<5	--	<10	--	--
5S/3W-4M1	<10	--	<10	400	<5	--	80	--	--
5S/3W-9E1	<10	--	<10	30	<5	--	40	--	--
5S/3W-9H2	<10	--	<10	5,800	6.0	--	170	--	--
5S/3W-9Q1	--	--	--	<20	--	--	--	--	--
5S/3W-11M1	--	--	--	--	--	--	--	--	--
5S/3W-11M2	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--		--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	<20	--	--	--	--	--
5S/3W-13A1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	<5	<3	<10	<3	<10	9	7	<10	<10
5S/3W-13H1	<5	<3	<10	5	<10	20	6	<10	<10
	<5	<3	<10	20	<10	20	2	<10	<10
5S/3W-14P1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-15H1	<5	<3	<10	<3	<10	10	10	<10	<10
5S/3W-16D1	<5	<3	<10	4	<10	20	1	<10	<10
5S/3W-16F1	<5	<3	<10	<3	<10	7	<1	<10	<10
5S/3W-16P1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-16P2	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	<20	--	--	--	--	--
5S/3W-17R1	<10	--	<10	70	<5	--	<10	--	--
5S/3W-17R2	--	--	--	--	--	--	--	--	--
5S/3W-21C1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-21D1	--	--	--	--	--	--	--	--	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Selenium, dissolved (µg/L)	Silver, dissolved (µg/L)	Strontium, dissolved (µg/L)	Vanadium, dissolved (µg/L)	Zinc, dissolved (µg/L)	Source of data
5S/2W-31R1	--	--	--	--	--	EMWD
5S/2W-33E1	--	--	--	--	--	EMWD
	--	--	--	--	--	EMWD
5S/3W-2Q1	<1	<1.0	170	50	<3	USGS
5S/3W-3C1	<5	<10	--	--	290	Babcock
5S/3W-3L1	<5	<10	--	--	260	Babcock
5S/3W-3N1	<5	<10	--	--	260	Babcock
5S/3W-3Q2	--	--	--	--	--	DWR
5S/3W-3R2	--	--	--	--	--	EMWD
5S/3W-4A1	6.0	<10	--	--	40	Babcock
5S/3W-4M1	<10	<10	--	--	860	Babcock
5S/3W-9E1	<5	<10	--	--	570	Babcock
5S/3W-9H2	<5	<10	--	--	1,100	Babcock
5S/3W-9Q1	--	--	--	--	--	WA
5S/3W-11M1	--	--	--	--	--	RCFCD
5S/3W-11M2	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD *
	--	--	--	--	--	EMWD
	--	--	--	--	--	Babcock
	--	--	--	--	--	EMWD
	--	--	--	--	--	WA
5S/3W-13A1	--	--	--	--	--	EMWD
	--	--	--	--	--	EMWD
	2.0	<1.0	370	30	4	USGS
5S/3W-13H1	2.0	<1.0	480	24	7	USGS
	2.0	<1.0	430	26	<3	USGS
5S/3W-14P1	--	--	--	--	--	DWR
	--	--	--	--	--	EMWD
	--	--	--	--	--	Babcock
5S/3W-15H1	1.0	<1.0	740	19	270	USGS
5S/3W-16D1	5.0	<1.0	1,400	29	100	USGS
5S/3W-16F1	2.0	<1.0	720	22	380	USGS
5S/3W-16P1	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
5S/3W-16P2	--	--	--	--	--	EMWD
	--	--	--	--	--	EMWD
	--	--	--	--	--	WA
5S/3W-17R1	7.0	<10	--	--	40	Babcock
5S/3W-17R2	--	--	--	--	--	Babcock
5S/3W-21C1	--	--	--	--	--	EMWD
	--	--	--	--	--	EMWD
5S/3W-21D1	--	--	--	--	--	RCFCD

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Date	Water level (ft blw LSD)	Well depth (ft)	Altitude of LSD (ft)	Specific conductance (µS/cm)		pH (lab) (Std. units)	Water temperature (°C)
					Field	Lab		
	4/23/63	--			--	716	7.6	25.5
	9/27/63	--			--	1,250	7.6	28.0
	4/17/64	--			--	726	7.7	16.5
	8/13/64	--			--	680	7.7	22.0
	3/30/65	--			--	1,180	8.2	20.0
	9/24/65	--			--	2,030	7.6	25.5
	3/23/66	--			--	1,050	7.7	22.0
	9/15/66	--			--	1,740	7.7	28.0
	5/11/67	--			--	1,080	7.8	19.0
	9/29/67	--			--	3,710	7.6	22.0
	4/23/68	--			--	2,950	7.6	24.5
	4/22/69	--			--	1,500	7.6	23.5
	10/23/69	--			--	3,940	7.5	23.5
	4/28/70	--			--	1,990	8.0	22.0
	11/18/70	--			--	1,990	8.1	24.5
	4/30/71	--			--	1,900	8.2	24.5
5S/3W-21D2	3/25/60	--	452	--	--	2,110	7.5	24.5
	9/14/60	--			--	2,170	7.4	24.5
	4/13/61	--			--	2,380	8.0	26.0
	9/28/61	--			--	2,380	8.1	24.5
	9/24/62	--			--	2,440	7.5	26.0
	4/17/64	--			--	2,620	7.5	26.0
	8/13/64	--			--	2,500	8.0	24.5
	3/23/66	--			--	2,690	7.7	24.5
	5/11/67	--			--	2,540	7.7	26.0
	10/15/68	--			--	2,090	7.7	25.5
	4/30/71	--			--	2,770	7.8	23.5
	4/27/73	--			--	1,790	7.7	24.5
	9/26/73	--			--	3,030	7.6	26.0
	5/3/74	--			--	3,640	7.4	26.0
	9/24/74	--			--	2,980	8.0	21.0
	11/7/75	--			--	3,900	7.3	24.0
	4/20/77	--			--	--	--	--
5S/3W-24C1	11/18/93	--	505	1,480	921	927	7.4	21.0
	1/25/94	--			910	913	7.3	21.0
	6/24/94	--			832	827	7.0	30.5
5S/3W-24F2	6/15/94	--	691	1,475	695	698	7.7	23.5
5S/3W-24F3	6/15/94	--	403.8	1,475	3,790	3,810	6.4	23.5
5S/3W-24F4	6/15/94	--	155.1	1,475	1,880	1,890	6.8	22.0
5S/3W-28M1	9/11/90	--	430	1,420	--	238	6.9	--
	1/31/91	72.89			1,690	1,690	7.8	22.5
	6/13/91	69.08			1,730	1,750	7.5	23.0
	8/30/91	69.13			1,730	1,740	7.3	23.0
	1/30/92	67.83			1,710	1,600	7.5	23.0
	8/19/92	62.79			1,740	1,750	8.0	24.0
	12/10/93	--			1,760	1,770	7.4	22.5
5S/3W-28M2	1/31/91	72.52	370	1,420	2,380	2,430	7.3	21.5
	6/13/91	68.84			2,420	2,300	7.3	22.5
	8/30/91	68.73			2,440	2,460	7.2	23.0
	1/31/92	67.61			2,410	2,400	7.3	22.5
	8/19/92	62.62			2,420	2,440	7.8	24.0
	12/10/93	--			2,420	2,440	7.1	21.0
5S/3W-28M3	1/31/91	62.11	242	1,420	5,380	5,520	6.6	21.5
	6/14/91	60.11			5,450	5,550	6.6	22.0
	8/30/91	59.18			5,450	5,540	6.5	22.5
	1/31/92	59.3			5,410	5,550	6.8	21.5
	8/28/92	55.64			5,460	5,270	6.9	22.0
	12/10/93	--			5,530	5,550	6.4	21.0

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO_3)	Alkalinity (mg/L as $CaCO_3$)	
							Field	Lab
	230	73	11.0	55.0	3	130	--	--
	430	130	25.0	68.0	4	120	--	--
	200	57	15.0	64.0	4	120	--	--
	210	70	9.0	55.0	3	130	--	--
	350	90	31.0	110.0	5	150	--	--
	750	220	51.0	96.0	6	140	--	--
	320	92	22.0	68.0	4	120	--	--
	650	180	46.0	81.0	5	140	--	--
	360	100	26.0	71.0	3	120	--	--
	1,600	460	120.0	130.0	10	180	--	150
	1,200	360	82.0	110.0	7	170	--	140
	510	150	36.0	81.0	5	140	--	110
	1,800	520	120.0	130.0	3	140	--	120
	750	210	56.0	95.0	4	140	--	110
	740	210	52.0	94.0	7	160	--	130
	730	210	51.0	85.0	5	130	--	130
5S/3W-21D2	780	210	61.0	88.0	8	140	--	--
	850	260	48.0	92.0	8	150	--	--
	950	250	76.0	94.0	8	130	--	--
	1,100	260	96.0	110.0	11	140	--	--
	980	250	86.0	100.0	5	160	--	--
	1,000	250	100.0	110.0	7	160	--	--
	960	300	48.0	110.0	8	170	--	--
	1,000	230	100.0	120.0	4	170	--	--
	1,100	240	110.0	130.0	3	160	--	130
	800	240	51.0	83.0	7	160	--	130
	1,100	270	100.0	120.0	1	130	--	130
	640	140	73.0	81.0	5	250	--	200
	1,200	260	130.0	120.0	5	96	--	79
	1,300	340	120.0	150.0	3	160	--	130
	1,200	280	120.0	150.0	4	130	--	100
	1,300	330	110.0	150.0	33	190	--	--
	--	--	--	--	--	--	--	--
5S/3W-24C1	290	76	23.0	68.0	4	--	160	--
	270	74	21.0	64.0	5	--	140	--
	250	72	16.0	56.0	4	--	100	--
5S/3W-24F2	71	24	2.7	110.0	4	--	120	--
5S/3W-24F3	1,400	430	86.0	170.0	12	--	230	--
5S/3W-24F4	610	170	45.0	99.0	7	--	84	--
5S/3W-28M1	31	8	2.7	30.0	--	--	8	--
	210	57	15.0	320.0	--	--	820	--
	210	59	15.0	330.0	--	--	820	--
	200	56	15.0	310.0	--	--	810	--
	220	61	15.0	320.0	--	--	820	--
	220	61	16.0	320.0	--	--	820	--
	230	63	16.0	320.0	13	--	860	--
5S/3W-28M2	410	100	37.0	450.0	--	--	1,200	--
	450	110	42.0	440.0	--	--	1,200	--
	480	120	44.0	430.0	--	--	1,200	--
	450	110	41.0	400.0	--	--	1,200	--
	460	110	44.0	420.0	--	--	1,200	--
	480	120	43.0	400.0	20	--	1,200	--
5S/3W-28M3	2,400	690	170.0	230.0	--	--	600	--
	2,500	710	170.0	220.0	--	--	590	--
	2,400	690	170.0	220.0	--	--	580	--
	2,400	690	160.0	210.0	--	--	570	--
	2,500	720	170.0	210.0	--	--	580	--
	2,500	730	160.0	210.0	24	--	600	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)	Bromide, dissolved (mg/L)	Silica, dissolved (mg/L as SiO_2)	Dissolved solids (mg/L) (sum)	Dissolved solids (mg/L) (residue)	Nitrate, dissolved (mg/L as N)	Nitrite dissolved (mg/L as N)
	54	130	0.1	--	--	--	470	2.7	--
	56	290	0.1	--	--	--	700	3.4	--
	100	94	0.1	--	--	--	480	4.5	--
	60	100	0.4	--	--	--	450	4.5	--
	312	110	0.6	--	--	--	740	0.0	--
	81	520	0.3	--	--	--	1,870	6.6	--
	66	200	0.3	--	--	--	720	6.1	--
	84	430	0.4	--	--	--	1,240	6.1	--
	67	230	0.3	--	--	--	940	6.2	--
	160	1,100	0.3	--	--	--	2,680	4.3	--
	140	860	0.3	--	--	--	2,510	5.2	--
	84	350	0.0	--	--	--	980	5.9	--
	240	1,140	0.3	--	--	--	2,940	5.0	--
	100	500	0.3	--	--	--	1,380	7.2	--
	130	470	0.2	--	--	--	1,370	5.0	--
	130	490	0.3	--	--	--	1,370	7.5	--
5S/3W-21D2	110	530	0.0	--	--	--	--	1.8	--
	150	560	0.0	--	--	--	--	1.4	--
	180	630	0.1	--	--	--	--	1.8	--
	350	560	0.2	--	--	--	--	1.8	--
	110	680	0.1	--	--	--	1,390	1.1	--
	170	700	0.1	--	--	--	1,510	2.0	--
	120	680	0.4	--	--	--	1,430	1.6	--
	150	690	0.4	--	--	--	2,270	1.4	--
	160	700	0.4	--	--	--	2,010	3.4	--
	100	530	0.1	--	--	--	1,410	5.2	--
	170	740	0.0	--	--	--	2,330	4.1	--
	70	380	--	--	--	--	470	5.2	--
	190	830	0.4	--	--	--	--	4.5	--
	120	960	0.5	--	--	--	2,330	9.7	--
	110	900	0.3	--	--	--	2,420	7.9	--
	63	950	0.6	--	--	--	2,590	8.0	--
	--	--	--	--	--	--	1,750	--	--
5S/3W-24C1	50	170	--	--	43	--	--	--	<0.010
	43	160	--	--	40	--	--	--	0.10
	27	160	<0.2	--	49	--	--	--	<0.010
5S/3W-24F2	19	100	<0.2	--	27	--	--	--	0.02
5S/3W-24F3	97	1,010	<2.5	--	53	--	--	--	<0.010
5S/3W-24F4	30	--	<0.2	--	45	--	--	--	<0.010
5S/3W-28M1	40	41	0.2	0.1	11	--	170	--	0.01
	24	88	0.3	0.2	33	--	1,080	--	0.08
	21	56	0.3	0.2	34	--	1,090	--	<0.010
	16	89	0.4	0.3	32	--	1,020	--	<0.010
	17	87	0.3	0.2	33	--	1,050	--	<0.020
	18	91	0.4	0.3	33	--	1,070	--	<0.010
	9	100	--	--	33	--	--	--	<0.010
5S/3W-28M2	25	120	0.4	0.3	43	--	1,520	--	<0.020
	17	90	0.4	0.3	44	--	1,530	--	<0.010
	20	150	0.8	0.3	44	--	1,510	--	<0.010
	13	99	0.4	0.3	41	--	1,470	--	<0.010
	19	120	0.4	0.3	44	--	1,500	--	<0.010
	16	143	--	--	49	--	--	--	<0.010
5S/3W-28M3	340	1,200	0.1	2.3	58	--	4,240	--	0.02
	510	1,400	0.2	2.3	57	--	4,180	--	<0.010
	610	1,600	0.5	2.3	55	--	3,970	--	<0.010
	440	1,300	0.5	2.5	53	--	3,410	--	<0.010
	470	1,200	0.2	1.7	56	--	4,580	--	<0.010
	370	1,470	--	--	51	--	--	1.7	<0.010

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	$NO_3 + NO_2$, dissolved (mg/L as N)	Nitrogen ammonia, dissolved (mg/L as N)	Phosphorus, dissolved (mg/L)	Phosphorus ortho, dissolved (mg/L as P)	Arsenic, dissolved (µg/L)	Barium, dissolved (µg/L)	Beryllium, dissolved (µg/L)	Boron, dissolved (µg/L)	Cadmium, dissolved (µg/L)
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	400	--
	--	--	--	--	--	--	--	190	--
	--	--	--	--	--	--	--	50	--
	--	--	--	--	--	--	--	30	--
	--	--	--	--	--	--	--	60	--
	--	--	--	--	--	--	--	40	--
	--	--	--	--	--	--	--	50	--
	--	--	--	--	--	--	--	50	--
	--	--	--	--	--	--	--	30	--
	--	--	--	--	--	--	--	30	--
	--	--	--	--	--	--	--	0	--
	--	--	--	--	--	--	--	0	--
	--	--	--	--	--	--	--	60	--
5S/3W-21D2	--	--	--	--	--	--	--	300	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	300	--
	--	--	--	--	--	--	--	400	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	300	--
	--	--	--	--	--	--	--	300	--
	--	--	--	--	--	--	--	210	--
	--	--	--	--	--	--	--	290	--
	--	--	--	--	--	--	--	70	--
	--	--	--	--	--	--	--	170	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	20	--
	--	--	--	--	--	--	--	20	--
	--	--	--	--	--	--	--	300	--
	--	--	--	--	--	--	--	--	--
5S/3W-24C1	6.6	0.03	--	0.03	2.0	200	<0.5	40	--
	6.6	0.06	--	0.03	2.0	190	<0.5	50	--
	5.0	0.02	--	0.05	2.0	170	<0.5	40	--
5S/3W-24F2	6.1	0.02	--	0.80	2.0	23	<0.5	90	--
5S/3W-24F3	15	0.06	--	1.0	6.0	470	<2	80	--
5S/3W-24F4	14	0.03	--	1.0	4.0	410	<0.5	50	--
5S/3W-28M1	0.22	0.02	0.03	0.01	--	9.0	<0.5	30	--
	<0.10	0.02	0.45	0.44	--	300	<0.5	190	--
	<0.05	0.02	0.50	0.48	--	300	<0.5	200	--
	<0.05	0.03	0.46	0.41	--	330	<0.5	180	--
	<0.05	0.03	0.28	0.27	--	350	<0.5	200	--
	<0.05	0.03	0.28	0.28	--	350	<0.5	190	--
	<0.05	<0.01	--	0.36	3.0	390	<0.5	180	--
5S/3W-28M2	<0.10	0.03	1.7	1.5	--	430	<2	200	--
	<0.05	0.02	1.6	1.4	--	460	<2	220	--
	<0.05	0.03	1.8	1.7	--	470	<2	210	--
	<0.05	0.03	1.8	1.7	--	450	<2	230	--
	<0.05	0.04	2.1	2.1	--	490	<2	230	--
	0.08	<0.01	--	2.9	14	520	<2	220	--
5S/3W-28M3	1.6	0.06	0.84	0.61	--	96	<2	200	--
	1.7	0.04	0.91	0.72	--	91	<2	230	--
	1.7	0.03	0.97	0.82	--	91	<2	210	--
	1.6	0.03	0.98	0.86	--	89	<2	230	--
	1.7	0.16	1.3	1.2	--	90	<2	230	--
	1.7	0.07	--	1.6	2.0	95	<2	240	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Chromium, dissolved (µg/L)	Cobalt, dissolved (µg/L)	Copper, dissolved (µg/L)	Iron, dissolved (µg/L)	Lead, dissolved (µg/L)	Lithium, dissolved (µg/L)	Manganese, dissolved (µg/L)	Molybdenum, dissolved (µg/L)	Nickel, dissolved (µg/L)
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-21D2	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-24C1	<5	<3	<10	20	<10	5	9	<10	<10
	<5	<3	<10	20	<10	5	27	<10	<10
	<5	<3	<10	8	10	10	1	<10	<10
5S/3W-24F2	<5	<3	<10	0	<10	7	83	20	<10
5S/3W-24F3	<20	<9	<30	<9	<30	40	280	<30	<30
5S/3W-24F4	<5	<3	<10	20	<10	10	53	<10	<10
5S/3W-28M1	<5	<3	<10	320	<10	<4	28	<10	<10
	<5	<3	<10	20	<10	30	180	10	<10
	<5	<3	<10	20	<10	30	170	<10	<10
	<5	<3	<10	20	<10	20	170	20	<10
	<5	<3	<10	20	<10	30	150	10	<10
	<5	<3	<10	10	<10	30	150	10	<10
	<5	<3	<10	30	<10	30	160	<10	<10
5S/3W-28M2	<20	<9	<30	100	<30	30	120	<30	<30
	<20	<9	<30	120	<30	40	120	<30	<30
	<20	<9	<30	110	<30	40	140	<30	<30
	<20	<9	<30	90	<30	40	130	<30	<30
	<20	<9	<30	80	<30	40	170	<30	<30
	<20	<9	<30	40	<30	30	250	<30	<30
5S/3W-28M3	<20	<9	<30	20	<30	80	370	<30	<30
	<20	<9	<30	20	<30	80	390	<30	<30
	<20	<9	<30	10	<30	90	380	<30	<30
	<20	<9	<30	<9	<30	90	410	<30	<30
	<20	<9	<30	<9	<30	50	400	<30	<30
	160	<9	<30	650	<30	70	660	<30	<30

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Selenium, dissolved (µg/L)	Silver, dissolved (µg/L)	Strontium, dissolved (µg/L)	Vanadium, dissolved (µg/L)	Zinc, dissolved (µg/L)	Source of data
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
5S/3W-21D2	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	EMWD
	--	--	--	--	--	EMWD
5S/3W-24C1	2.0	<1.0	390	20	<3	USGS
	2.0	<1.0	370	20	9	USGS
	--	2.0	320	19	9	USGS
5S/3W-24F2	--	<1.0	240	10	10	USGS
5S/3W-24F3	--	<3.0	2,200	20	<9	USGS
5S/3W-24F4	--	<1.0	1,200	22	8	USGS
5S/3W-28M1	<2	<1.0	40	21	7	USGS
	<1	<1.0	1,400	<6	<3	USGS
	<1	<1.0	1,400	<6	5	USGS
	<1	<1.0	1,500	<6	<3	USGS
	<1	1.0	1,500	<6	3	USGS
	<1	<1.0	1,600	<6	<3	USGS
	<1	<1.0	1,700	<6	<3	USGS
5S/3W-28M2	<1	<3.0	2,500	<18	<9	USGS
	<1	<3.0	2,700	<18	<9	USGS
	<1	<3.0	2,900	<18	<9	USGS
	<1	<3.0	2,600	<18	20	USGS
	<1	<3.0	2,900	<18	<9	USGS
	<1	<3.0	2,900	<18	10	USGS
5S/3W-28M3	7.0	5.0	7,900	<18	10	USGS
	10	<3.0	7,900	<18	10	USGS
	8.0	<3.0	7,700	<18	20	USGS
	8.0	<3.0	7,700	<18	30	USGS
	9.0	<3.0	8,100	<18	<9	USGS
	8.0	<3.0	7,600	<18	40	USGS

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Date	Water level (ft blw LSD)	Well depth (ft)	Altitude of LSD (ft)	Specific conductance (µS/cm)		pH (lab) (Std. units)	Water temperature (°C)
					Field	Lab		
5S/3W-28M4	1/31/91	62.4	160	1,420	4,300	4,380	6.7	20.5
	6/14/91	60.51			4,320	4,380	6.7	21.0
	8/30/91	59.38			4,320	4,370	7.1	21.0
	1/30/92	59.52			4,320	4,390	7.1	20.5
	8/28/92	55.84			4,300	4,330	7.0	21.0
	12/10/93	--			4,240	4,290	7.1	--
5S/3W-28M5LYS	2/25/91	unsat. zone	63	1,420	5,140	4,820	7.5	19.5
	6/5/91	unsat. zone			2,100	4,420	7.3	20.5
	7/5/91	unsat. zone			--	--	--	--
	8/12/91	unsat. zone			4,490	4,380	7.6	21.5
	2/11/92	unsat. zone			4,500	4,490	7.6	18.5
	5/5/92	unsat. zone			4,540	4,540	7.6	21.0
	8/7/92	unsat. zone			4,480	4,430	7.7	21.0
	9/8/92	unsat. zone			--	--	--	--
5S/3W-28M6LYS	8/1/91	unsat. zone	45	1,420	--	--	--	--
	2/11/92	unsat. zone			9,330	9,250	7.3	18.0
	5/5/92	unsat. zone			9,110	--	--	21.5
	8/7/92	unsat. zone			8,990	9,020	7.8	--
	9/8/92	unsat. zone			--	--	--	--
5S/3W-28M7LYS	2/25/91	unsat. zone	35	1,420	9,360	8,890	7.3	20.0
	6/5/91	unsat. zone			6,670	9,250	7.1	21.0
	10/22/91	unsat. zone			--	--	--	--
	2/11/92	unsat. zone			9,450	9,350	7.0	18.5
	5/5/92	unsat. zone			9,340	--	--	21.0
	8/7/92	unsat. zone			9,200	9,210	7.7	--
	9/8/92	unsat. zone			--	--	--	--
5S/3W-28M8LYS	5/5/92	unsat. zone	25	1,420	9,570	9,490	7.1	20.5
	8/7/92	unsat. zone			9,150	9,170	7.5	--
	9/8/92	unsat. zone			--	--	--	--
5S/3W-28M9LYS	6/5/91	unsat. zone	15	1,420	4,570	6,980	7.1	19.5
	7/5/91	unsat. zone			--	--	--	--
	8/12/91	unsat. zone			6,570	6,560	7.1	21.0
	2/11/92	unsat. zone			6,530	6,490	7.1	7.0
	5/5/92	unsat. zone			6,690	6,610	7.5	19.0
	8/7/92	unsat. zone			6,830	6,870	7.6	--
	9/8/92	unsat. zone			--	--	--	--
5S/3W-28M10LY	2/25/91	unsat. zone	10	1,420	8,550	7,810	7.6	19.5
	6/5/91	unsat. zone			4,740	8,310	7.3	19.5
	7/5/91	unsat. zone			--	--	--	--
	8/12/91	unsat. zone			8,920	8,810	7.2	21.5
	2/11/92	unsat. zone			8,520	8,450	7.1	16.0
	5/5/92	unsat. zone			8,740	8,630	7.4	19.0
	8/7/92	unsat. zone			9,060	9,090	7.8	--
	9/8/92	unsat. zone			--	--	--	--
5S/3W-28M11LY	2/25/91	unsat. zone	5	1,420	8,130	7,580	7.6	20.0
	6/5/91	unsat. zone			6,590	8,950	7.4	20.5
	7/5/91	unsat. zone			--	--	--	--
	8/12/91	unsat. zone			10,300	10,400	7.3	24.0
	2/11/92	unsat. zone			8,900	8,900	7.3	13.5
	5/5/92	unsat. zone			9,820	9,640	7.6	20.0
	8/7/92	unsat. zone			12,200	12,200	7.8	--
	9/8/92	unsat. zone			--	--	--	--
5S/3W-29Q1	7/7/58	--	--	--	--	10,900	6.3	--
5S/3W-32A1	3/11/94	--	586.2	1,413	--	7,000	7.0	--
5S/3W-32B1	11/5/93	--	218.1	1,414	--	1,620	7.1	--
5S/3W-32C1	11/11/93	--	218.2	1,422	--	5,300	7.6	--
5S/3W-32G1	11/23/93	--	219.9	1,415	--	5,100	7.0	--
5S/3W-32G2	1/23/76	--	--	--	--	2,190	7.4	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO_3)	Alkalinity (mg/L as $CaCO_3$) Field	Alkalinity (mg/L as $CaCO_3$) Lab
5S/3W-28M4	1,900	540	140.0	260.0	--	--	270	--
	2,000	550	140.0	240.0	--	--	270	--
	2,000	550	140.0	230.0	--	--	270	--
	1,900	540	140.0	230.0	--	--	270	--
	2,000	560	140.0	220.0	--	--	260	--
	1,900	530	130.0	200.0	8	--	140	--
5S/3W-28M5LYS	1,700	410	170.0	380.0	--	--	--	--
	1,500	370	150.0	350.0	--	--	--	--
	--	--	--	--	--	--	--	--
	1,500	370	150.0	380.0	--	--	--	--
	1,500	370	150.0	350.0	--	--	--	--
	1,800	440	170.0	350.0	--	--	--	--
	1,900	460	180.0	350.0	--	--	--	--
	--	--	--	--	--	--	--	--
5S/3W-28M6LYS	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--
	4,000	1,000	370.0	520.0	--	--	--	--
	3,900	980	360.0	530.0	--	--	250	--
	--	--	--	--	--	--	--	--
5S/3W-28M7LYS	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--
	4,100	940	420.0	510.0	--	--	220	--
	--	--	--	--	--	--	--	--
5S/3W-28M8LYS	4,600	1,100	440.0	530.0	--	--	--	--
	4,000	970	390.0	490.0	--	--	190	--
	--	--	--	--	--	--	--	--
5S/3W-28M9LYS	3,600	820	370.0	440.0	--	--	--	--
	--	--	--	--	--	--	--	--
	3,100	690	330.0	350.0	--	--	--	--
	3,300	760	350.0	360.0	--	--	--	--
	3,600	820	380.0	390.0	--	--	--	--
	3,600	830	370.0	390.0	--	--	490	--
	--	--	--	--	--	--	--	--
5S/3W-28M10LY	3,200	780	300.0	730.0	--	--	--	--
	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--
	2,700	650	250.0	1100.0	--	--	--	--
	2,500	620	230.0	1100.0	--	--	--	--
	2,700	670	250.0	1200.0	--	--	--	--
	3,000	750	270.0	1200.0	--	--	50	--
	--	--	--	--	--	--	--	--
5S/3W-28M11LY	--	--	--	--	--	--	--	--
	2,500	580	250.0	1300.0	--	--	--	--
	--	--	--	--	--	--	--	--
	2,100	490	220.0	1300.0	--	--	--	--
	2,400	540	250.0	1300.0	--	--	--	--
	2,600	580	270.0	1600.0	--	--	--	--
	4,000	910	410.0	2100.0	--	--	530	--
	--	--	--	--	--	--	--	--
5S/3W-29Q1	4,500	1,320	300.0	730.0	31	500	--	--
5S/3W-32A1	3,500	920	280.0	640.0	39	2,510	--	2,060
5S/3W-32B1	120	29	11.0	320.0	3	220	--	180
5S/3W-32C1	1,900	630	79.0	440.0	12	210	--	170
5S/3W-32G1	890	250	63.0	800.0	11	410	--	340
5S/3W-32G2	440	97	47.0	32.5	2	240	--	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)	Bromide, dissolved (mg/L)	Silica, dissolved (mg/L as SiO_2)	Dissolved solids (mg/L) (sum)	Dissolved solids (mg/L) (residue)	Nitrate, dissolved (mg/L as N)	Nitrite dissolved (mg/L as N)
5S/3W-28M4	840	1,000	<0.10	1.8	59	--	3,300	--	<0.010
	970	910	0.2	--	60	--	3,360	--	<0.010
	980	860	0.5	1.8	59	--	3,250	--	<0.010
	660	700	0.3	1.8	57	--	2,910	--	<0.010
	900	1,300	0.4	1.2	59	--	3,440	--	<0.010
	880	903	--	--	52	--	--	6.2	0.40
5S/3W-28M5LYS	890	1,200	0.4	1.7	11	--	--	--	--
	990	1,300	1.0	1.5	11	--	--	--	<0.010
	--	--	--	--	--	--	--	--	--
	1,000	950	0.5	1.4	11	--	--	--	--
	90	99	<0.10	0.5	11	--	--	--	--
	1,000	910	<0.10	1.4	13	--	--	--	<0.010
	--	--	--	--	15	--	--	--	<0.010
	--	--	--	--	--	--	--	--	--
5S/3W-28M6LYS	--	--	--	--	--	--	--	--	--
	660	1,300	0.4	4.2	--	--	--	--	--
	--	--	--	--	84	--	--	--	<0.010
	--	--	--	--	76	--	--	--	<0.010
	--	--	--	--	--	--	--	--	--
5S/3W-28M7LYS	1,600	2,300	0.3	3.1	--	--	--	--	--
	1,900	2,500	0.7	3.8	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	1,600	2,400	0.5	3.9	--	--	--	--	0.05
	--	--	--	--	--	--	--	--	0.05
	--	--	--	--	82	--	--	--	<0.010
	--	--	--	--	--	--	--	--	--
5S/3W-28M8LYS	1,400	2,600	1.0	0.5	84	--	--	--	<0.010
	1,200	2,600	0.6	4.5	83	--	--	--	<0.010
	--	--	--	--	--	--	--	--	--
5S/3W-28M9LYS	2,500	1,400	1.4	1.0	89	--	--	--	0.02
	--	--	--	--	--	--	--	--	--
	2,600	1,200	0.5	0.6	78	--	--	--	0.13
	2,100	1,100	1.5	0.6	87	--	--	--	<0.010
	2,100	1,100	0.2	0.4	88	--	--	--	<0.010
	2,100	1,200	0.9	0.4	90	--	--	--	<0.010
	--	--	--	--	--	--	--	--	--
5S/3W-28M10LY	2,800	1,800	0.7	0.4	87	--	--	--	--
	2,400	1,700	2.5	0.4	--	--	--	--	<0.010
	--	--	--	--	--	--	--	--	--
	3,300	1,500	1.4	0.5	84	--	--	--	<0.010
	2,500	1,400	0.6	0.4	80	--	--	--	<0.010
	2,500	1,500	0.2	0.3	81	--	--	--	<0.010
	2,700	1,600	0.7	0.3	91	--	--	--	<0.010
	--	--	--	--	--	--	--	--	--
5S/3W-28M11LY	2,300	1,300	0.9	0.3	--	--	--	--	--
	2,500	1,700	2.8	0.3	79	--	--	--	0.08
	--	--	--	--	--	--	--	--	--
	3,500	2,000	0.8	0.7	77	--	--	--	0.01
	2,500	1,700	0.6	0.3	77	--	--	--	<0.010
	3,200	1,500	0.4	0.1	83	--	--	--	<0.010
	3,900	2,200	0.8	0.4	110	--	--	--	<0.010
	--	--	--	--	--	--	--	--	--
5S/3W-29Q1	1,000	3,230	0.0	--	--	7,100	--	0.00	--
5S/3W-32A1	1,010	160	0.1	--	--	--	3,660	0.45	0.10
5S/3W-32B1	380	150	0.3	--	--	--	1,100	2.9	<0.10
5S/3W-32C1	700	1,400	0.3	--	--	--	4,430	0.68	<0.10
5S/3W-32G1	930	970	0.3	--	--	--	3,220	1.6	<0.10
5S/3W-32G2	510	280	0.8	--	--	--	1,560	6.8	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California–*Continued*

Well No.	$NO_3 + NO_2$, dissolved (mg/L as N)	Nitrogen ammonia, dissolved (mg/L as N)	Phosphorus, dissolved (mg/L)	Phosphorus ortho, dissolved (mg/L as P)	Arsenic, dissolved (µg/L)	Barium, dissolved (µg/L)	Beryllium, dissolved (µg/L)	Boron, dissolved (µg/L)	Cadmium, dissolved (µg/L)
5S/3W-28M4	5.0	0.02	0.40	0.26	--	43	2.0	220	--
	5.1	0.02	0.33	0.23	--	40	<2	240	--
	5.1	0.03	0.29	0.23	--	41	<2	230	--
	5.2	0.03	0.27	0.26	--	31	<2	240	--
	5.1	0.11	0.27	0.24	--	34	<2	260	--
	6.6	0.04	--	0.25	1.0	32	<2	260	--
5S/3W-28M5LYS	<0.05	--	--	--	--	63	<2	--	--
	<0.05	--	--	<0.01	--	50	<2	--	--
	--	--	--	--	--	--	--	--	--
	<0.05	--	--	--	--	39	<2	--	--
	<0.05	--	--	--	--	29	<2	--	--
	<0.05	0.14	<0.01	<0.01	--	32	<2	--	--
	<0.05	0.10	<0.01	0.01	--	31	<2	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-28M6LYS	--	--	--	--	--	--	--	--	--
	13	--	--	--	--	--	--	--	--
	16	0.06	0.01	<0.01	--	37	<3	--	--
	17	0.11	0.02	0.01	--	39	<3	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-28M7LYS	11	--	--	--	--	--	--	--	--
	10	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	14	0.08	<0.01	<0.01	--	--	--	--	--
	14	0.12	<0.01	<0.01	--	--	--	--	--
	14	0.12	<0.01	<0.01	--	38	<3	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-28M8LYS	17	0.11	<0.01	<0.01	--	20	<3	--	--
	18	0.12	0.01	0.01	--	53	<3	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-28M9LYS	5	--	--	<0.01	--	42	<3	--	--
	--	--	--	--	--	--	--	--	--
	2	0.22	0.03	0.03	--	34	<2	--	--
	3	0.12	0.04	0.03	--	<38	<3	--	--
	9	0.08	0.02	0.03	--	15	<2	--	--
	0.31	0.11	0.02	0.02	--	33	<2	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-28M10LY	8.7	--	--	--	--	100	<10	--	--
	19	0.08	0.02	0.01	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	27	0.02	0.02	0.01	--	29	<3	--	--
	27	0.07	0.02	0.01	--	<27	<3	--	--
	1.1	0.08	<0.01	<0.01	--	6.0	<3	--	--
	0.20	0.09	0.01	0.01	--	30	<3	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-28M11LY	5.0	--	--	--	--	--	--	--	--
	14	0.06	0.07	0.06	--	100	<10	--	--
	--	--	--	--	--	--	--	--	--
	26	0.03	0.05	0.04	--	31	<3	--	--
	3.5	0.07	0.02	0.02	--	<29	<3	--	--
	0.43	0.05	<0.01	0.01	--	<5	<3	--	--
	<0.05	0.12	0.02	0.02	--	30	<5	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-29Q1	--	--	--	--	--	--	--	300	--
5S/3W-32A1	--	--	--	--	<5	3,100	--	--	1.0
5S/3W-32B1	--	--	--	--	<5	<100	--	--	<1
5S/3W-32C1	--	--	--	--	<5	200	--	--	<1
5S/3W-32G1	--	--	--	--	<5	<100	--	--	<1
5S/3W-32G2	--	<1.0	--	--	--	--	--	800	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California—*Continued*

Well No.	Chromium, dissolved (µg/L)	Cobalt, dissolved (µg/L)	Copper, dissolved (µg/L)	Iron, dissolved (µg/L)	Lead, dissolved (µg/L)	Lithium, dissolved (µg/L)	Manganese, dissolved (µg/L)	Molybdenum, dissolved (µg/L)	Nickel, dissolved (µg/L)
5S/3W-28M4	<20	<9	<30	20	30	60	72	<30	<30
	<20	<9	<30	20	40	50	43	<30	<30
	<20	<9	<30	20	<30	40	35	40	<30
	<20	<9	<30	<9	<30	60	10	<30	<30
	<20	<9	<30	20	<30	40	12	<30	<30
	120	<9	<30	450	<30	40	100	<30	<30
5S/3W-28M5LYS	<20	<9	<30	550	<30	30	12,000	40	<30
	<20	<9	<30	500	<30	30	9,900	<30	<30
	--	--	--	--	--	--	--	--	--
	<20	<9	<30	600	<30	20	9,200	<30	<30
	<20	<9	<30	150	<30	30	8,600	<30	<30
	<20	<9	<30	3,500	30	30	8,000	<30	<30
	<5	<9	30	4,300	<30	10	7,000	<30	<30
	--	--	--	--	--	--	--	--	--
5S/3W-28M6LYS	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	<30	<20	<50	20	<50	20	3,600	<50	100
	<30	<20	<50	30	<50	70	2,600	<50	<50
	--	--	--	--	--	--	--	--	--
5S/3W-28M7LYS	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	<30	<20	<50	<15	<50	60	8,900	60	140
	--	--	--	--	--	--	--	--	--
5S/3W-28M8LYS	<30	2	28	20	<1	150	200	<50	150
	<30	<20	<50	<15	<50	80	51	<50	90
	--	--	--	--	--	--	--	--	--
5S/3W-28M9LYS	<30	<20	<50	20	<50	120	34	<50	<50
	--	--	--	--	--	--	--	--	--
	4.0	<10	80	50	<40	60	75	<40	70
	<1	<1	<19	<15	<1	20	360	<50	<38
	<20	<1	10	<12	<1	60	37	<40	11
	<20	<10	<40	30	<40	50	44	50	<40
	--	--	--	--	--	--	--	--	--
5S/3W-28M10LY	3.0	10	20	60	1	130	1,000	42	130
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	<2	<20	<50	30	<50	220	52	--	<50
	<1	<1	<20	<15	<1	210	27	<50	<38
	<30	<1	22	20	<1	260	<5	<50	17
	<30	<20	<50	<15	<50	210	6	70	<50
	--	--	--	--	--	--	--	--	--
5S/3W-28M11LY	--	--	--	--	--	--	--	--	--
	<1	10	43	10	<1	130	60	29	80
	--	--	--	--	--	--	--	--	--
	<2	<20	<60	23	<60	110	37	--	<60
	<2	<1	<36	<15	<1	90	19	<50	<32
	<30	1	47	20	<1	180	<5	<50	17
	<50	<30	<100	100	<100	180	11	110	<100
	--	--	--	--	--	--	--	--	--
5S/3W-29Q1	--	--	--	--	--	--	--	--	--
5S/3W-32A1	<10	--	<10	40	<5	--	3,500	--	--
5S/3W-32B1	<10	--	<10	<20	<5	--	30	--	--
5S/3W-32C1	<10	--	<10	50	<5	--	530	--	--
5S/3W-32G1	<10	--	<10	250	<5	--	760	--	--
5S/3W-32G2	--	--	--	--	--	--	--	--	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Selenium, dissolved (µg/L)	Silver, dissolved (µg/L)	Strontium, dissolved (µg/L)	Vanadium, dissolved (µg/L)	Zinc, dissolved (µg/L)	Source of data
5S/3W-28M4	8.0	5.0	3,400	20	<9	USGS
	12	5.0	3,400	22	<9	USGS
	15	<3.0	3,500	22	<9	USGS
	12	<3.0	3,200	<18	20	USGS
	11	<3.0	3,300	21	<9	USGS
	12	<3.0	3,000	<18	40	USGS
5S/3W-28M5LYS	--	<3.0	2,300	29	930	USGS
	--	4.0	2,200	<18	90	USGS
	--	--	--	--	--	USGS
	--	<3.0	2,100	<18	20	USGS
	--	<3.0	2,000	<18	240	USGS
	--	6.0	2,400	<18	50	USGS
	--	<3.0	2,500	<9	240	USGS
	--	--	--	--	--	USGS
5S/3W-28M6LYS	--	--	--	--	--	USGS
	--	--	--	--	--	USGS
	--	<5.0	5,900	30	290	USGS
	--	<5.0	5,800	41	350	USGS
	--	--	--	--	--	USGS
5S/3W-28M7LYS	--	--	--	--	--	USGS
	--	--	--	--	--	USGS
	--	--	--	--	--	USGS
	--	--	--	--	--	USGS
	--	--	--	--	--	USGS
	--	<5.0	6,100	41	680	USGS
	--	--	--	--	--	USGS
5S/3W-28M8LYS	--	<1.0	7,300	<30	2,100	USGS
	--	<5.0	6,300	<30	840	USGS
	--	--	--	--	--	USGS
5S/3W-28M9LYS	--	<5.0	6,200	<30	750	USGS
	--	--	--	--	--	USGS
	--	<4.0	5,100	<24	440	USGS
	--	<1.0	5,600	<27	280	USGS
	--	<1.0	6,100	<24	180	USGS
	--	<4.0	5,900	32	170	USGS
	--	--	--	--	--	USGS
5S/3W-28M10LY	--	<1.0	5,300	66	1,000	USGS
	--	--	--	--	--	USGS
	--	--	--	--	--	USGS
	--	7.0	5,300	<30	470	USGS
	--	<1.0	4,900	<30	480	USGS
	--	<1.0	5,300	<30	210	USGS
	--	<5.0	5,700	35	170	USGS
	--	--	--	--	--	USGS
5S/3W-28M11LY	--	--	--	--	--	USGS
	--	<1.0	4,900	32	600	USGS
	--	--	--	--	--	USGS
	--	9.0	4,100	<36	480	USGS
	--	<1.0	4,200	<41	490	USGS
	--	<1.0	4,700	<30	230	USGS
	--	<10	6,800	<60	190	USGS
	--	--	--	--	--	USGS
5S/3W-29Q1	--	--	--	--	--	Babcock
5S/3W-32A1	<5	<10	--	--	1,900	Babcock
5S/3W-32B1	<5	<10	--	--	100	Babcock
5S/3W-32C1	5.0	<10	--	--	430	Babcock
5S/3W-32G1	12	<10	--	--	400	Babcock
5S/3W-32G2	--	--	--	--	--	EMWD

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Date	Water level (ft blw LSD)	Well depth (ft)	Altitude of LSD (ft)	Specific conductance (µS/cm)		pH (lab) (Std. units)	Water temperature (°C)
					Field	Lab		
5S/3W-32H1	10/29/93	--	221	1,405	--	1,800	6.7	--
5S/3W-32L1	11/19/93	--	221	1,412	--	11,000	6.6	--
5S/3W-33K1	4/6/94	--	665	1,415	--	3,900	6.6	--
	4/7/94	--			--	3,600	7.7	--
5S/3W-33R2	8/14/91	--	--	--	--	4,440	6.8	--
5S/3W-35N2	7/15/92	--	587.6	1,425	--	4,000	6.3	--
	7/15/92	--			--	4,100	6.4	--
	7/15/92	--			--	4,000	6.4	--
	7/15/92	--			--	3,900	6.6	--
5S/3W-35P1	5/9/56	--	516	1,427	--	2,530	--	21.0
	4/23/59	--			--	1,800	8.3	21.5
	9/23/59	--			--	1,470	7.8	230.0
	5/17/68	--			--	3,170	8.0	--
5S/3W-35Q1	6/17/77	--	588	--	--	--	--	--
5S/3W-35R1	10/14/93	--	600.3	1,425	--	3,800	6.2	--
5S/3W-36D1	3/28/63	--	--	--	--	1,610	7.4	--
	11/5/64	--			--	1,460	7.1	--
	5/4/65	--			--	1,300	7.4	15.0
	5/17/68	--			--	1,380	8.1	--
5S/3W-36K1	2/27/62	--	190	1,430	--	1,250	7.3	14.5
	3/15/63	--			--	760	7.4	--
5S/3W-36N2	8/27/91	--	338.6	1,425	--	4,540	8.0	--
	6/17/77	--			--	--	--	25.0
5S/3W-36P1	12/17/53	--	128.7	1,425	--	2,850	6.5	20.5
	8/10/55	--			--	2,330	6.2	22.0
	9/18/56	--			--	2,620	--	23.0
5S/3W-36P2	6/3/92	--	680.2	1,430	--	1,500	6.3	--
	6/3/92	--			--	1,800	6.3	--
	6/2/92	--			--	1,800	6.3	--
	6/2/92	--			--	2,800	6.5	--
	6/2/92	--			--	2,700	6.4	--
	7/13/94	104.71			2,580	2,620	6.4	23.5
5S/3W-36Q1	5/8/58	--	604	--	--	2,060	6.5	21.0
	10/14/58	--			--	1,280	7.0	23.5
	4/23/59	--			--	3,730	8.0	21.0
	3/25/60	--			--	1,910	6.9	21.0
	9/14/60	--			--	1,170	7.8	22.0
	4/13/61	--			--	1,160	7.5	21.5
	5/8/62	--			--	1,260	7.0	23.5
	11/1/62	--			--	1,350	6.8	23.5
	6/12/93	--			--	1,340	6.6	--
	4/17/64	--			--	1,410	7.1	21.0
	3/30/65	--			--	1,480	6.5	22.0
6S/3W-1D1	5/4/65	--	--	--	--	1,110	7.8	18.0
6S/3W-1D2	4/22/75	--	500	--	--	1,460	8.0	24.0
6S/3W-1E1	4/20/77	--	--	--	--	--	--	--
6S/3W-1H1	8/20/91	--	369.5	1,430	--	--	6.9	--
	9/16/91	--			--	--	--	--
	10/15/91	--			--	--	--	--
6S/3W-1J2	8/13/91	--	300	1,430	--	4,700	6.7	--
	7/20/93	--			5,180	5,130	6.7	21.0
6S/3W-2A1	11/22/93	--	577	1,425	--	4,500	6.3	--
	11/5/93	--			--	5,300	6.4	--
	11/4/93	--			--	2,800	6.3	--
	11/4/93	--			--	5,100	6.4	--
6S/3W-2C1	4/22/75	--	600	1,430	--	1,609	8.0	23.0
6S/3W-2D1	11/4/93	--	632.5	1,425	--	3,200	6.4	--
	9/28/93	--			--	2,100	7.2	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO_3)	Alkalinity (mg/L as $CaCO_3$)	
							Field	Lab
5S/3W-32H1	470	123	38.0	220.0	7	170	--	140
5S/3W-32L1	3,600	1,070	210.0	1300.0	17	510	--	420
5S/3W-33K1	1,300	320	110.0	310.0	8	350	--	290
	1,200	330	98.0	350.0	8	440	--	360
5S/3W-33R2	1,900	500	160.0	260.0	12	350	--	290
5S/3W-35N2	1,100	350	110.0	450.0	11	420	--	340
	1,200	320	100.0	480.0	11	430	--	350
	1,200	320	97.0	430.0	11	470	--	390
	2,100	440	240.0	300.0	29	3,170	--	2,600
5S/3W-35P1	670	170	57.0	260.0	--	310	--	--
	370	120	19.0	280.0	--	300	--	--
	260	78	16.0	240.0	--	270	--	--
	700	190	55.0	410.0	6	310	--	260
5S/3W-35Q1	--	--	--	--	--	--	--	--
5S/3W-35R1	1,500	370	130.0	320.0	11	550	--	450
5S/3W-36D1	570	140	55.0	150.0	4	140	--	--
	490	120	47.0	120.0	5	130	--	--
	420	100	39.0	117.0	5	140	--	--
	460	110	42.0	97.0	4	120	--	100
5S/3W-36K1	350	100	28.0	140.0	3	250	--	--
	2	46	24.0	80.0	3	130	--	--
5S/3W-36N2	940	160	130.0	490.0	12	34	--	28
	--	--	--	--	--	--	--	--
5S/3W-36P1	--	320	72.0	260.0	8	370	--	--
	1,000	120	38.0	160.0	4	360	--	--
	940	230	87.0	190.0	--	490	--	--
5S/3W-36P2	580	140	58.0	98.0	7	700	--	580
	740	170	76.0	110.0	8	1,040	--	850
	680	160	71.0	120.0	8	980	--	800
	1,100	230	130.0	260.0	11	1,910	--	1,570
	1,100	230	120.0	230.0	10	1,790	--	1,470
	980	210	110.0	220.0	10	--	1,400	--
5S/3W-36Q1	650	170	55.0	210.0	--	280	--	--
	1,500	380	120.0	720.0	--	200	--	--
	1,200	380	74.0	370.0	--	300	--	--
	610	170	42.0	180.0	--	310	--	--
	370	120	17.0	110.0	8	290	--	--
	370	130	14.0	90.0	8	270	--	--
	420	130	23.0	98.0	6	270	--	--
	430	140	22.0	100.0	6	250	--	--
	440	120	32.0	100.0	7	280	--	--
	460	140	27.0	100.0	6	280	--	--
	500	130	44.0	110.0	5	310	--	--
6S/3W-1D1	360	66	46.0	110.0	7	230	--	--
6S/3W-1D2	510	130	47.0	110.0	6	370	--	300
6S/3W-1E1	--	--	--	--	--	--	--	--
6S/3W-1H1	1,700	--	--	240.0	--	--	--	340
	1,800	--	--	270.0	--	350	--	290
	1,700	--	--	280.0	--	350	--	280
6S/3W-1J2	1,800	500	140.0	340.0	12	310	--	260
	2,000	570	140.0	400.0	10	--	270	--
6S/3W-2A1	1,900	520	150.0	320.0	11	390	--	320
	1,800	520	130.0	590.0	12	240	--	200
	1,100	270	100.0	160.0	9	330	--	270
	2,100	430	250.0	380.0	14	1,180	--	970
6S/3W-2C1	590	150	54.0	110.0	6	420	--	340
6S/3W-2D1	1,200	300	99.0	240.0	10	420	--	340
	580	160	45.0	200.0	7	290	--	240

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)	Bromide, dissolved (mg/L)	Silica, dissolved (mg/L as SiO_2)	Dissolved solids (mg/L) (sum)	Dissolved solids (mg/L) (residue)	Nitrate, dissolved (mg/L as N)	Nitrite dissolved (mg/L as N)
5S/3W-32H1	600	160	0.4	--	--	--	1,275	1.1	<0.10
5S/3W-32L1	1,000	3,500	0.1	--	--	--	8,250	2.0	<0.10
5S/3W-33K1	540	800	0.2	--	--	--	2,410	2.7	<0.10
	700	600	0.3	--	--	--	2,400	3.2	<0.10
5S/3W-33R2	940	750	0.3	--	52	--	3,730	5.7	--
5S/3W-35N2	620	920	0.2	--	76	--	2,920	2.9	<0.10
	610	890	0.2	--	76	--	2,810	2.9	0.03
	560	810	0.2	--	74	--	2,700	2.9	0.09
	54	130	0.2	--	250	--	2,820	<1.0	<0.10
5S/3W-35P1	430	380	0.3	--	--	--	--	0.90	--
	300	280	0.4	--	--	--	--	0.68	--
	250	210	0.4	--	--	--	--	0.68	--
	430	620	0.3	--	--	--	2,060	2.3	--
5S/3W-35Q1	--	--	--	--	--	--	2,560	--	--
5S/3W-35R1	570	750	0.3	--	75	--	2,450	3.2	<0.10
5S/3W-36D1	290	328	0.2	--	42	--	1,210	2.3	--
	270	260	0.2	--	--	--	1,120	1.8	--
	240	210	0.4	--	--	--	870	1.8	--
	220	230	0.4	--	--	--	950	2.2	--
5S/3W-36K1	130	210	0.4	--	42	--	970	6.1	--
	31	140	0.1	--	42	--	670	16	--
5S/3W-36N2	<1	1,450	--	--	1.7	--	3,270	0.45	--
	--	--	--	--	--	--	3,490	--	--
5S/3W-36P1	420	520	0.4	--	--	--	1,980	2.5	--
	190	210	0.4	--	--	--	1,810	4.9	--
	360	450	0.3	--	--	--	--	1.4	--
5S/3W-36P2	24	130	0.3	--	--	--	900	8.1	0.50
	19	100	0.3	--	--	--	1,110	5.9	0.80
	22	110	0.3	--	--	--	1,090	6.6	0.40
	17	110	0.3	--	--	--	1,740	3.8	0.20
	19	97	0.3	--	--	--	1,580	3.6	0.50
	12	100	0.3	0.4	76	3,040	--	--	<0.010
5S/3W-36Q1	260	420	0.2	--	--	--	--	3.6	--
	800	1,280	0.0	--	--	--	--	1.1	--
	600	830	0.2	--	--	--	--	0.68	--
	280	310	0.0	--	--	--	--	1.8	--
	150	150	0.3	--	--	710	--	1.6	--
	150	150	0.4	--	--	680	--	1.6	--
	150	180	0.3	--	--	730	--	1.6	--
	200	170	0.2	--	--	770	--	1.8	--
	150	190	0.2	--	--	--	890	1.8	--
	160	220	0.3	--	--	--	940	2.7	--
	160	220	0.4	--	--	--	960	3.4	--
6S/3W-1D1	180	160	0.2	--	--	670	740	0.0	--
6S/3W-1D2	200	180	0.5	--	--	--	1,000	1.7	--
6S/3W-1E1	--	--	--	--	--	--	930	--	--
6S/3W-1H1	730	690	3.0	--	--	--	3,610	8.5	--
	680	950	--	--	58	--	3,580	--	--
	680	900	--	--	--	--	3,260	--	--
6S/3W-1J2	780	980	0.3	--	49	--	3,760	6.3	--
	830	1,170	--	--	51	--	--	7.4	<0.010
6S/3W-2A1	750	1,000	0.3	--	71	--	3,380	4.1	<0.10
	1,300	1,100	0.3	--	64	--	4,010	7.2	<0.10
	340	580	0.3	--	83	--	1,920	2.7	<0.10
	590	1,000	0.3	--	86	--	3,470	1.6	<0.10
6S/3W-2C1	150	230	0.4	--	--	--	1,070	4.1	--
6S/3W-2D1	390	720	0.3	--	71	--	2,070	2.9	<0.10
	240	350	0.4	--	--	--	1,260	5.2	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California–*Continued*

Well No.	$NO_3 + NO_2$, dissolved (mg/L as N)	Nitrogen ammonia, dissolved (mg/L as N)	Phosphorus, dissolved (mg/L)	Phosphorus ortho, dissolved (mg/L as P)	Arsenic, dissolved (µg/L)	Barium, dissolved (µg/L)	Beryllium, dissolved (µg/L)	Boron, dissolved (µg/L)	Cadmium, dissolved (µg/L)
5S/3W-32H1	--	--	--	--	<5	<100	--	--	<1
5S/3W-32L1	--	--	--	--	<5	<100	--	--	4.0
5S/3W-33K1	--	--	--	--	<10	<100	<1	--	<1
	--	--	--	--	<5	<100	<1	--	<1
5S/3W-33R2	--	--	--	--	<10	<100	--	<100	<1
5S/3W-35N2	--	--	<0.01	--	<10	<100	<10	700	<1
	--	--	<0.01	--	<10	<100	<10	700	<1
	--	--	<0.01	--	<10	<100	<10	600	<1
	--	--	0.02	--	<10	1,200	<10	800	<1
5S/3W-35P1	--	--	--	--	--	--	--	230	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	600	--
5S/3W-35Q1	--	--	--	--	--	--	--	--	--
5S/3W-35R1	--	--	--	--	<5	<100	--	--	<1
5S/3W-36D1	--	--	--	--	--	--	--	120	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	120	--
	--	--	--	--	--	--	--	100	--
5S/3W-36K1	--	--	--	--	--	--	--	150	--
	--	--	--	--	--	--	--	150	--
5S/3W-36N2	--	--	--	--	<10	<100	--	200	<1
	--	--	--	--	--	--	--	--	--
5S/3W-36P1	--	--	--	--	--	--	--	340	--
	--	--	--	--	--	--	--	60	--
	--	--	--	--	--	--	--	300	--
5S/3W-36P2	--	--	<0.01	--	<10	400	<10	100	<1
	--	--	<0.01	--	<10	400	<10	200	<1
	--	--	0.02	--	<10	400	<10	200	<1
	--	--	<0.01	--	<10	800	<10	400	<1
	--	--	<0.01	--	<10	700	<10	300	<1
	3.8	0.02	--	0.14	2.0	590	<0.5	360	--
5S/3W-36Q1	--	--	--	--	--	--	--	50	--
	--	--	--	--	--	--	--	1,400	--
	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	400	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	400	--
	--	--	--	--	--	--	--	300	--
	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	100	--
	--	--	--	--	--	--	--	120	--
6S/3W-1D1	--	--	--	--	--	--	--	170	--
6S/3W-1D2	--	--	--	--	--	--	--	40	--
6S/3W-1E1	--	--	--	--	--	--	--	--	--
6S/3W-1H1	--	--	--	--	--	--	--	--	5.0
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
6S/3W-1J2	--	--	--	--	<10	100	--	200	<1
	7.4	0.08	--	0.05	1.0	74	<2	400	--
6S/3W-2A1	--	--	--	--	<5	<100	--	--	<1
	--	--	--	--	<5	<100	--	--	<1
	--	--	--	--	<5	200	--	--	<1
	--	--	--	--	<5	200	--	--	2.0
6S/3W-2C1	--	--	--	--	--	--	--	90	--
6S/3W-2D1	--	--	--	--	<5	<100	--	--	<1
	--	--	--	--	<5	<100	--	--	<1

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Chromium, dissolved (µg/L)	Cobalt, dissolved (µg/L)	Copper, dissolved (µg/L)	Iron, dissolved (µg/L)	Lead, dissolved (µg/L)	Lithium, dissolved (µg/L)	Manganese, dissolved (µg/L)	Molybdenum, dissolved (µg/L)	Nickel, dissolved (µg/L)
5S/3W-32H1	<10	--	<10	<20	<5	--	30	--	--
5S/3W-32L1	<10	--	50	540	150	--	590	--	--
5S/3W-33K1	<10	--	<10	120	<5	--	220	--	<10
	<10	--	<10	410	<5	--	140	--	<10
5S/3W-33R2	<10	--	20	7,200	5.0	--	200	--	--
5S/3W-35N2	10	--	<10	710	<10	--	100	--	40
	<10	--	<10	760	<10	--	90	--	20
	<10	--	<10	950	20	--	180	--	60
	20	--	30	21,000	<10	--	3,600	--	30
5S/3W-35P1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-35Q1	--	--	--	--	--	--	--	--	--
5S/3W-35R1	<10	--	10	140	<5	--	120	--	--
5S/3W-36D1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-36K1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-36N2	<10	--	90	1,700	<5	--	510	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-36P1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
5S/3W-36P2	<10	--	<10	7,700	<5	--	730	--	<20
	<10	--	<10	8,100	<5	--	650	--	<20
	<10	--	<10	5,600	<5	--	830	--	<20
	<10	--	10	15,000	<5	--	2,600	--	<20
	<10	--	10	17,000	7.0	--	2,100	--	<20
	<5	7	<10	4	<10	190	1,100	<10	<10
5S/3W-36Q1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
6S/3W-1D1	--	--	--	--	--	--	--	--	--
6S/3W-1D2	--	--	--	--	--	--	--	--	--
6S/3W-1E1	--	--	--	--	--	--	--	--	--
6S/3W-1H1	20	--	110	110	3.0	--	7	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
6S/3W-1J2	<10	--	20	50	<5	--	<10	--	--
	80	<9	<30	140	<30	50	46	<30	<30
6S/3W-2A1	<10	--	20	<20	<5	--	70	--	--
	<10	--	<10	30	<5	--	50	--	--
	<10	--	<10	20	<5	--	300	--	--
	<10	--	10	<20	<5	--	1,300	--	--
6S/3W-2C1	--	--	--	--	--	--	--	--	--
6S/3W-2D1	<10	--	30	<20	<5	--	140	--	--
	<10	--	<10	<20	6.0	--	80	--	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Selenium, dissolved (µg/L)	Silver, dissolved (µg/L)	Strontium, dissolved (µg/L)	Vanadium, dissolved (µg/L)	Zinc, dissolved (µg/L)	Source of data
5S/3W-32H1	<5	<10	--	--	120	Babcock
5S/3W-32L1	21	<10	--	--	770	Babcock
5S/3W-33K1	7.0	<10	--	--	150	Babcock - 280'-300'
	7.0	<10	--	--	70	Babcock - 170'-190'
5S/3W-33R2	<5	<10	--	--	1,100	Babcock
5S/3W-35N2	5.0	<10	1,500	--	2,800	Babcock - 250'-350'
	5.0	<10	1,500	--	4,400	Babcock - 400'-440'
	<5	<10	1,400	--	6,400	Babcock - 480'-520'
	<5	<10	2,400	--	16,000	Babcock - 580'-600'
5S/3W-35P1	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
5S/3W-35Q1	--	--	--	--	--	EMWD
5S/3W-35R1	6.0	<10	--	--	270	Babcock
5S/3W-36D1	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
5S/3W-36K1	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
5S/3W-36N2	<5	<10	--	--	--	Babcock
	--	--	--	--	--	EMWD
5S/3W-36P1	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
5S/3W-36P2	<5	<10	600	--	6,600	Babcock - 400'-440'
	<5	<10	700	--	7,000	Babcock - 460'-500'
	<5	<10	700	--	12,000	Babcock - 520'-560'
	<5	20	1,100	--	5,600	Babcock - 580'-620'
	<5	<5	900	--	30,000	Babcock - 640'-680'
	--	2.0	1,000	19	20	USGS
5S/3W-36Q1	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
6S/3W-1D1	--	--	--	--	--	RCFCD
6S/3W-1D2	--	--	--	--	--	DWR
6S/3W-1E1	--	--	--	--	--	EMWD
6S/3W-1H1	--	--	--	--	2,100	WNTL
	--	--	--	--	--	Babcock
	--	--	--	--	--	Babcock
6S/3W-1J2	<5	<10	--	--	10	Babcock
	9.0	<3.0	2,400	<18	13	USGS
6S/3W-2A1	6.0	<10	--	--	270	Babcock - Composite
	6.0	<10	--	--	60	Babcock - 180'-200'
	<5	<10	--	--	90	Babcock - 300'-440'
	<5	<10	--	--	260	Babcock - 550'-570'
6S/3W-2C1	--	--	--	--	--	DWR
6S/3W-2D1	< 5	<10	--	--	420	Babcock - Composite
	<5	<10	--	--	40	Babcock - 205'-225'

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California–*Continued*

Well No.	Date	Water level (ft blw LSD)	Well depth (ft)	Altitude of LSD (ft)	Specific conductance (µS/cm)		pH (lab) (Std. units)	Water temperature (°C)
					Field	Lab		
	9/27/93	--			--	2,500	6.9	--
	9/27/93	--			--	1,470	8.1	--
6S/3W-2E1	11/13/93	--	651.3	1,425	--	1,690	6.4	--
	10/17/93	--			--	1,740	6.9	--
	10/18/93	--			--	1,400	7.8	--
6S/3W-2F1	3/15/63	--	--	1,425	--	650	7.1	--
	11/5/64	--			--	590	6.9	--
	5/4/65	--			--	595	7.3	--
	5/17/68	--			--	797	7.7	--
6S/3W-2G1	6/4/91	--	625	1,426	--	--	8.0	--
	6/12/91	--			--	1,240	7.4	--
	6/14/91	--			--	--	--	--
6S/3W-2G2	6/4/91	--	622	1,428	--	--	7.7	--
	6/12/91	--			--	1,640	7.3	--
	6/14/91	--			--	--	--	--
6S/3W-2H2	6/4/91	--	565	1,428	--	--	8.1	--
	6/12/91	--			--	1,280	7.4	--
	6/14/91	--			--	--	--	--
6S/3W-3C1	10/1/75	--	600	1,425	--	3,500	6.3	--
	10/10/75	--			--	3,300	6.1	--
	7/1/91	--			--	3,210	6.0	--
6S/3W-3C2	5/17/67	--	--	--	--	1,160	8.0	--
	4/22/75	--			--	2,880	7.7	23.0
6S/3W-3H2	4/20/77	--	468	1,430	--	--	--	--
	6/7/91	--			--	1,910	6.9	--
6S/3W-3L1	7/20/93	107.09	200	1,460	600	614	7.2	22.0
6S/3W-4K1	1/26/53	--	--	1,452	--	980	--	--
	3/15/63	--			--	550	7.3	19.5
6S/3W-8R1	12/10/93	--	250	1,525	1,200	1,190	7.8	21.0
6S/3W-9E1	12/10/93	--	150	1,500	680	690	7.5	21.5
6S/3W-9G1	12/10/93	--	--	1,485	1,240	1,250	7.6	21.0

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California–*Continued*

Well No.	Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO_3)	Alkalinity (mg/L as $CaCO_3$)	
							Field	Lab
	950	240	83.0	120.0	9	370	--	300
	440	84	55.0	150.0	12	580	--	480
6S/3W-2E1	630	160	52.0	110.0	7	490	--	400
	650	170	54.0	120.0	8	610	--	500
	500	120	47.0	130.0	9	790	--	650
6S/3W-2F1	180	43	18.0	57.0	2	140	--	--
	190	47	17.0	52.0	3	130	--	--
	190	51	14.0	56.0	3	140	--	--
	250	61	24.0	63.0	3	160	--	130
6S/3W-2G1	320	85	25.0	120.0	4	180	--	--
	--	88	27.0	110.0	5	200	--	160
	--	--	--	--	--	--	--	--
6S/3W-2G2	490	140	35.0	150.0	5	280	--	--
	--	130	41.0	130.0	6	270	--	220
	--	--	--	--	--	--	--	--
6S/3W-2H2	370	100	28.0	98.0	5	210	--	--
	--	110	34.0	96.0	5	230	--	190
	--	--	--	--	--	--	--	--
6S/3W-3C1	1,500	400	130.0	200.0	11	780	--	--
	1,600	460	96.0	240.0	16	880	--	--
	1,400	350	120.0	190.0	10	960	--	790
6S/3W-3C2	360	89	33.0	97.0	13	150	--	--
	1,200	300	100.0	130.0	10	400	--	320
6S/3W-3H2	--	--	--	--	--	--	--	--
	670	180	55.0	120.0	3	240	--	200
6S/3W-3L1	180	53	12.0	46.0	3	--	98	--
6S/3W-4K1	--	74	21.0	77.0	--	270	--	--
	150	32	18.0	53.0	4	230	--	--
6S/3W-8R1	360	98	28.0	91.0	2	--	190	--
6S/3W-9E1	190	50	16.0	60.0	2	--	120	--
6S/3W-9G1	380	100	32.0	100.0	2	--	240	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California–*Continued*

Well No.	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)	Bromide, dissolved (mg/L)	Silica, dissolved (mg/L as SiO_2)	Dissolved solids (mg/L) (sum)	Dissolved solids (mg/L) (residue)	Nitrate, dissolved (mg/L as N)	Nitrite dissolved (mg/L as N)
	230	510	0.2	--	--	--	1,650	1.8	<0.10
	180	95	0.3	--	--	--	890	0.23	0.10
6S/3W-2E1	160	210	0.3	--	--	--	1,080	3.8	--
	120	200	0.2	--	71	--	1,050	3.4	<0.10
	36	69	0.2	--	62	--	830	1.6	<0.10
6S/3W-2F1	57	76	0.1	--	47	--	410	4.3	--
	60	80	0.2	--	--	--	420	4.7	--
	53	84	0.2	--	--	--	420	4.3	--
	110	86	0.4	--	--	--	520	5.0	--
6S/3W-2G1	130	200	0.5	--	42	--	740	6.8	--
	120	200	0.4	--	--	--	790	7.5	--
	--	--	--	--	--	--	--	--	--
6S/3W-2G2	200	270	0.4	--	50	--	1,030	4.5	--
	170	270	0.4	--	--	--	1,050	5.9	--
	--	--	--	--	--	--	--	--	--
6S/3W-2H2	160	180	0.5	--	50	--	770	4.1	--
	160	190	0.4	--	--	--	840	3.4	--
	--	--	--	--	--	--	--	--	--
6S/3W-3C1	300	720	0.3	--	--	2,360	--	9.9	--
	320	670	0.4	--	--	--	2,540	0.90	--
	260	500	--	--	71	--	2,290	--	--
6S/3W-3C2	320	100	0.2	--	--	--	710	0.54	--
	300	580	0.7	--	--	--	2,170	2.5	--
6S/3W-3H2	--	--	--	--	--	--	1,380	--	--
	200	390	--	--	--	--	1,450	--	--
6S/3W-3L1	45	83	--	--	63	--	--	5.0	<0.010
6S/3W-4K1	56	180	--	--	--	--	--	5.4	--
	25	46	0.4	--	18	--	260	0.20	--
6S/3W-8R1	--	--	--	--	40	--	--	--	<0.010
6S/3W-9E1	39	87	--	--	39	--	--	11	<0.010
6S/3W-9G1	67	220	--	0.2	35	--	--	3.9	<0.010

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California–*Continued*

Well No.	$NO_3 + NO_2$, dissolved (mg/L as N)	Nitrogen ammonia, dissolved (mg/L as N)	Phosphorus, dissolved (mg/L)	Phosphorus ortho, dissolved (mg/L as P)	Arsenic, dissolved (µg/L)	Barium, dissolved (µg/L)	Beryllium, dissolved (µg/L)	Boron, dissolved (µg/L)	Cadmium, dissolved (µg/L)
	--	--	--	--	<5	<100	--	--	<1
	--	--	--	--	<5	100	--	--	<1
6S/3W-2E1	--	--	--	--	<5	100	--	--	<1
	--	--	--	--	<5	200	--	--	<1
	--	--	--	--	<5	200	--	--	<1
6S/3W-2F1	--	--	--	--	--	--	--	130	--
	--	--	--	--	--	--	--	50	--
	--	--	--	--	--	--	--	220	--
	--	--	--	--	--	--	--	0	--
6S/3W-2G1	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	<100	--
	--	--	--	--	3.7	--	--	--	0.60
6S/3W-2G2	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	<100	--
	--	--	--	--	5.0	--	--	--	0.40
6S/3W-2H2	--	--	--	--	--	--	--	200	--
	--	--	--	--	--	--	--	<100	--
	--	--	--	--	2.9	--	<0.2	--	0.30
6S/3W-3C1	--	<1.0	--	--	--	--	--	600	--
	--	--	--	--	--	--	--		--
	--	--	--	--	--	--	--	--	--
6S/3W-3C2	--	0.0	--	--	--	--	--	590	--
	--	--	--	--	--	--	--	80	--
6S/3W-3H2	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
6S/3W-3L1	5.0	0.03	--	0.03	8.0	86	<0.5	50	<1
6S/3W-4K1	--	--	--	--	--	--	--	60	--
	--	--	--	--	--	--	--	100	--
6S/3W-8R1	8.8	<0.01	--	0.07	2.0	360	<0.5	110	--
6S/3W-9E1	11	<0.01	--	0.31	3.0	100	<0.5	130	--
6S/3W-9G1	3.9	0.02	--	0.05	3.0	130	<0.5	100	--

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Chromium, dissolved (µg/L)	Cobalt, dissolved (µg/L)	Copper, dissolved (µg/L)	Iron, dissolved (µg/L)	Lead, dissolved (µg/L)	Lithium, dissolved (µg/L)	Manganese, dissolved (µg/L)	Molybdenum, dissolved (µg/L)	Nickel, dissolved (µg/L)
	<10	--	<10	2,300	<5	--	900	--	--
	<10	--	<10	<20	<5	--	340	--	--
6S/3W-2E1	<10	--	40	80	<5	--	370	--	--
	<10	--	<10	150	7.0	--	470	--	--
	<10	--	30	<20	<5	--	220	--	--
6S/3W-2F1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
6S/3W-2G1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	2.0	--	3.8	--	2.8	--	--	--	3.0
6S/3W-2G2	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	4.0	--	3.0	--	2.4	--	--	--	<4
6S/3W-2H2	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	2.0	--	4.8	--	2.1	--	--	--	<3
6S/3W-3C1	--	--	--	--	--	--	--	--	--
	--	--	--	320	--	--	540	--	--
	--	--	100	3,000	--	--	1,500	--	--
6S/3W-3C2	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
6S/3W-3H2	--	--	--	--	--	--	--	--	--
	--	--	170	3,500	--	--	150	--	--
6S/3W-3L1	<5	<3	<10	5	<10	20	<1	<10	<10
6S/3W-4K1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
6S/3W-8R1	<5	<3	<10	<3	<10	40	2	<10	<10
6S/3W-9E1	<5	<3	<10	<3	<10	40	<1	<10	<10
6S/3W-9G1	<5	<3	<10	<3	<10	30	<1	<10	<10

Table 2. Historical water-quality data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Selenium, dissolved (µg/L)	Silver, dissolved (µg/L)	Strontium, dissolved (µg/L)	Vanadium, dissolved (µg/L)	Zinc, dissolved (µg/L)	Source of data
	<5	<10	--	--	230	Babcock - 375'-395'
	<5	<10	--	--	<10	Babcock - 555'-575'
6S/3W-2E1	<5	<10	--	--	330	Babcock - Composite
	<5	<10	--	--	<10	Babcock - 370'-390'
	<5	<10	--	--	<10	Babcock - 440'-460'
6S/3W-2F1	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
6S/3W-2G1	--	--	--	--	--	EMWD/Babcock
	--	--	--	--	--	Babcock
	5.0	<0.1	--	--	5	EMWD
6S/3W-2G2	--	--	--	--	--	EMWD/Babcock
	--	--	--	--	--	Babcock
	8.0	<0.1	--	--	8	EMWD
6S/3W-2H2	--	--	--	--	--	EMWD/Babcock
	--	--	--	--	--	Babcock
	9.0	<0.1	--	--	6	EMWD
6S/3W-3C1	--	--	--	--	--	EMWD
	--	--	--	--	--	Babcock
	--	--	--	--	170	Babcock
6S/3W-3C2	--	--	--	--	--	EMWD
	--	--	--	--	--	DWR
6S/3W-3H2	--	--	--	--	--	EMWD
	--	--	--	--	60	Babcock
6S/3W-3L1	3.0	<1.0	350	21	280	USGS
6S/3W-4K1	--	--	--	--	--	RCFCD
	--	--	--	--	--	RCFCD
6S/3W-8R1	2.0	<1.0	300	17	5	USGS
6S/3W-9E1	1.0	<1.0	280	26	4	USGS
6S/3W-9G1	4.0	<1.0	430	33	310	USGS

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California

[ft, foot; ft blw LSD, feet below land surface datum; R, number is a reported value; --, no data. Altitude, in feet above sea level. Asterisk(*) indicates that altitude and water levels are from a reference point other than LSD. Two asterisks (**) indicate the old RCFCD well no. Source of data: DWR, California Department of Water Resources; MWD, Metropolitan Water District of Southern California; RCFCD; Riverside County Flood Control and Water Conservation District; EMWD, Eastern Municipal Water District. Wells not shown in figure 1 were not located in the field or have been destroyed. Additional data from non-USGS sources are available]

Well No.	Other known designation	Well depth (ft) Original	Well depth (ft) Sounded (date)	Perforations (ft blw LSD)	Altitude	Date	Water Level (ft blw LSD)	Water Level Altitude	Source of data
4S/3W-26A1		365	342 (4/28/95)	200-330	1,425	4/28/95	169.73	1,255.27	USGS
4S/3W-26C2	Skiland #5	--	220.5 (5/3/95)	--	1,415	4/11/89	179.0	1,236.0	EMWD
						3/27/90	169.0	1,246.0	EMWD
						10/9/90	173.4	1,241.6	EMWD
						9/91	154.7	1,260.3	EMWD
						3/92	155.0	1,260.0	EMWD
						9/92	132.5	1,282.5	EMWD
						4/93	110.6	1,304.4	EMWD
						9/93	103.4	1,311.6	EMWD
						3/94	104.1	1,310.9	EMWD
						9/94	103.0	1,312.0	EMWD
						3/95	104.2	1,310.8	EMWD
						5/3/95	103.70	1,311.30	USGS
						9/13/95	100.60	1,314.40	USGS
4S/3W-26F1		793	165.6 (5/3/95)	120-570	1,418	5/3/95	151.05	1,266.95	USGS
						9/13/95	142.07	1,275.93	USGS
4S/3W-26M1	Skiland #2	--	499.5 (5/3/95)	--	1,416	4/11/89	165.0	1,251.0	EMWD
						3/27/90	164.0	1,252.0	EMWD
						10/9/90	169.5	1,246.5	EMWD
						9/91	169.0	1,247.0	EMWD
						3/92	161.5	1,254.5	EMWD
						9/92	163.5	1,252.5	EMWD
						3/93	156.0	1,260.0	EMWD
						9/93	155.4	1,260.6	EMWD
						3/94	148.2	1,267.8	EMWD
						9/94	147.7	1,268.3	EMWD
						3/95	140.2	1,275.8	EMWD
						5/3/95	138.64	1,277.36	USGS
						9/13/95	139.02	1,276.98	USGS
4S/3W-26N1	Skiland #1	--	700.6 (5/3/95)	--	1,417	4/11/89	162.0	1,255.0	EMWD
						3/27/90	163.0	1,254.0	EMWD
						10/9/90	166.7	1,250.3	EMWD
						9/91	165.0	1,252.0	EMWD
						3/92	162.0	1,255.0	EMWD
						9/92	161.5	1,255.5	EMWD
						3/93	157.0	1,260.0	EMWD
						9/93	154.3	1,262.7	EMWD
						3/94	149.3	1,267.7	EMWD
						9/94	145.7	1,271.3	EMWD
						3/95	140.5	1,276.5	EMWD
						5/3/95	138.39	1,278.61	USGS
						9/13/95	138.04	1,278.96	USGS
4S/3W-28A	4S/3W-28R2**	125	--	--	1,420.6	1/13/42	99.0	1,321.6	DWR
						1/14/43	99.3	1,321.3	DWR
						1/20/44	103.7	1,316.9	DWR
						1/12/45	111.8	1,308.8	DWR
						1/16/46	103.1	1,317.5	DWR
						1/7/47	113.7	1,306.9	DWR
						6/19/47	127.9	1,292.7	DWR
						1/20/48	113.8	1,306.8	DWR
						12/18/48	123.7	1,296.9	DWR
4S/3W-28N	4S/3W-28R1**	259	--	--	1,414	1/14/42	101.0	1,313.0	DWR
						1/14/43	110.8	1,303.2	DWR

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft) Original	Well depth (ft) Sounded (date)	Perforations (ft blw LSD)	Altitude	Date	Water Level (ft blw LSD)	Water Level Altitude	Source of data
						1/20/44	105.7	1,308.3	DWR
						1/16/45	111.5	1,302.5	DWR
						1/17/46	127.5	1,286.5	DWR
						1/20/48	137.5	1,276.5	DWR
						12/18/48	145.0	1,269.0	DWR
						1/17/51	149.9	1,264.1	DWR
						2/6/51	145.0	1,269.0	DWR, collapsed
4S/3W-29F1	4S/3W-29R4**	--	--	--	1,431	6/10/53	234.1	1,196.9	RCFCD
						12/9/53	223.4	1,207.6	RCFCD
						3/30/54	216.0	1,215.0	RCFCD
4S/3W-29Q1		1,624	--	--	1,417	1/12/48	134.9	1,282.1	Owner
						8/25/48	146.9	1,270.1	Owner
						3/27/49	150.0	1,267.0	Owner
						7/18/49	169.9	1,247.1	Owner
						1/16/50	159.9	1,257.1	Owner
						10/2/50	179.9	1,237.1	Owner
						1/7/51	169.9	1,247.1	Owner
						4/27/51	157.9	1,259.1	Owner
						2/2/52	179.5	1,237.5	DWR
						10/3/68	208.5	1,208.5	RCFCD
						1/7/69	207.2	1,209.8	RCFCD
						8/6/69	208.4	1,208.6	RCFCD
						1/6/70	203.2	1,213.8	RCFCD
						8/4/70	207.7	1,209.3	RCFCD
						3/2/71	205.8	1,211.2	RCFCD
						8/3/71	209.8	1,207.2	RCFCD
						1/6/72	206.0	1,211.0	RCFCD
						8/11/72	210.1	1,206.9	RCFCD
						1/8/73	202.8	1,214.2	RCFCD
						8/10/73	204.3	1,212.7	RCFCD
						1/14/74	198.4	1,218.6	RCFCD
						10/15/74	204.4	1,212.6	RCFCD
						11/13/74	203.8	1,213.2	RCFCD
						1/9/75	199.8	1,217.2	RCFCD
						2/13/75	199.7	1,217.3	RCFCD
						3/7/75	200.0	1,217.0	RCFCD
						4/2/75	197.9	1,219.1	RCFCD
						6/2/75	200.1	1,216.9	RCFCD
						7/7/75	202.6	1,214.4	RCFCD
						8/6/75	203.9	1,213.1	RCFCD
						9/11/75	203.2	1,213.8	RCFCD
						10/29/75	203.1	1,213.9	RCFCD
						1/12/76	204.6	1,212.4	RCFCD
						2/4/76	204.6	1,212.4	RCFCD
						3/4/76	202.4	1,214.6	RCFCD
						4/14/76	198.7	1,218.3	RCFCD
						7/2/76	203.6	1,213.4	RCFCD
						8/9/76	205.0	1,212.0	RCFCD
						10/22/76	201.0	1,216.0	RCFCD
						12/9/76	199.5	1,217.5	RCFCD
						1/6/77	198.6	1,218.4	RCFCD
						3/8/77	204.8	1,212.2	RCFCD
						4/14/77	204.8	1,212.2	RCFCD
						10/16/77	209.6	1,207.4	RCFCD
						6/26/79	189.86	1,227.14	USGS
						4/23/80	181.80	1,235.20	USGS
						10/24/80	177.50	1,239.50	USGS
						4/15/81	172.90	1,244.10	USGS
						9/30/82	161.24	1,255.76	USGS
						7/27/83	155.44	1,261.56	USGS
						11/30/83	151.70	1,265.30	USGS
						4/11/84	149.91	1,267.09	USGS
						5/10/85	143.88	1,273.12	USGS
						5/15/86	137.54	1,279.46	USGS

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft) Original	Well depth (ft) Sounded (date)	Perforations (ft blw LSD)	Altitude	Date	Water Level (ft blw LSD)	Water Level Altitude	Source of data
						9/15/86	139.44	1,277.56	USGS
						5/1/87	135.06	1,281.94	USGS
						10/27/87	134.30	1,282.70	USGS
						5/26/88	132.12	1,284.88	USGS
						9/13/89	129.51	1,287.49	USGS
						11/13/90	126.33	1,290.67	USGS
						10/23/91	123.40	1,293.60	USGS
						6/15/92	118.64	1,298.36	USGS
						10/20/93	111.28	1,305.72	USGS
						3/14/94	108.51	1,308.49	USGS
4S/3W-29Q3		--	--	--	1,415	8/20/64	204.4	1,210.6	DWR
						12/30/64	182.3	1,232.7	DWR
						7/2/65	204.8	1,210.2	DWR
						12/28/65	197.1	1,217.9	DWR
						6/27/66	209.8	1,205.2	DWR
						1/30/68	205.9	1,209.1	DWR
						6/27/68	203.8	1,211.2	DWR
						1/6/69	202.8	1,212.2	DWR
						9/29/69	205.3	1,209.7	DWR
4S/3W-30H	4S/3W/30R1**	--	--	--	1,443	1/13/42	72.8	1,370.2	RCFCD
						1/20/44	91.4	1,351.6	RCFCD
						1/12/45	70.6	1,372.4	RCFCD
						1/8/46	70.8	1,372.2	RCFCD
						1/7/47	70.8	1,372.2	RCFCD
						6/18/47	86.0	1,357.0	RCFCD, destroyed
4S/3W-31H	MW-6	75	--	55-75	1,448.0*	5/29/92	58.1*	1,389.9	SEACOR
						1/20/93	57.5*	1,390.5	SEACOR
						6/11/93	57.2*	1,390.8	SEACOR
						2/1/94	56.1*	1,391.9	SEACOR
4S/3W-31Q1	4S3W-31R1**	60	--	--	1,490	1/8/42	41.9	1,448.1	RCFCD
						1/13/43	40.6	1,449.4	DWR
						1/18/44	41.0	1,449.0	DWR
						1/11/45	39.9	1,450.1	DWR
						1/8/46	39.9	1,450.1	DWR
						1/7/47	41.0	1,449.0	DWR
						6/19/47	44.9	1,445.1	DWR
						1/16/48	43.1	1,446.9	RCFCD
						1/17/50	44.8	1,445.2	RCFCD
						2/5/51	44.8	1,445.2	RCFCD
						1/18/52	45.2	1,444.8	RCFCD
						8/4/52	42.6	1,447.4	RCFCD
						10/16/53	41.7	1,448.3	RCFCD
						3/30/54	42.0	1,448.0	RCFCD
						11/15/54	43.0	1,447.0	RCFCD
						4/4/55	42.0	1,448.0	RCFCD
						10/28/55	42.8	1,447.2	RCFCD
						2/20/56	43.1	1,446.9	RCFCD
						10/15/56	44.0	1,446.0	RCFCD
						4/18/57	44.4	1,445.6	RCFCD
						9/30/57	44.9	1,445.1	RCFCD
						4/17/58	44.4	1,445.6	RCFCD
4S/3W-32B2	4S3W-32R2**	--	--	--	1,420	3/6/41	119.6	1,300.4	Owner
						1/14/43	128.8	1,291.2	DWR
						1/15/48	169.8	1,250.2	DWR
						1/26/53	188.5	1,231.5	RCFCD
4S/3W-32E1	4S/3W-32R1**	90	--	--	1,433	5/1/29	66.0	1,367.0	DWR
						5/21/30	66.5	1,366.5	DWR
						12/4/30	67.2	1,365.8	DWR
						6/12/31	58.4	1,374.6	DWR
						5/3/32	68.7	1,364.3	DWR

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft) Original	Well depth (ft) Sounded (date)	Perforations (ft blw LSD)	Altitude	Date	Water Level (ft blw LSD)	Water Level Altitude	Source of data
						11/18/32	69.3	1,363.7	DWR
						5/18/33	69.7	1,363.3	DWR
						11/10/33	69.9	1,363.1	DWR
						2/6/34	69.9	1,363.1	DWR
						12/4/34	70.5	1,362.5	DWR
						5/7/35	70.8	1,362.2	DWR
						11/5/35	71.0	1,362.0	DWR
						7/30/36	71.2	1,361.8	DWR
						12/22/36	70.0	1,363.0	DWR
						6/21/37	70.2	1,362.8	DWR
						11/19/37	70.1	1,362.9	DWR
						5/4/38	70.3	1,362.7	DWR
						11/3/38	70.6	1,362.4	DWR
						6/9/39	71.0	1,362.0	DWR
						11/15/39	71.0	1,362.0	DWR
						8/23/40	71.5	1,361.5	DWR
						1/15/41	71.4	1,361.6	DWR
						8/20/41	72.0	1,361.0	DWR
						3/31/42	74.1	1,358.9	DWR
						1/20/43	68.8	1,364.2	DWR
						1/12/45	66.4	1,366.6	DWR
						7/17/45	65.5	1,367.5	DWR
						1/9/46	70.1	1,362.9	DWR
						6/25/46	63.5	1,369.5	DWR
						1/7/47	74.7	1,358.3	DWR
						6/19/47	82.4	1,350.6	RCFCD
						3/12/48	62.7	1,370.3	RCFCD
						7/12/48	62.7	1,370.3	RCFCD
						1/11/49	65.5	1,367.5	RCFCD
						8/9/49	63.7	1,369.3	RCFCD
						1/17/50	63.9	1,369.1	RCFCD
						7/5/50	65.1	1,367.9	RCFCD
						1/11/51	65.1	1,367.9	RCFCD
						7/27/51	66.1	1,366.9	RCFCD
						1/15/52	68.9	1,364.1	RCFCD
						8/4/52	68.7	1,364.3	RCFCD
						2/26/53	67.5	1,365.5	RCFCD
						12/22/53	68.8	1,364.2	RCFCD
						6/1/54	69.6	1,363.4	RCFCD
						11/5/54	69.9	1,363.1	RCFCD
						7/7/55	70.6	1,362.4	RCFCD
						12/6/55	71.1	1,361.9	RCFCD
						7/31/56	71.6	1,361.4	RCFCD
						12/4/56	71.8	1,361.2	RCFCD
						7/2/57	73.4	1,359.6	RCFCD
						12/5/57	72.1	1,360.9	RCFCD
						8/11/58	72.4	1,360.6	RCFCD
						12/18/58	73.2	1,359.8	RCFCD
						7/7/59	72.6	1,360.5	RCFCD
						12/2/59	77.6	1,355.4	RCFCD
						8/4/60	80.8	1,352.2	RCFCD
						12/6/60	80.3	1,352.7	RCFCD
						7/11/61	74.5	1,358.5	RCFCD
						12/28/61	72.4	1,360.6	RCFCD
						8/6/62	73.9	1,359.1	RCFCD
						12/5/62	73.9	1,359.1	RCFCD
						8/6/63	74.6	1,358.4	RCFCD
						12/4/63	74.6	1,358.4	RCFCD
						6/8/64	74.7	1,358.3	RCFCD
						12/23/64	75.4	1,357.6	RCFCD
						7/13/65	75.7	1,357.3	RCFCD
						12/20/65	75.8	1,357.2	RCFCD
						7/7/66	76.2	1,356.8	RCFCD
						12/13/66	75.9	1,357.1	RCFCD
						5/2/67	75.7	1,357.3	RCFCD

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft) Original	Well depth (ft) Sounded (date)	Perforations (ft blw LSD)	Altitude	Date	Water Level (ft blw LSD)	Water Level Altitude	Source of data
4S/3SW-33D1	4S/3W-33R1**	--	--	--	1,414.8	1/17/50	144.2	1,270.6	RCFCD
						8/7/50	157.4	1,257.4	RCFCD
						1/17/51	154.1	1,260.7	RCFCD
						6/21/51	165.1	1,249.7	RCFCD
						1/15/52	161.8	1,253.0	RCFCD
						1/26/53	163.6	1,251.2	RCFCD
						10/15/53	175.9	1,238.9	RCFCD
						3/30/54	168.8	1,246.0	RCFCD
						11/15/54	179.9	1,234.9	RCFCD
						4/4/55	178.9	1,235.9	RCFCD
						9/1/55	185.4	1,229.4	RCFCD
						1/4/56	182.2	1,232.6	RCFCD
						9/4/56	189.3	1,225.5	RCFCD
						1/3/57	184.7	1,230.1	RCFCD
						8/1/57	186.9	1,227.9	RCFCD
						1/7/58	185.3	1,229.5	RCFCD
						8/11/58	184.7	1,230.1	RCFCD
						1/30/59	187.3	1,227.5	RCFCD
						8/11/59	176.8	1,238.0	RCFCD
						1/6/60	174.9	1,239.9	RCFCD
						8/4/60	193.6	1,221.2	RCFCD
						1/3/61	195.4	1,219.4	RCFCD
						8/3/61	194.5	1,220.3	RCFCD
						2/1/62	187.3	1,227.5	RCFCD
						8/6/62	191.5	1,223.3	RCFCD
						1/9/63	191.5	1,223.3	RCFCD
						5/8/63	192.6	1,222.2	RCFCD
4S/3W-33E1		440	130.3 (4/7/95)	170-430	1,415	4/7/95	97.28	1,317.72	USGS
						9/28/95	93.24	1,321.76	USGS
4S/3W-33Q1		445	386.1 (4/7/95)	135-400	1,415	10/2/81	153.0	1,262.0	EMWD
						8/87	124.0	1,291.0	EMWD
						5/16/88	118.8	1,296.2	EMWD
						1/11/93	111.9	1,303.1	EMWD
						4/7/95	95.98	1,319.02	USGS
						9/13/95	93.09	1,321.91	USGS
4S/3W-34Q1		--	133.7 (3/31/95)	--	1,419	1/19/44	105.6	1,313.4	DWR
						1/16/46	109.7	1,309.3	DWR
						1/7/47	112.2	1,306.8	DWR
						1/20/48	116.6	1,302.4	DWR
						8/11/48	120.1	1,298.9	DWR
						12/18/48	122.0	1,297.0	DWR
						1/17/50	126.2	1,292.8	DWR
						2/6/51	132.3	1,286.7	DWR
						2/1/52	137.7	1,281.3	DWR
						1/27/53	141.2	1,277.8	RCFCD
						10/20/53	151.9	1,267.1	RCFCD
						4/2/54	154.1	1,264.9	RCFCD
						4/7/55	159.0	1,260.0	RCFCD
						3/31/95	124.42	1,294.58	USGS
						9/13/95	116.85	1,302.15	USGS
4S/3W-35F1	4S/3W-35R2**	--	--	--	1,432	2/1/52	140.6	1,291.4	DWR
						1/27/53	143.6	1,288.4	RCFCD
						10/20/53	156.6	1,275.4	RCFCD
						4/21/55	161.6	1,270.4	RCFCD
						11/1/55	165.9	1,266.1	RCFCD
						2/4/56	164.9	1,267.1	RCFCD
						10/19/56	172.8	1,259.2	RCFCD
						4/25/57	175.1	1,256.9	RCFCD
						10/4/57	177.6	1,254.4	RCFCD
						4/24/58	167.3	1,264.7	RCFCD
						11/28/58	179.4	1,252.6	RCFCD
						10/23/59	182.0	1,250.0	RCFCD

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft) Original	Well depth (ft) Sounded (date)	Perforations (ft blw LSD)	Altitude	Date	Water Level (ft blw LSD)	Water Level Altitude	Source of data
						3/18/60	178.4	1,253.6	RCFCD
						10/11/60	183.7	1,248.3	RCFCD
						3/23/61	183.5	1,248.5	RCFCD
						11/2/61	212.5	1,219.5	RCFCD
						3/21/62	196.7	1,235.3	RCFCD
						10/16/62	212.0	1,220.0	RCFCD
						3/26/63	212.1	1,219.9	RCFCD
						10/21/63	213.1	1,218.9	RCFCD
						3/24/64	213.8	1,218.2	RCFCD
						10/2/64	211.2	1,220.8	RCFCD
						4/15/65	212.4	1,219.6	RCFCD
						11/3/65	207.1	1,224.9	RCFCD
						10/25/66	222.6	1,209.4	RCFCD
						10/26/67	220.4	1,211.6	RCFCD
						11/8/68	223.7	1,208.3	RCFCD
						4/7/69	209.9	1,222.1	RCFCD
						11/6/69	221.2	1,210.8	RCFCD
						4/8/70	218.4	1,213.6	RCFCD
						10/8/70	210.8	1,221.2	RCFCD
						4/6/71	217.8	1,214.2	RCFCD
						10/14/71	208.5	1,223.5	RCFCD
5S/2W-19N1		358	290.5 (5/3/95)	96-312	1,459	9/18/87	29.40	1,429.60	USGS
						3/18/92	37.79	1,421.21	USGS
						9/3/92	42.47	1,416.53	USGS
						12/29/92	40.03	1,418.97	USGS
						5/13/93	37.53	1,421.47	USGS
						9/10/93	34.34	1,424.66	USGS
						12/29/93	40.03	1,418.97	USGS
						2/10/94	33.70	1,425.30	USGS
						3/15/94	33.25	1,425.75	USGS
						11/18/94	32.77	1,426.23	USGS
5S/2W-19N2		373	360.35 (5/16/95)	127-141 157-217 231-251 265-365	1,458	5/16/95	33.43	1,424.57	USGS
5S/2W-27N1		105	58 (5/13/93)	40-105	1,491	5/12/93	9.27	1,481.73	USGS
						12/30/93	11.27	1,479.73	USGS
						6/16/94	8.59	1,482.41	USGS
5S/2W-28C1		300	--	no casing	1,475	5/22/95	22.68	1,452.32	USGS
5S/2W-28D1		--	154.9 (5/16/95)	--	1,463	5/16/95	10.98	1,452.02	USGS
5S/2W-28E1		455	400.3 (12/3/93)	395-400	1,459	12/3/93	21.20	1,437.80	USGS
						2/10/94	9.53	1,449.47	USGS
						6/16/94	9.38	1,449.62	USGS
						6/21/94	9.19	1,449.81	USGS
						11/17/94	9.54	1,449.46	USGS
5S/2W-28E2		455	311.5 (12/3/93)	306-311	1,459	12/3/93	7.08	1,451.92	USGS
						2/10/94	6.87	1,452.13	USGS
						6/16/94	7.68	1,451.32	USGS
						6/21/94	7.66	1,451.34	USGS
						11/17/94	8.45	1,450.55	USGS
5S/2W-28E3		455	233.8 (12/3/93)	228-233	1,459	12/3/93	25.67	1,433.33	USGS
						2/10/94	9.94	1,449.06	USGS
						6/16/94	10.39	1,448.61	USGS
						6/21/94	10.50	1,448.50	USGS
						11/17/94	7.83	1,451.17	USGS
5S/2W-29J1		100	62.5 (6/2/95)	40-60	1,455	6/2/95	5.17	1,449.83	USGS
						9/13/95	8.49	1,446.51	USGS

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft)		Perforations (ft blw LSD)	Altitude	Date	Water Level		Source of data
		Original	Sounded (date)				(ft blw LSD)	Altitude	
5S/2W-29L2			85 R (7/3/94)	--	1,458	5/16/95	13.60	1,444.40	USGS
5S/2W-29L3		200	--	50-70, 100-120, 160-180	1,455	5/15/95	7.86	1,447.14	USGS
						8/14/95	9.85	1,445.15	USGS
5S/2W-29N1		--	113.5 (12/30/92)	--	1,450	12/30/92	15.02	1,434.98	USGS
						5/13/93	5.64	1,444.36	USGS
						2/10/94	8.00	1,442.00	USGS
						11/17/94	8.57	1,441.43	USGS
						6/23/95	6.39	1,443.61	USGS
						7/12/95	6.83	1,443.17	USGS
						9/13/95	8.16	1,441.84	USGS
5S/2W-30A1	Winchester #5	70	71.2 (5/23/95)	50-70	1,475	12/93	29.2	1,445.8	EMWD
						3/94	28.6	1,446.4	EMWD
						9/94	29.7	1,445.3	EMWD
						3/95	19.3	1,455.7	EMWD
						5/23/95	18.79	1,456.21	USGS
						6/95	20.8	1,454.2	EMWD
						7/6/95	23.08	1,451.92	USGS
						9/13/95	30.35	1,444.65	USGS
5S/2W-30B1	Winchester #4	70	70.4 (5/23/95)	50-70	1,468	12/93	24.7	1,443.3	EMWD
						3/94	21.8	1,446.2	EMWD
						9/94	20.9	1,447.1	EMWD
5S/2W-30B1						3/95	15.6	1,452.4	EMWD
						5/23/95	14.63	1,453.37	USGS
						7/6/95	16.24	1,451.76	USGS
						9/13/95	20.92	1,447.08	USGS
5S/2W-30B2	Winchester #3	70	70.7 (6/2/95)	50-70	1,457	12/93	16.8	1,440.2	EMWD
						3/94	15.7	1,441.3	EMWD
						9/94	14.4	1,442.6	EMWD
						3/95	12.1	1,444.9	EMWD
						6/95	10.4	1,446.6	EMWD
						6/2/95	10.37	1,446.63	USGS
						7/6/95	10.64	1,446.36	USGS
						9/13/95	12.37	1,444.63	USGS
5S/2W-30C1		370	355.8 (5/16/95)	130-190 210-230 270-370	1,452	5/16/95	8.50	1,443.50	USGS
						9/13/95	15.12	1,436.88	USGS
5S2W-30D2		--	--	--	1,457	1/23/51	38.7	1,418.3	DWR
						1/24/52	41.7	1,415.3	DWR
						2/3/53	42.4	1,414.6	DWR
						12/21/53	43.6	1,413.4	DWR
5S/2W-30G2	Winchester #1	70	70.7 (5/23/95)	50-70	1,447	12/93	10.6	1,436.4	EMWD
						3/94	9.0	1,438.0	EMWD
						9/94	8.8	1,438.2	EMWD
						3/95	4.2	1,442.8	EMWD
						5/23/95	5.65	1,441.35	USGS
						6/95	6.2	1,440.8	EMWD
						7/7/95	6.95	1,440.05	USGS
						9/13/95	9.84	1,437.16	USGS
5S/2W-30G3	Winchester #2	72	71.4 (5/23/95)	52-72	1,449	12/93	16.7	1,432.3	EMWD
						3/94	11.3	1,437.7	EMWD
						9/94	11.5	1,437.5	EMWD
						3/95	6.7	1,442.3	EMWD
						5/23/95	6.96	1,442.04	USGS
						6/95	7.5	1,441.5	EMWD
						7/6/95	8.00	1,441.00	USGS
						9/13/95	13.33	1,435.67	USGS

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California–*Continued*

Well No.	Other known designation	Well depth (ft)		Perforations (ft blw LSD)	Altitude	Date	Water Level		Source of data
		Original	Sounded (date)				(ft blw LSD)	Altitude	
5S/2W-30H1	Winchester #6	70	69.1 (5/11/95)	50-70	1,462.5	12/93	22.4	1,440.1	EMWD
						3/94	18.0	1,444.5	EMWD
						9/94	18.6	1,443.9	EMWD
						3/95	10.6	1,451.9	EMWD
						5/11/95	9.56	1,452.94	USGS
						6/95	10.9	1,451.6	EMWD
						7/6/95	12.56	1,449.94	USGS
						9/11/95	19.53	1,442.97	USGS
5S/2W-30H2	Winchester #7	70	69.9 (5/11/95)	50-70	1,459	12/93	19.5	1,439.5	EMWD
						3/94	16.2	1,442.8	EMWD
						9/94	13.8	1,445.2	EMWD
						3/95	10.1	1,448.9	EMWD
						5/11/95	9.20	1,449.80	USGS
						6/95	9.8	1,449.2	EMWD
						9/11/95	16.59	1,442.41	USGS
5S/2W-30H3	Winchester #8	70	70.9 (5/23/95)	50-70	1,453	12/93	15.1	1,437.9	EMWD
						3/94	8.0	1,445.0	EMWD
						9/94	9.6	1,443.4	EMWD
						3/95	3.8	1,449.2	EMWD
						5/23/95	5.10	1,447.90	USGS
						6/95	5.2	1,447.8	EMWD
						7/6/95	5.65	1,447.35	USGS
						9/11/95	12.93	1,440.07	USGS
5S/2W-31H1	5S/2W-31R1**	--	--	--	1,457.1*	1/13/41	26.0*	1,431.1	DWR
						1/15/43	21.2*	1,435.9	DWR
						1/17/44	18.7*	1,438.4	DWR
						1/9/45	19.5*	1,437.6	DWR
						1/10/46	22.9*	1,434.2	DWR
						1/9/47	26.0*	1,431.1	DWR
						1/22/48	26.5*	1,430.6	DWR
						2/6/53	22.0*	1,435.1	DWR
5S/2W-31H2	5S/2W-31R2**	--	104 R (1953)	--	1,455	1/18/50	28.1	1,426.9	DWR
						1/24/51	30.1	1,424.9	DWR
						1/17/52	30.1	1,424.9	DWR
						2/6/53	28.9	1,426.1	DWR
						12/20/53	32.2	1,422.8	DWR
5S/2W-32A	5S/2W-32R3**	--	--	--	1,454.7	1/8/42	15.1	1,439.6	DWR
						1/15/43	19.6	1,435.1	DWR
						1/9/45	13.0	1,441.7	DWR
						1/10/46	15.2	1,439.5	DWR
						1/9/47	13.0	1,441.7	DWR
						1/22/48	17.5	1,437.2	DWR
						12/16/48	18.5	1,436.2	DWR
						1/18/50	23.3	1,431.4	DWR
						1/24/51	26.0	1,428.7	DWR
						1/17/52	27.5	1,427.2	DWR
						2/11/53	24.4	1,430.3	DWR
5S/2W-32G	5S/2W-32R1**	90	--	--	1,457.6	1/8/42	14.9	1,442.7	DWR
						1/15/43	18.3	1,439.3	DWR
						1/17/44	15.0	1,442.6	DWR
						1/9/45	15.3	1,442.3	DWR
						1/10/46	16.8	1,440.8	DWR
						1/9/47	18.1	1,439.5	DWR
						1/22/48	20.6	1,437.0	DWR
						12/11/48	24.6	1,433.0	DWR
						1/18/50	24.6	1,433.0	DWR
						1/24/51	26.6	1,431.0	DWR
						1/17/52	28.4	1,429.2	DWR, destroyed

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft) Original	Well depth (ft) Sounded (date)	Perforations (ft blw LSD)	Altitude	Date	Water Level (ft blw LSD)	Water Level Altitude	Source of data
5S/2W-33C1		438	71.2 (5/16/95)	44-54	1,462	12/30/92	16.44	1,445.56	USGS
				62-73		5/13/93	8.59	1,453.41	USGS
				75-85		2/10/94	9.49	1,452.51	USGS
				96-110		6/16/94	10.31	1,451.69	USGS
				124-133		11/17/94	11.52	1,450.48	USGS
				216-240		5/16/95	8.22	1,453.78	USGS
				287-403		9/13/95	10.45	1,451.55	USGS
5S/2W-33D1		270	145.1 (5/16/95)	--	1,458	5/13/93	7.32	1,450.68	USGS
						12/30/93	15.30	1,442.70	USGS
						2/10/94	8.40	1,449.60	USGS
						6/16/94	9.31	1,448.69	USGS
						11/17/94	10.71	1,447.29	USGS
						5/16/95	6.13	1,451.87	USGS
5S/2W-33D1						9/13/95	8.44	1,449.56	USGS
5S/3W-2M1		300	229.0 (4/28/95)	--	1,445	1/8/42	129.0	1,316.0	DWR
						1/13/43	131.3	1,313.7	DWR
						1/19/44	134.9	1,310.1	DWR
						1/17/46	141.5	1,303.5	DWR
						1/8/47	144.1	1,300.9	DWR
						1/22/48	147.0	1,298.0	DWR
						1/24/52	164.7	1,280.3	DWR
						4/28/95	140.31	1,304.69	USGS
						9/13/95	136.64	1,308.36	USGS
5S/3W-2R1		99	--	--	1,533	1/8/42	22.1	1,510.9	DWR
						1/13/43	22.5	1,510.5	DWR
						1/19/44	20.0	1,513.0	DWR
						1/11/45	19.7	1,513.3	DWR
						1/17/46	21.3	1,511.7	DWR
						1/8/47	23.3	1,509.7	DWR
						1/22/48	25.1	1,507.9	DWR
						1/26/51	29.5	1,503.5	DWR
						1/24/52	34.4	1,498.6	DWR
						2/9/53	44.9	1,488.1	DWR
5S/3W-3C1	B-6	260	250.9 (3/31/95)	230-250	1,420	3/94	120.9	1,299.1	EMWD
						9/94	117.8	1,302.2	EMWD
						3/95	113.9	1,306.1	EMWD
						3/31/95	113.61	1,306.39	USGS
						6/95	111.1	1,308.9	EMWD
						9/11/95	109.26	1,310.74	USGS
5S/3W-3L1	B-7	260	252.0 (3/31/95)	230-250	1,425	3/94	116.3	1,308.7	EMWD
						9/94	113.7	1,311.3	EMWD
						3/95	110.0	1,315.0	EMWD
						3/31/95	109.73	1,315.27	USGS
						6/95	107.6	1,317.4	EMWD
						9/11/95	105.98	1,319.02	USGS
5S/3W-3N1	A-1	865	577.8 (5/3/95)	290-310	1,415	3/94	100.2	1,314.8	EMWD
				555-575		9/94	99.2	1,315.8	EMWD
						3/95	94.9	1,320.1	EMWD
						3/31/95	94.64	1,320.36	USGS
						5/3/95	94.02	1,320.98	USGS
						9/13/95	91.92	1,323.08	USGS
5S/3W-3R1		540	--	180-540	1,435	1/11/93	142.50	1,292.5	EMWD
5S/3W-4A1	B-5	260	209.4 (4/14/95)	190-210	1,415	3/94	108.2	1,306.8	EMWD
						9/94	105.1	1,309.9	EMWD
						3/95	101.6	1,313.4	EMWD
						4/14/95	101.10	1,313.90	USGS
						6/95	99.3	1,315.7	EMWD
						9/11/95	97.75	1,317.25	USGS

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft) Original	Well depth (ft) Sounded (date)	Perforations (ft blw LSD)	Altitude	Date	Water Level (ft blw LSD)	Water Level Altitude	Source of data
5S/3W-4M1	B-1	260	251.3 (4/13/95)	230-250	1,412	3/94	93.8	1,318.2	EMWD
						9/94	93.1	1,318.9	EMWD
						3/95	88.3	1,323.7	EMWD
						4/13/95	87.70	1,324.30	USGS
						6/26/95	88.55	1,323.45	USGS
						9/13/95	85.30	1,326.70	USGS
5S/3W-5A1	5S/3W-5R3**	--	--	--	1,413	1/11/50	131.5	1,281.5	DWR
						1/26/51	139.9	1,273.1	RCFCD
5S/3W-5A1						1/24/52	150.5	1,262.5	RCFCD
						2/9/53	152.7	1,260.3	DWR, sealed
5S/3W-5B2		--	--	--	1,413	3/13/42	98.0	1,315.0	DWR
						1/13/43	104.4	1,308.6	DWR
						1/19/44	110.6	1,302.4	DWR
						1/16/45	106.6	1,306.4	DWR
						1/8/46	105.7	1,307.3	DWR
						1/7/47	111.8	1,301.2	DWR
						1/15/48	116.6	1,296.4	DWR
						12/16/48	126.0	1,287.0	DWR
						1/11/50	131.0	1,282.0	DWR
						1/26/51	140.1	1,272.9	DWR
						1/24/52	157.5	1,255.5	DWR
						2/9/53	152.7	1,260.3	DWR, sealed
5S/3W-5M1	5S/3W-5R1**	--	--	--	1,414.8	1/7/42	21.7	1,393.1	DWR
						1/13/43	27.8	1,387.0	DWR
						1/18/44	25.6	1,389.2	DWR
						1/11/45	21.7	1,393.1	DWR
						1/8/46	21.8	1,393.0	DWR
						1/8/47	23.9	1,390.9	DWR
						1/15/48	23.6	1,391.2	DWR
						12/16/48	25.6	1,389.2	DWR
						1/11/50	26.7	1,388.1	DWR
						1/26/51	27.0	1,387.8	DWR
						1/30/52	28.0	1,386.8	DWR
						2/11/53	27.9	1,386.9	DWR
						12/21/53	28.8	1,386.0	DWR
						11/9/54	24.6	1,390.2	DWR
						4/10/55	27.8	1,387.0	RCFCD, collapsed
5S/3W-6G1	5S/3W-6R1**	56	--	--	1,443	1/8/42	44.8	1,398.2	DWR
						1/13/43	45.8	1,397.2	DWR
						1/15/48	44.6	1,398.4	RCFCD
						1/26/51	48.9	1,394.1	RCFCD
						1/30/52	49.6	1,393.4	DWR
						1/23/53	49.7	1,393.3	DWR
						12/21/53	49.9	1,393.1	DWR,collapsed
5S/3W-6P1	5S/3W-6R2**	--	--	--	1,435	1/7/42	25.5	1,409.5	DWR
						1/13/43	26.9	1,408.1	DWR
						1/18/44	27.5	1,407.5	DWR
						1/11/45	24.4	1,410.6	DWR
						1/8/46	24.3	1,410.7	DWR
						1/8/47	26.2	1,408.8	DWR
						1/15/48	28.9	1,406.1	DWR
						12/16/48	31.2	1,403.8	DWR
						1/11/50	30.9	1,404.1	DWR
						1/26/51	35.4	1,399.6	DWR
						1/30/52	37.8	1,397.2	DWR
						1/23/53	36.1	1,398.9	DWR
						12/21/53	37.8	1,397.2	DWR, destroyed
5S/3W-7J1	5S/3W-7R2**	--	--	--	1,407	1/7/42	12.0	1,395.0	RCFCD
						1/13/43	14.8	1,392.2	RCFCD

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft) Original	Well depth (ft) Sounded (date)	Perforations (ft blw LSD)	Altitude	Date	Water Level (ft blw LSD)	Water Level Altitude	Source of data
						1/18/44	14.4	1,392.6	RCFCD
						1/11/45	14.4	1,392.6	RCFCD
						1/8/46	14.7	1,392.3	RCFCD
						1/8/47	15.1	1,391.9	RCFCD
						1/15/48	16.7	1,390.3	RCFCD
						12/16/48	17.9	1,389.1	RCFCD
						1/11/50	19.1	1,387.9	RCFCD
						1/26/51	20.3	1,386.7	RCFCD
						1/24/52	18.2	1,388.8	RCFCD
						1/23/53	18.2	1,388.8	DWR, collapsed
5S/3W-7L1	5S/3W-7R1**	--	--	--	1,420	1/7/42	14.2	1,405.8	DWR
						1/13/43	18.5	1,401.5	DWR
						1/8/46	15.5	1,404.5	DWR
						1/8/47	15.5	1,404.5	DWR
						1/15/48	17.4	1,402.6	DWR
						8/10/48	17.8	1,402.2	DWR
						1/11/49	18.5	1,401.5	DWR
						8/9/49	19.0	1,401.0	DWR
						1/11/50	19.6	1,400.4	DWR
						8/9/50	20.2	1,399.8	DWR
						1/17/51	20.0	1,400.0	DWR
						8/24/51	21.1	1,398.9	DWR
						1/15/52	22.6	1,397.4	DWR
						8/4/52	17.7	1,402.3	DWR
						1/23/53	18.3	1,401.7	DWR
						10/15/53	19.4	1,400.6	DWR, collapsed
5S/3W-8J1	5S/3W-8R1**	--	--	--	1,411.7	4/7/42	95.8	1,315.9	MWD
						1/13/43	101.2	1,310.5	DWR
						1/18/44	100.2	1,311.5	DWR
						1/11/45	97.0	1,314.7	DWR
						1/8/46	97.7	1,314.0	DWR
						1/8/47	99.5	1,312.2	DWR
						1/15/48	104.0	1,307.7	DWR
						12/16/48	113.4	1,298.3	DWR
						1/12/50	121.0	1,290.7	DWR
						1/26/51	134.1	1,277.6	DWR
						1/24/52	135.2	1,276.5	DWR
						1/30/53	137.7	1,274.0	DWR
						10/18/53	147.3	1,264.4	DWR
						3/30/54	146.4	1,265.3	RCFCD
						11/15/54	153.4	1,258.3	RCFCD
						4/4/55	157.7	1,254.0	RCFCD
						10/28/55	160.0	1,251.7	RCFCD
						2/20/56	155.5	1,256.2	RCFCD
						10/15/56	165.4	1,246.3	RCFCD
						4/18/57	159.3	1,252.4	RCFCD
						9/30/57	162.1	1,249.6	RCFCD
						4/17/58	90.7	1,321.0	RCFCD
5S/3W-9E1	B-3	240	238.4 (4/13/95)	220-240	1,415	3/94	87.9	1,327.1	EMWD
						9/94	88.4	1,326.6	EMWD
						3/95	84.2	1,330.8	EMWD
						4/13/95	83.69	1,331.31	USGS
						6/26/95	84.83	1,330.17	USGS
						9/13/95	81.55	1,333.45	USGS
5S/3W-9H1	B-2	260	241.8 (4/13/95)	220-240	1,417	3/94	98.6	1,318.4	EMWD
						9/94	96.9	1,320.1	EMWD
						3/95	93.5	1,323.5	EMWD
						4/13/95	92.86	1,324.14	USGS
						6/26/95	92.14	1,324.86	USGS
						9/13/95	89.81	1,327.19	USGS
5S/3W-9H2	B-4	250	250.6 (4/13/95)	240-250	1,420	3/94	101.8	1,318.2	EMWD

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft)		Perforations (ft blw LSD)	Altitude	Date	Water Level		Source of data
		Original	Sounded (date)				(ft blw LSD)	Altitude	
						9/94	99.2	1,320.8	EMWD
						3/95	93.2	1,326.8	EMWD
						4/13/95	96.00	1,324.00	USGS
						6/26/95	96.28	1,323.72	USGS
						9/13/95	93.60	1,326.40	USGS
5S/3W-9Q1		600	--	180-600	1,421	4/19/95	88.30	1,332.70	USGS
5S/3W-9R1	5S/3W-9R2**	--	--	--	1,421.3	1/7/42	105.3	1,316.0	DWR
						1/13/43	109.1	1,312.2	DWR
						1/18/44	109.0	1,312.3	DWR
						1/11/45	109.2	1,312.1	DWR
						1/17/46	109.0	1,312.3	DWR
						1/14/50	133.0	1,288.3	DWR
						1/29/52	143.2	1,278.1	DWR, destroyed
5S/3W-10M1		--	--	--	1,423.5	1/13/42	109.9	1,313.6	RCFCD
						1/13/43	115.3	1,308.2	RCFCD
						1/17/46	119.4	1,304.1	RCFCD
						1/14/50	134.7	1,288.8	RCFCD
						1/26/51	146.3	1,277.2	DWR
						1/31/52	149.3	1,274.2	DWR, destroyed
5S/3W-10M2		--	333.7 (5/5/95)	--	1,422	1/12/93	113.1	1,308.9	EMWD
						2/28/95	97.8	1,324.2	EMWD
						5/5/95	96.22	1,325.78	USGS
5S/3W-10N1		--	--	--	1,425	6/2/95	97.98	1,327.02	USGS
						9/13/95	95.63	1,329.37	USGS
5S/3W-11D1		227	--	--	1,465	5/5/95	134.26	1,330.74	USGS
5S/3W-11E2	5S/3W-11R4**	400	--	--	1,464	1/31/52	206.7	1,257.3	DWR
						2/11/53	219.2	1,244.8	DWR
5S/3W-11E3	5S/3W-11R5**	600	--	--	1,463	1/31/52	206.6	1,256.4	DWR
5S/3W-11K1	5S/3W-11R2**	--	--	--	1,482	1/13/42	171.2	1,310.8	DWR
						1/13/43	187.6	1,294.4	DWR
						1/19/44	198.4	1,283.6	DWR
						1/11/45	201.8	1,280.2	DWR
						1/17/46	197.3	1,284.7	DWR
						1/8/47	198.4	1,283.6	DWR
						1/21/48	198.1	1,283.9	DWR
						1/24/52	213.3	1,268.7	DWR
						2/11/53	214.6	1,267.4	DWR
5S/3W-11R1		135	--	--	1,476	1/7/42	68.0	1,408.0	DWR
						1/13/43	70.2	1,405.8	DWR
						1/18/44	71.5	1,404.5	DWR
						1/11/45	73.2	1,402.8	DWR
						1/16/46	73.3	1,402.7	DWR
						1/8/47	71.6	1,404.4	DWR
						1/20/48	73.3	1,402.7	DWR
						3/16/95	52.9	1,423.1	EMWD
5S/3W-13C1		--	--	--	1,489	5/16/88	56.0	1,433.0	EMWD
						1/12/93	62.8	1,426.2	EMWD
						4/2/93	62.4	1,426.6	EMWD
						2/28/95	61.6	1,427.4	EMWD
5S/3W-13N1		433	142.0 (5/22/95)	250-433	1,475	5/22/95	52.02	1,422.98	USGS
						6/23/95	52.01	1,422.99	USGS
						9/28/95	52.10	1,422.90	USGS
5S/3W-14L1		200	--	80-200	1,444	6/5/95	71.83	1,372.17	USGS

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft)		Perforations (ft blw LSD)	Altitude	Date	Water Level		Source of data
		Original	Sounded (date)				(ft blw LSD)	Altitude	
5S/3W-15H1		150	--	110-150	1,429	11/19/93	110.20	1,318.80	USGS
						5/5/95	101.32	1,327.68	USGS
5S/3W-15P1		185	--	118-185	1,428	6/6/95	86.38	1,341.62	USGS
5S/3W-15Q1		380	--	180-220	1,439	5/22/95	33.49	1,405.51	USGS
				300-380					
5S/3W-24C1		505	--	265-505	1,480	1/4/94	72.56	1,407.44	USGS
						3/13/95	69.50	1,410.50	EMWD
5S/3W-24F1		680	680.9 (12/3/94)	309-348	1,475	12/3/93	68.34	1,406.66	USGS
				387-426		2/10/94	62.86	1,412.14	USGS
				563-582		12/15/94	69.21	1,405.79	USGS
				621-641		6/23/95	92.40	1,382.60	USGS
				660-680					
5S/3W-24F2		729	691 (12/3/93)	686-691	1,475	12/3/93	64.22	1,410.78	USGS
						2/10/94	66.58	1,408.42	USGS
						11/18/94	76.47	1,398.53	USGS
						12/15/94	69.25	1,405.75	USGS
						6/23/95	65.77	1,409.23	USGS
						9/13/95	75.11	1,399.89	USGS
5S/3W-24F3		729	403.8 (12/3/93)	399-404	1,475	12/3/93	69.90	1,405.10	USGS
						2/10/94	68.21	1,406.79	USGS
						11/18/94	83.52	1,391.48	USGS
						12/15/94	72.76	1,402.24	USGS
						6/23/95	108.69	1,366.31	USGS
						9/13/95	99.99	1,375.01	USGS
5S/3W-24F4		729	155.3 (12/3/93)	150-155	1,475	12/3/93	58.06	1,416.94	USGS
						2/10/94	57.40	1,417.60	USGS
						11/18/94	57.44	1,417.56	USGS
						12/15/94	57.06	1,417.94	USGS
						6/23/95	57.00	1,418.00	USGS
						9/13/95	56.86	1,418.14	USGS
5S/3W-25G1		--	--	--	1,453	4/9/93	34.3	1,418.7	EMWD
5S/3W-25K1		--	--	--	1,445	12/30/92	27.40	1,417.60	USGS
						5/13/93	18.05	1,426.95	USGS
						12/30/93	27.40	1,417.60	USGS
						2/10/94	18.78	1,426.22	USGS
						6/16/94	19.18	1,425.82	USGS
						11/17/94	21.37	1,423.63	USGS
						6/23/95	16.50	1,428.50	USGS
						9/13/95	18.81	1,426.19	USGS
5S/3W-28M1	MC1-430'	445	430 (8/21/90)	425-430	1,420	1/31/91	72.89	1,347.11	USGS
						4/5/91	71.15	1,348.85	USGS
						6/13/91	69.08	1,350.92	USGS
						6/14/91	69.18	1,350.82	USGS
						8/30/91	69.13	1,350.87	USGS
						1/30/92	67.83	1,352.17	USGS
						1/31/92	67.86	1,352.14	USGS
						6/11/92	63.95	1,356.05	USGS
						8/19/92	62.79	1,357.21	USGS
						8/28/92	62.71	1,357.29	USGS
						4/24/95	42.96	1,377.04	USGS
5S/3W-28M2	MC1-370'	445	370 (8/21/90)	365-370	1,420	1/31/91	72.52	1,347.48	USGS
						4/5/91	70.90	1,349.10	USGS
						6/13/91	68.84	1,351.16	USGS
						6/14/91	68.96	1,351.04	USGS

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California–*Continued*

Well No.	Other known designation	Well depth (ft) Original	Well depth (ft) Sounded (date)	Perforations (ft blw LSD)	Altitude	Date	Water Level (ft blw LSD)	Water Level Altitude	Source of data
						8/30/91	68.73	1,351.27	USGS
						1/30/92	67.58	1,352.42	USGS
						1/31/92	67.61	1,352.39	USGS
						6/11/92	63.85	1,356.15	USGS
						8/19/92	62.62	1,357.38	USGS
						8/28/92	62.56	1,357.44	USGS
						4/24/95	43.19	1,376.81	USGS
5S/3W-28M3	MC1-242'	445	242 (8/21/90)	237-242	1,420	1/31/91	62.11	1,357.89	USGS
						4/5/91	61.57	1,358.43	USGS
						6/13/91	60.16	1,359.84	USGS
						6/14/91	60.11	1,359.89	USGS
						8/30/91	59.18	1,360.82	USGS
						1/30/92	59.35	1,360.65	USGS
						1/31/92	59.30	1,360.70	USGS
						6/11/92	56.94	1,363.06	USGS
						8/19/92	55.76	1,364.24	USGS
						8/28/92	55.64	1,364.36	USGS
						12/10/93	46.31	1,373.69	USGS
						4/24/95	40.39	1,379.61	USGS
5S/3W-28M4	MC1-160'	445	160 (8/21/90)	155-160	1,420	1/31/91	62.40	1,357.60	USGS
						4/5/91	61.86	1,358.14	USGS
						6/13/91	60.43	1,359.57	USGS
						6/14/91	60.51	1,359.49	USGS
						8/30/91	59.38	1,360.62	USGS
						1/30/92	59.52	1,360.48	USGS
						1/31/92	59.47	1,360.53	USGS
						6/11/92	57.13	1,362.87	USGS
						8/19/92	55.96	1,364.04	USGS
						8/28/92	55.84	1,364.16	USGS
						12/10/93	45.32	1,374.68	USGS
						4/24/95	40.58	1,379.42	USGS
5S/3W-29J1		435	295.0 (5/22/95)	--	1,423	5/22/95	50.25	1,372.75	USGS
						9/13/95	48.16	1,374.84	USGS
5S/3W-31R1		--	49.1 (5/2/95)	--	1,405	1/11/93	18.6	1,386.4	EMWD
						4/2/93	14.1	1,390.9	EMWD
						3/1/95	13.8	1,391.2	EMWD
						5/2/95	13.50	1,391.50	USGS
						9/28/95	16.58	1,388.42	USGS
5S/3W-32A1	A-3	675	586.2 (4/26/95)	560-580	1,413	6/94	39.2	1,373.8	EMWD
						9/94	39.1	1,373.9	EMWD
						12/94	39.6	1,373.4	EMWD
						3/95	38.1	1,374.9	EMWD
						4/26/95	36.59	1,376.41	USGS
						9/13/95	34.98	1,378.02	USGS
5S/3W-32B1	C-2	235	218.1 (4/25/95)	200-220	1,414	3/94	25.3	1,388.7	EMWD
						6/94	24.0	1,390.0	EMWD
						12/94	27.4	1,386.6	EMWD
						3/95	23.4	1,390.6	EMWD
						4/25/95	21.84	1,392.16	USGS
						9/13/95	22.32	1,391.68	USGS
5S/3W-32C1	C-3	235	218.2 (4/25/95)	200-220	1,423.8	3/94	31.6	1,392.2	EMWD
						6/94	30.9	1,392.9	EMWD
						12/94	33.6	1,390.2	EMWD
						3/95	30.3	1,393.5	EMWD
						4/25/95	28.00	1,395.80	USGS
						6/26/95	26.23	1,397.57	USGS
						9/13/95	26.74	1,397.06	USGS
5S/3W-32G1	C-5	235	219.9 (4/25/95)	200-220	1,414.6	3/94	22.1	1,392.5	EMWD

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft) Original	Well depth (ft) Sounded (date)	Perforations (ft blw LSD)	Altitude	Date	Water Level (ft blw LSD)	Water Level Altitude	Source of data
						6/94	20.9	1,393.7	EMWD
						12/94	23.1	1,391.5	EMWD
						3/95	18.3	1,396.3	EMWD
						4/25/95	17.43	1,397.17	USGS
						6/26/95	19.03	1,395.57	USGS
						9/13/95	20.72	1,393.88	USGS
5S/3W-32H1	C-1	235	221.1 (4/25/95)	200-220	1,405	3/94	25.9	1,379.1	EMWD
						9/94	25.0	1,380.0	EMWD
						12/94	28.1	1,376.9	EMWD
						3/95	23.8	1,381.2	EMWD
						4/25/95	22.39	1,382.61	USGS
						8/2/95	22.45	1,382.55	USGS
						9/13/95	22.42	1,382.58	USGS
5S/3W-32L1	C-4	225	221.0 (4/25/95)	200-220	1,414	3/94	16.1	1,397.9	EMWD
						6/94	15.4	1,398.6	EMWD
						12/94	17.0	1,397.0	EMWD
						3/95	11.2	1,402.8	EMWD
						4/25/95	11.38	1,402.62	USGS
						6/26/95	13.20	1,400.80	USGS
						9/13/95	16.04	1,397.96	USGS
5S/3W-33K1	A-2	665	rock @~160'	170-190	1,415	9/94	39.4	1,375.6	EMWD
				280-300		12/94	40.6	1,374.4	EMWD
				600-620		3/95	38.1	1,376.9	EMWD
						4/26/95	36.59	1,378.41	USGS
						9/13/95	36.77	1,378.23	USGS
5S/3W-34Q2		--	247.2 (5/2/95)	--	1,422	1/11/93	76.7	1,345.3	EMWD
						4/2/93	72.7	1,349.3	EMWD
						3/1/95	68.1	1,353.9	EMWD
						5/2/95	67.62	1,354.38	USGS
						6/29/95	67.87	1,354.13	USGS
						9/28/95	68.04	1,353.96	USGS
5S/3W-35N2	Menifee Test #2	650	587.6 (4/26/95)	250-350	1,425	9/92	97.7	1,327.3	EMWD
				400-440		3/93	89.2	1,335.8	EMWD
				480-520		9/93	92.8	1,332.2	EMWD
				580-600		3/94	83.9	1,341.1	EMWD
						9/94	87.6	1,337.4	EMWD
						3/95	81.8	1,343.2	EMWD
						4/26/95	80.85	1,344.15	USGS
						6/95	85.0	1,340.0	EMWD
						6/29/95	85.18	1,339.82	USGS
						9/28/95	84.69	1,340.31	USGS
5S/3W-35R1	Menifee Prod. #2	625	600.3 (4/26/95)	160-180	1,425	6/94	95.1	1,329.9	EMWD
				230-250		12/94	92.4	1,332.6	EMWD
				290-310		3/95	89.0	1,336.0	EMWD
				340-380		4/26/95	88.48	1,336.52	USGS
				400-430		6/95	97.1	1,327.9	EMWD
				460-480		9/28/95	92.28	1,332.72	USGS
				560-580					
5S/3W-36E1		270	51.2 (6/2/95)	--	1,430	6/2/95	47.93	1,382.07	USGS
						9/28/95	46.63	1,383.37	USGS
5S/3W-36N2	Lusk #5	700	338.6 (4/26/95)	320-700	1,425	4/26/95	91.98	1,333.02	USGS
						9/28/95	95.07	1,329.93	USGS
5S/3W-36P1		705	128.7 (4/26/95)	96-705	1,425	4/26/95	96.41	1,328.59	USGS
						9/28/95	95.22	1,329.78	USGS
5S/3W-36P2	Menifee Test #1	740	680.2 (7/12/94)	400-440	1,430	9/92	111.2	1,318.8	EMWD
				460-500		3/93	99.7	1,330.3	EMWD

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft)		Perforations (ft blw LSD)	Altitude	Date	Water Level		Source of data
		Original	Sounded (date)				(ft blw LSD)	Altitude	
				520-560		9/93	103.2	1,326.8	EMWD
				580-620		3/94	91.7	1,338.3	EMWD
				640-680		9/94	103.2	1,326.8	EMWD
						3/95	92.1	1,337.9	EMWD
						6/95	101.5	1,328.5	EMWD
						7/12/94	104.71	1,325.29	USGS
						9/28/95	96.73	1,333.27	USGS
5S/3W-36Q2		--	--	--	1,427	2/6/89	87.60	1,339.40	EMWD
6S/3W-1E1		--	272.7 (5/10/98)	--	1,428	5/10/95	93.43	1,334.57	USGS
						9/28/95	96.83	1,331.17	USGS
6S/3W-1H1		--	369.5 (6/2/95)	--	1,430	6/2/95	109.59	1,320.41	USGS
6S/3W-1J1		--	--	--	1,429.5*	8/16/68	184.4*	1,245.1	RCFCD
						1/8/69	182.3*	1,247.2	RCFCD
						8/6/69	180.8*	1,248.7	RCFCD
						1/7/70	178.3*	1,251.2	RCFCD
						8/10/70	181.5*	1,248.0	RCFCD
						1/11/71	183.5*	1,246.0	RCFCD
						6/8/71	179.6*	1,249.9	RCFCD
						1/11/72	180.8*	1,248.7	RCFCD
						9/15/72	179.7*	1,249.8	RCFCD
						1/16/73	173.0*	1,256.5	RCFCD
						8/13/73	165.5*	1,264.0	RCFCD
						1/14/74	160.0*	1,269.5	RCFCD
						6/12/74	164.3*	1,265.2	RCFCD
6S/3W-1L1		--	109.2 (5/10/95)	--	1,427	5/10/95	99.87	1,327.13	USGS
						9/28/95	dry	--	USGS
6S/3W-2A1	Menifee Prod. #1	600	577.0 (4/26/95)	180-200	1,425	1/94	101.4	1,323.6	EMWD
				300-360		9/94	106.2	1,318.8	EMWD
				380-440		3/95	95.3	1,329.7	EMWD
				540-560		4/26/95	93.97	1,331.03	USGS
						6/95	105.2	1,319.8	EMWD
						9/28/95	98.27	1,326.73	USGS
6S/3W-2D1	Menifee Prod. #3	685	632.5 (5/2/95)	200-240	1,425	6/94	93.1	1,331.9	EMWD
				280-310		12/94	89.5	1,335.5	EMWD
				330-350		3/95	86.9	1,338.1	EMWD
				410-430		5/2/95	87.62	1,337.38	USGS
				470-500		9/28/95	90.27	1,334.73	USGS
				570-610					
6S/3W-2E1	Menifee Prod. #4	695	651.3 (4/26/95)	220-300	1,425	6/94	98.2	1,326.8	EMWD
				360-400		12/94	93.6	1,331.4	EMWD
				440-520		3/95	90.7	1,334.3	EMWD
				540-600		4/26/95	89.79	1,335.21	USGS
				620-640		9/28/95	95.27	1,329.73	USGS
6S/3W-2F1	6S/3W-2R1**	--	--	--	1,425	1/7/42	46.0	1,379.0	DWR
						1/14/43	47.2	1,377.8	DWR
						1/9/45	44.2	1,380.8	DWR
						1/10/46	44.8	1,380.2	DWR
						1/8/47	46.4	1,378.6	RCFCD
						1/19/48	49.1	1,375.9	DWR
						12/16/48	52.7	1,372.3	RCFCD
						1/13/50	55.6	1,369.4	DWR
						1/31/51	52.0	1,373.0	DWR
						1/21/52	62.2	1,362.8	DWR
						1/23/53	67.5	1,357.5	DWR
						12/20/53	68.3	1,356.7	DWR, destroyed
6S/3W-2G1	Menifee Lake #2,	625	--	100-560	1,426	6/5/95	89.81	1,336.19	USGS

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft) Original	Well depth (ft) Sounded (date)	Perforations (ft blw LSD)	Altitude	Date	Water Level (ft blw LSD)	Water Level Altitude	Source of data
	Lusk #2			580-620					
6S/3W-2G2	Menifee Lake #3 Lusk #3	622	--	--	1,428	6/5/95	92.74	1,335.26	USGS
6S/3W-2H2	Menifee Lake #1, Lusk #1	565	--	--	1,428	6/2/95	95.26	1,332.74	USGS
6S/3W-2J1	Menifee Lake #4, Lusk #4	514	--	--	1,428	6/5/95	94.62	1,333.38	USGS
6S/3W-3C1		600	--	370-400	1,425	1/10/74	145.0	1,280.0	RCFCD
				430-470		3/5/75	167.3	1,257.7	EMWD
				480-490		9/9/86	67.0	1,358.0	EMWD
				530-540		3/21/91	73.0	1,352.0	EMWD
				570-580		9/28/95	65.55	1,359.45	USGS
6S/3W-3H1	6S/3W-3R1**	--	100 R (4/3/56)	--	1,425.4	1/19/48	53.5	1,371.9	DWR
						9/8/48	60.5	1,364.9	DWR
						1/11/49	58.7	1,366.7	DWR
						8/9/49	62.2	1,363.2	DWR
						1/13/50	61.6	1,363.8	DWR
						8/9/50	67.0	1,358.4	DWR
						1/17/51	65.8	1,359.6	DWR
						8/29/51	71.9	1,353.5	DWR
						4/1/52	72.0	1,353.4	DWR
						10/15/52	72.7	1,352.7	DWR
						8/10/53	77.3	1,348.1	DWR
						1/6/54	82.1	1,343.3	DWR
						7/7/54	85.4	1,340.0	DWR
						1/4/55	90.6	1,334.8	DWR
						5/3/55	87.4	1,338.0	DWR
						1/5/56	92.0	1,333.4	DWR, destroyed
6S/3W-2F1	6S/3W-3R3**	544	468 R (date unk)	--	1,430	1/3/58	135.2	1,294.8	RCFCD
						8/12/58	144.0	1,286.0	RCFCD
						3/4/59	144.2	1,285.8	RCFCD
						6/4/59	150.1	1,279.9	RCFCD
						1/8/60	154.0	1,276.0	RCFCD
						12/5/60	157.6	1,272.4	RCFCD
						11/2/61	164.9	1,265.1	RCFCD
						12/28/61	163.7	1,266.3	RCFCD
						4/26/62	162.3	1,267.7	RCFCD
						12/5/62	168.1	1,261.9	RCFCD
						3/27/63	166.9	1,263.1	RCFCD
						10/25/63	168.4	1,261.6	RCFCD
						2/10/64	160.0	1,270.0	RCFCD
						5/14/64	163.9	1,266.1	RCFCD
						11/9/64	168.9	1,261.1	RCFCD
						4/16/65	163.5	1,266.5	RCFCD
						12/20/65	162.9	1,267.1	RCFCD
						3/9/66	158.7	1,271.3	RCFCD
						12/15/66	163.3	1,266.7	RCFCD
						3/6/67	161.3	1,268.7	RCFCD
						8/7/67	186.3	1,243.7	RCFCD
						1/8/68	164.2	1,265.8	RCFCD
						6/11/68	188.0	1,242.0	RCFCD
						12/13/68	171.4	1,258.6	RCFCD
						4/9/69	163.5	1,266.5	RCFCD
						10/2/69	171.2	1,258.8	RCFCD
						3/10/70	166.3	1,263.7	RCFCD
						9/11/70	174.3	1,255.7	RCFCD
						2/5/71	161.0	1,269.0	RCFCD
						9/3/71	178.6	1,251.4	RCFCD
						1/7/72	164.2	1,265.8	RCFCD
						9/14/72	161.0	1,269.0	RCFCD

Table 3. Water-level data for selected wells in the Winchester, Menifee, and south Perris ground-water subbasins, California--*Continued*

Well No.	Other known designation	Well depth (ft) Original	Well depth (ft) Sounded (date)	Perforations (ft blw LSD)	Altitude	Date	Water Level (ft blw LSD)	Water Level Altitude	Source of data
						1/8/73	159.3	1,270.7	RCFCD
						8/10/73	148.8	1,281.2	RCFCD
						1/3/74	143.6	1,286.4	RCFCD
						9/28/95	82.20	1,347.80	USGS
6S/3W-3L1		200 R	--	--	1,460	6/5/95	48.40	1,411.60	USGS
6S/3W-3L3	6S/3W-3R2**	--	--	--	1,460	1/7/42	47.1	1,412.9	DWR
						1/14/43	49.1	1,410.9	DWR
						1/9/45	48.1	1,411.9	DWR
						1/10/46	50.1	1,409.9	DWR
6S/3W-4A1	6S/3W-4R1**	--	--	--	1,438	1/19/48	57.6	1,380.4	RCFCD
						8/11/48	63.3	1,374.7	RCFCD
						1/11/49	61.0	1,377.0	RCFCD
						8/9/49	61.4	1,376.6	RCFCD
						3/14/50	62.9	1,375.1	RCFCD
						8/9/50	65.5	1,372.5	RCFCD
						1/17/51	65.4	1,372.6	RCFCD
						1/23/52	67.2	1,370.8	DWR
						10/15/52	64.6	1,373.4	RCFCD
						1/23/53	72.6	1,365.4	DWR
						10/16/53	67.1	1,370.9	RCFCD
						1/6/54	63.3	1,374.7	DWR, abandoned
6S/3W-4K1	6S/3W-4R2**	--	--	--	1,452	1/23/52	29.2	1,422.8	DWR
						1/23/53	26.1	1,425.9	DWR
						12/20/53	27.5	1,424.5	DWR
						3/15/63	30.6	1,421.4	DWR
6S/3W-2F1	6S/3W-5R1**	--	--	--	1,400	1/7/42	24.3	1,375.9	DWR
						1/14/43	30.4	1,369.8	DWR
						1/18/44	28.2	1,372.0	DWR
						1/9/45	24.3	1,375.9	DWR
						1/10/46	27.7	1,372.5	DWR
						1/8/47	30.8	1,369.4	RCFCD
						1/19/48	39.2	1,361.0	RCFCD
						10/11/48	41.9	1,358.3	RCFCD
						1/11/49	43.1	1,357.1	RCFCD
						5/11/49	44.8	1,355.4	RCFCD
						12/20/53	56.3	1,343.9	RCFCD
						4/10/55	49.7	1,350.5	RCFCD
						10/28/55	54.5	1,345.7	RCFCD
						2/20/56	56.9	1,343.3	RCFCD
						10/15/56	60.3	1,339.9	RCFCD
						4/18/57	62.1	1,338.1	RCFCD
						9/30/57	62.9	1,337.3	RCFCD
						4/14/58	52.2	1,348.0	RCFCD
						11/10/58	55.4	1,344.8	RCFCD
						3/12/59	54.4	1,345.8	RCFCD
						10/23/59	58.2	1,342.0	RCFCD
						3/18/60	58.1	1,342.1	RCFCD
						10/24/60	59.4	1,340.8	RCFCD
						3/23/61	58.0	1,342.2	RCFCD, destroyed
6S/3S-6A1		144	--	--	1,400.2	1/23/52	54.0	1,346.2	DWR

Table 4. Water-level altitudes for Sun City storage pond no. 9, August-September, 1995

[Water-level altitude in feet above sea level, rounded to the nearest hundredth]

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
8/3/95	0700	1,396.28	8/5/95	1700	1,396.37	8/8/95	0300	1,396.42
	0800	1,396.28		1800	1,396.39		0400	1,396.42
	0900	1,396.29		1900	1,396.39		0500	1,396.42
	1000	1,396.29		2000	1,396.39		0600	1,396.42
	1100	1,396.29		2100	1,396.39		0700	1,396.41
	1200	1,396.29		2200	1,396.38		0800	1,396.41
	1300	1,396.30		2300	1,396.38		0900	1,396.42
	1400	1,396.31	8/6/95	0000	1,396.38		1000	1,396.42
	1500	1,396.32		0100	1,396.38		1100	1,396.42
	1600	1,396.32		0200	1,396.38		1200	1,396.42
	1700	1,396.33		0300	1,396.38		1300	1,396.41
	1800	1,396.32		0400	1,396.39		1400	1,396.42
	1900	1,396.32		0500	1,396.39		1500	1,396.40
	2000	1,396.32		0600	1,396.39		1600	1,396.46
	2100	1,396.31		0700	1,396.39		1700	1,396.44
	2200	1,396.32		0800	1,396.38		1800	1,396.45
	2300	1,396.32		0900	1,396.39		1900	1,396.42
8/4/95	0000	1,396.32		1000	1,396.39		2000	1,396.42
	0100	1,396.33		1100	1,396.39		2100	1,396.42
	0200	1,396.33		1200	1,396.39		2200	1,396.42
	0300	1,396.33		1300	1,396.40		2300	1,396.42
	0400	1,396.33		1400	1,396.39	8/9/95	0000	1,396.42
	0500	1,396.33		1500	1,396.40		0100	1,396.41
	0600	1,396.33		1600	1,396.40		0200	1,396.41
	0700	1,396.33		1700	1,396.40		0300	1,396.41
	0800	1,396.33		1800	1,396.40		0400	1,396.41
	0900	1,396.34		1900	1,396.41		0500	1,396.41
	1000	1,396.33		2000	1,396.41		0600	1,396.41
	1100	1,396.34		2100	1,396.41		0700	1,396.41
	1200	1,396.36		2200	1,396.40		0800	1,396.41
	1300	1,396.36		2300	1,396.40		0900	1,396.41
	1400	1,396.36	8/7/95	0000	1,396.40		1000	1,396.41
	1530	1,396.35		0100	1,396.40		1100	1,396.41
	1600	1,396.37		0200	1,396.40		1200	1,396.41
	1700	1,396.37		0300	1,396.40		1300	1,396.41
	1800	1,396.37		0400	1,396.40		1400	1,396.44
	1900	1,396.36		0500	1,396.40		1500	1,396.43
	2000	1,396.37		0600	1,396.41		1600	1,396.43
	2100	1,396.37		0700	1,396.40		1700	1,396.41
	2200	1,396.37		0800	1,396.40		1800	1,396.42
	2300	1,396.36		0900	1,396.40		1900	1,396.40
8/5/95	0000	1,396.36		1000	1,396.41		2000	1,396.40
	0100	1,396.36		1100	1,396.41		2100	1,396.40
	0200	1,396.37		1200	1,396.43		2200	1,396.40
	0300	1,396.36		1300	1,396.40		2300	1,396.39
	0400	1,396.36		1400	1,396.41	8/10/95	0000	1,396.39
	0500	1,396.37		1500	1,396.43		0100	1,396.39
	0600	1,396.36		1600	1,396.43		0200	1,396.39
	0700	1,396.37		1700	1,396.44		0300	1,396.39
	0800	1,396.36		1800	1,396.43		0400	1,396.39
	0900	1,396.37		1900	1,396.43		0500	1,396.39
	1000	1,396.37		2000	1,396.43		0600	1,396.39
	1100	1,396.37		2100	1,396.42		0700	1,396.38
	1200	1,396.38		2200	1,396.42		0800	1,396.39
	1300	1,396.37		2300	1,396.42		0900	1,396.39
	1400	1,396.39	8/8/95	0000	1,396.42		1000	1,396.39
	1500	1,396.37		0100	1,396.41		1100	1,396.39
	1600	1,396.39		0200	1,396.42		1200	1,396.40

Table 4. Water-level altitudes for Sun City storage pond no. 9, August-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
8/10/95	1300	1,396.41	8/12/95	2300	1,396.42	8/15/95	0900	1,396.49
	1400	1,396.39	8/13/95	0000	1,396.42		1000	1,396.50
	1500	1,396.40		0100	1,396.42		1100	1,396.50
	1600	1,396.40		0200	1,396.42		1200	1,396.49
	1700	1,396.40		0300	1,396.43		1300	1,396.49
	1800	1,396.39		0400	1,396.43		1400	1,396.50
	1900	1,396.39		0500	1,396.43		1500	1,396.48
	2000	1,396.39		0600	1,396.44		1600	1,396.49
	2100	1,396.39		0700	1,396.44		1700	1,396.50
	2200	1,396.39		0800	1,396.43		1800	1,396.49
	2300	1,396.39		0900	1,396.44		1900	1,396.50
8/11/95	0000	1,396.40		1000	1,396.44		2000	1,396.50
	0100	1,396.39		1100	1,396.44		2100	1,396.50
	0200	1,396.39		1200	1,396.44		2200	1,396.50
	0300	1,396.39		1300	1,396.44		2300	1,396.50
	0400	1,396.39		1400	1,396.45	8/16/95	0000	1,396.50
	0500	1,396.39		1500	1,396.45		0100	1,396.50
	0600	1,396.40		1600	1,396.45		0200	1,396.50
	0700	1,396.40		1700	1,396.46		0300	1,396.51
	0800	1,396.39		1800	1,396.44		0400	1,396.51
	0900	1,396.39		1900	1,396.45		0500	1,396.52
	1000	1,396.39		2000	1,396.45		0600	1,396.52
	1100	1,396.39		2100	1,396.45		0700	1,396.53
	1200	1,396.39		2200	1,396.45		0800	1,396.53
	1300	1,396.40		2300	1,396.44		0900	1,396.54
	1400	1,396.39	8/14/95	0000	1,396.45		1000	1,396.54
	1500	1,396.39		0100	1,396.44		1100	1,396.54
	1600	1,396.44		0200	1,396.45		1200	1,396.55
	1700	1,396.41		0300	1,396.45		1300	1,396.56
	1800	1,396.41		0400	1,396.45		1400	1,396.55
	1900	1,396.42		0500	1,396.46		1500	1,396.56
	2000	1,396.42		0600	1,396.46		1600	1,396.56
	2100	1,396.40		0700	1,396.46		1700	1,396.56
	2200	1,396.41		0800	1,396.46		1800	1,396.54
	2300	1,396.41		0900	1,396.46		1900	1,396.56
8/12/95	0000	1,396.41		1000	1,396.46		2000	1,396.56
	0100	1,396.40		1100	1,396.47		2100	1,396.56
	0200	1,396.40		1200	1,396.47		2200	1,396.57
	0300	1,396.40		1300	1,396.47		2300	1,396.58
	0400	1,396.41		1400	1,396.47	8/17/95	0000	1,396.58
	0500	1,396.41		1500	1,396.46		0100	1,396.58
	0600	1,396.41		1600	1,396.46		0200	1,396.59
	0700	1,396.41		1700	1,396.47		0300	1,396.60
	0800	1,396.40		1800	1,396.47		0400	1,396.60
	0900	1,396.40		1900	1,396.48		0500	1,396.61
	1000	1,396.42		2000	1,396.47		0600	1,396.61
	1100	1,396.41		2100	1,396.47		0700	1,396.61
	1200	1,396.41		2200	1,396.47		0800	1,396.61
	1300	1,396.41		2300	1,396.47		0900	1,396.62
	1400	1,396.43	8/15/95	0000	1,396.48		1000	1,396.62
	1500	1,396.41		0100	1,396.47		1100	1,396.62
	1600	1,396.42		0200	1,396.47		1200	1,396.61
	1700	1,396.42		0300	1,396.48		1300	1,396.59
	1800	1,396.42		0400	1,396.48		1400	1,396.60
	1900	1,396.43		0500	1,396.48		1500	1,396.63
	2000	1,396.42		0600	1,396.48		1600	1,396.61
	2100	1,396.42		0700	1,396.49		1700	1,396.60
	2200	1,396.42		0800	1,396.49		1800	1,396.61

Table 4. Water-level altitudes for Sun City storage pond no. 9, August-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
8/17/95	1900	1,396.59	8/20/95	0500	1,396.78	8/22/95	1500	1,396.88
	2000	1,396.58		0600	1,396.78		1600	1,396.86
	2100	1,396.59		0700	1,396.78		1700	1,396.87
	2200	1,396.60		0800	1,396.78		1800	1,396.85
	2300	1,396.60		0900	1,396.79		1900	1,396.85
8/18/95	0000	1,396.62		1000	1,396.78		2000	1,396.86
	0100	1,396.62		1100	1,396.79		2100	1,396.85
	0200	1,396.62		1200	1,396.79		2200	1,396.85
	0300	1,396.63		1300	1,396.80		2300	1,396.85
	0400	1,396.64		1400	1,396.81	8/23/95	0000	1,396.85
	0500	1,396.64		1500	1,396.84		0100	1,396.85
	0600	1,396.65		1600	1,396.81		0200	1,396.85
	0700	1,396.65		1700	1,396.80		0300	1,396.85
	0800	1,396.65		1800	1,396.78		0400	1,396.86
	0900	1,396.66		1900	1,396.77		0500	1,396.86
	1000	1,396.66		2000	1,396.77		0600	1,396.85
	1100	1,396.67		2100	1,396.76		0700	1,396.86
	1200	1,396.67		2200	1,396.77		0800	1,396.85
	1300	1,396.67		2300	1,396.77		0900	1,396.86
	1400	1,396.68	8/21/95	0000	1,396.78		1000	1,396.86
	1500	1,396.68		0100	1,396.78		1100	1,396.87
	1600	1,396.70		0200	1,396.79		1200	1,396.85
	1700	1,396.70		0300	1,396.79		1300	1,396.86
	1800	1,396.72		0400	1,396.79		1400	1,396.85
	1900	1,396.72		0500	1,396.80		1500	1,396.87
	2000	1,396.73		0600	1,396.80		1600	1,396.87
	2100	1,396.72		0700	1,396.79		1700	1,396.90
	2200	1,396.72		0800	1,396.77		1800	1,396.87
	2300	1,396.72		0900	1,396.78		1900	1,396.87
8/19/95	0000	1,396.72		1000	1,396.79		2000	1,396.87
	0100	1,396.73		1100	1,396.79		2100	1,396.86
	0200	1,396.73		1200	1,396.81		2200	1,396.86
	0300	1,396.73		1300	1,396.80		2300	1,396.86
	0400	1,396.73		1400	1,396.81	8/24/95	0000	1,396.86
	0500	1,396.73		1500	1,396.83		0100	1,396.86
	0600	1,396.73		1600	1,396.83		0200	1,396.86
	0700	1,396.74		1700	1,396.82		0300	1,396.86
	0800	1,396.73		1800	1,396.82		0400	1,396.86
	0900	1,396.74		1900	1,396.83		0500	1,396.86
	1000	1,396.74		2000	1,396.83		0600	1,396.86
	1100	1,396.74		2100	1,396.83		0700	1,396.86
	1200	1,396.75		2200	1,396.83		0800	1,396.86
	1300	1,396.76		2300	1,396.83		0900	1,396.86
	1400	1,396.75	8/22/95	0000	1,396.83		1000	1,396.86
	1500	1,396.76		0100	1,396.83		1100	1,396.86
	1600	1,396.76		0200	1,396.83		1200	1,396.87
	1700	1,396.77		0300	1,396.83		1300	1,396.87
	1800	1,396.77		0400	1,396.83		1400	1,396.87
	1900	1,396.78		0500	1,396.84		1500	1,396.87
	2000	1,396.78		0600	1,396.84		1600	1,396.88
	2100	1,396.78		0700	1,396.84		1700	1,396.86
	2200	1,396.77		0800	1,396.84		1800	1,396.87
	2300	1,396.78		0900	1,396.84		1900	1,396.87
8/20/95	0000	1,396.78		1000	1,396.84		2000	1,396.87
	0100	1,396.78		1100	1,396.84		2100	1,396.87
	0200	1,396.78		1200	1,396.84		2200	1,396.87
	0300	1,396.78		1300	1,396.85		2300	1,396.87
	0400	1,396.79		1400	1,396.85	8/25/95	0000	1,396.87

Table 4. Water-level altitudes for Sun City storage pond no. 9, August-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
8/25/95	0100	1,396.87	8/27/95	1100	1,396.84	8/29/95	2100	1,396.87
	0200	1,396.87		1200	1,396.85		2200	1,396.87
	0300	1,396.87		1300	1,396.85		2300	1,396.87
	0400	1,396.87		1400	1,396.84	8/30/95	0000	1,396.87
	0500	1,396.87		1500	1,396.86		0100	1,396.86
	0600	1,396.87		1600	1,396.85		0200	1,396.86
	0700	1,396.87		1700	1,396.87		0300	1,396.87
	0800	1,396.86		1800	1,396.86		0400	1,396.87
	0900	1,396.86		1900	1,396.87		0500	1,396.87
	1000	1,396.87		2000	1,396.86		0600	1,396.87
	1100	1,396.87		2100	1,396.86		0700	1,396.87
	1200	1,396.87		2200	1,396.85		0800	1,396.86
	1300	1,396.88		2300	1,396.86		0900	1,396.87
	1400	1,396.88	8/28/95	0000	1,396.86		1000	1,396.87
	1500	1,396.87		0100	1,396.86		1100	1,396.87
	1600	1,396.87		0200	1,396.86		1200	1,396.87
	1700	1,396.87		0300	1,396.86		1300	1,396.87
	1800	1,396.88		0400	1,396.86		1400	1,396.88
	1900	1,396.88		0500	1,396.86		1500	1,396.88
	2000	1,396.87		0600	1,396.86		1600	1,396.88
	2100	1,396.86		0700	1,396.86		1700	1,396.88
	2200	1,396.85		0800	1,396.85		1800	1,396.90
	2300	1,396.82		0900	1,396.86		1900	1,396.89
8/26/95	0000	1,396.81		1000	1,396.86		2000	1,396.89
	0100	1,396.79		1100	1,396.85		2100	1,396.87
	0200	1,396.79		1200	1,396.83		2200	1,396.89
	0300	1,396.78		1300	1,396.80		2300	1,396.88
	0400	1,396.78		1400	1,396.82	8/31/95	0000	1,396.89
	0500	1,396.77		1500	1,396.84		0100	1,396.88
	0600	1,396.77		1600	1,396.86		0200	1,396.88
	0700	1,396.76		1700	1,396.88		0300	1,396.88
	0800	1,396.75		1800	1,396.86		0400	1,396.88
	0900	1,396.75		1900	1,396.86		0500	1,396.87
	1000	1,396.75		2000	1,396.86		0600	1,396.88
	1100	1,396.75		2100	1,396.86	8/31/95	0700	1,396.87
	1200	1,396.76		2200	1,396.86		0800	1,396.86
	1300	1,396.77		2300	1,396.86		0900	1,396.87
	1400	1,396.77	8/29/95	0000	1,396.86		1000	1,396.87
	1500	1,396.78		0100	1,396.85		1100	1,396.87
	1600	1,396.79		0200	1,396.85		1200	1,396.87
	1700	1,396.80		0300	1,396.86		1300	1,396.88
	1800	1,396.82		0400	1,396.86		1400	1,396.87
	1900	1,396.82		0500	1,396.86		1500	1,396.86
	2000	1,396.83		0600	1,396.86		1600	1,396.90
	2100	1,396.83		0700	1,396.86		1700	1,396.89
	2200	1,396.83		0800	1,396.85		1800	1,396.89
	2300	1,396.83		0900	1,396.86		1900	1,396.88
8/27/95	0000	1,396.83		1000	1,396.86		2000	1,396.88
	0100	1,396.83		1100	1,396.86		2100	1,396.87
	0200	1,396.83		1200	1,396.86		2200	1,396.88
	0300	1,396.83		1300	1,396.85		2300	1,396.87
	0400	1,396.84		1400	1,396.86	9/1/95	0000	1,396.87
	0500	1,396.84		1500	1,396.85		0100	1,396.88
	0600	1,396.84		1600	1,396.86		0200	1,396.88
	0700	1,396.84		1700	1,396.89		0300	1,396.88
	0800	1,396.83		1800	1,396.89		0400	1,396.88
	0900	1,396.84		1900	1,396.88		0500	1,396.89
	1000	1,396.84		2000	1,396.86		0600	1,396.88

Table 4. Water-level altitudes for Sun City storage pond no. 9, August-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
9/1/95	0700	1,396.88	9/3/95	1700	1,396.92	9/6/95	0300	1,396.91
	0800	1,396.87		1800	1,396.92		0400	1,396.91
	0900	1,396.88		1900	1,396.92		0500	1,396.91
	1000	1,396.87		2000	1,396.91		0600	1,396.91
	1100	1,396.87		2100	1,396.90		0700	1,396.91
	1200	1,396.88		2200	1,396.91		0800	1,396.91
	1300	1,396.88		2300	1,396.90		0900	1,396.91
	1400	1,396.89	9/4/95	0000	1,396.90		1000	1,396.91
	1500	1,396.87		0100	1,396.90		1100	1,396.92
	1600	1,396.87		0200	1,396.90		1200	1,396.92
	1700	1,396.88		0300	1,396.90		1300	1,396.91
	1800	1,396.88		0400	1,396.90		1400	1,396.92
	1900	1,396.87		0500	1,396.90		1500	1,396.93
	2000	1,396.88		0600	1,396.90		1600	1,396.92
	2100	1,396.88		0700	1,396.90		1700	1,396.91
	2200	1,396.88		0800	1,396.90		1800	1,396.92
	2300	1,396.87		0900	1,396.90		1900	1,396.94
9/2/95	0000	1,396.87		1000	1,396.90		2000	1,396.92
	0100	1,396.87		1100	1,396.90		2100	1,396.92
	0200	1,396.87		1200	1,396.91		2200	1,396.92
	0300	1,396.88		1300	1,396.91		2300	1,396.92
	0400	1,396.88		1400	1,396.92	9/7/95	0000	1,396.92
	0500	1,396.88		1500	1,396.90		0100	1,396.92
	0600	1,396.89		1600	1,396.91		0200	1,396.92
	0700	1,396.88		1700	1,396.91		0300	1,396.92
	0800	1,396.88		1800	1,396.92		0400	1,396.92
	0900	1,396.88		1900	1,396.92		0500	1,396.92
	1000	1,396.89		2000	1,396.91		0600	1,396.92
	1100	1,396.88		2100	1,396.91		0700	1,396.92
	1200	1,396.88		2200	1,396.91		0800	1,396.92
	1300	1,396.89		2300	1,396.91		0900	1,396.92
	1400	1,396.92	9/5/95	0000	1,396.91		1000	1,396.92
	1500	1,396.89		0100	1,396.91		1100	1,396.92
	1600	1,396.91		0200	1,396.91		1200	1,396.92
	1700	1,396.87		0300	1,396.91		1300	1,396.93
	1800	1,396.89		0400	1,396.91		1400	1,396.90
	1900	1,396.89		0500	1,396.91		1500	1,396.93
	2000	1,396.89		0600	1,396.92		1600	1,396.90
	2100	1,396.89		0700	1,396.92		1700	1,396.93
	2200	1,396.89		0800	1,396.91		1800	1,396.95
	2300	1,396.90		0900	1,396.91		1900	1,396.93
9/3/95	0000	1,396.89		1000	1,396.92		2000	1,396.93
	0100	1,396.89		1100	1,396.92		2100	1,396.92
	0200	1,396.89		1200	1,396.91		2200	1,396.92
	0300	1,396.89		1300	1,396.90		2300	1,396.92
	0400	1,396.90		1400	1,396.92	9/8/95	0000	1,396.92
	0500	1,396.89		1500	1,396.92		0100	1,396.92
	0600	1,396.89		1600	1,396.92		0200	1,396.92
	0700	1,396.89		1700	1,396.91		0300	1,396.92
	0800	1,396.89		1800	1,396.93		0400	1,396.92
	0900	1,396.89		1900	1,396.92		0500	1,396.92
	1000	1,396.89		2000	1,396.91		0600	1,396.92
	1100	1,396.90		2100	1,396.91		0700	1,396.92
	1200	1,396.90		2200	1,396.92		0800	1,396.92
	1300	1,396.90		2300	1,396.91		0900	1,396.92
	1400	1,396.90	9/6/95	0000	1,396.91		1000	1,396.93
	1500	1,396.88		0100	1,396.91		1100	1,396.92
	1600	1,396.91		0200	1,396.91		1200	1,396.94

Table 4. Water-level altitudes for Sun City storage pond no. 9, August-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
9/8/95	1300	1,396.92	9/10/95	1900	1,396.96	9/13/95	0100	1,396.95
	1400	1,396.93		2000	1,396.94		0300	1,396.95
	1500	1,396.92		2100	1,396.95		0400	1,396.95
	1600	1,396.90		2200	1,396.94		0500	1,396.95
	1700	1,396.93		2300	1,396.94		0600	1,396.95
	1800	1,396.96	9/11/95	0000	1,396.94		0700	1,396.95
	1900	1,396.93		0100	1,396.94		0800	1,396.95
	2000	1,396.93		0200	1,396.94		0900	1,396.95
	2100	1,396.93		0300	1,396.94		1000	1,396.95
	2200	1,396.93		0400	1,396.94		1100	1,396.96
	2300	1,396.93		0500	1,396.94		1200	1,396.96
9/9/95	0000	1,396.93		0600	1,396.94		1300	1,396.96
	0100	1,396.93		0700	1,396.94		1400	1,396.96
	0200	1,396.92		0800	1,396.93		1500	1,396.97
	0300	1,396.93		0900	1,396.94		1600	1,396.97
	0400	1,396.93		1000	1,396.93		1700	1,396.97
	0500	1,396.93		1100	1,396.94		1800	1,396.97
	0600	1,396.93		1200	1,396.94		1900	1,396.97
	0700	1,396.92		1300	1,396.94		2000	1,396.96
	0800	1,396.92		1400	1,396.94		2100	1,396.96
	0900	1,396.93		1500	1,396.95		2200	1,396.96
	1000	1,396.93		1600	1,396.94		2300	1,396.96
	1100	1,396.92		1700	1,396.96	9/14/95	0000	1,396.96
	1200	1,396.93		1800	1,396.97		0100	1,396.96
	1300	1,396.93		1900	1,396.96		0200	1,396.96
	1400	1,396.93		2000	1,396.94		0300	1,396.96
	1500	1,396.94		2100	1,396.95		0400	1,396.96
	1600	1,396.94		2200	1,396.94		0500	1,396.96
	1700	1,396.94		2300	1,396.95		0600	1,396.96
	1800	1,396.94	9/12/95	0000	1,396.95		0700	1,396.96
	1900	1,396.94		0100	1,396.95		0800	1,396.96
	2000	1,396.94		0200	1,396.94		0900	1,396.96
	2100	1,396.94		0300	1,396.95		1000	1,396.96
	2200	1,396.93		0400	1,396.94		1100	1,396.96
	2300	1,396.93		0500	1,396.95		1200	1,396.97
9/10/95	0000	1,396.93		0600	1,396.95		1300	1,396.96
	0100	1,396.93		0700	1,396.94		1400	1,396.97
	0200	1,396.93		0800	1,396.94		1500	1,396.98
	0300	1,396.93		0900	1,396.94		1600	1,397.02
	0400	1,396.93		1000	1,396.94		1700	1,396.97
	0500	1,396.93		1100	1,396.94		1800	1,396.99
	0600	1,396.93		1200	1,396.94		1900	1,396.98
	0700	1,396.93		1300	1,396.95		2000	1,396.97
	0800	1,396.92		1400	1,396.95		2100	1,396.98
	0900	1,396.93		1500	1,396.96		2300	1,396.97
	1000	1,396.93		1600	1,396.96	9/15/95	0000	1,396.97
	1100	1,396.93		1700	1,396.97		0100	1,396.97
	1200	1,396.93		1800	1,396.95		0200	1,396.97
	1300	1,396.94		1900	1,396.97		0300	1,396.97
	1400	1,396.94		2000	1,396.95		0400	1,396.97
	1500	1,396.95		2100	1,396.96		0500	1,396.97
	1600	1,396.93		2200	1,396.95		0600	1,396.97
	1700	1,396.94		2300	1,396.95		0700	1,396.97
	1800	1,396.94	9/13/95	0000	1,396.95		0800	1,396.97

Table 5. Water-level altitudes for Sun City and Winchester observation wells, April-September 1995

[Location of wells shown in figure 8. Perforated interval for all Sun City wells except well 32A1 is 200-220 feet. Perforated interval for well 32A is 560-580 feet. Measuring points for Sun City wells were surveyed; therefore, water-level altitudes are reported to hundredths of a foot. Perforated interval for all Winchester wells is 50-70 feet. ft, foot; - -, no data]

SUN CITY SITE

Pond no. 9 water-level altitude (ft)	Well name	Date	Water-level altitude (ft)	Water-level change	Well name	Date	Water-level altitude (ft)	Water-level change
	5S/3W-32L1	4/25/95	1,402.62		5S/3W-32B1	4/25/95	1,392.16	
		6/26/95	1,400.80			6/26/95	- -	
1,396.96		9/13/95	1,397.96			9/13/95	1,391.68	
		4/25 -9/13		- 4.66 ft		4/25 -9/13		- 0.48 ft
	5S/3W-32C1	4/25/95	1,395.80		5S/3W-32H1	4/25/95	1,382.61	
		6/26/95	1,397.51			6/26/95	- -	
		9/13/95	1,397.06			9/13/95	1,382.58	
		4/25 -9/13		+ 1.26 ft		4/25 -9/13		- 0.03 ft
	5S/3W-32G1	4/25/95	1,397.17		5S/3W-32A1	4/25/95	1,376.41	
		6/26/95	1,394.37			6/26/95	- -	
		9/13/95	1,393.88			9/13/95	1,378.02	
		4/25 -9/13		- 3.29 ft		4/25 -9/13		+ 1.61 ft

WINCHESTER SITE

Pond B approximate water-level altitude (ft)					Pond A approximate water-level altitude (ft)			
1,450	5S/2W-30H3	5/23/95	1,447.9		1,455	5S/2W-30H2	5/11/95	1,449.8	
1,448		6/ /95	1,447.8		1,452		6/ /95	1,449.2	
1,449.5		7/6/95	1,447.4		1,448.5		7/6/95	- -	
1,438.5		9/11/95	1,440.1		1,437.5		9/11/95	1,442.4	
		5/23 - 9/11		- 7.8 ft			5/11 - 9/11		- 7.4 ft
	5S/2W-30G2	5/23/95	1,441.4			5S/2W-30H1	5/11/95	1,452.9	
		6/ /95	1,440.8				6/ /95	1,451.6	
		7/7/95	1,440.1				7/6/95	1,449.9	
		9/13/95	1,437.2				9/11/95	1,443.0	
		5/23 - 9/13		- 4.2 ft			5/11 - 9/11		- 9.9 ft
	5S/2W-30G3	5/23/95	1,442.0			5S/2W-30A1	5/23/95	1,456.2	
		6/ /95	1,441.5				6/ /95	1,454.2	
		7/6/95	1,441.0				7/6/95	1,451.9	
		9/13/95	1,435.7				9/13/95	1,444.7	
		5/23 - 9/13		- 6.3 ft			5/23 - 9/13		- 11.5 ft
	5S/2W-30B2	5/23/95	- -			5S/2W-30B1	5/23/95	1,453.4	
		6/2/95	1,446.6				6/ /95	- -	
		7/6/95	1,446.4				7/6/95	1,451.8	
		9/13/95	1,444.6				9/13/95	1,447.1	
		5/23 - 9/13		- 2.0 ft			5/23 - 9/13		- 6.3 ft

Table 6. Conversion of water-level altitude to pond volume for Pond No. 9, Sun City Regional Water Reclamation Facility

Water-level altitude, in feet	Volume, in millions of gallons	Freeboard, in feet
1390.0	DRY	20.0
1390.5	0.8	19.5
1391.0	1.5	19.0
1391.5	2.3	18.5
1392.0	3.0	18.0
1392.5	3.8	17.5
1393.0	4.5	17.0
1393.5	5.4	16.5
1394.0	6.2	16.0
1393.5	7.0	15.5
1395.0	7.8	15.0
1395.5	8.7	14.5
1396.0	9.6	14.0
1396.5	10.5	13.5
1397.0	11.3	13.0
1397.5	12.2	12.5
1398.0	13.0	12.0
1398.5	13.9	11.5
1399.0	14.8	11.0
1399.5	15.7	10.5
1400.0	16.6	10.0
1400.5	17.7	9.5
1401.0	18.4	9.0
1401.5	19.4	8.5
1402.0	20.4	8.0
1402.5	21.6	7.5
1403.0	22.5	7.0
1403.5	23.7	6.5
1404.0	24.8	6.0
1404.5	26.1	5.5
1405.0	27.3	5.0
1405.5	28.5	4.5
1406.0	29.7	4.0
1406.5	30.9	3.5
1407.0	32.1	3.0
1407.5	33.4	2.5
1408.0	34.7	2.0
1408.5	35.8	1.5
1409.0	37.0	1.0

Table 7. Daily timing of peak water levels for Sun City pond no. 9 and Trumble Road pond for selected periods, August-September 1995

[Time of water-level rise: 24-hour time]

Date	Time of water-level rise	Remarks	Date	Time of water-level rise	Remarks	Date	Time of water-level rise	Remarks
SUN CITY POND NO. 9 (Aug. 3-Aug. 7, 1995)			**SUN CITY POND NO. 9 (Aug. 29-Sept.2, 1995)**			**SUN CITY POND NO. 9 (Sept. 9-13, 1995)**		
8-03-95	1500-2000		8-29-95	1630-1930		9-09-95	1500-2100	Small amplitude
8-04-95	1130-1400 1600-2000	Water added to pond 7, 1530-0700	8-30-95	1730-2000		9-10-95	1500 1800-2130	Water added to pond 7, 1530-0700
8-05-95	1400, 1600 1800-2000	Fluctuating	8-31-95	1530-1900		9-11-95	1630-1930	
8-06-95	1300, 1600 1830-2000	Water added to pond 7, 1530-0700	9-01-95	1330-1430		9-12-95	1500-1930	Fluctuating
8-07-95	1200 1500-1900		9-02-95	1330-1430 1530-1630	Fluctuating	9-13-95	1500-1930	
TRUMBLE ROAD POND (Sept. 11, 1995)								
9-11-95	1400 1700	Small amplitude						

Table 8. Water-level altitudes for Trumble Road pond, July-September, 1995

[Water-level altitude in feet above sea level, rounded to the nearest hundredth]

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
7/22/95	2130	1,415.56	7/25/95	0600	1,414.89	7/27/95	1500	1,414.29
	2200	1,415.56		0700	1,414.86		1600	1,414.26
	2300	1,415.53		0800	1,414.87		1700	1,414.27
7/23/95	0000	1,415.51		0900	1,414.87		1800	1,414.25
	0115	1,415.49		1000	1,414.86		1900	1,414.21
	0200	1,415.47		1100	1,414.85		2000	1,414.21
	0300	1,415.46		1200	1,414.85		2100	1,414.18
	0400	1,415.44		1300	1,414.84		2200	1,414.17
	0500	1,415.43		1400	1,414.85		2300	1,414.15
	0600	1,415.42		1500	1,414.83	7/28/95	0000	1,414.13
	0700	1,415.40		1600	1,414.82		0100	1,414.12
	0800	1,415.38		1715	1,414.82		0200	1,414.10
	0900	1,415.37		1800	1,414.81		0300	1,414.08
	1000	1,415.36		1900	1,414.81		0400	1,414.07
	1100	1,415.35		2000	1,414.80		0500	1,414.06
	1200	1,415.34		2100	1,414.79		0600	1,414.04
	1300	1,415.33		2200	1,414.78		0700	1,414.02
	1400	1,415.31		2300	1,414.77		0800	1,414.01
	1500	1,415.30	7/26/95	0000	1,414.76		0900	1,414.00
	1600	1,415.27		0100	1,414.76		1000	1,413.99
	1700	1,415.27		0200	1,414.75		1100	1,413.97
	1800	1,415.24		0300	1,414.74		1200	1,413.98
	1900	1,415.24		0400	1,414.75		1300	1,413.96
	2000	1,415.20		0500	1,414.73		1400	1,413.96
	2100	1,415.21		0600	1,414.72		1500	1,413.94
	2200	1,415.18		0700	1,414.72		1600	1,413.92
	2300	1,415.17		0800	1,414.71		1700	1,413.90
7/24/95	0000	1,415.16		0900	1,414.71		1800	1,413.88
	0100	1,415.14		1000	1,414.69		1900	1,413.86
	0200	1,415.13		1100	1,414.68		2015	1,413.83
	0300	1,415.11		1200	1,414.67		2100	1,413.83
	0400	1,415.10		1300	1,414.67		2200	1,413.81
	0500	1,415.09		1400	1,414.65		2300	1,413.78
	0600	1,415.07		1500	1,414.63	7/29/95	0000	1,413.76
	0700	1,415.05		1600	1,414.63		0100	1,413.75
	0800	1,415.04		1700	1,414.62		0200	1,413.74
	0900	1,415.03		1800	1,414.60		0300	1,413.72
	1000	1,415.02		1900	1,414.57		0400	1,413.70
	1100	1,415.01		2000	1,414.55		0500	1,413.68
	1200	1,415.00		2100	1,414.54		0600	1,413.67
	1300	1,414.99		2200	1,414.53		0700	1,413.65
	1400	1,414.99		2300	1,414.51		0800	1,413.63
	1500	1,414.99	7/27/95	0000	1,414.49		0900	1,413.62
	1600	1,414.98		0100	1,414.48		1000	1,413.60
	1700	1,414.97		0200	1,414.46		1100	1,413.58
	1800	1,414.96		0300	1,414.45		1200	1,413.57
	1900	1,414.96		0400	1,414.44		1300	1,413.56
	2000	1,414.94		0500	1,414.42		1400	1,413.54
	2100	1,414.94		0600	1,414.41		1500	1,413.53
	2200	1,414.94		0700	1,414.39		1600	1,413.50
	2300	1,414.92		0800	1,414.37		1700	1,413.50
7/25/95	0000	1,414.92		0900	1,414.36		1800	1,413.47
	0100	1,414.91		1000	1,414.35		1900	1,413.46
	0200	1,414.91		1100	1,414.33		2000	1,413.44
	0300	1,414.90		1200	1,414.33		2100	1,413.44
	0400	1,414.89		1300	1,414.32		2200	1,413.42
	0500	1,414.89		1400	1,414.30		2300	1,413.41

Table 8. Water-level altitudes for Trumble Road pond, July-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
7/30/95	0000	1,413.41	8/1/95	0900	1,412.75	8/3/95	1800	1,411.94
	0100	1,413.41		1000	1,412.75		1900	1,411.94
	0200	1,413.40		1100	1,412.73		2000	1,411.92
	0300	1,413.40		1200	1,412.72		2100	1,411.90
	0400	1,413.39		1300	1,412.71		2200	1,411.88
	0500	1,413.39		1400	1,412.68		2300	1,411.87
	0600	1,413.38		1500	1,412.67	8/4/95	0000	1,411.86
	0700	1,413.37		1600	1,412.65		0100	1,411.84
	0800	1,413.37		1700	1,412.65		0200	1,411.83
	0900	1,413.37		1800	1,412.61		0300	1,411.82
	1000	1,413.37		1900	1,412.59		0400	1,411.81
	1100	1,413.36		2000	1,412.57		0500	1,411.79
	1200	1,413.37		2100	1,412.56		0600	1,411.78
	1300	1,413.35		2200	1,412.54		0700	1,411.76
	1400	1,413.35		2300	1,412.53		0800	1,411.75
	1500	1,413.34	8/2/95	0000	1,412.51		0900	1,411.74
	1600	1,413.35		0100	1,412.49		1000	1,411.73
	1700	1,413.32		0200	1,412.48		1100	1,411.73
	1800	1,413.33		0300	1,412.46		1145	1,411.70
	1900	1,413.29		0400	1,412.45		1300	1,411.71
	2000	1,413.30		0500	1,412.44		1400	1,411.70
	2100	1,413.28		0600	1,412.42		1500	1,411.68
	2200	1,413.27		0700	1,412.40		1600	1,411.65
	2300	1,413.26		0800	1,412.39		1700	1,411.66
7/31/95	0000	1,413.26		0900	1,412.38		1800	1,411.64
	0100	1,413.25		1000	1,412.37		1900	1,411.63
	0200	1,413.25		1100	1,412.34		2000	1,411.61
	0300	1,413.24		1200	1,412.35		2100	1,411.59
	0400	1,413.23		1300	1,412.34		2200	1,411.58
	0500	1,413.23		1400	1,412.32		2300	1,411.56
	0600	1,413.22		1500	1,412.31	8/5/95	0000	1,411.55
	0700	1,413.21		1600	1,412.30		0100	1,411.55
	0800	1,413.20		1700	1,412.27		0200	1,411.52
	0900	1,413.20		1800	1,412.26		0300	1,411.52
	1000	1,413.19		1900	1,412.23		0400	1,411.50
	1100	1,413.18		2000	1,412.23		0500	1,411.49
	1200	1,413.18		2100	1,412.20		0600	1,411.47
	1300	1,413.14		2200	1,412.20		0700	1,411.44
	1400	1,413.12		2300	1,412.18		0800	1,411.43
	1500	1,413.10	8/3/95	0000	1,412.17		0900	1,411.44
	1600	1,413.07		0100	1,412.15		1000	1,411.46
	1700	1,413.05		0200	1,412.15		1100	1,411.44
	1800	1,413.03		0300	1,412.13		1200	1,411.46
	1900	1,413.00		0400	1,412.11		1300	1,411.44
	2000	1,412.97		0500	1,412.11		1400	1,411.43
	2100	1,412.95		0600	1,412.09		1500	1,411.43
	2200	1,412.93		0700	1,412.06		1600	1,411.41
	2300	1,412.92		0800	1,412.06		1700	1,411.39
8/1/95	0000	1,412.90		0900	1,412.05		1800	1,411.38
	0100	1,412.88		1000	1,412.06		1900	1,411.35
	0200	1,412.86		1100	1,412.02		2000	1,411.33
	0300	1,412.85		1200	1,412.03		2100	1,411.32
	0400	1,412.84		1300	1,412.02		2200	1,411.29
	0500	1,412.82		1400	1,412.02		2300	1,411.27
	0600	1,412.80		1500	1,411.99	8/6/95	0000	1,411.27
	0700	1,412.78		1600	1,411.98		0100	1,411.25
	0800	1,412.76		1700	1,411.95		0200	1,411.24

Table 8. Water-level altitudes for Trumble Road pond, July-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
8/6/95	0300	1,411.23	8/8/95	1200	1,410.91	8/10/95	2100	1,409.90
	0400	1,411.21		1300	1,410.90		2200	1,409.87
	0500	1,411.20		1400	1,410.89		2300	1,409.84
	0600	1,411.19		1500	1,410.89	8/11/95	0000	1,409.82
	0700	1,411.16		1600	1,410.86		0100	1,409.79
	0800	1,411.16		1700	1,410.86		0200	1,409.77
	0900	1,411.15		1800	1,410.86		0300	1,409.74
	1000	1,411.15		1900	1,410.84		0400	1,409.72
	1100	1,411.16		2000	1,410.83		0500	1,409.69
	1200	1,411.18		2100	1,410.80		0600	1,409.67
	1300	1,411.18		2200	1,410.79		0700	1,409.62
	1400	1,411.21		2300	1,410.78		0800	1,409.59
	1500	1,411.20	8/9/95	0000	1,410.77		0900	1,409.61
	1600	1,411.20		0100	1,410.78		1000	1,409.56
	1700	1,411.18		0200	1,410.77		1100	1,409.51
	1800	1,411.19		0300	1,410.76		1200	1,409.55
	1900	1,411.20		0400	1,410.76		1300	1,409.49
	2000	1,411.19		0500	1,410.76		1400	1,409.47
	2100	1,411.18		0600	1,410.76		1500	1,409.46
	2200	1,411.19		0700	1,410.75		1600	1,409.43
	2300	1,411.18		0800	1,410.75		1700	1,409.41
8/7/95	0000	1,411.18		0900	1,410.73		1800	1,409.39
	0100	1,411.16		1000	1,410.71		1900	1,409.36
	0200	1,411.17		1100	1,410.70		2000	1,409.32
	0300	1,411.16		1200	1,410.68		2100	1,409.28
	0400	1,411.16		1300	1,410.66		2200	1,409.26
	0500	1,411.15		1400	1,410.65		2300	1,409.23
	0600	1,411.15		1500	1,410.63	8/12/95	0000	1,409.21
	0700	1,411.13		1600	1,410.60		0100	1,409.19
	0800	1,411.12		1700	1,410.59		0200	1,409.16
	0900	1,411.11		1800	1,410.54		0300	1,409.13
	1000	1,411.12		1900	1,410.53		0400	1,409.10
	1100	1,411.11		2000	1,410.49		0500	1,409.08
	1200	1,411.13		2100	1,410.47		0600	1,409.05
	1300	1,411.12		2200	1,410.45		0700	1,409.01
	1400	1,411.11		2300	1,410.42		0800	1,409.01
	1500	1,411.12	8/10/95	0000	1,410.40		0900	1,408.96
	1600	1,411.11		0100	1,410.38		1000	1,408.93
	1700	1,411.08		0200	1,410.35		1100	1,408.91
	1800	1,411.07		0300	1,410.33		1200	1,408.88
	1900	1,411.06		0400	1,410.30		1300	1,408.87
	2000	1,411.06		0500	1,410.28		1400	1,408.83
	2100	1,411.04		0600	1,410.26		1500	1,408.83
	2200	1,411.03		0700	1,410.21		1600	1,408.81
	2300	1,411.03		0800	1,410.21		1700	1,408.78
8/8/95	0000	1,411.02		0900	1,410.19		1800	1,408.73
	0100	1,411.01		1000	1,410.16		1900	1,408.72
	0200	1,411.00		1100	1,410.16		2000	1,408.68
	0300	1,410.99		1200	1,410.15		2100	1,408.67
	0400	1,410.98		1300	1,410.13		2200	1,408.64
	0500	1,410.97		1400	1,410.09		2300	1,408.62
	0600	1,410.96		1500	1,410.08	8/13/95	0000	1,408.58
	0700	1,410.94		1600	1,410.04		0100	1,408.56
	0800	1,410.93		1700	1,410.00		0200	1,408.53
	0900	1,410.93		1800	1,409.98		0300	1,408.51
	1000	1,410.93		1900	1,409.95		0400	1,408.49
	1100	1,410.95		2000	1,409.92		0500	1,408.46

Table 8. Water-level altitudes for Trumble Road pond, July-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
8/13/95	0600	1,408.42	8/15/95	1500	1,407.03	8/18/95	0000	1,405.66
	0700	1,408.39		1600	1,406.97		0100	1,405.64
	0800	1,408.37		1700	1,406.93		0200	1,405.61
	0900	1,408.34		1800	1,406.90		0300	1,405.60
	1000	1,408.33		1900	1,406.86		0400	1,405.56
	1100	1,408.33		2000	1,406.83		0500	1,405.54
	1200	1,408.31		2100	1,406.80		0600	1,405.52
	1300	1,408.28		2200	1,406.76		0700	1,405.47
	1400	1,408.23		2300	1,406.73		0800	1,405.45
	1500	1,408.21	8/16/95	0000	1,406.70		0900	1,405.43
	1600	1,408.21		0100	1,406.68		1000	1,405.43
	1700	1,408.15		0200	1,406.65		1045	1,405.42
	1800	1,408.16		0300	1,406.62	8/30/95	1130	1,399.60
	1900	1,408.12		0400	1,406.59		1445	1,399.55
	2000	1,408.10		0500	1,406.56		1545	1,399.54
	2100	1,408.08		0600	1,406.54		1600	1,399.49
	2200	1,408.05		0700	1,406.50		1700	1,399.48
	2300	1,408.02		0800	1,406.48		1800	1,399.48
8/14/95	0000	1,407.99		0900	1,406.46		1900	1,399.48
	0100	1,407.97		1000	1,406.45		2000	1,399.46
	0200	1,407.94		1100	1,406.42		2100	1,399.44
	0300	1,407.91		1200	1,406.41		2200	1,399.44
	0400	1,407.88		1300	1,406.40		2300	1,399.41
	0500	1,407.86		1400	1,406.40	8/31/95	0000	1,399.40
	0600	1,407.82		1500	1,406.38		0100	1,399.38
	0700	1,407.78		1600	1,406.35		0200	1,399.37
	0800	1,407.77		1700	1,406.34		0300	1,399.36
	0900	1,407.74		1800	1,406.32		0400	1,399.34
	1000	1,407.75		1900	1,406.29		0500	1,399.33
	1100	1,407.71		2000	1,406.27		0600	1,399.31
	1200	1,407.71		2100	1,406.23		0700	1,399.29
	1300	1,407.67		2200	1,406.21		0800	1,399.28
	1400	1,407.65		2300	1,406.19		0900	1,399.26
	1500	1,407.61	8/17/95	0000	1,406.17		1000	1,399.24
	1600	1,407.60		0100	1,406.14		1100	1,399.23
	1700	1,407.56		0200	1,406.11		1200	1,399.22
	1800	1,407.54		0300	1,406.09		1300	1,399.21
	1900	1,407.52		0400	1,406.07		1400	1,399.19
	2000	1,407.50		0500	1,406.04		1500	1,399.18
	2100	1,407.47		0600	1,406.02		1600	1,399.16
	2200	1,407.44		0700	1,405.98		1700	1,399.15
	2300	1,407.41		0800	1,405.96		1800	1,399.14
8/15/95	0000	1,407.38		0900	1,405.94		1900	1,399.11
	0100	1,407.35		1000	1,405.93		2000	1,399.10
	0200	1,407.33		1100	1,405.90		2100	1,399.09
	0300	1,407.32		1200	1,405.91		2200	1,399.08
	0400	1,407.28		1300	1,405.87		2300	1,399.06
	0500	1,407.26		1400	1,405.85	9/1/95	0000	1,399.04
	0600	1,407.23		1500	1,405.84		0100	1,399.03
	0700	1,407.19		1600	1,405.83		0200	1,399.01
	0800	1,407.16		1700	1,405.81		0300	1,399.01
	0900	1,407.15		1800	1,405.76		0400	1,398.99
	1000	1,407.12		1900	1,405.77		0500	1,398.98
	1100	1,407.11		2000	1,405.75		0600	1,398.96
	1200	1,407.08		2100	1,405.71		0700	1,398.93
	1300	1,407.06		2200	1,405.71		0900	1,398.91
	1400	1,407.01		2300	1,405.68		1100	1,398.89

Table 8. Water-level altitudes for Trumble Road pond, July-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
9/1/95	1200	1,398.88	9/3/95	2100	1,397.99	9/6/95	0600	1,397.09
	1300	1,398.87		2200	1,397.98		0700	1,397.07
	1400	1,398.84		2300	1,397.96		0800	1,397.03
	1500	1,398.82	9/4/95	0000	1,397.95		0900	1,397.04
	1600	1,398.81		0100	1,397.93		1000	1,397.02
	1700	1,398.80		0200	1,397.92		1100	1,397.02
	1800	1,398.78		0300	1,397.90		1200	1,396.98
	1900	1,398.76		0400	1,397.88		1300	1,396.99
	2000	1,398.74		0500	1,397.87		1400	1,396.96
	2100	1,398.74		0600	1,397.85		1500	1,396.96
	2200	1,398.72		0700	1,397.82		1600	1,396.93
	2300	1,398.71		0800	1,397.81		1700	1,396.92
9/2/95	0000	1,398.69		0900	1,397.79		1800	1,396.90
	0100	1,398.68		1000	1,397.79		1900	1,396.88
	0200	1,398.66		1100	1,397.77		2000	1,396.87
	0300	1,398.65		1200	1,397.75		2100	1,396.85
	0400	1,398.63		1300	1,397.73		2200	1,396.84
	0500	1,398.62		1400	1,397.73		2300	1,396.82
	0600	1,398.60		1500	1,397.71	9/7/95	0000	1,396.81
	0700	1,398.59		1600	1,397.70		0100	1,396.79
	0800	1,398.56		1700	1,397.68		0200	1,396.78
	0900	1,398.55		1800	1,397.64		0300	1,396.76
	1000	1,398.53		1900	1,397.65		0400	1,396.74
	1100	1,398.52		2000	1,397.62		0500	1,396.73
	1200	1,398.51		2100	1,397.61		0600	1,396.71
	1300	1,398.50		2200	1,397.60		0700	1,396.70
	1400	1,398.47		2300	1,397.57		0800	1,396.67
	1500	1,398.45	9/5/95	0000	1,397.56		0900	1,396.63
	1600	1,398.44		0100	1,397.55		1000	1,396.64
	1700	1,398.43		0200	1,397.53		1100	1,396.61
	1800	1,398.42		0300	1,397.52		1200	1,396.60
	1900	1,398.40		0400	1,397.50		1300	1,396.60
	2000	1,398.40		0500	1,397.49		1400	1,396.60
	2100	1,398.38		0600	1,397.47		1500	1,396.56
	2200	1,398.36		0700	1,397.44		1600	1,396.53
	2300	1,398.34		0800	1,397.43		1700	1,396.51
9/3/95	0000	1,398.32		0900	1,397.42		1800	1,396.48
	0100	1,398.31		1000	1,397.40		1900	1,396.48
	0200	1,398.29		1100	1,397.39		2000	1,396.47
	0300	1,398.28		1200	1,397.39		2100	1,396.46
	0400	1,398.27		1300	1,397.37		2200	1,396.43
	0500	1,398.25		1400	1,397.34		2300	1,396.41
	0600	1,398.23		1500	1,397.33	9/8/95	0000	1,396.40
	0700	1,398.21		1600	1,397.32		0100	1,396.38
	0830	1,398.18		1700	1,397.29		0200	1,396.36
	0900	1,398.17		1800	1,397.28		0300	1,396.35
	1000	1,398.16		1900	1,397.27		0400	1,396.33
	1100	1,398.15		2000	1,397.26		0500	1,396.31
	1200	1,398.13		2100	1,397.23		0600	1,396.30
	1300	1,398.12		2200	1,397.21		0700	1,396.26
	1400	1,398.11		2300	1,397.20		0800	1,396.24
	1500	1,398.10	9/6/95	0000	1,397.19		0900	1,396.24
	1600	1,398.08		0100	1,397.17		1000	1,396.23
	1700	1,398.05		0200	1,397.16		1100	1,396.20
	1800	1,398.02		0300	1,397.14		1200	1,396.19
	1900	1,398.03		0400	1,397.12		1300	1,396.19
	2000	1,398.01		0500	1,397.11		1400	1,396.15

Table 8. Water-level altitudes for Trumble Road pond, July-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
9/8/95	1500	1,396.14	9/11/95	0000	1,395.23	9/13/95	0900	1,394.50
	1600	1,396.16		0100	1,395.22		1000	1,394.49
	1700	1,396.14		0200	1,395.20		1100	1,394.47
	1800	1,396.11		0300	1,395.18		1200	1,394.45
	1900	1,396.09		0400	1,395.16		1300	1,394.43
	2000	1,396.09		0500	1,395.15		1400	1,394.43
	2100	1,396.07		0600	1,395.13		1500	1,394.41
	2200	1,396.05		0700	1,395.08		1600	1,394.38
	2300	1,396.04		0800	1,395.09		1700	1,394.37
9/9/95	0000	1,396.02		0900	1,395.08		1800	1,394.34
	0100	1,396.01		1000	1,395.09		1900	1,394.33
	0200	1,396.00		1100	1,395.08		2000	1,394.31
	0300	1,395.98		1200	1,395.09		2100	1,394.28
	0400	1,395.97		1300	1,395.09		2200	1,394.25
	0500	1,395.95		1400	1,395.10		2300	1,394.23
	0600	1,395.94		1500	1,395.09	9/14/95	0000	1,394.21
	0700	1,395.89		1600	1,395.09		0100	1,394.19
	0800	1,395.89		1700	1,395.10		0200	1,394.17
	0900	1,395.88		1800	1,395.07		0300	1,394.15
	1000	1,395.86		1900	1,395.08		0400	1,394.13
	1100	1,395.86		2000	1,395.07		0500	1,394.11
	1200	1,395.84		2100	1,395.07		0600	1,394.08
	1300	1,395.83		2200	1,395.07		0700	1,394.04
	1400	1,395.81		2300	1,395.06		0800	1,394.01
	1500	1,395.82	9/12/95	0000	1,395.06		0900	1,394.01
	1600	1,395.78		0100	1,395.06		1000	1,393.99
	1700	1,395.78		0200	1,395.05		1100	1,393.97
	1800	1,395.75		0300	1,395.05		1200	1,393.97
	1900	1,395.74		0400	1,395.05		1300	1,393.95
	2000	1,395.72		0500	1,395.04		1400	1,393.97
	2100	1,395.70		0600	1,395.04		1500	1,393.88
	2200	1,395.68		0700	1,395.02		1600	1,393.88
	2300	1,395.66		0800	1,395.01		1700	1,393.87
9/10/95	0000	1,395.65		0900	1,395.02		1800	1,393.84
	0100	1,395.63		1000	1,395.00		1900	1,393.82
	0200	1,395.61		1100	1,394.99		2000	1,393.80
	0300	1,395.60		1200	1,394.98		2100	1,393.77
	0400	1,395.57		1300	1,394.96		2200	1,393.76
	0500	1,395.56		1400	1,394.94		2300	1,393.73
	0600	1,395.54		1500	1,394.92	9/15/95	0000	1,393.70
	0700	1,395.50		1600	1,394.88		0100	1,393.69
	0800	1,395.49		1700	1,394.88		0200	1,393.67
	0900	1,395.48		1800	1,394.85		0300	1,393.64
	1000	1,395.47		1900	1,394.83		0400	1,393.63
	1100	1,395.47		2000	1,394.81		0500	1,393.60
	1200	1,395.43		2100	1,394.78		0600	1,393.59
	1300	1,395.40		2200	1,394.76		0700	1,393.54
	1400	1,395.43		2300	1,394.73		0800	1,393.53
	1500	1,395.40	9/13/95	0000	1,394.72		0900	1,393.50
	1600	1,395.38	256	0100	1,394.70		1000	1,393.48
	1700	1,395.36		0200	1,394.68		1100	1,393.47
	1800	1,395.34		0300	1,394.65		1200	1,393.46
	1900	1,395.33		0400	1,394.63		1300	1,393.43
	2000	1,395.30		0500	1,394.61		1400	1,393.40
	2100	1,395.28		0600	1,394.59		1500	1,393.42
	2200	1,395.27		0700	1,394.55		1600	1,393.40
	2300	1,395.24		0800	1,394.52		1700	1,393.36

Table 8. Water-level altitudes for Trumble Road pond, July-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
9/15/95	1800	1,393.35	9/18/95	0300	1,392.10	9/20/95	1200	1,390.69
	1900	1,393.32		0400	1,392.08		1300	1,390.67
	2000	1,393.30		0500	1,392.06		1400	1,390.64
	2100	1,393.27		0600	1,392.03		1500	1,390.62
	2200	1,393.25		0700	1,392.00		1600	1,390.60
	2300	1,393.23		0800	1,391.96		1700	1,390.58
9/16/95	0000	1,393.21		0900	1,391.94		1800	1,390.55
	0100	1,393.19		1000	1,391.94		1900	1,390.53
	0200	1,393.17		1100	1,391.91		2000	1,390.50
	0300	1,393.14		1200	1,391.89		2100	1,390.47
	0400	1,393.12		1300	1,391.91		2200	1,390.45
	0500	1,393.10		1400	1,391.87		2300	1,390.43
	0600	1,393.09		1500	1,391.85	9/21/95	0000	1,390.41
	0700	1,393.06		1600	1,391.82		0100	1,390.39
	0800	1,393.04		1700	1,391.80		0200	1,390.37
	0900	1,392.98		1800	1,391.76		0300	1,390.34
	1000	1,392.99		1900	1,391.74		0400	1,390.32
	1100	1,392.98		2000	1,391.71		0500	1,390.30
	1200	1,392.94		2100	1,391.68		0600	1,390.28
	1300	1,392.94		2200	1,391.65		0700	1,390.24
	1400	1,392.91		2300	1,391.63		0800	1,390.20
	1500	1,392.91	9/19/95	0000	1,391.60		0900	1,390.18
	1600	1,392.89		0100	1,391.58		1000	1,390.17
	1700	1,392.87		0200	1,391.55		1100	1,390.16
	1800	1,392.83		0300	1,391.53		1200	1,390.17
	1900	1,392.82		0400	1,391.50		1300	1,390.14
	2000	1,392.80		0500	1,391.48		1400	1,390.10
	2100	1,392.77		0600	1,391.45		1500	1,390.09
	2200	1,392.75		0700	1,391.41		1600	1,390.08
	2300	1,392.72		0800	1,391.37		1700	1,390.04
9/17/95	0000	1,392.70		0900	1,391.35		1800	1,390.03
	0100	1,392.68		1000	1,391.34		1900	1,390.00
	0200	1,392.66		1100	1,391.31		2000	1,389.98
	0300	1,392.63		1200	1,391.29		2100	1,389.96
	0400	1,392.61		1300	1,391.28		2200	1,389.93
	0500	1,392.59		1400	1,391.25		2300	1,389.91
	0600	1,392.57		1500	1,391.22	9/22/95	0000	1,389.89
	0700	1,392.54		1600	1,391.21		0100	1,389.86
	0800	1,392.51		1700	1,391.18		0200	1,389.84
	0900	1,392.48		1800	1,391.15		0300	1,389.82
	1000	1,392.47		1900	1,391.12		0400	1,389.80
	1100	1,392.44		2000	1,391.09		0500	1,389.78
	1200	1,392.45		2100	1,391.07		0600	1,389.76
	1300	1,392.42		2200	1,391.04		0700	1,389.72
	1400	1,392.40		2300	1,391.02		0800	1,389.68
	1500	1,392.37	9/20/95	0000	1,390.99		0900	1,389.66
	1600	1,392.36		0100	1,390.97		1000	1,389.64
	1700	1,392.33		0200	1,390.94		1100	1,389.64
	1800	1,392.31		0300	1,390.92		1200	1,389.60
	1900	1,392.29		0400	1,390.89		1300	1,389.58
	2000	1,392.26		0500	1,390.86		1400	1,389.57
	2100	1,392.24		0600	1,390.84		1500	1,389.54
	2200	1,392.21		0700	1,390.81		1600	1,389.52
	2300	1,392.19		0800	1,390.77		1700	1,389.49
9/18/95	0000	1,392.17		0900	1,390.73		1800	1,389.45
	0100	1,392.15		1000	1,390.72		1900	1,389.43
	0200	1,392.12		1100	1,390.71		2000	1,389.39

Table 8. Water-level altitudes for Trumble Road pond, July-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
9/22/95	2100	1,389.36	9/25/95	0400	1,387.91
	2200	1,389.33		0500	1,387.88
	2300	1,389.30		0600	1,387.85
9/23/95	0000	1,389.27		0700	1,387.82
	0100	1,389.25		0800	1,387.79
	0200	1,389.21		0900	1,387.78
	0300	1,389.19		1000	1,387.74
	0400	1,389.16		1100	1,387.77
	0500	1,389.13		1200	1,387.70
	0600	1,389.11		1300	1,387.77
	0700	1,389.07		1400	1,387.69
	0800	1,389.02		1500	1,387.66
	0900	1,389.00		1600	1,387.63
	1000	1,388.98		1700	1,387.60
	1100	1,388.95		1800	1,387.57
	1200	1,388.99		1900	1,387.54
	1300	1,388.94		2000	1,387.51
	1400	1,388.91		2100	1,387.48
	1500	1,388.89	9/26/95	2200	1,387.45
	1600	1,388.84		2300	1,387.42
	1700	1,388.81		0000	1,387.40
	1800	1,388.78		0100	1,387.37
	1900	1,388.75		0200	1,387.34
	2000	1,388.71		0300	1,387.31
	2100	1,388.68		0400	1,387.28
	2200	1,388.65		0500	1,387.25
	2300	1,388.62		0600	1,387.21
9/24/95	0000	1,388.60		0700	1,387.19
	0100	1,388.56		0800	1,387.15
	0200	1,388.54		0900	1,387.11
	0300	1,388.51		1000	1,387.05
	0400	1,388.48		1100	1,387.05
	0500	1,388.45		1200	1,387.03
	0600	1,388.42		1300	1,386.99
	0700	1,388.38		1400	1,386.95
	0800	1,388.35		1500	1,386.92
	0900	1,388.32		1600	1,386.88
	1000	1,388.32		1700	1,386.84
	1100	1,388.31		1800	1,386.81
	1200	1,388.29		1900	1,386.77
	1300	1,388.23		2000	1,386.73
	1400	1,388.25		2100	1,386.69
	1500	1,388.24	9/27/95	2200	1,386.65
	1600	1,388.20		2300	1,386.61
	1700	1,388.18		0000	1,386.57
	1800	1,388.15		0100	1,386.53
	1900	1,388.13		0200	1,386.49
	2000	1,388.10		0300	1,386.45
	2100	1,388.07		0400	1,386.41
	2200	1,388.05		0500	1,386.37
	2300	1,388.02		0600	1,386.33
9/25/95	0000	1,388.00		0700	1,386.29
	0100	1,387.98		0800	1,386.24
	0200	1,387.96		0900	1,386.20
	0300	1,387.93			

Table 9. Water-level altitudes for Winchester pond B (west pond), June-September, 1995

[Water-level altitude in feet above sea level, rounded to the nearest hundredth]

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
6/21/95	1515	1,448.41	6/24/95	0100	1,448.30	6/26/95	1300	1,449.61
	1600	1,448.40		0200	1,448.29		1400	1,449.61
	1700	1,448.39		0300	1,448.28		1500	1,449.62
	1800	1,448.40		0400	1,448.26		1600	1,449.62
	1900	1,448.37		0500	1,448.25		1700	1,449.61
	2000	1,448.37		0600	1,448.24		1800	1,449.63
	2100	1,448.36		0700	1,448.23		1900	1,449.61
	2200	1,448.35		0800	1,448.23		2000	1,449.59
	2300	1,448.33		0900	1,448.27		2100	1,449.61
6/22/95	0000	1,448.33		1000	1,448.30		2200	1,449.60
	0100	1,448.32		1100	1,448.33		2300	1,449.60
	0200	1,448.32		1200	1,448.36	6/27/95	0000	1,449.60
	0300	1,448.32		1300	1,448.40		0100	1,449.60
	0400	1,448.32		1400	1,448.44		0200	1,449.60
	0500	1,448.32		1500	1,448.48		0300	1,449.60
	0600	1,448.32		1600	1,448.52		0400	1,449.61
	0700	1,448.31		1700	1,448.56		0500	1,449.61
	0800	1,448.32		1800	1,448.59		0600	1,449.61
	0900	1,448.32		1900	1,448.64		0700	1,449.61
	1000	1,448.33		2000	1,448.68		0800	1,449.61
	1100	1,448.33		2100	1,448.72		0900	1,449.61
	1200	1,448.34		2200	1,448.74		1000	1,449.61
	1300	1,448.34		2300	1,448.78		1100	1,449.61
	1400	1,448.36	6/25/95	0000	1,448.80		1200	1,449.61
	1500	1,448.35		0100	1,448.83		1300	1,449.61
	1600	1,448.37		0200	1,448.86		1400	1,449.61
	1700	1,448.37		0300	1,448.90		1500	1,449.60
	1800	1,448.38		0400	1,448.93		1600	1,449.60
	1900	1,448.37		0500	1,448.96		1700	1,449.58
	2000	1,448.38		0600	1,448.98		1800	1,449.58
	2100	1,448.38		0700	1,449.01		1900	1,449.59
	2200	1,448.37		0800	1,449.03		2000	1,449.58
	2300	1,448.36		0900	1,449.06		2100	1,449.58
6/23/95	0000	1,448.35		1000	1,449.09		2200	1,449.57
	0100	1,448.33		1100	1,449.12		2300	1,449.56
	0200	1,448.33		1200	1,449.15	6/28/95	0000	1,449.55
	0300	1,448.32		1300	1,449.18		0100	1,449.55
	0400	1,448.31		1400	1,449.22		0200	1,449.55
	0500	1,448.30		1500	1,449.25		0300	1,449.54
	0600	1,448.29		1600	1,449.29		0400	1,449.54
	0700	1,448.28		1700	1,449.31		0500	1,449.54
	0800	1,448.28		1800	1,449.34		0600	1,449.54
	0900	1,448.29		1900	1,449.36		0700	1,449.54
	1000	1,448.29		2000	1,449.40		0800	1,449.54
	1100	1,448.30		2100	1,449.43		0900	1,449.54
	1200	1,448.30		2200	1,449.45		1000	1,449.55
	1300	1,448.31		2300	1,449.47		1100	1,449.55
	1400	1,448.31	6/26/95	0000	1,449.49		1200	1,449.54
	1500	1,448.30		0100	1,449.51		1300	1,449.53
	1600	1,448.32		0200	1,449.53		1400	1,449.52
	1700	1,448.31		0300	1,449.55		1500	1,449.53
	1800	1,448.31		0400	1,449.57		1600	1,449.51
	1900	1,448.32		0500	1,449.60		1700	1,449.50
	2000	1,448.31		0600	1,449.62		1800	1,449.49
	2100	1,448.32		0700	1,449.64		1900	1,449.49
	2200	1,448.32		0800	1,449.65		2000	1,449.49
	2300	1,448.32		1100	1,449.63		2100	1,449.49
6/24/95	0000	1,448.31		1200	1,449.62		2200	1,449.48

Table 9. Water-level altitudes for Winchester pond B (west pond), June-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
6/28/95	2300	1,449.47	7/15/95	0600	1,449.68	7/17/95	1600	1,449.47
6/29/95	0000	1,449.46		0700	1,449.66		1700	1,449.44
	0100	1,449.46		0800	1,449.65		1800	1,449.44
	0200	1,449.45		0900	1,449.65		1900	1,449.41
	0300	1,449.44		1000	1,449.65		2000	1,449.40
	0400	1,449.44		1100	1,449.65		2100	1,449.40
	0500	1,449.43		1200	1,449.65		2200	1,449.38
	0600	1,449.42		1300	1,449.65		2300	1,449.38
	0700	1,449.41		1400	1,449.66	7/18/95	0000	1,449.36
	0800	1,449.41		1500	1,449.65		0100	1,449.35
	0900	1,449.41		1600	1,449.66		0200	1,449.35
	1000	1,449.40		1700	1,449.64		0300	1,449.34
	1100	1,449.40		1800	1,449.66		0400	1,449.34
7/13/95	0900	1,450.00		1900	1,449.65		0500	1,449.33
	1000	1,450.02		2000	1,449.65		0600	1,449.32
	1100	1,450.04		2100	1,449.66		0700	1,449.31
	1200	1,450.04		2200	1,449.66		0800	1,449.30
	1300	1,450.05		2300	1,449.65		0900	1,449.29
	1400	1,450.06	7/16/95	0000	1,449.66		1000	1,449.30
	1500	1,450.03		0100	1,449.65		1100	1,449.30
	1600	1,450.00		0200	1,449.65		1200	1,449.28
	1700	1,449.97		0300	1,449.65		1300	1,449.27
	1800	1,449.97		0400	1,449.65		1400	1,449.25
	1900	1,449.97		0500	1,449.65		1500	1,449.23
	2000	1,449.96		0600	1,449.65		1600	1,449.22
	2100	1,449.95		0700	1,449.64		1700	1,449.19
	2200	1,449.94		0800	1,449.65		1800	1,449.19
	2300	1,449.95		0900	1,449.65		1900	1,449.17
7/14/95	0000	1,449.95		1000	1,449.64		2000	1,449.16
	0100	1,449.93		1100	1,449.66		2100	1,449.14
	0200	1,449.93		1200	1,449.64		2200	1,449.14
	0300	1,449.94		1300	1,449.65		2300	1,449.16
	0400	1,449.94		1400	1,449.65	7/19/95	0000	1,449.15
	0500	1,449.93		1500	1,449.64		0100	1,449.14
	0600	1,449.93		1600	1,449.64		0200	1,449.14
	0700	1,449.93		1700	1,449.64		0300	1,449.15
	0800	1,449.93		1800	1,449.65		0400	1,449.15
	0900	1,449.92		1900	1,449.65		0500	1,449.14
	1000	1,449.93		2000	1,449.64		0600	1,449.14
	1100	1,449.93		2100	1,449.64		0700	1,449.14
	1200	1,449.91		2200	1,449.63		0800	1,449.14
	1300	1,449.90		2300	1,449.64		0900	1,449.14
	1400	1,449.87	7/17/95	0000	1,449.63		1000	1,449.14
	1500	1,449.87		0100	1,449.63		1100	1,449.15
	1600	1,449.86		0200	1,449.63		1200	1,449.12
	1700	1,449.83		0300	1,449.63		1300	1,449.10
	1800	1,449.81		0400	1,449.63		1400	1,449.08
	1900	1,449.79		0500	1,449.62		1500	1,449.08
	2000	1,449.78		0600	1,449.62		1600	1,449.06
	2100	1,449.77		0700	1,449.61		1700	1,449.04
	2200	1,449.76		0800	1,449.60		1800	1,448.96
	2300	1,449.75		0900	1,449.59		1900	1,448.99
7/15/95	0000	1,449.72		1000	1,449.59		2000	1,448.99
	0100	1,449.72		1100	1,449.56		2100	1,449.00
	0200	1,449.72		1200	1,449.55		2200	1,448.99
	0300	1,449.70		1300	1,449.53		2300	1,448.98
	0400	1,449.69		1400	1,449.50	7/20/95	0000	1,448.99
	0500	1,449.68		1500	1,449.47		0100	1,448.99

Table 9. Water-level altitudes for Winchester pond B (west pond), June-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
7/20/95	0200	1,448.99	7/22/95	1200	1,448.53	7/24/95	2200	1,448.32
	0300	1,448.98		1300	1,448.53		2300	1,448.33
	0400	1,448.99		1400	1,448.52	7/25/95	0000	1,448.33
	0500	1,448.98		1500	1,448.53		0100	1,448.32
	0600	1,448.98		1600	1,448.55		0200	1,448.32
	0700	1,448.97		1700	1,448.55		0300	1,448.32
	0800	1,448.96		1800	1,448.54		0400	1,448.32
	0900	1,448.95		1900	1,448.51		0500	1,448.31
	1000	1,448.95		2000	1,448.50		0600	1,448.31
	1100	1,448.95		2100	1,448.50		0700	1,448.30
	1200	1,448.94		2200	1,448.50		0800	1,448.30
	1300	1,448.93		2300	1,448.50		0900	1,448.30
	1400	1,448.86	7/23/95	0000	1,448.49		1000	1,448.29
	1500	1,448.87		0100	1,448.49		1100	1,448.28
	1600	1,448.84		0200	1,448.48		1200	1,448.26
	1700	1,448.86		0300	1,448.48		1300	1,448.25
	1800	1,448.81		0400	1,448.47		1400	1,448.23
	1900	1,448.82		0500	1,448.47		1500	1,448.21
	2000	1,448.79		0600	1,448.47		1600	1,448.20
	2100	1,448.78		0700	1,448.46		1700	1,448.21
	2200	1,448.78		0800	1,448.46		1800	1,448.17
	2300	1,448.77		0900	1,448.47		1900	1,448.17
7/21/95	0000	1,448.77		1000	1,448.46		2000	1,448.15
	0100	1,448.77		1100	1,448.46		2100	1,448.13
	0200	1,448.77		1200	1,448.46		2200	1,448.13
	0300	1,448.77		1300	1,448.47		2300	1,448.11
	0400	1,448.76		1400	1,448.47	7/26/95	0000	1,448.11
	0500	1,448.76		1500	1,448.48		0100	1,448.09
	0600	1,448.76		1600	1,448.46		0200	1,448.09
	0700	1,448.75		1700	1,448.47		0300	1,448.08
	0800	1,448.75		1800	1,448.47		0400	1,448.08
	0900	1,448.74		1900	1,448.49		0500	1,448.07
	1000	1,448.74		2000	1,448.48		0600	1,448.06
	1100	1,448.73		2100	1,448.48		0700	1,448.05
	1200	1,448.71		2200	1,448.48		0800	1,448.05
	1300	1,448.69		2300	1,448.48		0900	1,448.04
	1400	1,448.68	7/24/95	0000	1,448.48		1000	1,448.04
	1500	1,448.68		0100	1,448.48		1100	1,448.04
	1600	1,448.66		0200	1,448.47		1200	1,448.03
	1700	1,448.63		0300	1,448.48		1300	1,448.01
	1800	1,448.59		0400	1,448.47		1400	1,448.00
	1900	1,448.58		0500	1,448.47		1500	1,447.97
	2000	1,448.61		0600	1,448.47		1600	1,447.99
	2100	1,448.59		0700	1,448.46		1700	1,447.98
	2200	1,448.60		0800	1,448.45		1800	1,447.98
	2300	1,448.59		0900	1,448.44		1900	1,447.96
7/22/95	0000	1,448.58		1000	1,448.44		2000	1,447.95
	0100	1,448.59		1100	1,448.43		2100	1,447.95
	0200	1,448.58		1200	1,448.42		2200	1,447.95
	0300	1,448.57		1300	1,448.41		2300	1,447.95
	0400	1,448.57		1400	1,448.40	7/27/95	0000	1,447.94
	0500	1,448.56		1500	1,448.38		0100	1,447.94
	0600	1,448.55		1600	1,448.35		0200	1,447.94
	0700	1,448.54		1700	1,448.37		0300	1,447.94
	0800	1,448.53		1800	1,448.34		0400	1,447.94
	0900	1,448.53		1900	1,448.32		0500	1,447.93
	1000	1,448.53		2000	1,448.35		0600	1,447.93
	1100	1,448.53		2100	1,448.33		0700	1,447.93

Table 9. Water-level altitudes for Winchester pond B (west pond), June-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
7/27/95	0800	1,447.93	7/29/95	1800	1,447.54	8/1/95	0400	1,447.24
	0900	1,447.93		1900	1,447.53		0500	1,447.23
	1000	1,447.93		2000	1,447.52		0600	1,447.22
	1100	1,447.92		2100	1,447.52		0700	1,447.22
	1200	1,447.91		2200	1,447.49		0800	1,447.22
	1300	1,447.90		2300	1,447.48		0900	1,447.22
	1400	1,447.87	7/30/95	0000	1,447.48		1000	1,447.22
	1500	1,447.87		0100	1,447.47		1100	1,447.23
	1600	1,447.86		0200	1,447.46		1200	1,447.22
	1700	1,447.84		0300	1,447.46		1300	1,447.21
	1800	1,447.85		0400	1,447.45		1400	1,447.20
	1900	1,447.87		0500	1,447.45		1500	1,447.19
	2000	1,447.79		0600	1,447.44		1600	1,447.17
	2100	1,447.82		0700	1,447.42		1700	1,447.16
	2200	1,447.81		0800	1,447.41		1800	1,447.16
	2300	1,447.80		0900	1,447.41		1900	1,447.16
7/28/95	0000	1,447.80		1000	1,447.41		2000	1,447.17
	0100	1,447.78		1100	1,447.40		2100	1,447.14
	0200	1,447.78		1200	1,447.39		2200	1,447.16
	0300	1,447.77		1300	1,447.39		2300	1,447.15
	0400	1,447.77		1400	1,447.40	8/2/95	0000	1,447.16
	0500	1,447.76		1500	1,447.42		0100	1,447.16
	0600	1,447.75		1600	1,447.40		0200	1,447.15
	0700	1,447.73		1700	1,447.39		0300	1,447.15
	0800	1,447.73		1800	1,447.40		0400	1,447.15
	0900	1,447.72		1900	1,447.39		0500	1,447.14
	1000	1,447.71		2000	1,447.40		0600	1,447.14
	1100	1,447.71		2100	1,447.38		0700	1,447.14
	1200	1,447.71		2200	1,447.39		0800	1,447.13
	1300	1,447.68		2300	1,447.38		0900	1,447.13
	1400	1,447.68	7/31/95	0000	1,447.39		1000	1,447.12
	1500	1,447.66		0100	1,447.38		1100	1,447.11
	1600	1,447.68		0200	1,447.38		1200	1,447.10
	1700	1,447.67		0300	1,447.38		1300	1,447.10
	1800	1,447.66		0400	1,447.38		1400	1,447.08
	1900	1,447.65		0500	1,447.38		1500	1,447.06
	2000	1,447.64		0600	1,447.38		1600	1,447.05
	2100	1,447.63		0700	1,447.37		1700	1,447.07
	2200	1,447.64		0800	1,447.37		1800	1,447.04
	2300	1,447.64		0900	1,447.37		1900	1,447.05
7/29/95	0000	1,447.64		1000	1,447.37		2000	1,447.05
	0100	1,447.63		1100	1,447.36		2100	1,447.04
	0200	1,447.63		1200	1,447.36		2200	1,447.04
	0300	1,447.63		1300	1,447.35		2300	1,447.04
	0400	1,447.63		1400	1,447.35	8/3/95	0000	1,447.03
	0500	1,447.62		1500	1,447.33		0100	1,447.03
	0600	1,447.62		1600	1,447.31		0200	1,447.03
	0700	1,447.61		1700	1,447.29		0300	1,447.03
	0800	1,447.61		1800	1,447.26		0400	1,447.03
	0900	1,447.60		1900	1,447.27		0500	1,447.03
	1000	1,447.59		2000	1,447.27		0600	1,447.03
	1100	1,447.59		2100	1,447.26		0700	1,447.02
	1200	1,447.59		2200	1,447.26		0800	1,447.01
	1300	1,447.58		2300	1,447.26		0900	1,447.01
	1400	1,447.57	8/1/95	0000	1,447.26		1000	1,447.01
	1500	1,447.56		0100	1,447.26		1100	1,447.00
	1600	1,447.55		0200	1,447.25		1200	1,447.00
	1700	1,447.56		0300	1,447.24		1300	1,447.00

Table 9. Water-level altitudes for Winchester pond B (west pond), June-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
8/3/95	1400	1,447.00	8/5/95	2300	1,446.59	8/8/95	0900	1,446.31
	1500	1,447.02	8/6/95	0000	1,446.59		1000	1,446.31
	1600	1,447.01		0100	1,446.58		1100	1,446.31
	1700	1,446.97		0200	1,446.58		1200	1,446.30
	1800	1,446.97		0300	1,446.57		1300	1,446.29
	1900	1,446.97		0400	1,446.56		1400	1,446.28
	2000	1,446.96		0500	1,446.55		1500	1,446.27
	2100	1,446.95		0600	1,446.54		1600	1,446.29
	2200	1,446.95		0700	1,446.52		1700	1,446.26
	2300	1,446.94		0800	1,446.51		1800	1,446.26
8/4/95	0000	1,446.96		0900	1,446.49		1900	1,446.25
	0100	1,446.96		1000	1,446.49		2000	1,446.23
	0200	1,446.96		1100	1,446.48		2100	1,446.21
	0300	1,446.97		1200	1,446.48		2200	1,446.21
	0400	1,446.98		1300	1,446.49		2300	1,446.20
	0500	1,446.98		1400	1,446.48	8/9/95	0000	1,446.19
	0600	1,446.98		1500	1,446.45		0100	1,446.18
	0700	1,446.99		1600	1,446.47		0200	1,446.17
	0800	1,446.99		1700	1,446.45		0300	1,446.16
	0900	1,446.98		1800	1,446.46		0400	1,446.15
	1000	1,446.97		1900	1,446.47		0500	1,446.13
	1100	1,446.96		2000	1,446.49		0600	1,446.12
	1200	1,446.97		2100	1,446.49		0700	1,446.10
	1300	1,446.95		2200	1,446.48		0800	1,446.10
	1345	1,446.92		2300	1,446.48		0900	1,446.09
	1430	1,446.94	8/7/95	0000	1,446.48		1000	1,446.09
	1500	1,446.89		0100	1,446.49		1100	1,446.08
	1600	1,446.90		0200	1,446.49		1200	1,446.07
	1700	1,446.86		0300	1,446.49		1300	1,446.06
	1800	1,446.87		0400	1,446.49		1400	1,446.04
	1900	1,446.84		0500	1,446.49		1500	1,446.05
	2000	1,446.85		0600	1,446.49		1600	1,446.04
	2100	1,446.82		0700	1,446.49		1700	1,446.00
	2200	1,446.82		0800	1,446.48		1800	1,446.03
	2300	1,446.82		0900	1,446.48		1900	1,446.01
8/5/95	0000	1,446.81		1000	1,446.48		2000	1,445.98
	0100	1,446.81		1100	1,446.47		2100	1,445.97
	0200	1,446.80		1200	1,446.47		2200	1,445.97
	0300	1,446.80		1300	1,446.45		2300	1,445.97
	0400	1,446.78		1400	1,446.43	8/10/95	0000	1,445.96
	0500	1,446.78		1500	1,446.42		0100	1,445.95
	0600	1,446.77		1600	1,446.41		0200	1,445.95
	0700	1,446.74		1700	1,446.42		0300	1,445.94
	0800	1,446.74		1800	1,446.42		0400	1,445.94
	0900	1,446.73		1900	1,446.40		0500	1,445.93
	1000	1,446.72		2000	1,446.39		0600	1,445.92
	1100	1,446.70		2100	1,446.37		0700	1,445.92
	1200	1,446.69		2200	1,446.37		0800	1,445.91
	1300	1,446.67		2300	1,446.36		0900	1,445.90
	1400	1,446.67	8/8/95	0000	1,446.35		1000	1,445.90
	1500	1,446.65		0100	1,446.35		1100	1,445.90
	1600	1,446.64		0200	1,446.36		1200	1,445.88
	1700	1,446.63		0300	1,446.34		1300	1,445.87
	1800	1,446.62		0400	1,446.34		1400	1,445.86
	1900	1,446.61		0500	1,446.33		1500	1,445.84
	2000	1,446.60		0600	1,446.33		1600	1,445.86
	2100	1,446.59		0700	1,446.32		1700	1,445.82
	2200	1,446.59		0800	1,446.32		1800	1,445.80

Table 9. Water-level altitudes for Winchester pond B (west pond), June-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
8/10/95	1900	1,445.80	8/13/95	0500	1,445.45	8/15/95	1500	1,445.14
	2000	1,445.79		0600	1,445.44		1600	1,445.11
	2100	1,445.78		0700	1,445.42		1700	1,445.14
	2200	1,445.78		0800	1,445.41		1800	1,445.10
	2300	1,445.78		0900	1,445.41		1900	1,445.09
8/11/95	0000	1,445.77		1000	1,445.40		2000	1,445.10
	0100	1,445.77		1100	1,445.40		2100	1,445.07
	0200	1,445.77		1200	1,445.40		2200	1,445.07
	0300	1,445.76		1300	1,445.39		2300	1,445.06
	0400	1,445.75		1400	1,445.40	8/16/95	0000	1,445.05
	0500	1,445.75		1500	1,445.39		0100	1,445.05
	0600	1,445.74		1600	1,445.37		0200	1,445.04
	0700	1,445.73		1700	1,445.39		0300	1,445.04
	0800	1,445.72		1800	1,445.37		0400	1,445.03
	0900	1,445.73		1900	1,445.37		0500	1,445.03
	1000	1,445.72		2000	1,445.40		0600	1,445.02
	1100	1,445.71		2100	1,445.38		0700	1,445.00
	1200	1,445.72		2200	1,445.37		0800	1,445.00
	1300	1,445.71		2300	1,445.37		0900	1,444.99
	1400	1,445.71	8/14/95	0000	1,445.37		1000	1,444.99
	1500	1,445.67		0100	1,445.38		1100	1,444.97
	1600	1,445.67		0200	1,445.37		1200	1,444.96
	1700	1,445.66		0300	1,445.37		1300	1,444.95
	1800	1,445.64		0400	1,445.37		1400	1,444.90
	1900	1,445.66		0500	1,445.37		1500	1,444.94
	2000	1,445.66		0600	1,445.37		1600	1,444.92
	2100	1,445.65		0700	1,445.36		1700	1,444.91
	2200	1,445.65		0800	1,445.35		1800	1,444.91
	2300	1,445.65		0900	1,445.35		1900	1,444.85
8/12/95	0000	1,445.64		1000	1,445.35		2000	1,444.89
	0100	1,445.64		1100	1,445.36		2100	1,444.88
	0200	1,445.64		1200	1,445.33		2200	1,444.91
	0300	1,445.63		1300	1,445.34		2300	1,444.89
	0400	1,445.63		1400	1,445.33	8/17/95	0000	1,444.90
	0500	1,445.62		1500	1,445.29		0100	1,444.91
	0600	1,445.61		1600	1,445.29		0200	1,444.91
	0700	1,445.61		1700	1,445.27		0300	1,444.91
	0800	1,445.60		1800	1,445.27		0400	1,444.91
	0900	1,445.60		1900	1,445.25		0500	1,444.91
	1000	1,445.59		2000	1,445.25		0600	1,444.91
	1100	1,445.59		2100	1,445.23		0700	1,444.90
	1200	1,445.60		2200	1,445.24		0800	1,444.91
	1300	1,445.62		2300	1,445.25		0900	1,444.90
	1400	1,445.58	8/15/95	0000	1,445.24		1000	1,444.90
	1500	1,445.58		0100	1,445.23		1100	1,444.90
	1600	1,445.60		0200	1,445.24		1200	1,444.90
	1700	1,445.51		0300	1,445.23		1300	1,444.88
	1800	1,445.51		0400	1,445.23		1400	1,444.86
	1900	1,445.52		0500	1,445.23		1500	1,444.89
	2000	1,445.50		0600	1,445.22		1600	1,444.83
	2100	1,445.50		0700	1,445.21		1700	1,444.83
	2200	1,445.49		0800	1,445.20		1800	1,444.82
	2300	1,445.49		0900	1,445.21		1900	1,444.80
8/13/95	0000	1,445.48		1000	1,445.21		2000	1,444.80
	0100	1,445.47		1100	1,445.21		2100	1,444.79
	0200	1,445.46		1200	1,445.21		2200	1,444.79
	0300	1,445.46		1300	1,445.16		2300	1,444.79
	0400	1,445.45		1400	1,445.17	8/18/95	0000	1,444.79

Table 9. Water-level altitudes for Winchester pond B (west pond), June-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
8/18/95	0100	1,444.78	8/20/95	1100	1,444.12	8/22/95	2100	1,443.55
	0200	1,444.77		1200	1,444.10		2200	1,443.54
	0300	1,444.76		1300	1,444.10		2300	1,443.51
	0400	1,444.75		1400	1,444.09	8/23/95	0000	1,443.51
	0500	1,444.74		1500	1,444.11		0100	1,443.50
	0600	1,444.74		1600	1,444.11		0200	1,443.49
	0700	1,444.73		1700	1,444.11		0300	1,443.48
	0800	1,444.73		1800	1,444.10		0400	1,443.45
	0900	1,444.72		1900	1,444.08		0500	1,443.44
	1000	1,444.71		2000	1,444.09		0600	1,443.43
	1100	1,444.70		2100	1,444.08		0700	1,443.40
	1200	1,444.68		2200	1,444.08		0800	1,443.39
	1300	1,444.67		2300	1,444.08		0900	1,443.38
	1400	1,444.66	8/21/95	0000	1,444.07		1000	1,443.36
	1500	1,444.63		0100	1,444.07		1100	1,443.36
	1600	1,444.61		0200	1,444.07		1200	1,443.31
	1700	1,444.62		0300	1,444.07		1300	1,443.33
	1800	1,444.58		0400	1,444.07		1400	1,443.30
	1900	1,444.55		0500	1,444.07		1500	1,443.28
	2000	1,444.56		0600	1,444.06		1600	1,443.27
	2100	1,444.53		0700	1,444.06		1700	1,443.26
	2200	1,444.53		0800	1,444.05		1800	1,443.24
	2300	1,444.53		0900	1,444.05		1900	1,443.19
8/19/95	0000	1,444.51		1000	1,444.05		2000	1,443.18
	0100	1,444.51		1100	1,444.04		2100	1,443.16
	0200	1,444.49		1200	1,444.03		2200	1,443.15
	0300	1,444.48		1300	1,444.03		2300	1,443.13
	0400	1,444.48		1400	1,443.99	8/24/95	0000	1,443.11
	0500	1,444.46		1500	1,443.99		0100	1,443.10
	0600	1,444.45		1600	1,443.96		0200	1,443.09
	0700	1,444.43		1700	1,443.96		0300	1,443.07
	0800	1,444.43		1800	1,443.94		0400	1,443.05
	0900	1,444.42		1900	1,443.91		0500	1,443.04
	1000	1,444.42		2000	1,443.89		0600	1,443.03
	1100	1,444.40		2100	1,443.88		0700	1,443.00
	1200	1,444.39		2200	1,443.87		0800	1,442.99
	1300	1,444.39		2300	1,443.86		0900	1,442.97
	1400	1,444.37	8/22/95	0000	1,443.85		1000	1,442.96
	1500	1,444.31		0100	1,443.84		1100	1,442.96
	1600	1,444.36		0200	1,443.82		1200	1,442.94
	1700	1,444.33		0300	1,443.81		1300	1,442.92
	1800	1,444.32		0400	1,443.80		1400	1,442.87
	1900	1,444.29		0500	1,443.79		1500	1,442.85
	2000	1,444.29		0600	1,443.77		1600	1,442.84
	2100	1,444.28		0700	1,443.75		1700	1,442.81
	2200	1,444.27		0800	1,443.75		1800	1,442.83
	2300	1,444.25		0900	1,443.74		1900	1,442.80
8/20/95	0000	1,444.24		1000	1,443.73		2000	1,442.78
	0100	1,444.23		1100	1,443.71	8/30/95	1315	1,440.63
	0200	1,444.22		1200	1,443.70		1400	1,440.57
	0300	1,444.21		1300	1,443.70		1500	1,440.54
	0400	1,444.19		1400	1,443.68		1600	1,440.53
	0500	1,444.18		1500	1,443.63		1700	1,440.54
	0600	1,444.17		1600	1,443.70		1800	1,440.48
	0700	1,444.15		1700	1,443.62		1900	1,440.49
	0800	1,444.15		1800	1,443.58		2000	1,440.45
	0900	1,444.13		1900	1,443.57		2100	1,440.43
	1000	1,444.12		2000	1,443.56		2200	1,440.42

Table 9. Water-level altitudes for Winchester pond B (west pond), June-September, 1995--*Continued*

Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude	Date	Time (24 hour)	Water-level altitude
8/30/95	2300	1,440.40	9/2/95	0400	1,439.50	9/4/95	1000	1,439.29
8/31/95	0000	1,440.39		0500	1,439.48		1100	1,439.32
	0100	1,440.38		0600	1,439.45		1200	1,439.31
	0200	1,440.36		0700	1,439.43		1300	1,439.30
	0300	1,440.35		0800	1,439.40		1400	1,439.30
	0400	1,440.34		0900	1,439.37		1500	1,439.29
	0500	1,440.33		1000	1,439.36		1600	1,439.31
	0600	1,440.32		1100	1,439.37		1700	1,439.31
	0700	1,440.30		1200	1,439.36		1800	1,439.30
	0800	1,440.28		1300	1,439.36		1900	1,439.33
	0900	1,440.27		1400	1,439.32		2000	1,439.30
	1000	1,440.24		1600	1,439.30		2100	1,439.30
	1100	1,440.22		1700	1,439.30		2200	1,439.30
	1200	1,440.19		1800	1,439.31		2300	1,439.30
	1300	1,440.18		1900	1,439.32	9/5/95	0000	1,439.30
	1400	1,440.16		2000	1,439.31		0100	1,439.30
	1500	1,440.12		2100	1,439.30		0200	1,439.30
	1600	1,440.13		2200	1,439.31		0300	1,439.30
	1700	1,440.11		2300	1,439.31		0400	1,439.29
	1800	1,440.09	9/3/95	0000	1,439.31		0500	1,439.29
	1900	1,440.05		0100	1,439.31		0600	1,439.29
	2000	1,440.04		0200	1,439.30		0700	1,439.28
	2100	1,440.02		0300	1,439.31		0800	1,439.28
	2200	1,440.00		0400	1,439.30		0900	1,439.29
	2300	1,440.00		0500	1,439.30		1000	1,439.28
9/1/95	0000	1,439.98		0600	1,439.30		1100	1,439.27
	0100	1,439.96		0700	1,439.30		1200	1,439.25
	0200	1,439.95		0800	1,439.29		1300	1,439.22
	0300	1,439.94		0900	1,439.30		1400	1,439.23
	0400	1,439.92		1000	1,439.30		1500	1,439.20
	0500	1,439.91		1100	1,439.30		1600	1,439.20
	0600	1,439.90		1200	1,439.30		1700	1,439.21
	0700	1,439.87		1300	1,439.30		1800	1,439.17
	0800	1,439.86		1400	1,439.31		1900	1,439.15
	0900	1,439.83		1500	1,439.31		2000	1,439.14
	1000	1,439.81		1600	1,439.32		2100	1,439.13
	1100	1,439.81		1700	1,439.33		2200	1,439.13
	1200	1,439.77		1800	1,439.33		2300	1,439.12
	1300	1,439.75		1900	1,439.32	9/6/95	0000	1,439.11
	1400	1,439.78		2000	1,439.31		0100	1,439.11
	1500	1,439.74		2100	1,439.31		0200	1,439.09
	1600	1,439.70		2200	1,439.31		0300	1,439.08
	1700	1,439.68		2300	1,439.30		0400	1,439.08
	1800	1,439.65	9/4/95	0000	1,439.30		0500	1,439.07
	1900	1,439.63		0100	1,439.30		0600	1,439.05
	2000	1,439.62		0200	1,439.30		0700	1,439.03
	2100	1,439.61		0300	1,439.30		0800	1,439.03
	2200	1,439.60		0400	1,439.30		0900	1,439.05
	2300	1,439.58		0500	1,439.29		1000	1,439.05
9/2/95	0000	1,439.56		0600	1,439.30		1100	1,439.06
	0100	1,439.55		0700	1,439.28		1130	1,439.03
	0200	1,439.54		0800	1,439.29			
	0300	1,439.53		0930	1,439.30			