

**WATER-QUALITY DATA,
SAN JOAQUIN VALLEY,
CALIFORNIA,
APRIL 1987 TO
SEPTEMBER 1988**



**U.S. GEOLOGICAL SURVEY
Open-File Report 91-74**

REGIONAL AQUIFER-SYSTEM ANALYSIS

**Prepared in cooperation with the
SAN JOAQUIN VALLEY DRAINAGE PROGRAM**

This report was prepared by the U.S. Geological Survey in cooperation with the San Joaquin Valley Drainage Program and as part of the Regional Aquifer-System Analysis Program of the U.S. Geological Survey.

The San Joaquin Valley Drainage Program was established in mid-1984 and is a cooperative effort of the U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Geological Survey, California Department of Fish and Game, and California Department of Water Resources. The purposes of the Program are to investigate the problems associated with the drainage of agricultural lands in the San Joaquin Valley and to develop solutions to those problems. Consistent with these purposes, program objectives address the following key areas: (1) Public health, (2) surface- and ground-water resources, (3) agricultural productivity, and (4) fish and wildlife resources.

Inquiries concerning the San Joaquin Valley Drainage Program may be directed to:

San Joaquin Valley Drainage Program
Federal-State Interagency Study Team
2800 Cottage Way, Room W-2143
Sacramento, California 95825-1898

The Regional Aquifer-System Analysis (RASA) Program of the U.S. Geological Survey was started in 1978 following a congressional mandate to develop quantitative appraisals of the major ground-water systems of the United States. The RASA Program represents a systematic effort to study a number of the Nation's most important aquifer systems, which in aggregate underlie much of the country and which represent an important component of the Nation's total water supply. In general, the boundaries of these studies are identified by the hydrologic extent of each system, and accordingly transcend the political subdivisions to which investigations have often arbitrarily been limited in the past. The broad objective for each study is to assemble geologic, hydrologic, and geochemical information, to analyze and develop an understanding of the system, and to develop predictive capabilities that will contribute to an effective management of the system. The Central Valley RASA study, which focused on studying the hydrology and geochemistry of ground water in the Central Valley of California, began in 1979. Phase II of the Central Valley RASA began in 1984 and is in progress. The focus during this second phase is on more detailed study of the hydrology and geochemistry of ground water in the San Joaquin Valley, which is the southern half of the Central Valley.

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By L.R. Shelton and L.K. Miller

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Dallas L. Peck, *Director*

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Conversion Factors, Vertical Datum, and Water-Quality Information

Conversion Factors

	Multiply	By	To obtain
acre		0.4047	square hectometer
cubic foot per second (FT ³ /S, ft ³ /s)		28.32	liter per second
foot (FT, ft)		0.3048	meter
inch		25.4	millimeter (MM, mm)
mile (MI, mi)		1.609	kilometer
square mile (MI ² , mi ²)		2.590	square kilometer
ton (short)		0.9078	metric ton
ton per day (T/DAY)		0.9078	metric ton per day

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

$$^{\circ}\text{F}=1.8(^{\circ}\text{C})+32.$$

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 concentration is given in milligrams per liter (MG/L, mg/L) or micrograms per liter (UG/L, µg/L). Milligrams and micrograms per liter are units expressing the weight of the solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. Micrograms per liter is equivalent to "parts per billion."

WATER-QUALITY DATA, SAN JOAQUIN VALLEY, CALIFORNIA, APRIL 1987 TO SEPTEMBER 1988

By L.R. Shelton and L.K. Miller

Abstract

Water-quality data were collected at numerous surface-water and ground-water sites in the San Joaquin Valley, California, from April 1987 to September 1988. Streamflow was measured and water samples were collected for analysis of major ions, trace elements, suspended sediments, and some pesticides at 11 continuing-record sites on the San Joaquin River and major tributaries. Onsite measurements were made and water samples were collected for analysis of major ions, trace elements, and some pesticides at 163 ground-water sites in the western and southern San Joaquin Valley.

INTRODUCTION

Agricultural drainage problems in the San Joaquin Valley, California, have attracted national attention since 1983, when selenium in water from subsurface tile drainage systems in the central part of the western San Joaquin Valley was found to have toxic effects on waterfowl at Kesterson Reservoir (Presser and Barnes, 1985; Ohlendorf and others, 1986). A Federal and State of California interagency study, initiated in 1984 aimed at assessing management options for agricultural drainage in the valley. The U.S. Geological Survey is conducting a comprehensive investigation of the hydrology and geochemistry of the San Joaquin Valley as part of the Regional Aquifer-System Program and in cooperation with the interagency San Joaquin Valley Drainage Program. A bibliography of reports published as part of this investigation is in the appendix. Studies conducted as part of the investigation have required collection of extensive hydrologic and water-quality data, some of which are included in reports listed in the bibliography.

The purpose of this report is to make available the water-quality data collected as part of the San Joaquin

Valley studies from April 1987 through September 1988. Data collected from March 1985 to March 1987 are published in Shelton and Miller (1988). The data include onsite measurements of in situ conditions and analysis results of major ions, trace elements, and selected organic contaminants for 11 continuing-record sites on the San Joaquin River and major tributaries and for 163 ground-water sites. Six continuing-record sites are on the lower San Joaquin River and five are on major tributaries near the mouth to the San Joaquin River (fig. 1). Information was collected at the continuing-record sites as often as twice each month for major ions and trace elements and continuously for specific conductance and water temperature. All 11 continuing-record sites are stream-gaging stations where continuous streamflow data were collected. Ground-water data were collected on various dates from wells in the western and southern San Joaquin Valley (fig. 2).

SITE-NUMBERING SYSTEM

Each site where data were collected is assigned a unique identification number. The downstream-order system is used for continuing-record surface-water sites, and the latitude-longitude system and the rectangular system for the subdivision of public land are used for ground-water sites.

SURFACE WATER

Identification numbers are assigned to continuing-record sites in a downstream direction along the main stream. All sites on a tributary entering upstream from a mainstream site are assigned numbers before that site. A station on a tributary that enters between two mainstream sites is assigned numbers between

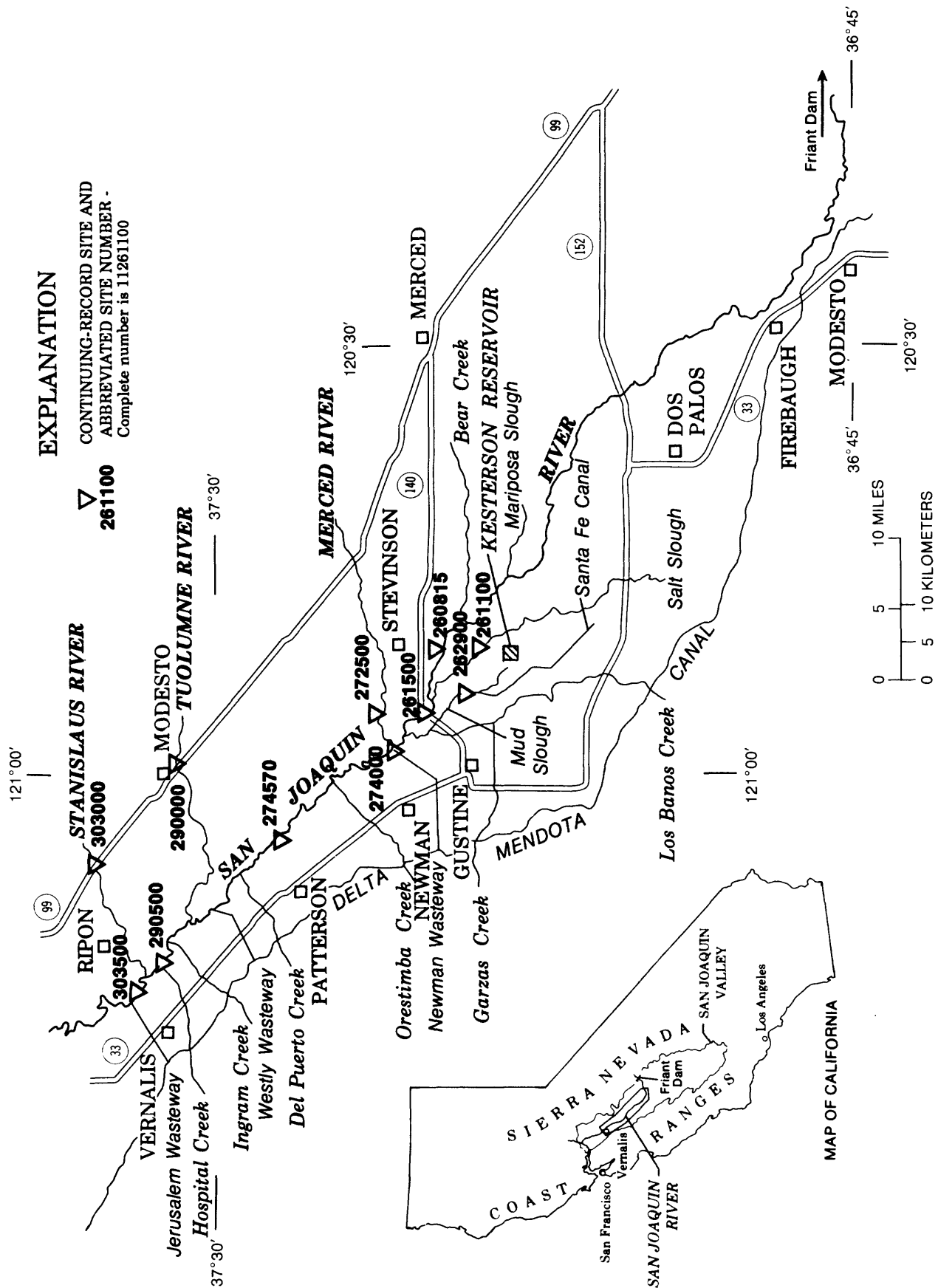


Figure 1. Location of surface-water quality sites.

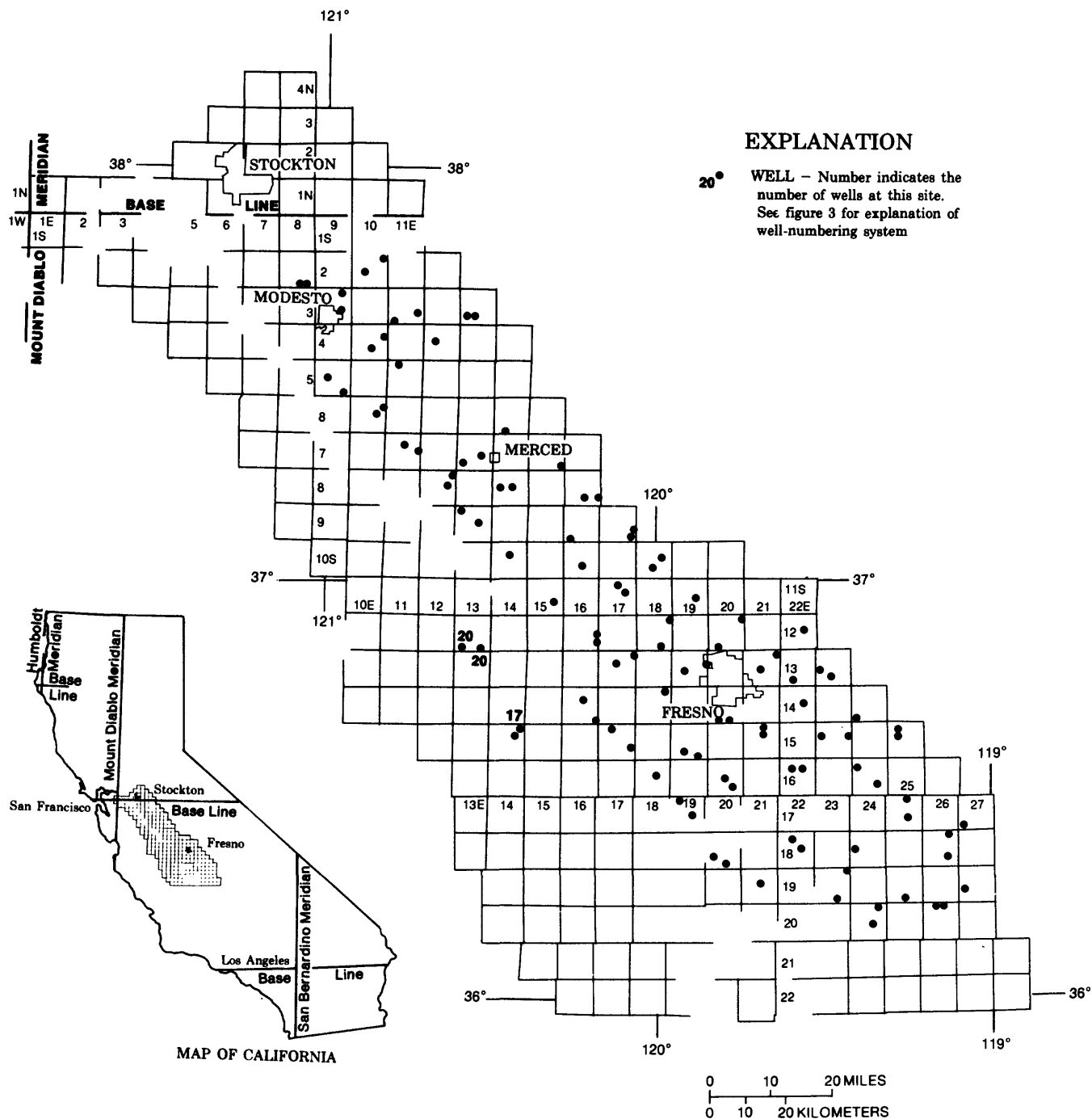


Figure 2. Location of ground-water quality sites.

them. The complete eight-digit number for each site, such as 11261100, includes the two-digit part number "11" plus the six-digit downstream order number "261100." The part number designates the major river basin; for example, part "11" is in the Pacific slope basins in California.

GROUND WATER

Ground-water sites in California are assigned numbers according to their location on the rectangular system for the subdivision of public land. For example, in the number 004S012E17E01M, the first

four characters indicate the township, north or south (T.4 S.); the next four characters indicate the range, east or west (R.12 E.); the next two digits indicate the section (sec.17); and the letter following the section number indicates the 40-acre subdivision of the section. Within each 40-acre tract, the wells are numbered sequentially, as indicated by the final two digits. The final letter indicates the base line and meridian. Most of the study area lies south and east of the Mount Diablo (M) base line and meridian. This well-numbering system is shown in figure 3.

Temporary wells were drilled for this study. Following the section, a field number was assigned to each well (for example, 012S013E35 FYB-B1). Agricultural drains are identified by the word drain, then township, range, and section location. Following the section number is a dash, then the sequence number of the drain. This is followed by a space, then the baseline and meridian designation (for example, drain 012S013E35-1 M).

Ground-water sites also are assigned identification numbers according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude; the next seven digits denote degrees, minutes, and seconds of longitude; and the last two digits (assigned sequentially) identify different sites within a 1-second grid. This station number, once assigned, has no locational significance.

DATA COLLECTION

Care must be taken to assure that the water-quality data obtained represent the in situ quality of the water. Water temperature, specific conductance, pH, dissolved oxygen, and alkalinity were measured on site while the samples were being collected. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures are followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. These procedures are described by Guy and Norman (1970); and Wood (1976). Detailed information on collecting, treating, and shipping samples may be obtained from the U.S. Geological Survey, Sacramento, California.

SURFACE WATER

Records of surface-water quality involve a variety of data types and measurement frequencies. Water samples were obtained using approved U.S.

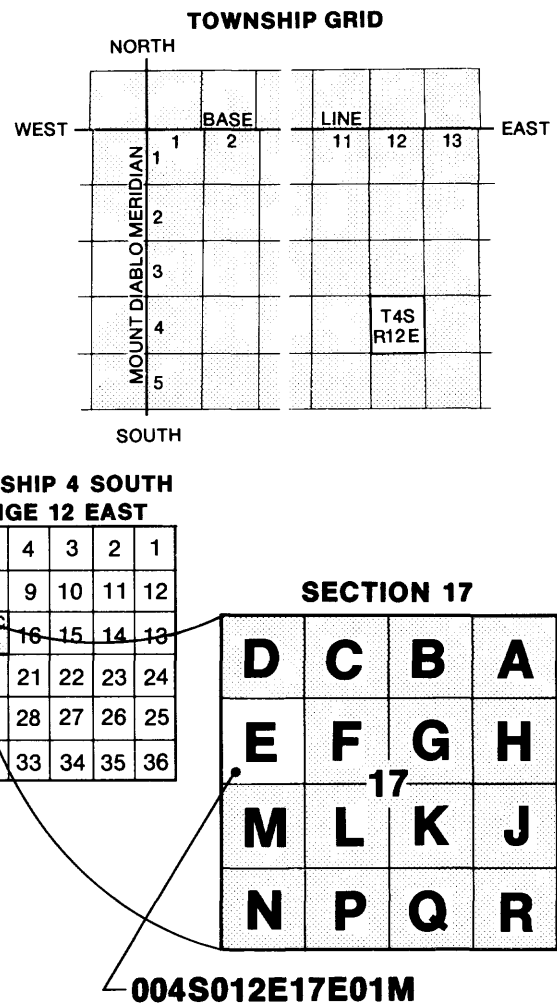


Figure 3. Well-numbering system.

Geological Survey samplers of several different types depending on the stream depth, velocities, and types of analyses. The concentration of solutes at different locations in the stream cross section may vary greatly with different rates of streamflow, depending on the source of material and the turbulence and mixing of the stream. To ensure a representative sample, several verticals in the stream cross section were composited to achieve an accurate mean concentration of suspended materials and for use in calculating load. The composite sample was split into subsamples using the U.S. Geological Survey chum splitter. These subsamples were analyzed for water chemistry in the U.S. Geological Survey Laboratory in Arvada, Colorado. The laboratory uses standard U.S. Geological Survey techniques and guidelines described in Skougstad and others (1979); Fishman and Bradford (1982); Friedman and Erdmann (1982); Wershaw and others (1987).

Suspended-sediment concentrations and the proportion of sediment consisting of particles less than 0.062 mm in diameter (the break between silt and sand) are determined from depth-integrated samples. These samples were composited and split into subsamples for analyses as described above. This procedure maintains the continuity between suspended-sediment results and suspended chemical concentrations. Sediment samples were analyzed in the U.S. Geological Survey sediment laboratory, Salinas, California, using standard methods (Guy, 1969; Guy and Norman, 1970).

The 11 continuing-record sites are equipped with digital monitors. The maximum, minimum, and mean values for specific conductance and water temperature are the daily mean of hourly recorded measurements. Estimated values were determined using streamflow, air temperature, instantaneous values, or data from nearby sites and are identified in table 1 where only mean values exist for that day. Two monitoring sites are located on the San Joaquin River near Newman. One site is 0.6 mile upstream of the Merced River and the other 1.2 miles downstream. These two sites were necessary to understand the dilution and mixing caused by the Merced River. Profiles of water temperature, pH, specific conductance, and dissolved oxygen were collected for the continuing-record sites during various seasons and streamflows. The profiles document the variation of water quality of each stream cross section. This is essential to determine the number of verticals to be sampled in each cross section to ensure a representative composite sample. This information is available on request.

Streamflow data, when available, are listed in table 1 (at back of report). Instantaneous streamflow may be measured or obtained from a rated streamflow curve. Procedures for measuring streamflow are described in U.S. Geological Survey publications on Techniques of Water-Resources Investigations and Water-Supply Papers (Carter and Davidian, 1968; Buchanan and Somers, 1968 and 1969; Rantz, 1982; Kennedy, 1983).

GROUND WATER

Samples of ground water were collected from existing production wells and observation wells, which were drilled or jetted where inadequate areal coverage existed. The production wells primarily were for irrigation or domestic use and had permanently installed pumps. These wells generally were

screened in the highest yielding water-bearing formation. The observation wells were screened in a select water-bearing formation and were sampled using a portable, submersible bladder or peristaltic pump. Onsite measurements were made at all ground-water sites using an atmosphere free flow-through chamber. These chambers prevent aeration and oxidation while monitoring the physical condition of the sampled water. Several well casing volumes of water were removed from both existing production and observation wells before samples were collected; this ensures that aquifer water was collected during sampling (Keys and MacCary, 1971; Stallman, 1971; Zohdy and others, 1974; Wood, 1976; Reed, 1980).

DATA PRESENTATION

Chemical-quality data in this report represent water-quality conditions at the time of sampling. Errors in the data are updated if discovered after publication. Appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, DIS, WATSTORE, and by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to ensure the most recent updates. Definitions of terms used in this report are in Hunter and others (1988).

A less than symbol (<) appearing before a value indicates the lowest detection limit for the analytical method used for that constituent. Sometimes the constituents dissolved value is greater than its reported total value. This results from an inherent variability in analytical methods.

Data for the 11 continuing-record sites on the San Joaquin River and major tributaries are presented in table 1. Historical information is provided in descriptive headings for each site. These descriptive headings include site location, drainage area, period of record, period of daily record and type of data instrumentation, cooperating agencies, remarks, and extremes for the period of daily record for specific conductance and water temperature. Data obtained at a frequency less than daily are presented first. Daily values of specific conductance and water temperature then follow in sequence. Daily mean streamflows for Salt Slough at State Highway 165, near Stevinson (11261100); San Joaquin River at Fremont Ford Bridge (11261500); Mud Slough near Gustine (11262900); Merced River near Stevinson (11272500);

San Joaquin River near Newman (11274000); Tuolumne River at Modesto (11290000); Stanislaus River at Ripon (11303000); and San Joaquin River near Vernalis (11303500) are available in Hunter and others (1988) and Mullen and others (1989). Daily mean streamflows from other sites are available from the cooperating agencies listed in the table headings.

Specific conductance and dissolved-solids concentration generally are inversely related to streamflow. A comparison of monthly mean streamflows during the study period to long-term median of monthly mean streamflows in the San Joaquin River near Vernalis is shown in figure 4 to illustrate long-term flow patterns.

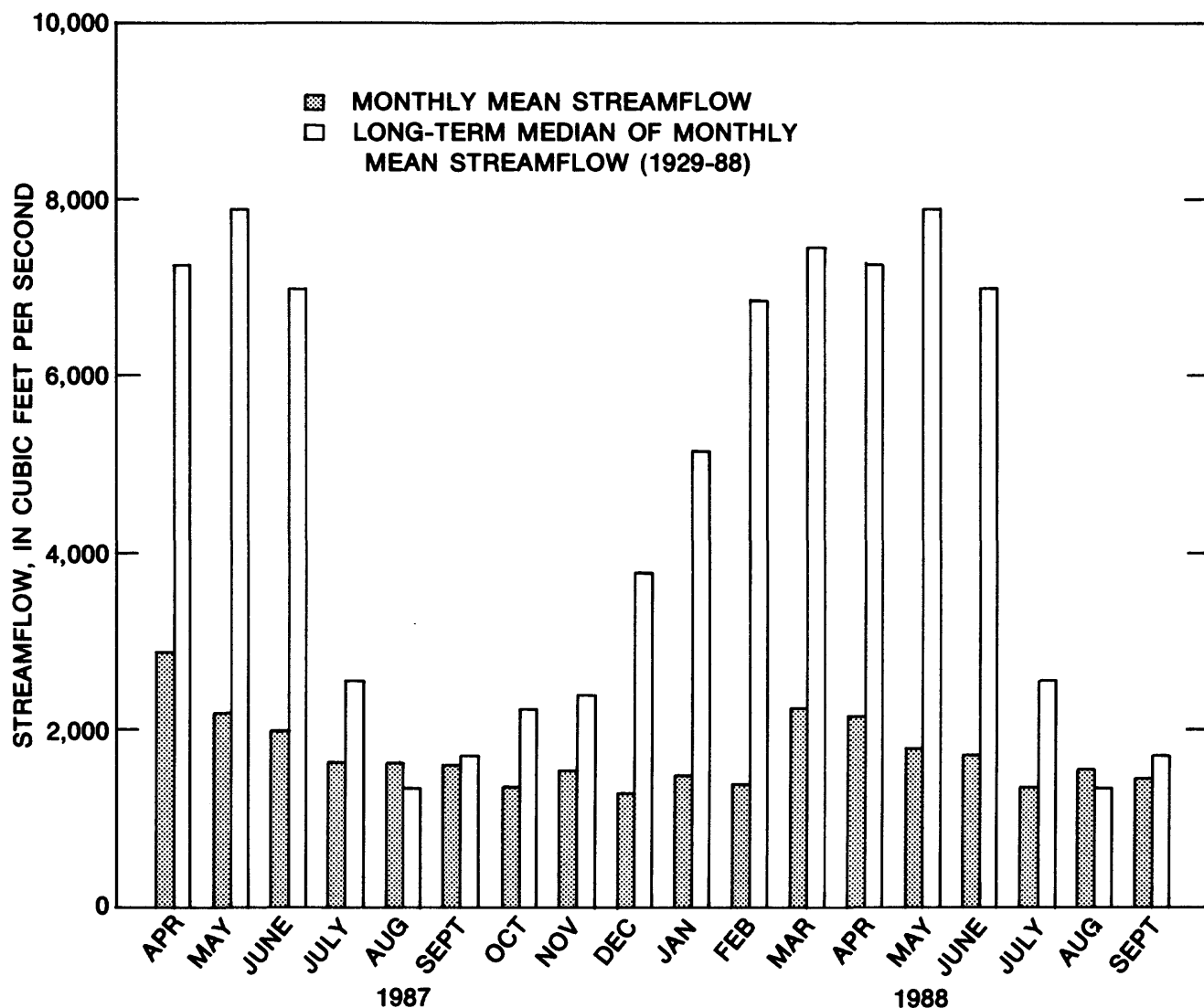


Figure 4. Monthly mean streamflow and long-term median (60 years) of monthly mean streamflow for the San Joaquin River near Vernalis.

Water-quality data for ground-water sites are shown in table 2 (at back of report). Each site is published with its well number and station number (latitude/longitude). The change in the quality and movement of ground water ordinarily is slow, therefore most sites were sampled only once.

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Table 1. Water-quality records at continuing-record sites**SAN JOAQUIN RIVER BASIN****11260815 SAN JOAQUIN RIVER NEAR STEVINSON, CA**

LOCATION.--Lat 37°14'52", long 120°51'00", in NE 1/4 SE 1/4 sec. 27, T.7 S., R.10 E., Merced County, Hydrologic Unit 18040001, on left bank at bridge on State Highway 165, and 2.0 mi south of Stevinson.

DRAINAGE AREA.--7,388 mi², approximately.

PERIOD OF RECORD.--June 1985 to September 1988.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1985 to September 1988.

WATER TEMPERATURE: October 1985 to September 1988.

INSTRUMENTATION.--Minimonitor recorder since October 1985.

REMARKS.--Periods when maximums and/or minimums were not recorded were due to equipment malfunction.

COOPERATION.--Water-discharge records provided by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,200 microsiemens, July 1, 1988; minimum daily, 48 microsiemens, Apr. 5, 10, 1986.

WATER TEMPERATURE: Maximum recorded, 31.0 °C, June 19, 1988; minimum recorded, 3.0 °C, Dec. 13, 1987.

WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS, TOTAL (MG/L AS CaCO ₃)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO ₃	CALCIUM, DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)
APR 1987												
21...	1400	42	2170	8.2	23.5	765	11.4	440	210	94	50	260
MAY												
21...	0930	20	1280	8.3	21.5	760	7.3	230	0	52	24	180
JUN												
16...	1330	27	1240	8.4	25.0	760	11.8	250	70	55	27	150
JUL												
22...	1000	8.1	1400	8.2	23.0	760	--	230	18	46	27	210
AUG												
18...	1300	21	1220	8.6	25.5	760	14.4	170	0	35	21	150
SEP												
22...	1245	41	403	8.4	24.0	760	10.6	88	0	21	8.6	49
OCT												
20...	1345	5.7	590	7.7	21.0	760	9.8	79	0	21	6.5	98
NOV												
17...	1415	4.4	1440	8.1	13.0	760	9.0	190	0	48	18	240
DEC												
15...	1415	28	1000	7.9	8.0	760	11.5	180	3	41	20	130
JAN 1988												
21...	0815	118	522	7.8	6.5	770	11.6	130	0	29	13	56
FEB												
17...	1330	24	1200	8.1	12.5	770	11.4	240	33	56	25	160
MAR												
14...	1430	15	1370	8.2	17.5	760	11.0	280	26	64	28	180
APR												
19...	1400	11	1600	8.3	18.0	755	12.3	430	160	100	43	240
MAY												
18...	1215	9.0	1500	8.4	23.0	760	10.8	270	93	54	34	200
JUN												
22...	1130	9.0	1910	8.5	26.0	755	9.2	340	73	73	39	280
JUL												
19...	1030	7.5	1740	8.4	29.5	760	8.0	280	120	47	39	240
AUG												
24...	1115	7.8	1640	8.6	26.5	760	8.0	240	0	39	35	230
SEP												
27...	1130	2.1	1540	8.4	22.5	765	9.7	210	0	40	26	240

Table 1. Water-quality records at continuing-record sites--Continued

11260815 SAN JOAQUIN RIVER NEAR STEVINSON, CA--Continued

WATER QUALITY DATA												
DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L AS CAC03)	SULFATE, DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 °C, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)
APR 1987												
21...	56	6	4.4	228	200	420	0.3	14	1190	136	1.62	<0.10
MAY												
21...	63	5	5.0	248	77	220	0.4	17	750	40.5	1.02	<0.10
JUN												
16...	56	4	4.2	179	110	220	0.3	15	678	49.1	0.92	<0.10
JUL												
22...	66	6	3.6	208	120	260	0.5	10	818	17.9	1.11	<0.10
AUG												
18...	65	5	4.5	472	110	210	0.4	14	671	37.3	0.91	0.35
SEP												
22...	53	2	4.0	124	25	37	0.2	17	242	27.1	0.33	<0.10
OCT												
20...	72	5	2.7	174	28	83	0.3	17	349	5.37	0.47	<0.10
NOV												
17...	72	8	4.5	305	89	280	0.6	17	868	10.3	1.18	<0.10
DEC												
15...	59	4	6.5	182	91	160	0.3	18	574	42.8	0.78	0.22
JAN 1988												
21...	47	2	6.9	143	45	55	0.2	17	312	99.4	0.42	0.92
FEB												
17...	58	5	6.8	210	120	180	0.4	16	708	45.7	0.96	0.66
MAR												
14...	58	5	6.1	249	120	190	0.4	24	820	33.2	1.12	0.91
APR												
19...	55	5	4.4	269	116	280	0.3	18	1270	39.4	1.73	<0.50
MAY												
18...	61	5	4.7	182	140	290	0.4	10	862	20.9	1.17	<0.10
JUN												
22...	64	7	5.0	270	160	320	0.6	21	1140	27.7	1.55	<0.10
JUL												
19...	65	6	4.7	161	180	360	0.4	4.8	1020	20.7	1.39	<0.10
AUG												
24...	67	7	4.4	260	150	340	0.4	1.1	929	19.6	1.26	<0.10
SEP												
27...	71	7	4.1	240	110	280	0.6	30	871	4.94	1.18	<0.10

Table 1. Water-quality records at continuing-record sites--Continued

11260815 SAN JOAQUIN RIVER NEAR STEVINSON, CA--Continued

DATE	WATER QUALITY DATA											
	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, AM- MONIA + ORGANIC, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC, TOTAL (MG/L AS C)	CHLOR-A PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	SED. SUSP., SIEVE DIAM. % FINER THAN 0.062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
APR 1987												
21...	0.5	0.06	1.3	0.27	0.18	0.14	7.9	8.3	1.7	99	92	11
MAY												
21...	0.02	0.03	1.6	0.61	0.48	0.43	10	44	6.8	96	25	1.4
JUN												
16...	0.07	0.09	0.80	0.44	0.33	0.28	16	110	26	82	343	25
JUL												
22...	0.02	0.03	2.0	0.37	0.18	0.15	14	16	1.9	81	24	0.52
AUG												
18...	0.34	0.44	4.3	0.46	0.10	0.04	15	170	16	98	290	16
SEP												
22...	<0.01	--	1.9	0.48	0.33	0.26	9.3	150	26	--	--	--
OCT												
20...	0.13	0.17	3.2	0.19	0.11	0.12	7.4	43	5.8	95	617	9.5
NOV												
17...	0.02	0.03	1.6	0.24	0.19	0.15	11	--	--	64	37	0.44
DEC												
15...	0.41	0.53	1.4	0.44	0.36	0.30	8.0	9.1	0.60	100	26	1.9
JAN 1988												
21...	0.81	1.0	1.9	3.7	0.64	0.56	11	53	2.9	--	--	--
FEB												
17...	0.12	0.15	1.8	0.45	0.29	0.24	12	24	9.4	96	34	2.2
MAR												
14...	0.18	0.23	1.6	0.72	0.45	0.42	10	42	5.9	91	26	1.1
APR												
19...	<0.12	0.05	1.5	0.31	0.18	0.15	7.0	97	17	91	27	0.84
MAY												
18...	0.03	0.04	1.0	0.35	0.28	0.24	11	68	4.9	99	19	0.46
JUN												
22...	<0.01	--	2.0	0.53	0.34	0.29	14	12	4.3	68	29	0.70
JUL												
19...	<0.01	--	1.6	0.32	0.05	0.03	14	44	3.2	72	31	0.63
AUG												
24...	0.01	0.01	1.5	0.20	0.05	0.03	12	14	2.1	68	33	0.69
SEP												
27...	<0.01	--	0.80	0.27	0.05	0.02	12	15	2.5	56	44	0.25

Table 1. Water-quality records at continuing-record sites--*Continued*

11260815 SAN JOAQUIN RIVER NEAR STEVINSON, CA--*Continued*

WATER QUALITY DATA									
DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, TOTAL (UG/L AS AS)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
APR 1987									
21...	640	<10	7	7	300	300	4	<1	<1
MAY									
21...	480	<10	14	12	240	230	4	6	1
JUN									
16...	5000	<10	11	11	240	200	9	13	1
JUL									
22...	450	<10	11	11	320	310	2	4	<1
AUG									
18...	8500	20	11	7	300	290	2	13	1
SEP									
22...	870	40	4	6	110	70	<1	6	<1
OCT									
20...	--	20	8	5	120	120	<1	24	1
NOV									
17...	620	<10	8	8	240	280	2	9	<1
DEC									
15...	960	10	6	5	250	240	5	5	<1
JAN 1988									
21...	7300	140	5	3	80	80	15	15	2
FEB									
17...	940	<10	5	5	340	320	3	5	1
MAR									
14...	470	<10	8	6	240	270	3	4	3
APR									
19...	2300	<10	5	4	--	270	9	5	1
MAY									
18...	340	<10	9	9	290	280	1	5	1
JUN									
22...	500	10	13	12	320	350	<1	4	<1
JUL									
19...	480	20	6	8	350	380	13	4	1
AUG									
24...	600	30	9	8	370	340	4	5	1
SEP									
27...	770	<10	10	8	390	360	2	5	<1

Table 1. Water-quality records at continuing-record sites--*Continued*

11260815 SAN JOAQUIN RIVER NEAR STEVINSON, CA--*Continued*

WATER QUALITY DATA									
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM, TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY, DIS- SOLVED (UG/L AS HG)
APR 1987									
21...	1000	20	<5	10	--	620	80	0.2	<0.1
MAY									
21...	650	6	<5	10	14	700	140	0.1	<0.1
JUN									
16...	7100	18	<5	20	14	800	260	<0.1	0.1
JUL									
22...	380	<3	7	20	15	650	230	1.0	<0.1
AUG									
18...	9800	17	<5	20	10	250	200	<0.1	<0.1
SEP									
22...	5400	40	<5	<10	<4	170	4	<0.1	<0.1
OCT									
20...	1900	46	<5	20	<4	840	270	<0.1	<0.1
NOV									
17...	930	5	<5	<10	10	290	16	<0.1	<0.1
DEC									
15...	1100	24	<5	<10	16	110	48	<0.1	<0.1
JAN 1988									
21...	9400	140	66	20	5	70	47	<0.1	<0.1
FEB									
17...	1300	8	<5	10	15	310	110	<0.1	<0.1
MAR									
14...	700	5	<5	20	14	370	220	<0.1	<0.1
APR									
19...	3700	9	<5	50	54	350	170	<0.1	<0.1
MAY									
18...	540	6	<5	20	14	550	250	<0.1	<0.1
JUN									
22...	7000	5	<5	20	16	540	18	<0.1	<0.1
JUL									
19...	670	47	<5	20	15	430	26	<0.1	--
AUG									
24...	670	8	10	20	16	340	4	<0.1	<0.1
SEP									
27...	1000	22	<5	20	--	400	11	0.1	<0.1

Table 1. Water-quality records at continuing-record sites--*Continued*

11260815 SAN JOAQUIN RIVER NEAR STEVINSON, CA--*Continued*

WATER QUALITY DATA								
DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 1987								
21...	9	12	2	1	<1	<1	10	<10
MAY								
21...	--	11	6	2	<1	<1	<10	4
JUN								
16...	8	<1	11	2	<1	<1	10	13
JUL								
22...	12	12	9	<1	<1	<1	<10	<3
AUG								
18...	16	9	11	1	<1	<1	40	28
SEP								
22...	4	3	<1	1	<1	<1	<10	4
OCT								
20...	8	9	23	<1	<1	<1	70	15
NOV								
17...	19	19	8	<1	<1	<1	<10	<3
DEC								
15...	6	6	5	1	<1	<1	<10	3
JAN 1988								
21...	5	2	12	3	<1	<1	30	8
FEB								
17...	10	10	5	1	<1	1	30	7
MAR								
14...	10	12	5	7	<1	<1	20	<3
APR								
19...	5	6	9	5	<1	<1	<10	<15
MAY								
18...	11	13	8	5	<1	<1	<10	<3
JUN								
22...	18	13	7	7	<1	<1	<10	<3
JUL								
19...	14	16	4	--	<1	<1	<10	6
AUG								
24...	17	13	5	3	<1	<1	<10	9
SEP								
27...	18	16	5	1	<1	<1	<10	--

Table 1. Water-quality records at continuing-record sites--*Continued*

11260815 SAN JOAQUIN RIVER NEAR STEVINSON, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	879	867	873	873	864	869	---	---	e1020	---	1300	e1310
2	878	867	872	873	864	869	---	---	e1000	---	1310	e1320
3	877	866	871	876	865	871	---	---	e970	---	1310	e1320
4	876	867	871	879	867	873	---	936	e950	---	1320	e1330
5	877	867	872	881	868	875	---	979	e990	---	1320	e1330
6	877	867	872	880	868	874	---	999	e1010	---	1330	e1340
7	877	867	873	881	868	875	---	1040	e1050	---	1330	e1340
8	878	868	873	---	---	e890	---	1060	e1070	---	1340	e1350
9	878	868	873	---	---	e920	---	1090	e1100	---	1340	e1350
10	881	868	874	---	---	e950	---	1130	e1140	---	1350	e1360
11	876	868	872	---	---	e1000	---	1150	e1170	---	1350	e1360
12	876	868	872	---	---	e1050	---	1180	e1190	---	1360	e1370
13	882	866	875	---	---	e1100	---	1190	e1200	---	1370	e1380
14	883	869	875	---	---	e1120	---	1220	e1230	---	1370	e1380
15	882	870	876	---	---	e1150	---	1240	e1240	---	1380	e1390
16	882	870	876	---	---	e1180	---	1220	e1240	---	1380	e1390
17	880	870	874	---	---	e1200	---	1240	e1250	---	1380	e1390
18	876	868	873	---	---	e1220	---	1230	e1240	---	1390	e1400
19	877	869	873	---	---	e1240	---	1240	e1250	---	1390	e1400
20	882	868	875	---	---	e1260	---	1250	e1270	---	1400	e1400
21	882	867	874	---	---	e1280	---	1250	e1270	---	1410	e1400
22	880	867	873	---	---	e1270	---	1260	e1280	---	---	e1400
23	876	866	871	---	---	e1250	---	1260	e1280	---	---	e1400
24	876	865	871	---	---	e1220	---	1280	e1300	---	---	e1380
25	876	865	871	---	---	e1200	---	1270	e1290	---	---	e1370
26	876	866	871	---	---	e1170	---	1280	e1300	---	---	e1360
27	879	865	872	---	---	e1130	---	1280	e1300	---	---	e1350
28	875	866	870	---	---	e1100	---	1290	e1300	---	---	e1340
29	877	865	870	---	---	e1080	---	1290	e1300	---	---	e1330
30	873	865	869	---	---	e1060	---	1300	e1310	---	---	e1320
31	---	---	---	---	---	e1040	---	---	---	---	---	e1310
MONTH	883	865	873	---	---	e1070	---	---	e1180	---	---	e1360

AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e1300	956	899	929	300	269	286	1030	968	987
2	---	---	e1300	1050	963	1000	371	310	336	1060	1040	1040
3	---	---	e1300	1120	1050	1090	412	371	388	1100	1050	1090
4	---	---	e1290	1130	1060	1110	463	413	438	1160	1090	1130
5	---	---	e1290	1100	1010	1070	504	454	479	1190	1160	1180
6	---	---	e1290	1040	975	1010	556	505	531	1220	1190	1210
7	---	---	e1290	992	906	965	617	556	585	1260	1210	1230
8	---	---	e1290	911	848	890	658	607	638	1290	1240	1270
9	---	---	e1280	863	835	850	739	598	655	1310	1280	1300
10	---	---	e1280	923	839	876	729	360	561	1330	1310	1320
11	---	---	e1280	1040	902	979	350	171	233	1370	1320	1340
12	---	---	e1280	1120	1050	1080	192	162	177	1370	1350	1360
13	---	---	e1270	1140	1100	1120	223	192	204	1400	1370	1380
14	---	---	e1270	1150	1110	1130	254	223	237	1410	1380	1400
15	---	---	e1270	1110	1010	1080	286	255	273	1420	1400	1410
16	---	---	e1260	1030	884	955	357	286	315	1450	1420	1430
17	---	---	e1260	854	686	803	428	357	390	1460	1440	1450
18	---	---	e1250	675	498	623	479	428	446	1470	1430	1460
19	1380	1260	1320	518	400	463	540	469	514	1490	1460	1480
20	1330	1260	1290	467	400	424	609	540	576	1570	1490	1530
21	1370	1320	1340	430	404	420	647	598	630	1630	1560	1600
22	1420	1390	1400	414	380	394	685	646	664	1740	1630	1680
23	1440	1400	1420	391	361	378	723	685	706	1910	1740	1840
24	1460	1410	1440	372	333	355	752	722	738	1940	1690	1870
25	1400	1170	1300	343	323	331	771	741	756	1820	1440	1710
26	1220	993	1080	334	275	306	798	759	775	1430	814	1120
27	992	874	939	285	256	274	796	777	786	1150	824	975
28	881	842	858	266	217	238	815	785	800	845	806	816
29	910	855	883	268	237	256	802	764	786	838	807	823
30	933	888	911	269	259	267	881	802	846	840	828	833
31	906	878	892	---	---	---	959	880	922	---	---	---
MONTH	---	---	e1230	1150	217	722	959	162	538	1940	806	1310

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11260815 SAN JOAQUIN RIVER NEAR STEVINSON, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	851	840	841	730	689	704	1190	1160	1180	1580	1540	1570
2	872	851	862	746	707	713	1200	1170	1180	1570	1540	1550
3	904	872	883	834	746	782	1180	1090	1130	1560	1510	1540
4	915	894	906	932	834	881	1090	1050	1070	1520	1230	1410
5	926	915	921	981	942	968	1080	1040	1060	1220	982	1090
6	928	907	918	1000	979	984	1050	1030	1040	1040	961	996
7	918	869	903	988	957	974	1060	1030	1050	1020	960	991
8	880	860	864	967	955	959	1080	1050	1060	1040	999	1020
9	922	871	894	964	953	958	1110	1070	1090	1150	1040	1090
10	974	912	945	981	953	968	1120	1080	1110	1240	1150	1200
11	995	964	983	1000	980	984	1100	1070	1080	1300	1230	1270
12	986	975	983	1010	987	999	1090	1040	1060	1320	1290	1300
13	988	976	983	987	866	924	1060	1040	1050	1370	1310	1330
14	1010	988	998	875	824	854	1070	1050	1060	1390	1350	1370
15	1020	999	1000	834	782	808	1120	1070	1090	1440	1390	1420
16	1010	998	1000	880	782	821	1180	1120	1150	1480	1430	1450
17	1010	996	1000	890	848	875	1240	1180	1200	1530	1430	1490
18	1020	1000	1010	838	636	739	1280	1220	1250	1530	1500	1510
19	1040	1010	1030	626	545	579	1300	1270	1280	1520	1450	1480
20	1050	1030	1040	544	443	480	1330	1300	1310	1460	1440	1450
21	1040	1020	1030	642	472	548	1360	1310	1340	1460	1440	1440
22	1060	1030	1050	795	643	714	1380	1350	1360	1500	1450	1470
23	1080	1070	1070	816	757	788	1420	1380	1400	1560	1480	1520
24	1100	1080	1090	797	768	777	1450	1420	1430	1580	1550	1570
25	1140	1100	1110	842	790	813	1450	1430	1440	1610	1570	1590
26	1160	1130	1140	854	833	842	1460	1420	1440	1630	1590	1610
27	1180	1150	1160	865	844	852	1480	1450	1470	1650	1420	1620
28	1190	1150	1170	996	846	897	1510	1480	1490	1650	1630	1640
29	1160	1120	1140	1200	1020	1110	1540	1500	1520	1670	1610	1650
30	1150	822	1070	1220	1200	1210	---	---	---	1690	1650	1680
31	811	740	779	1210	1170	1190	---	---	---	1740	1660	1710
MONTH	1190	740	993	1220	443	861	1540	1030	1220	1740	960	1420
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1780	1720	1750	763	710	738	1750	1490	1610	2200	2150	2170
2	1740	1630	1670	816	753	772	1700	1560	1630	2180	2140	2160
3	1650	1570	1590	879	787	836	1760	1650	1710	2170	2110	2140
4	1580	1530	1550	993	870	927	1830	1730	1780	2150	2100	2120
5	1550	1480	1530	1070	973	1020	1870	1810	1850	2140	2090	2120
6	1520	1460	1490	1130	1060	1090	1900	1870	1880	2130	2100	2110
7	1530	1470	1490	1170	1120	1150	1930	1880	1910	2100	2020	2060
8	1530	1490	1520	1200	1160	1180	1950	1910	1930	2030	2000	2020
9	1510	1460	1490	1170	1110	1140	1980	1930	1950	2000	1920	1960
10	1510	1470	1490	1190	1160	1180	2000	1960	1980	1970	1930	1950
11	1520	1490	1500	1170	1140	1150	2030	1970	2010	1970	1870	1920
12	1520	1480	1500	1190	1150	1170	2060	2010	2050	1890	1770	1800
13	1490	1390	1440	1280	1200	1240	2090	2040	2070	1870	1830	1840
14	1450	1400	1430	1350	1270	1310	2100	2060	2080	1860	1750	1790
15	1450	1340	1370	1440	1340	1400	2110	2070	2090	1790	1740	1760
16	1440	1340	1410	1460	1420	1440	2130	2080	2100	1790	1750	1770
17	1560	1430	1500	1510	1450	1480	2130	2050	2090	1820	1760	1780
18	---	---	e1550	1540	1490	1520	2080	1960	2010	1800	1740	1770
19	---	---	e1600	1580	1540	1550	1980	1900	1940	---	---	e1740
20	1720	895	1590	1600	1550	1580	2020	1950	1990	---	---	e1740
21	805	347	474	1660	1570	1630	2010	1840	1920	---	---	e1730
22	501	418	476	1700	1630	1680	1990	1880	1950	---	---	e1730
23	541	453	489	1750	1690	1720	1990	1940	1970	---	---	e1730
24	545	412	479	1790	1720	1760	2080	1970	2040	---	---	e1730
25	562	370	427	1800	1760	1780	2080	2050	2070	---	---	e1730
26	594	555	579	1840	1780	1810	2110	2060	2090	---	---	e1720
27	650	556	597	1880	1820	1850	2140	2100	2120	---	---	e1720
28	673	659	664	1910	1850	1880	2130	2100	2110	---	---	e1720
29	680	654	665	1910	1830	1880	2140	2100	2120	---	---	e1710
30	719	676	695	1870	1820	1830	2170	2110	2140	---	---	e1710
31	---	---	---	1840	1670	1770	---	---	---	---	---	e1710
MONTH	---	---	e1200	1910	710	1400	2170	1490	1970	---	---	e1860

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued*

11260815 SAN JOAQUIN RIVER NEAR STEVINSON, CA--*Continued*

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

AUGUST 1988				SEPTEMBER 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e1700	1860	1730	1800
2	---	---	e1700	1640	1590	1610
3	---	---	e1700	1620	1570	1600
4	---	---	e1700	1610	1570	1590
5	---	---	e1700	1600	1560	1580
6	---	---	e1680	1610	1560	1580
7	---	---	e1680	1580	1550	1560
8	---	---	e1680	1600	1540	1560
9	---	---	e1680	1610	1560	1580
10	---	---	e1680	1570	1490	1530
11	---	---	e1670	1500	1360	1410
12	---	---	e1670	1390	1360	1370
13	---	---	e1670	1400	1360	1380
14	---	---	e1670	1410	1370	1400
15	---	---	e1670	1440	1400	1420
16	---	---	e1650	1460	1420	1440
17	---	---	e1650	1460	1430	1450
18	---	---	e1650	1490	1450	1470
19	---	---	e1650	1490	1480	1490
20	---	---	e1650	1500	1470	1490
21	---	---	e1640	1520	1490	1500
22	---	---	e1640	1530	1510	1520
23	---	---	e1640	1540	1520	1520
24	---	---	e1640	1540	1510	1530
25	1680	1630	1660	1550	1520	1540
26	1690	1650	1660	1560	1540	1550
27	1910	1690	1800	---	---	e1550
28	2090	1880	2020	1590	1560	1570
29	2160	2030	2090	1590	1570	1580
30	2080	1870	2030	1600	1580	1590
31	1930	1800	1880	---	---	---
MONTH	---	---	e1720	---	---	e1530

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued*

11260815 SAN JOAQUIN RIVER NEAR STEVINSON, CA--*Continued*

WATER TEMPERATURE (°C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	18.0	19.5	25.0	22.5	24.0	---	---	e24.0	28.5	24.0	26.0
2	22.5	18.5	20.0	23.5	22.0	22.5	---	---	e25.0	28.0	23.5	25.5
3	20.5	18.5	19.5	26.5	22.0	24.0	---	---	e26.0	27.5	23.5	25.5
4	21.0	18.5	19.5	27.0	23.0	25.0	29.5	24.0	26.5	27.5	23.0	25.0
5	22.0	18.5	20.0	28.5	24.0	26.5	27.0	23.5	25.0	27.5	24.0	25.5
6	21.5	18.5	20.0	29.0	25.5	27.5	27.0	23.5	25.0	27.5	23.5	25.5
7	22.0	19.0	20.5	29.0	26.0	27.5	28.5	23.5	26.0	27.0	24.5	25.5
8	22.0	20.0	21.0	---	---	e27.0	27.0	24.0	25.5	26.5	25.0	26.0
9	23.0	20.0	21.5	---	---	e27.0	28.5	23.0	26.0	27.0	25.5	26.5
10	24.0	20.5	22.0	---	---	e27.0	28.5	23.5	26.0	27.5	25.5	26.5
11	22.0	20.0	21.0	---	---	e27.0	28.5	23.5	26.0	27.0	25.5	26.5
12	21.0	19.0	20.0	---	---	e27.0	29.0	23.5	26.5	27.5	25.5	26.5
13	22.5	19.0	21.0	---	---	e27.0	28.5	24.5	26.5	27.5	25.5	26.5
14	25.5	20.5	22.5	---	---	e28.0	27.5	24.0	25.5	28.0	26.0	27.0
15	26.0	22.0	24.0	---	---	e28.0	27.5	23.5	25.5	28.5	26.5	27.5
16	26.0	22.5	24.5	---	---	e26.0	26.5	22.5	24.5	28.5	26.5	28.0
17	26.5	23.0	24.5	---	---	e24.0	26.5	23.0	24.5	28.0	24.0	25.5
18	23.5	21.0	23.0	---	---	e22.0	26.0	22.5	24.0	27.0	22.5	24.0
19	21.5	19.5	20.5	---	---	e22.0	26.5	22.5	24.5	27.0	22.0	24.0
20	23.0	20.0	21.5	---	---	e21.0	26.5	23.0	24.5	26.0	22.5	24.5
21	24.5	21.0	23.0	---	---	e22.0	25.5	22.5	24.0	27.0	22.5	24.5
22	24.5	22.0	23.5	---	---	e22.0	25.5	23.0	24.0	---	---	e24.0
23	26.0	22.5	24.0	---	---	e23.0	27.0	23.5	25.0	---	---	e25.0
24	25.5	22.0	24.0	---	---	e22.0	28.0	24.0	25.5	---	---	e25.0
25	26.0	22.5	24.5	---	---	e21.0	28.0	25.0	26.0	---	---	e25.0
26	27.0	23.5	25.0	---	---	e20.0	26.5	25.0	26.0	---	---	e25.0
27	28.5	24.0	26.0	---	---	e21.0	26.5	25.0	26.0	---	---	e25.0
28	26.5	24.0	25.5	---	---	e21.0	26.5	24.5	25.5	---	---	e26.0
29	27.5	23.5	25.0	---	---	e22.0	28.5	24.5	26.0	---	---	e26.0
30	25.0	23.5	24.5	---	---	e22.0	28.5	24.5	26.5	---	---	e25.0
31	---	---	---	---	---	e23.0	---	---	---	---	---	e25.0
MONTH	28.5	18.0	22.4	---	---	e24.2	---	---	e25.4	---	---	e25.6
AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e26.0	29.0	25.5	27.5	25.5	23.0	24.0	18.5	17.5	18.0
2	---	---	e27.0	28.5	26.0	27.5	25.0	23.0	24.5	18.0	16.0	17.0
3	---	---	e28.0	29.0	26.0	27.5	25.5	23.5	24.5	17.5	15.5	16.5
4	---	---	e28.0	28.0	25.5	26.5	25.0	23.5	24.5	17.5	15.5	16.5
5	---	---	e28.0	27.0	24.5	25.5	25.5	23.5	24.5	17.0	16.0	16.0
6	---	---	e28.0	26.5	24.0	25.0	25.5	23.5	24.5	16.5	16.0	16.0
7	---	---	e28.0	26.0	23.0	24.5	24.5	23.5	24.0	17.5	15.0	16.0
8	---	---	e27.0	26.0	23.0	24.5	24.5	23.0	24.0	16.5	15.0	16.0
9	---	---	e27.0	26.0	23.5	24.5	24.0	22.0	23.5	16.5	15.5	16.0
10	---	---	e27.0	25.0	22.5	24.0	23.0	22.0	22.5	16.5	15.5	16.0
11	---	---	e26.0	25.0	22.5	23.5	23.0	21.0	22.0	16.0	15.0	15.5
12	---	---	e26.0	24.5	22.0	23.5	22.5	21.0	22.0	15.5	14.5	15.0
13	---	---	e25.0	24.0	22.0	23.0	22.5	21.0	21.5	15.0	14.5	14.5
14	---	---	e24.0	24.5	22.0	23.0	22.5	20.0	21.5	14.5	13.5	14.0
15	---	---	e24.0	24.5	21.5	23.0	22.5	20.0	21.0	14.5	12.5	13.5
16	---	---	e25.0	24.0	21.5	23.0	21.5	20.0	20.5	14.5	13.0	13.5
17	---	---	e26.0	25.0	21.5	23.0	21.0	19.0	20.5	13.5	13.0	13.5
18	---	---	e25.0	25.0	21.5	23.0	21.5	19.5	20.5	15.0	13.0	14.0
19	25.5	23.5	24.5	24.0	21.5	23.0	21.0	19.5	20.5	14.0	13.5	14.0
20	25.5	23.0	24.0	24.0	21.5	23.0	20.0	18.0	19.0	13.5	12.5	13.0
21	26.0	23.0	24.0	24.5	21.5	23.0	20.5	18.0	19.0	13.0	12.5	12.5
22	26.0	23.0	24.5	26.0	22.0	24.0	19.5	18.5	19.0	13.0	12.0	12.5
23	25.5	22.5	24.0	25.5	23.0	24.5	21.0	18.5	19.5	12.5	11.5	12.0
24	25.5	22.5	24.0	25.0	23.0	24.0	20.5	19.0	20.0	12.5	11.5	12.0
25	26.0	23.0	24.5	25.0	23.0	24.0	21.0	19.0	20.0	11.5	10.0	10.5
26	26.5	23.0	25.0	24.5	22.5	23.5	21.5	19.5	20.5	10.5	9.5	10.0
27	26.5	23.5	25.0	24.5	22.5	23.5	21.0	20.0	20.5	10.0	8.5	9.0
28	27.0	23.5	25.0	24.5	22.0	23.5	21.0	19.5	20.5	10.0	9.0	9.5
29	27.0	24.0	25.5	25.0	22.5	23.5	20.5	19.5	20.0	9.5	9.0	9.5
30	28.5	25.5	27.0	25.5	22.5	24.0	20.0	19.0	19.5	9.5	9.0	9.0
31	28.5	25.5	27.0	---	---	---	18.5	18.0	18.5	---	---	---
MONTH	---	---	e25.8	29.0	21.5	24.2	25.5	18.0	21.5	18.5	8.5	13.7

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11260815 SAN JOAQUIN RIVER NEAR STEVINSON, CA--Continued

WATER TEMPERATURE (°C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.0	9.5	9.5	5.5	5.0	5.0	12.0	11.0	11.5	15.5	14.0	14.5
2	11.0	10.0	10.5	5.5	5.0	5.0	12.0	10.5	11.0	16.5	13.5	14.5
3	11.5	11.0	11.5	6.0	5.5	5.5	11.5	9.5	10.5	17.5	13.5	15.0
4	11.5	11.5	11.5	6.5	5.5	6.0	11.5	8.5	10.0	18.0	13.5	15.5
5	11.5	11.0	11.5	8.0	7.0	7.5	11.0	8.5	9.5	19.0	14.5	16.5
6	11.5	11.0	11.0	8.0	7.5	8.0	11.0	8.5	10.0	17.0	15.0	16.0
7	12.0	11.0	11.0	9.0	8.0	8.5	12.0	8.5	10.0	18.0	15.0	16.0
8	11.0	10.5	10.5	9.5	8.5	9.0	12.0	9.0	10.5	18.0	14.5	16.0
9	11.0	10.5	11.0	9.5	8.5	9.0	12.5	9.5	11.0	16.0	14.5	15.5
10	13.0	10.5	11.5	9.5	9.0	9.5	13.0	10.5	12.0	14.5	12.0	13.5
11	11.5	8.0	10.0	10.0	9.0	9.5	14.0	11.5	12.5	13.5	11.5	12.5
12	12.5	5.0	8.5	10.5	8.5	9.5	14.5	11.5	13.0	14.5	12.0	13.5
13	10.0	3.0	5.5	9.5	8.5	9.0	14.0	12.0	13.0	15.0	12.0	13.5
14	8.5	3.5	5.0	9.0	8.0	9.0	14.5	12.5	13.5	16.0	12.5	14.5
15	6.0	4.0	5.0	10.0	9.0	9.5	15.0	12.0	13.5	15.0	13.0	14.5
16	5.5	5.0	5.5	9.0	9.0	9.0	13.5	11.5	12.5	16.0	13.0	14.5
17	7.0	5.5	6.0	9.0	8.0	9.0	13.0	10.5	11.5	18.5	13.5	16.0
18	7.0	6.5	6.5	8.5	7.0	8.0	12.0	10.0	11.0	18.0	14.0	16.0
19	8.5	7.0	7.5	8.0	6.5	7.5	12.0	10.0	11.0	20.5	15.0	17.5
20	8.0	7.5	7.5	7.5	7.0	7.0	13.5	10.0	11.5	20.0	16.0	18.0
21	9.0	7.0	8.0	8.0	7.0	7.5	13.5	10.5	12.0	18.0	16.0	17.0
22	8.5	7.5	8.0	8.5	6.5	7.5	14.5	10.5	12.5	19.0	14.0	17.5
23	7.5	6.0	7.0	9.5	6.5	8.0	13.5	11.0	12.5	19.0	15.5	18.0
24	6.0	5.0	5.5	9.5	7.5	8.0	14.5	11.5	13.0	17.0	15.5	16.5
25	5.5	4.0	5.0	10.5	8.0	9.0	16.5	12.0	14.0	19.5	16.0	18.0
26	5.0	4.5	4.5	10.0	8.5	9.0	16.5	13.0	14.5	20.5	15.0	18.5
27	4.5	4.0	4.5	10.0	9.0	9.5	15.5	14.0	14.5	---	---	e18.0
28	5.0	4.5	5.0	10.5	9.5	10.0	15.5	14.0	15.0	---	---	e17.5
29	5.0	5.0	5.0	12.0	10.0	11.0	15.0	15.0	15.0	---	---	e17.0
30	6.5	5.0	5.5	13.0	11.0	11.5	---	---	---	---	---	e16.5
31	6.0	4.5	5.5	12.5	10.5	11.5	---	---	---	---	---	e16.0
MONTH	13.0	3.0	7.7	13.0	5.0	8.5	16.5	8.5	12.1	---	---	e15.9
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e16.0	18.0	17.0	17.5	26.0	21.5	23.5	27.5	23.5	26.0
2	---	---	e17.5	20.0	17.0	18.5	27.5	22.0	24.5	28.0	24.5	26.5
3	---	---	e18.0	20.5	17.0	19.0	26.5	22.0	24.0	29.5	25.5	27.0
4	---	---	e18.0	20.5	17.5	19.0	26.0	20.5	23.0	27.0	24.5	26.0
5	---	---	e18.5	18.5	17.0	18.0	24.0	20.0	22.0	27.0	24.0	25.0
6	---	---	e19.0	18.5	17.0	17.5	22.5	20.0	21.0	27.0	23.5	25.5
7	---	---	e19.5	18.0	17.0	17.5	24.0	20.0	21.5	29.0	24.0	26.5
8	---	---	e17.0	20.5	17.0	18.5	25.0	19.5	22.0	27.5	24.5	26.0
9	---	---	e17.5	22.0	18.5	20.5	25.0	20.5	23.0	29.0	24.5	26.0
10	---	---	e19.5	24.0	19.5	22.0	25.0	21.0	23.0	29.5	25.5	27.5
11	---	---	e21.5	26.0	21.5	24.0	26.0	21.5	24.0	29.5	25.5	27.5
12	---	---	e21.0	27.5	23.0	24.5	25.5	22.0	24.0	29.0	25.5	27.0
13	---	---	e19.0	24.0	22.0	23.0	29.0	23.5	26.5	28.5	25.0	26.5
14	---	---	e17.5	24.5	21.5	23.5	29.0	24.5	26.5	29.0	25.5	27.0
15	---	---	e16.0	28.5	22.5	25.0	28.0	24.5	26.5	29.0	25.0	26.5
16	---	---	e15.0	24.0	21.5	23.0	28.5	24.0	26.0	28.0	25.0	26.5
17	---	---	e16.5	23.0	21.0	22.0	28.0	24.0	26.0	28.5	26.0	27.5
18	---	---	e17.0	23.5	21.0	22.5	30.5	24.5	28.0	29.5	26.5	28.0
19	---	---	e17.0	25.5	22.0	24.0	31.0	26.0	28.5	---	---	e28.0
20	17.5	16.0	17.0	28.5	23.0	26.0	28.0	24.5	26.5	---	---	e28.0
21	18.0	15.5	16.5	30.0	25.0	27.0	27.5	24.5	26.5	---	---	e28.0
22	18.5	16.0	17.0	28.0	25.0	26.5	28.5	24.5	26.5	---	---	e28.0
23	18.5	16.5	17.5	28.5	24.5	26.0	26.0	24.0	25.0	---	---	e28.0
24	18.0	16.0	17.0	27.5	24.0	26.0	27.5	24.0	26.0	---	---	e29.0
25	20.0	17.5	18.5	28.0	24.5	26.0	26.0	24.0	25.0	---	---	e29.0
26	21.0	19.0	20.0	27.5	23.5	25.0	27.0	23.5	25.0	---	---	e29.0
27	22.0	20.5	21.0	27.0	23.0	25.0	27.0	23.5	25.0	---	---	e29.0
28	22.0	20.5	21.0	25.0	22.5	24.0	25.5	20.5	24.0	---	---	e29.0
29	23.5	20.0	21.5	24.0	21.0	23.0	24.0	21.0	22.5	---	---	e29.0
30	20.5	18.5	19.5	23.0	20.5	21.5	26.5	22.0	25.0	---	---	e29.0
31	---	---	---	25.5	20.5	23.0	---	---	---	---	---	e28.0
MONTH	---	---	e18.2	30.0	17.0	22.5	31.0	19.5	24.7	---	---	e27.4

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued*11260815 SAN JOAQUIN RIVER NEAR STEVINSON, CA--*Continued*

WATER TEMPERATURE (°C)

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e27.0	28.0	25.5	26.5
2	---	---	e27.0	28.0	25.5	26.5
3	---	---	e26.0	28.5	25.5	27.0
4	---	---	e26.0	30.0	26.0	27.5
5	---	---	e26.0	28.5	26.0	27.0
6	---	---	e25.0	28.0	26.0	26.5
7	---	---	e25.0	27.0	25.0	26.0
8	---	---	e25.0	26.5	24.0	25.5
9	---	---	e26.0	25.0	23.0	24.0
10	---	---	e26.0	26.0	23.0	24.0
11	---	---	e25.0	23.0	22.0	22.5
12	---	---	e24.0	23.0	21.0	22.0
13	---	---	e24.0	24.0	21.0	22.0
14	---	---	e24.0	24.5	21.0	22.5
15	---	---	e24.0	23.5	21.0	22.0
16	---	---	e25.0	24.5	21.0	22.5
17	---	---	e25.0	22.5	19.5	21.5
18	---	---	e25.0	21.5	19.0	20.0
19	---	---	e25.0	21.5	19.0	20.5
20	---	---	e25.0	21.0	18.5	20.0
21	---	---	e26.0	22.0	18.5	20.5
22	---	---	e26.0	23.0	19.0	21.0
23	---	---	e26.0	23.0	19.5	21.0
24	---	---	e26.0	22.0	19.5	21.0
25	27.5	24.5	26.0	23.0	19.5	20.5
26	28.0	25.0	26.5	21.5	19.0	20.5
27	28.0	25.0	26.5	---	---	e20.5
28	27.5	25.0	26.0	22.0	19.0	20.5
29	28.5	24.5	26.5	23.5	19.0	21.0
30	29.5	25.5	27.5	25.5	19.5	22.0
31	28.5	25.5	27.0	---	---	---
MONTH	---	---	e25.6	---	---	e22.8

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11261100 SALT SLOUGH AT STATE HIGHWAY 165, NEAR STEVINSON, CA

LOCATION.--Lat 37°14'52", long 120°51'04", in SE 1/4 SE 1/4, sec. 10, T.8 S., R.10 E., Merced County, Hydrologic Unit 18040001, on right bank at bridge on State Highway 165, and 5.5 mi south of Stevinson.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1985 to September 1988.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1985 to September 1988.

WATER TEMPERATURE: October 1985 to September 1988.

INSTRUMENTATION.--Minimonitor recorder since October 1985. Satellite telemetry since October 1986.

REMARKS.--Periods when maximums and/or minimums were not recorded were due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 3,650 microsiemens, Dec. 17, 1987; minimum daily, 450 microsiemens, July 24, 1986.

WATER TEMPERATURE: Maximum recorded, 30.4 °C, July 30, 1988; minimum recorded, 0.5 °C, Dec. 26, 1985.

WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)	BARO- METRIC PRES- SURE (MM HG)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS, TOTAL (MG/L AS CaCO ₃)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO ₃	CALCIUM, DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)
APR 1987												
09...	0800	339	2000	8.0	18.5	765	7.4	460	280	110	46	270
21...	1530	252	1630	7.9	21.0	760	7.0	370	210	86	38	220
MAY												
07...	1100	352	1870	8.0	24.5	760	6.4	460	290	110	44	250
20...	0800	335	1680	7.9	18.0	765	7.1	360	200	88	35	200
JUN												
03...	1015	482	1600	7.9	23.0	760	5.9	360	220	85	36	200
16...	1130	325	1580	8.0	21.0	760	6.7	370	220	92	34	200
JUL												
08...	1145	298	1940	8.0	24.5	755	6.2	420	250	100	41	240
22...	0915	368	1340	8.0	20.5	760	--	300	160	71	29	170
AUG												
05...	0930	241	1410	8.0	25.0	760	5.4	300	140	69	30	170
18...	1430	207	1280	8.0	25.0	760	6.8	260	100	59	27	150
SEP												
09...	0945	275	1470	8.0	22.0	760	6.2	320	170	73	33	180
22...	1345	176	1650	7.9	24.0	760	7.3	360	210	85	37	210
OCT												
07...	0945	152	1780	7.9	21.0	760	7.3	360	210	82	38	220
20...	1445	160	1500	8.0	19.0	760	9.2	330	160	71	36	200
NOV												
04...	0930	269	1840	8.0	14.0	760	8.8	410	220	93	43	240
17...	1545	222	1790	7.7	12.5	760	9.4	420	240	94	46	270
DEC												
02...	1315	136	2770	7.8	13.0	760	9.4	590	290	130	65	380
15...	1530	127	2990	7.7	7.0	760	8.8	790	540	120	--	410
JAN 1988												
07...	0930	108	3350	7.8	9.5	765	9.4	730	490	170	74	480
20...	1430	191	3100	7.8	9.0	770	10.8	730	500	170	75	420
FEB												
03...	0945	167	3320	8.0	9.0	760	10.4	750	550	180	74	440
17...	1430	218	2840	7.9	11.5	770	10.9	660	470	160	64	390
MAR												
03...	1000	492	1930	7.8	13.0	760	8.0	460	290	110	45	250
14...	1530	466	2060	7.8	15.0	760	9.4	490	320	120	47	260
APR												
05...	1000	281	2350	8.0	16.0	765	7.8	590	400	140	58	320
19...	1500	403	1910	7.6	18.0	755	8.0	430	270	100	43	240
MAY												
02...	0930	272	2260	7.9	14.0	770	8.9	530	360	130	50	280
18...	1100	254	1810	7.9	19.0	760	7.2	400	230	92	41	220
JUN												
10...	0930	323	1460	7.7	20.5	760	7.0	320	170	73	33	170
22...	1030	368	1790	7.7	22.5	755	8.6	410	270	97	40	230
JUL												
07...	1345	408	1940	7.8	25.5	760	7.0	430	270	100	43	250
19...	0915	269	2180	7.7	25.5	760	6.2	460	300	110	46	270
19...	0930	269	2180	7.7	25.5	760	6.2	510	340	120	50	290
AUG												
09...	0945	379	1600	7.7	24.0	755	6.1	330	190	78	34	200
24...	1015	394	1690	7.6	24.0	760	6.0	360	220	83	36	210
SEP												
08...	0945	270	1920	7.7	23.0	755	6.6	410	260	95	43	250
27...	1015	263	1530	7.7	19.5	765	7.5	330	190	73	37	200

Table 1. Water-quality records at continuing-record sites--Continued

11261100 SALT SLOUGH AT STATE HIGHWAY 165, NEAR STEVINSON, CA--Continued

WATER QUALITY DATA

DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L AS CAC03)	SULFATE, DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 °C, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)
APR 1987												
09...	56	6	4.8	184	440	310	0.2	18	1320	1210	1.80	3.5
21...	56	5	5.1	162	320	240	0.2	19	1050	714	1.43	2.9
MAY												
07...	54	5	4.3	164	460	260	0.4	17	1290	1230	1.75	4.6
20...	54	5	4.5	163	350	220	<0.1	16	1050	950	1.43	3.9
JUN												
03...	54	5	4.4	143	330	220	0.2	17	1000	1300	1.36	3.3
16...	54	5	4.2	149	350	240	0.3	19	1090	956	1.48	4.9
JUL												
08...	55	5	5.0	166	350	200	0.3	20	1280	1030	1.74	4.2
22...	55	4	3.8	142	250	200	0.3	21	844	839	1.15	3.5
AUG												
05...	55	4	4.4	153	240	200	0.3	22	884	575	1.20	2.5
18...	55	4	4.3	157	170	200	0.3	22	736	411	1.00	1.9
SEP												
09...	55	5	4.6	149	240	210	0.3	19	883	656	1.20	3.0
22...	55	5	5.4	159	320	240	0.3	18	1110	527	1.51	2.4
OCT												
07...	56	5	5.9	149	330	250	0.3	19	1110	456	1.51	3.3
20...	57	5	5.1	164	260	170	0.2	19	965	417	1.31	1.3
NOV												
04...	56	5	6.0	189	340	400	0.3	21	1230	893	1.67	1.5
17...	58	6	5.6	185	380	340	0.3	20	1320	791	1.80	2.2
DEC												
02...	58	7	5.1	302	630	540	0.3	21	1940	712	2.64	4.3
15...	53	6	6.8	254	710	540	0.3	22	2100	720	2.86	5.0
JAN 1988												
07...	59	8	6.1	243	830	450	0.4	18	2360	688	3.21	9.4
20...	55	7	10	239	780	270	0.3	16	2190	1130	2.98	7.9
FEB												
03...	56	7	5.3	208	960	480	0.4	18	2450	1100	3.33	15
17...	56	7	5.4	195	770	410	0.3	20	1990	1170	2.71	10
MAR												
03...	54	5	5.0	167	450	250	0.3	22	1320	1750	1.80	7.3
14...	53	5	4.6	175	470	240	0.3	21	1380	1740	1.88	6.6
APR												
05...	54	6	5.5	187	540	280	0.3	20	1610	1220	2.19	5.7
19...	55	5	4.4	154	430	280	0.3	18	1270	1380	1.73	4.9
MAY												
02...	53	5	4.6	171	550	300	0.3	19	1540	1130	2.09	6.0
18...	54	5	4.6	169	390	250	0.3	20	1180	809	1.60	4.1
JUN												
10...	53	4	4.1	146	290	200	0.3	17	935	815	1.27	3.3
22...	55	5	4.8	141	420	240	0.4	20	1210	1200	1.65	6.2
JUL												
07...	56	5	5.2	156	470	260	0.3	19	1300	1430	1.77	5.5
19...	56	6	4.6	166	540	300	0.3	21	1480	1070	2.01	5.1
19...	55	6	4.8	166	550	300	0.3	21	1460	1060	1.99	5.1
AUG												
09...	56	5	4.8	141	310	240	0.2	21	1020	1040	1.39	3.5
24...	56	5	4.4	139	360	240	0.2	20	1080	1150	1.47	3.6
SEP												
08...	56	6	4.9	156	400	280	0.2	20	1250	911	1.70	3.8
27...	56	5	4.4	143	290	230	0.2	19	944	670	1.28	2.9

Table 1. Water-quality records at continuing-record sites--Continued

11261100 SALT SLOUGH AT STATE HIGHWAY 165, NEAR STEVINSON, CA--Continued

WATER QUALITY DATA												
DATE	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS NH ₄)	NITRO- GEN,AM- MONIA + ORGANIC, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC, TOTAL (MG/L AS C)	CHLOR-A PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	SED. SUSP., SIEVE DIAM. % FINER THAN 0.062 MM	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
APR 1987												
09...	0.11	0.14	3.1	0.17	0.12	0.10	10	--	--	--	--	--
21...	0.13	0.17	1.8	0.23	0.15	0.11	7.2	11	0.80	95	197	134
MAY												
07...	0.06	0.08	1.6	0.42	0.11	0.10	11	--	--	--	--	--
20...	0.22	0.28	3.4	0.40	0.15	0.14	7.0	16	0.70	97	189	171
JUN												
03...	0.09	0.12	1.7	0.32	0.14	0.13	6.4	--	--	--	--	--
16...	0.11	0.14	3.8	0.46	0.16	0.13	8.9	3.3	0.20	95	253	222
JUL												
08...	0.11	0.14	1.4	0.35	0.14	0.12	--	--	--	--	--	--
22...	0.13	0.17	2.0	0.45	0.17	0.14	11	13	0.30	95	282	280
AUG												
05...	0.11	0.14	1.6	0.51	0.21	0.14	9.9	--	--	--	--	--
18...	0.06	0.08	1.6	0.41	0.18	0.15	--	39	1.4	--	--	--
SEP												
09...	0.13	0.17	1.5	0.15	0.12	0.07	7.8	--	--	--	--	--
22...	0.02	0.03	1.3	0.24	0.12	0.09	7.8	19	1.3	96	153	73
OCT												
07...	0.05	0.06	1.0	0.25	0.10	0.08	8.2	--	--	--	--	--
20...	0.04	0.05	0.90	0.13	0.07	0.08	7.4	11	0.50	95	95	41
NOV												
04...	0.08	0.10	1.3	0.16	0.17	0.13	11	--	--	--	--	--
17...	0.12	0.15	0.60	0.15	0.15	0.14	7.6	--	--	93	78	47
DEC												
02...	0.12	0.15	1.5	0.12	0.09	0.07	8.4	--	--	--	--	--
15...	0.43	0.55	1.6	0.13	0.07	0.05	8.5	0.80	<0.20	94	32	11
JAN 1988												
07...	0.31	0.40	1.5	0.12	0.06	0.04	9.2	--	--	--	--	--
20...	0.67	0.86	3.0	0.26	0.20	0.16	14	7.5	0.50	94	95	49
FEB												
03...	0.11	0.14	1.2	0.26	0.08	0.07	9.0	--	--	--	--	--
17...	0.17	0.22	1.3	0.25	0.12	0.09	8.4	5.1	0.60	94	254	150
MAR												
03...	0.14	0.18	1.4	0.39	0.23	0.20	8.3	--	--	--	--	--
14...	0.10	0.13	1.4	0.25	0.19	0.19	7.9	5.6	0.70	89	138	174
APR												
05...	0.11	0.14	1.3	0.36	--	0.12	8.1	--	--	--	--	--
19...	0.12	0.15	1.5	0.31	0.18	0.15	7.0	6.4	0.50	89	107	116
MAY												
02...	0.09	0.12	1.0	0.19	0.13	0.11	6.5	--	--	--	--	--
18...	0.13	0.17	1.2	0.26	0.18	0.16	7.7	8.9	0.60	83	188	129
JUN												
10...	0.09	0.12	0.20	0.20	0.16	0.12	8.4	--	--	--	--	--
22...	0.08	0.10	1.3	0.25	0.20	0.17	8.6	8.1	0.70	90	188	187
JUL												
07...	0.02	0.03	1.0	0.20	0.16	0.10	9.2	--	--	--	--	--
19...	0.07	0.09	1.8	0.37	0.16	0.12	9.6	22	1.4	77	310	225
19...	0.08	0.10	1.2	0.38	0.17	0.13	8.2	--	--	--	--	--
AUG												
09...	0.08	0.10	0.90	0.37	0.17	0.16	9.6	--	--	--	--	--
24...	0.08	0.10	1.1	0.34	0.18	0.17	10	9.0	0.50	68	299	318
SEP												
08...	0.08	0.10	1.1	0.37	0.15	0.14	10	--	--	--	--	--
27...	0.11	0.14	1.1	0.34	0.12	0.10	6.9	13	0.60	71	226	160

Table 1. Water-quality records at continuing-record sites--Continued

11261100 SALT SLOUGH AT STATE HIGHWAY 165, NEAR STEVINSON, CA--Continued

WATER QUALITY DATA									
DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, TOTAL (UG/L AS AS)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
APR 1987									
09...	3700	<10	5	3	--	1700	28	9	--
21...	1700	<10	5	4	1300	1300	3	6	<1
MAY									
07...	2400	<10	6	4	--	1900	3	11	2
20...	5900	20	6	4	1500	1600	--	11	2
JUN									
03...	4400	<10	6	5	1600	1500	3	11	2
16...	4100	20	5	4	1600	1600	8	3	3
JUL									
08...	5700	<10	5	3	2200	2200	13	10	1
22...	7400	<10	6	4	1200	1200	14	13	1
AUG									
05...	7600	30	6	4	1100	1100	--	12	2
18...	7100	30	6	4	650	650	4	9	1
SEP									
09...	5500	10	4	3	1100	1100	1	10	2
22...	2800	<10	5	4	1600	1600	12	7	1
OCT									
07...	3300	<10	5	3	1400	1400	3	8	1
20...	2900	<10	4	3	1100	1100	2	7	2
NOV									
04...	2900	<10	5	2	1900	1900	9	6	1
17...	1300	<10	4	3	1700	1800	5	9	1
DEC									
02...	2300	<10	2	2	2800	2900	9	9	3
15...	1100	10	3	2	2800	3000	8	3	1
JAN 1988									
07...	1800	<10	2	1	3700	3800	10	9	2
20...	2000	10	4	2	3600	3600	9	7	1
FEB									
03...	2200	<10	3	2	4200	4200	16	9	1
17...	3100	<10	3	2	3300	3300	15	7	2
MAR									
03...	4000	<10	5	3	1800	2000	12	9	2
14...	3200	<10	5	3	1900	1800	11	9	4
APR									
05...	--	--	4	3	--	2400	--	--	<1
19...	2300	<10	5	4	1800	1800	9	5	1
MAY									
02...	3800	<10	4	4	2200	2300	12	8	1
18...	4000	<10	6	4	1600	1600	13	9	2
JUN									
10...	4500	10	5	3	1200	1300	11	10	2
22...	5400	<10	6	4	2000	2000	13	11	1
JUL									
07...	4400	<10	5	4	2100	2200	12	11	2
19...	8100	<10	7	3	2500	2600	24	14	3
19...	9100	10	6	4	2500	2600	24	14	2
AUG									
09...	5200	10	6	3	1400	1400	11	10	--
24...	6200	40	6	5	1600	1600	15	12	1
SEP									
08...	3800	20	6	4	1900	1900	12	12	2
27...	5600	20	5	3	1100	1300	12	10	2

Table 1. Water-quality records at continuing-record sites--*Continued*

11261100 SALT SLOUGH AT STATE HIGHWAY 165, NEAR STEVINSON, CA--*Continued*

WATER QUALITY DATA									
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM, TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY, DIS- SOLVED (UG/L AS HG)
APR 1987									
09...	5500	10	<5	50	30	490	260	<0.1	<0.1
21...	3500	11	<5	40	53	550	340	0.2	<0.1
MAY									
07...	3400	20	<5	--	50	210	170	0.1	<0.1
20...	7100	35	<5	40	48	440	150	0.1	0.1
JUN									
03...	5000	8	<5	40	38	320	100	<0.1	<0.1
16...	5900	11	<5	40	39	380	110	<0.1	0.1
JUL									
08...	6400	8	<5	40	46	320	96	<0.1	<0.1
22...	6100	11	<5	40	29	380	84	5.0	<0.1
AUG									
05...	9600	26	<5	30	29	420	110	0.1	0.1
18...	8600	39	<5	--	15	580	130	<0.1	<0.1
SEP									
09...	7100	16	<5	30	22	330	87	<0.1	0.1
22...	3900	13	<5	40	28	290	120	<0.1	<0.1
OCT									
07...	5000	15	<5	40	31	370	140	<0.1	<0.1
20...	4100	16	<5	20	18	290	140	<0.1	<0.1
NOV									
04...	4200	15	<5	30	34	330	160	<0.1	<0.1
17...	2300	<10	<5	30	30	250	120	0.1	<0.1
DEC									
02...	3500	20	<5	50	50	680	450	<0.1	<0.1
15...	1900	20	<5	50	50	790	710	<0.1	<0.1
JAN 1988									
07...	2600	<10	<5	70	60	810	650	0.2	0.1
20...	3300	20	<5	70	60	720	490	<0.1	<0.1
FEB									
03...	3500	20	<5	80	80	540	370	<0.1	<0.1
17...	4200	30	<5	60	60	480	320	0.1	<0.1
MAR									
03...	4800	20	<5	40	40	310	160	<0.1	<0.1
14...	4800	<10	<5	50	40	350	190	<0.1	<0.1
APR									
05...	--	--	--	--	60	--	210	<0.1	<0.1
19...	3700	9	<5	50	54	350	170	<0.1	<0.1
MAY									
02...	4800	20	<5	50	50	400	220	<0.1	<0.1
18...	6000	12	<5	40	38	480	180	<0.1	<0.1
JUN									
10...	6300	8	<5	30	26	410	68	<0.1	<0.1
22...	7200	10	14	50	40	350	75	<0.1	<0.1
JUL									
07...	6600	11	<5	60	46	440	56	0.4	<0.1
19...	10000	<10	<5	60	50	480	60	0.1	<0.1
19...	11000	<10	<5	60	50	500	60	<0.1	<0.1
AUG									
09...	5900	20	<5	40	33	330	27	<0.1	<0.1
24...	8800	14	5	40	34	490	41	0.1	<0.1
SEP									
08...	5500	10	<5	40	42	290	43	0.2	<0.1
27...	7400	22	<5	30	27	380	72	0.1	<0.1

Table 1. Water-quality records at continuing-record sites--Continued

11261100 SALT SLOUGH AT STATE HIGHWAY 165, NEAR STEVINSON, CA--Continued

WATER QUALITY DATA								
DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 1987								
09...	6	9	11	9	11	8	30	20
21...	--	10	5	<1	8	8	50	7
MAY								
07...	--	10	10	3	15	--	20	10
20...	--	5	14	5	10	8	30	4
JUN								
03...	4	<2	13	3	7	10	40	13
16...	5	<4	4	2	10	9	20	13
JUL								
08...	<2	<1	6	4	13	8	30	10
22...	<2	3	25	<1	7	7	<10	4
AUG								
05...	--	5	16	1	6	7	30	<3
18...	8	4	10	2	3	3	30	4
SEP								
09...	6	6	12	2	6	6	20	<3
22...	7	7	7	2	9	7	20	10
OCT								
07...	6	6	9	<1	9	8	20	14
20...	6	6	8	<1	5	5	20	<3
NOV								
04...	9	7	8	5	3	3	20	4
17...	8	9	6	<1	6	8	10	<10
DEC								
02...	13	10	6	4	10	11	10	<10
15...	12	13	10	4	9	11	<10	<10
JAN 1988								
07...	15	12	10	4	29	27	10	<10
20...	11	10	7	3	20	21	10	<10
FEB								
03...	14	17	10	<1	38	39	20	20
17...	11	10	12	2	29	30	40	10
MAR								
03...	11	10	9	3	13	13	20	30
14...	7	9	9	8	12	12	30	30
APR								
05...	--	7	--	8	15	17	--	10
19...	5	6	9	5	13	12	<10	15
MAY								
02...	9	9	13	2	20	19	20	10
18...	6	7	15	2	11	11	50	<3
JUN								
10...	10	7	13	2	6	6	20	7
22...	10	7	17	7	12	12	30	10
JUL								
07...	8	9	16	3	14	14	20	11
19...	10	12	22	2	18	16	40	20
19...	9	12	20	2	18	16	40	10
AUG								
09...	9	5	16	11	9	8	20	20
24...	13	5	14	2	11	12	30	9
SEP								
08...	8	9	19	4	13	13	20	17
27...	10	6	12	2	10	9	20	12

Table 1. Water-quality records at continuing-record sites--Continued

11261100 SALT SLOUGH AT STATE HIGHWAY 165, NEAR STEVINSON, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2410	2180	2310	1670	1520	1600	1670	1400	1530	1780	1680	1730
2	2420	2270	2300	1830	1560	1650	1620	1360	1470	1840	1670	1750
3	2270	2200	2250	1710	1520	1620	1720	1470	1600	1850	1740	1790
4	2240	2090	2140	1710	1520	1640	1740	1670	1710	1890	1730	1830
5	2130	2090	2110	1870	1630	1740	1700	1610	1660	1820	1710	1760
6	2100	2100	2100	1830	1790	1810	1770	1710	1750	1770	1620	1700
7	2190	1990	2100	1910	1790	1850	1700	1460	1570	1890	1710	1790
8	2150	1880	2010	1800	1680	1750	1480	1410	1440	1980	1780	1880
9	2040	1920	1990	1900	1730	1800	1550	1480	1510	1870	1760	1810
10	2050	2010	2010	1930	1670	1840	1560	1510	1530	1860	1750	1800
11	2130	2010	2070	1870	1770	1800	1720	1570	1650	1770	1690	1740
12	2140	2100	2120	1850	1670	1740	1970	1710	1850	1700	1610	1650
13	2100	1990	2060	1750	1620	1690	2040	1960	2000	1620	1560	1580
14	2110	1990	2060	1760	1650	1710	2010	1760	1860	1570	1450	1530
15	2310	2070	2230	1770	1630	1720	1750	1560	1640	1590	1450	1550
16	2310	2160	2260	1820	1630	1760	1730	1530	1590	1650	1560	1600
17	2200	2120	2170	1790	1680	1730	1740	1630	1670	1660	1540	1590
18	2170	2010	2090	1750	1620	1700	1840	1700	1770	1610	1540	1560
19	2010	1820	1960	1740	1630	1690	1910	1830	1860	1590	1510	1550
20	1820	1790	1800	1780	1560	1690	1900	1800	1840	1560	1440	1480
21	1790	1630	1720	1880	1610	1730	1860	1710	1780	1490	1340	1390
22	1870	1750	1820	1720	1550	1640	1820	1740	1770	1380	1330	1350
23	1830	1710	1770	1740	1570	1650	1860	1730	1780	1410	1280	1340
24	1950	1830	1920	1650	1500	1600	1810	1680	1750	1500	1380	1440
25	2060	1950	1970	1590	1420	1520	1730	1620	1670	1610	1470	1560
26	2140	1910	2030	1680	1490	1590	1790	1580	1680	1610	1560	1580
27	2030	1790	1870	1780	1570	1650	1820	1740	1770	1520	1370	1450
28	1830	1670	1760	1760	1470	1620	1800	1590	1670	1480	1360	1420
29	1790	1750	1760	1660	1390	1550	1570	1450	1500	1540	1410	1460
30	1750	1600	1700	1610	1370	1520	1830	1310	1530	1510	1470	1480
31	---	---	---	1640	1440	1550	---	---	---	1530	1430	1490
MONTH	2420	1600	2020	1930	1370	1680	2040	1310	1680	1980	1280	1600
AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1510	1410	1460	1410	1370	1400	1960	1690	1860	1840	1680	1770
2	1410	1360	1390	1660	1370	1560	1780	1410	1630	1840	1820	1830
3	1350	1260	1300	1640	1580	1600	1890	1570	1710	1880	1810	1840
4	1330	1240	1280	1600	1490	1540	2060	1630	1840	1940	1830	1870
5	1430	1340	1390	1560	1510	1530	1990	1720	1800	1990	1850	1900
6	1410	1300	1350	1560	1470	1510	2250	1870	1950	1950	1820	1890
7	1350	1230	1290	1470	1410	1440	1910	1750	1820	1950	1890	1910
8	1310	1210	1260	1430	1360	1390	1940	1790	1850	2000	1870	1950
9	1270	1200	1230	1590	1420	1500	1910	1640	1770	1990	1950	1970
10	1200	1130	1160	1650	1530	1570	1640	1530	1570	2040	1820	1960
11	1210	1160	1180	1690	1530	1610	1520	1450	1490	2040	1650	1850
12	1290	1210	1260	1570	1520	1540	1610	1380	1510	1960	1710	1860
13	1330	1280	1310	1530	1460	1500	1570	1270	1440	2100	1880	1980
14	1380	1320	1360	1570	1470	1520	1460	1360	1410	2020	1930	1970
15	1390	1320	1350	1640	1560	1590	1470	1350	1400	2120	1940	2020
16	1490	1400	1450	1630	1540	1580	1390	1300	1340	2070	1900	2010
17	1500	1330	1410	1930	1600	1750	1410	1350	1380	2110	1750	1980
18	1380	1240	1290	2010	1710	1880	1490	1400	1450	2250	2100	2190
19	1510	1390	1470	1820	1660	1750	1760	1380	1540	2150	1950	2050
20	1560	1380	1470	1950	1770	1840	1710	1260	1540	2170	1900	2080
21	1520	1340	1420	1890	1640	1780	1730	1630	1680	2120	1980	2070
22	1350	1300	1320	1670	1560	1620	1690	1450	1570	2210	1950	2090
23	1390	1280	1320	1670	1590	1630	1640	1240	1420	2280	2160	2230
24	1390	1310	1340	1670	1520	1590	1680	1370	1570	2340	2180	2270
25	1310	1250	1270	1650	1410	1550	1750	1510	1610	2500	1900	2180
26	1430	1280	1340	1550	1330	1450	1700	1540	1620	2110	1970	2050
27	1450	1370	1410	1500	1260	1370	1740	1450	1620	2220	1990	2100
28	1550	1380	1480	1750	1450	1620	1600	1550	1580	2390	2180	2290
29	1650	1550	1610	1710	1300	1600	1550	1490	1520	2520	2400	2460
30	1560	1410	1480	2200	1720	1800	1550	1500	1510	2720	2520	2640
31	1460	1400	1430	---	---	---	1670	1510	1600	---	---	---
MONTH	1650	1130	1360	2200	1260	1590	2250	1240	1600	2720	1650	2040

Table 1. Water-quality records at continuing-record sites--Continued

11261100 SALT SLOUGH AT STATE HIGHWAY 165, NEAR STEVINSON, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2650	2490	2560	3240	3050	3170	3430	3190	3310	2040	1900	1970
2	2730	2530	2660	3330	3190	3250	3410	3220	3320	1970	1770	1900
3	2690	2690	2690	3260	3200	3240	3370	3200	3300	2030	1880	1940
4	2690	2690	2690	3470	3230	3320	3300	2980	3180	2150	1960	2060
5	2680	2680	2680	3440	3250	3340	2970	2750	2830	2120	2040	2080
6	2680	2680	2680	3280	3110	3250	2820	2720	2780	2150	1990	2050
7	2680	2680	2680	3280	3120	3220	3010	2820	2920	2180	1990	2070
8	2670	2670	2670	3580	3280	3440	3010	2910	2970	2110	1940	2040
9	2670	2670	2670	3450	3270	3380	3080	2870	2950	2200	1990	2130
10	2810	2700	2750	3410	3300	3340	3070	2840	2960	2280	2140	2180
11	2970	2800	2850	3410	3290	3340	3170	2890	3010	2220	1970	2120
12	3010	2810	2930	3450	3270	3370	2920	2750	2850	2170	1970	2080
13	3020	2910	2950	3430	3300	3380	3000	2680	2890	2170	1960	2070
14	3070	2870	2990	3280	2940	3120	3070	2850	2970	2100	1780	1960
15	3160	2890	2980	3250	3140	3200	2860	2600	2700	2070	1980	2030
16	3170	2970	3120	3290	3130	3210	2710	2600	2650	2070	1990	2030
17	3650	3100	3380	3260	3020	3130	2940	2700	2820	2090	2030	2050
18	3090	3000	3040	3130	2730	2900	2950	2790	2880	2150	2030	2080
19	3340	3050	3190	2990	2730	2840	3040	2840	2930	2340	2110	2210
20	3300	3190	3260	3100	2830	2990	2950	2740	2870	2370	2180	2270
21	3470	3140	3270	3230	3100	3180	2730	2540	2640	2370	2270	2320
22	3430	3240	3280	3410	3140	3240	2740	2620	2670	2290	2080	2230
23	3310	2980	3240	3360	2900	3190	2600	2530	2570	2390	1860	2270
24	3270	2950	3100	3070	2870	2920	2620	2520	2560	2400	2350	2370
25	3330	3190	3270	3150	2910	3030	2680	2480	2560	2490	2370	2440
26	3210	3120	3160	3300	3070	3160	2680	2400	2500	2440	2320	2360
27	3300	3200	3240	3340	3000	3220	2470	2250	2370	2500	2400	2450
28	3250	3160	3200	3340	3290	3320	2440	2070	2300	2520	2450	2500
29	3230	2780	3060	3350	3250	3300	2150	2010	2090	2630	2510	2560
30	3110	2540	2860	3390	3270	3340	---	---	---	2650	2560	2600
31	3210	2590	3010	3410	3200	3310	---	---	---	2670	2500	2600
MONTH	3650	2490	2970	3580	2730	3210	3430	2010	2810	2670	1770	2190
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2830	2510	2640	2330	2220	2270	1660	1550	1620	1970	1840	1910
2	2870	2690	2760	2340	2220	2270	1660	1570	1610	1820	1720	1760
3	2740	2460	2570	2230	2110	2180	1650	1570	1610	1720	1640	1670
4	2460	2290	2370	2280	2200	2250	1660	1500	1590	1660	1610	1630
5	2450	2290	2370	2370	2240	2290	1730	1540	1650	1740	1650	1680
6	2610	2330	2480	2290	1830	2120	1720	1630	1680	1810	1530	1700
7	2620	2490	2540	2230	2140	2180	1630	1410	1500	1990	1830	1910
8	2710	2280	2520	2150	1960	2060	1520	1430	1470	2020	1890	1950
9	2580	2430	2510	2170	2010	2100	1440	1380	1420	2070	1960	2030
10	2570	2130	2270	2170	1900	2010	1560	1390	1460	2180	1960	2080
11	2210	2150	2190	2070	1950	2000	1830	1570	1750	2040	1960	2000
12	2320	2140	2210	2070	1920	1980	1890	1790	1830	2110	1780	1990
13	2250	2150	2210	2160	1920	2030	1890	1810	1860	1990	1910	1950
14	2180	2010	2140	2210	2010	2100	2020	1770	1860	2170	1920	2030
15	2000	1720	1840	1940	1790	1850	2170	1950	2040	2260	2080	2160
16	1720	1630	1660	1790	1680	1720	2150	1860	1970	2280	2180	2240
17	1690	1630	1670	1810	1610	1740	2050	1900	1950	2360	2210	2290
18	1870	1650	1740	1970	1810	1850	2040	1850	1950	2310	2220	2270
19	2030	1820	1910	1970	1820	1890	2090	1860	1960	2290	2130	2200
20	2040	1960	2010	2070	1670	1840	2060	1770	1880	2110	1910	2000
21	2000	1840	1960	1750	1620	1680	1770	1680	1740	2170	2050	2120
22	2200	1840	2000	1670	1550	1600	1800	1700	1760	2130	2070	2090
23	2390	2160	2320	1580	1540	1560	1780	1720	1750	2050	1930	1970
24	2400	2240	2280	1710	1520	1580	1770	1690	1730	1910	1840	1860
25	2170	2010	2130	1780	1640	1700	1860	1750	1810	1840	1780	1810
26	2280	2010	2160	1730	1600	1690	1810	1700	1750	2030	1720	1860
27	2250	2090	2160	1680	1600	1640	1800	1710	1760	2160	2010	2070
28	2410	2250	2340	1640	1440	1520	1770	1620	1670	2140	2060	2110
29	2560	2370	2440	1550	1390	1440	1840	1760	1790	2200	2040	2120
30	2530	2290	2440	1480	1380	1430	1910	1810	1840	2120	2030	2090
31	---	---	---	1540	1450	1480	---	---	---	2050	1930	2000
MONTH	2870	1630	2230	2370	1380	1870	2170	1380	1740	2360	1530	1990

Table 1. Water-quality records at continuing-record sites--*Continued*

11261100 SALT SLOUGH AT STATE HIGHWAY 165, NEAR STEVINSON, CA--*Continued*

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

AUGUST 1988				SEPTEMBER 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1930	1720	1820	1900	1710	1770
2	1740	1700	1720	1990	1860	1930
3	1800	1690	1730	1940	1730	1860
4	1820	1750	1780	1880	1730	1800
5	1830	1690	1780	1840	1780	1820
6	1690	1630	1650	1860	1820	1840
7	1720	1580	1640	1890	1800	1850
8	1740	1680	1700	2060	1850	1950
9	1790	1560	1670	1970	1800	1890
10	1960	1770	1860	2010	1790	1940
11	2070	1880	1990	1800	1680	1780
12	---	---	e2010	1650	1510	1560
13	---	---	e1960	1670	1510	1550
14	---	---	e1850	1690	1510	1620
15	---	---	e1780	1740	1610	1670
16	---	---	e1750	1880	1670	1750
17	---	---	e1680	1910	1420	1610
18	---	---	e1690	1680	1510	1620
19	---	---	e1750	1670	1540	1600
20	---	---	e1760	1630	1460	1570
21	---	---	e1760	1950	1520	1700
22	---	---	e1700	1910	1660	1750
23	---	---	e1690	1850	1430	1660
24	---	---	e1680	1770	1490	1590
25	1760	1610	1660	2020	1480	1590
26	1750	1660	1720	1620	1530	1590
27	1900	1720	1790	1620	1510	1540
28	1870	1660	1730	1550	1480	1510
29	1670	1580	1610	1560	1520	1550
30	1720	1540	1610	1770	1570	1660
31	1760	1680	1730	---	---	---
MONTH	---	---	e1750	2060	1420	1700

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued*

11261100 SALT SLOUGH AT STATE HIGHWAY 165, NEAR STEVINSON, CA--*Continued*

WATER TEMPERATURE (°C)

DAY	APRIL 1987			MAY 1987			JUNE 1987			JULY 1987		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	17.0	18.5	19.5	17.5	18.5	23.0	20.0	21.5	24.5	21.0	23.0
2	20.0	17.0	18.5	19.5	16.5	18.0	25.5	21.5	23.5	25.5	21.5	23.5
3	19.0	17.0	18.0	21.0	17.0	19.0	27.0	23.5	25.0	25.0	22.0	23.5
4	18.5	15.5	17.0	23.5	19.5	21.5	26.5	23.0	25.0	25.0	21.5	23.5
5	18.5	15.5	17.0	26.0	22.0	23.5	24.5	22.5	23.5	25.5	22.0	23.5
6	19.0	16.5	18.0	26.5	23.5	25.0	25.0	22.0	23.5	25.5	22.5	24.0
7	20.0	17.0	18.5	27.0	23.5	25.0	25.5	22.5	24.0	26.5	23.0	24.5
8	20.5	18.0	19.0	27.5	24.5	25.5	25.5	22.5	24.0	27.0	23.5	25.0
9	21.0	18.5	19.5	27.0	23.5	25.5	26.0	22.5	24.5	26.5	24.0	25.0
10	21.5	19.0	20.0	27.0	24.5	25.5	26.0	23.0	24.5	25.5	22.5	24.0
11	21.0	19.5	20.0	27.0	24.0	25.5	26.0	22.5	24.5	25.0	21.0	23.0
12	19.0	16.5	18.0	27.0	24.5	26.0	26.5	23.0	25.0	26.0	22.5	24.5
13	20.5	16.5	18.5	26.5	24.5	25.5	26.5	24.0	25.0	27.5	24.0	26.0
14	22.0	18.0	20.0	27.5	24.5	26.0	24.0	21.5	22.5	29.0	25.5	27.0
15	22.5	19.5	21.0	27.0	24.0	26.0	24.0	20.0	22.0	29.0	26.0	27.5
16	23.0	20.5	21.5	23.5	21.0	22.0	24.5	20.5	22.5	27.5	22.0	26.0
17	23.0	20.5	21.5	21.5	19.0	20.0	24.0	21.0	22.5	21.5	18.0	20.0
18	21.0	17.5	20.0	21.0	18.0	19.5	24.0	20.0	22.0	23.0	18.5	20.5
19	17.0	14.0	16.0	20.5	18.0	19.5	25.0	21.0	22.0	24.0	20.5	22.0
20	19.0	15.5	17.5	20.5	18.0	19.0	24.0	21.0	23.0	24.0	21.0	22.5
21	22.0	17.5	19.5	21.5	18.0	20.0	24.5	21.5	22.5	23.0	20.0	21.5
22	23.0	19.5	21.5	22.5	18.5	20.5	24.5	21.5	23.0	23.5	20.0	22.0
23	22.5	20.0	21.5	22.5	19.5	21.0	25.5	21.5	23.0	25.0	21.5	23.0
24	22.0	19.0	21.0	20.0	18.0	19.0	27.0	23.0	23.5	25.0	22.0	23.5
25	22.5	21.5	22.0	19.5	16.5	18.0	28.0	24.5	25.0	25.0	22.5	24.0
26	23.5	20.5	22.0	19.5	16.0	17.5	27.5	25.0	26.0	25.0	22.0	23.5
27	25.0	21.0	23.0	20.5	17.0	18.5	27.0	24.0	26.5	25.0	22.0	23.5
28	23.5	22.0	23.0	21.5	18.0	19.5	26.0	23.0	25.5	25.5	22.0	23.5
29	22.5	20.0	21.5	22.0	19.0	20.5	25.5	22.0	24.5	25.0	22.0	23.5
30	21.0	18.5	20.0	22.0	19.0	20.5	25.5	22.5	24.0	24.5	21.5	23.0
31	---	---	---	23.0	19.5	21.0	---	---	---	25.5	22.0	24.0
MONTH	25.0	14.0	19.8	27.5	16.0	21.7	28.0	20.0	23.8	29.0	18.0	23.7
DAY	AUGUST 1987			SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	27.5	23.5	25.5	27.5	24.5	26.0	24.3	21.8	23.0	17.5	16.6	17.0
2	28.0	25.0	26.5	27.5	25.0	26.5	24.0	21.6	23.0	16.8	15.2	16.0
3	28.0	25.0	26.5	27.0	25.0	26.0	24.1	21.5	23.0	15.9	14.0	15.0
4	28.0	25.5	27.0	25.5	23.0	24.5	24.3	21.6	23.0	15.7	14.2	15.0
5	28.0	25.5	27.0	23.5	21.0	22.5	24.3	21.3	23.0	15.9	14.4	15.0
6	28.5	25.0	26.5	23.0	20.0	21.5	24.1	21.5	22.5	16.1	15.0	15.5
7	27.5	24.5	26.0	23.5	20.5	22.0	23.6	20.9	22.5	17.0	15.0	16.0
8	26.5	23.5	25.0	24.5	21.0	23.0	22.9	19.7	21.5	16.8	15.1	16.0
9	27.5	24.0	25.5	25.0	22.5	23.5	21.9	19.1	20.5	17.3	15.6	16.5
10	27.0	24.0	25.5	23.5	21.0	22.5	21.6	18.4	20.0	16.3	15.3	16.0
11	26.0	23.0	24.5	23.0	20.5	22.0	22.1	18.5	20.0	15.8	14.1	15.0
12	25.5	23.0	24.5	22.5	20.0	21.5	21.2	18.9	20.0	14.9	14.3	14.5
13	25.0	22.0	23.5	21.0	19.0	20.0	20.9	18.1	19.5	14.5	14.0	14.5
14	23.0	20.5	21.5	22.0	19.0	20.5	20.9	18.1	19.5	14.2	12.9	13.5
15	23.5	19.5	21.5	23.0	19.5	21.0	20.6	18.1	19.5	13.0	11.5	12.5
16	25.5	21.5	23.5	23.0	20.5	21.5	20.4	18.0	19.0	13.0	11.8	12.5
17	26.5	23.0	24.5	23.5	20.5	22.0	20.1	17.5	19.0	12.9	12.3	12.5
18	26.0	23.0	24.5	23.5	20.5	22.0	20.0	17.7	19.0	14.9	12.9	13.5
19	24.0	21.5	22.5	24.0	21.0	22.5	19.8	17.6	18.5	14.6	13.9	14.0
20	24.5	21.5	23.0	24.0	20.5	22.5	19.1	17.6	18.5	13.7	12.7	13.0
21	24.5	21.5	23.0	24.0	21.0	22.5	19.7	17.2	18.5	12.6	11.8	12.0
22	24.5	21.0	22.5	24.0	21.5	22.5	19.4	18.6	19.0	12.9	11.2	12.0
23	24.0	20.5	22.5	23.5	20.5	22.0	20.3	18.2	19.0	12.6	11.1	12.0
24	24.5	21.0	23.0	23.0	20.0	22.0	20.1	18.4	19.5	12.3	10.7	11.5
25	25.5	22.5	24.0	23.5	20.5	22.0	20.6	18.6	19.5	11.2	9.7	10.5
26	26.0	23.0	24.5	22.5	20.0	21.5	20.9	19.0	20.0	10.6	8.9	10.0
27	26.0	23.0	25.5	23.0	20.0	21.5	20.3	19.6	20.0	10.5	8.7	9.5
28	26.5	23.5	25.0	23.5	20.5	22.0	20.8	19.3	20.0	11.2	9.2	10.0
29	27.0	24.0	25.5	24.0	21.0	22.5	20.2	19.3	20.0	11.1	9.2	10.0
30	27.5	24.5	26.0	24.5	21.5	23.0	19.3	18.0	19.0	10.8	9.8	10.0
31	27.0	24.0	25.5	---	---	---	18.6	17.4	18.0	---	---	---
MONTH	28.5	19.5	24.6	27.5	19.0	22.5	24.3	17.2	20.2	17.5	8.7	13.4

Table 1. Water-quality records at continuing-record sites--Continued

11261100 SALT SLOUGH AT STATE HIGHWAY 165, NEAR STEVINSON, CA--Continued

WATER TEMPERATURE (°C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.7	10.7	11.5	7.0	6.4	6.5	12.9	11.2	12.0	16.1	14.5	15.5
2	---	---	e12.0	7.5	6.7	7.0	12.0	10.4	11.0	15.3	13.2	14.5
3	---	---	e12.0	8.1	7.4	8.0	11.5	9.3	10.5	15.6	13.2	14.5
4	---	---	e13.0	9.6	8.0	9.0	11.2	8.9	10.0	16.8	14.3	15.5
5	---	---	e12.0	11.2	9.6	10.5	11.1	8.7	10.0	17.8	15.3	16.5
6	---	---	e12.0	10.4	9.5	10.0	11.2	9.1	10.0	17.4	15.9	16.5
7	---	---	e11.5	11.0	9.5	10.0	11.7	9.4	10.5	17.0	14.9	16.0
8	---	---	e11.5	11.1	10.1	10.5	12.3	9.9	11.0	17.6	14.8	16.5
9	---	---	e12.0	11.4	9.8	10.5	13.2	10.6	12.0	16.9	14.6	16.0
10	13.9	11.9	13.0	11.2	10.6	11.0	14.1	11.7	13.0	14.4	11.6	13.0
11	13.0	9.7	11.5	12.0	10.5	11.0	14.6	12.2	13.5	12.4	9.9	11.5
12	9.3	6.9	8.0	11.0	9.1	10.0	14.9	12.6	14.0	13.4	10.4	12.0
13	6.5	4.6	5.5	10.7	9.0	10.0	14.8	13.0	14.0	14.7	11.5	13.0
14	6.2	4.4	5.5	9.9	8.6	9.5	14.4	12.3	13.5	15.2	12.4	14.0
15	5.6	4.9	5.5	11.0	9.6	10.0	14.4	12.1	13.5	15.9	13.5	15.0
16	6.6	5.4	6.0	10.5	9.5	10.0	13.3	11.3	12.5	15.9	13.5	15.0
17	9.1	6.6	7.5	9.7	8.3	9.5	12.4	9.5	11.0	16.8	13.7	15.5
18	9.5	7.4	8.5	9.1	7.2	8.0	12.1	10.1	11.0	17.9	14.8	16.5
19	10.8	9.0	10.0	9.1	7.3	8.5	12.6	9.5	11.0	19.1	16.0	17.5
20	9.5	8.5	9.0	9.4	7.4	8.5	13.1	10.2	11.5	19.8	17.1	18.5
21	10.1	8.3	9.0	9.8	7.7	9.0	13.7	11.3	12.5	19.2	17.2	18.0
22	10.1	8.7	9.5	10.0	8.1	9.0	14.6	11.7	13.0	18.7	16.2	17.5
23	8.4	6.0	7.0	10.7	8.5	9.5	14.3	12.3	13.5	19.2	16.5	18.0
24	5.7	3.8	5.0	11.1	9.0	10.0	14.8	12.4	13.5	17.6	15.2	16.5
25	5.5	3.0	4.5	11.9	9.5	10.5	15.4	12.9	14.0	18.8	15.4	17.0
26	6.2	3.7	5.0	11.6	10.2	11.0	16.2	14.3	15.0	20.2	16.8	18.5
27	6.2	4.5	5.5	11.9	10.2	11.0	16.7	15.6	16.0	19.2	13.5	16.5
28	7.9	6.1	7.0	12.7	10.7	11.5	17.2	14.9	16.0	14.2	10.8	12.5
29	7.5	7.0	7.0	13.4	11.8	12.5	16.4	15.6	16.0	16.2	12.2	14.0
30	8.5	6.4	7.5	13.6	11.7	12.5	---	---	---	15.4	13.3	14.5
31	8.1	6.8	7.5	13.1	11.2	12.0	---	---	---	16.1	12.2	14.0
MONTH	---	---	e8.8	13.6	6.4	9.9	17.2	8.7	12.6	20.2	9.9	15.2
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.1	14.0	16.0	16.5	14.0	15.5	23.5	19.6	21.0	27.2	23.1	25.0
2	19.6	15.8	17.5	17.5	14.0	16.0	25.3	21.2	23.0	28.2	24.4	26.0
3	19.2	16.5	18.0	19.5	16.0	17.5	24.9	21.7	23.5	28.5	25.4	27.0
4	19.3	16.9	18.0	19.0	17.0	18.0	23.9	20.5	22.5	27.2	23.4	25.0
5	20.0	16.4	18.5	17.0	15.0	16.0	21.7	18.7	20.5	25.0	22.0	23.5
6	20.6	17.9	19.5	17.0	14.0	15.5	20.5	17.8	19.5	25.3	21.9	23.5
7	21.0	18.5	19.5	17.0	15.0	16.0	20.6	17.2	19.0	26.9	23.0	25.0
8	18.2	14.9	16.5	19.5	15.0	17.0	21.3	17.3	19.0	27.1	24.1	25.5
9	19.4	15.3	17.5	20.5	16.5	18.5	22.5	18.7	20.5	27.9	24.3	26.0
10	21.4	17.4	19.5	23.0	18.5	20.5	23.7	19.9	21.5	29.0	25.5	27.0
11	23.1	19.3	21.5	25.0	20.5	22.5	24.2	21.0	22.5	26.8	24.5	25.5
12	22.2	19.9	21.0	24.5	21.5	23.0	23.6	20.2	22.0	25.9	22.5	24.0
13	20.7	14.5	19.0	21.5	19.0	20.0	25.4	21.1	23.0	26.7	23.1	25.0
14	18.7	16.4	17.5	22.0	18.0	20.0	26.8	23.1	25.0	27.1	23.8	25.5
15	16.4	15.3	15.5	23.0	19.0	20.5	26.6	23.6	25.5	27.4	24.1	26.0
16	15.8	14.5	15.0	20.0	---	e19.0	25.9	22.5	24.5	27.7	24.2	26.0
17	18.5	14.9	16.5	---	---	e19.0	25.5	21.8	23.5	29.0	25.2	27.0
18	20.0	16.6	18.0	21.0	---	e19.0	26.6	22.7	24.5	29.4	26.1	28.0
19	18.5	16.5	17.5	22.5	18.5	20.5	28.7	24.7	26.5	29.3	25.4	27.5
20	16.5	15.0	15.5	25.5	20.9	23.0	27.4	23.6	25.0	29.4	25.9	27.5
21	17.5	14.0	15.5	27.0	23.0	25.0	24.4	20.7	22.5	29.2	25.8	27.5
22	17.5	15.0	16.0	26.0	22.6	24.5	25.8	22.3	24.0	29.2	25.6	27.5
23	16.5	15.5	16.0	25.5	21.7	23.5	25.3	23.8	24.5	29.2	26.1	28.0
24	18.0	16.5	17.0	24.9	21.4	23.5	26.1	23.5	24.5	29.7	26.5	28.0
25	20.5	19.0	19.0	23.6	19.8	21.5	24.3	21.4	22.5	29.9	26.9	28.5
26	21.5	18.0	19.0	22.8	19.6	21.5	24.7	20.9	22.5	30.1	27.0	28.5
27	22.0	20.0	21.0	23.9	19.9	21.5	25.7	22.3	24.0	30.2	27.0	28.5
28	21.5	18.5	19.5	22.9	20.6	21.5	25.2	22.6	24.0	29.8	26.4	28.5
29	21.0	18.0	19.0	20.3	17.8	19.0	24.2	20.0	22.0	30.1	26.3	28.5
30	19.0	17.0	18.0	20.0	16.7	18.5	25.3	20.7	22.5	30.4	26.8	28.5
31	---	---	---	21.3	17.4	19.0	---	---	---	28.2	25.4	27.0
MONTH	23.1	14.0	17.9	---	---	e19.9	28.7	17.2	22.8	30.4	21.9	26.6

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11261100 SALT SLOUGH AT STATE HIGHWAY 165, NEAR STEVINSON, CA--Continued

WATER TEMPERATURE (°C)

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	28.0	24.7	26.5	27.6	25.3	26.5
2	27.2	24.5	26.0	27.3	24.8	26.0
3	26.4	23.4	25.0	27.4	24.7	26.0
4	25.9	23.7	25.0	28.5	25.3	27.0
5	26.4	23.4	25.0	28.5	26.0	27.5
6	25.8	23.0	24.5	28.1	25.7	27.0
7	25.4	22.3	24.0	26.5	23.8	25.5
8	26.2	22.7	24.5	25.9	23.1	24.5
9	26.3	23.5	25.0	24.5	22.3	23.5
10	26.3	23.4	25.0	23.9	21.1	22.5
11	24.9	22.3	23.5	22.7	20.8	22.0
12	---	---	e23.0	22.2	20.0	21.0
13	---	---	e23.0	22.5	19.6	21.0
14	---	---	e23.0	23.4	20.1	22.0
15	---	---	e22.5	23.4	20.8	22.0
16	---	---	e23.0	23.3	20.5	22.0
17	---	---	e24.0	22.2	19.9	21.0
18	---	---	e25.0	20.8	18.3	19.5
19	---	---	e26.0	20.5	18.3	19.5
20	---	---	e26.0	20.0	18.0	19.0
21	---	---	e25.0	20.9	17.9	19.5
22	---	---	e25.0	21.6	18.6	20.0
23	---	---	e25.0	22.6	19.4	21.0
24	---	---	e25.0	22.7	20.0	21.5
25	26.7	24.0	25.5	21.4	18.9	20.0
26	27.7	25.1	26.5	21.2	18.4	20.0
27	28.0	25.4	26.5	21.0	18.5	20.0
28	27.2	25.1	26.5	21.7	18.8	20.5
29	27.6	24.8	26.5	22.5	19.3	21.0
30	28.6	25.6	27.0	23.7	20.1	22.0
31	28.3	25.8	27.0	---	---	---
MONTH	---	---	e25.0	28.5	17.9	22.3

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11261500 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE, CA

LOCATION.--Lat 37°18'35", long 120°55'47", in NW 1/4 SE 1/4 sec. 24, T.7 S., R.9 E., Merced County, Hydrologic Unit 18040001, on left bank 20 ft upstream from Fremont Ford bridge, 2.1 mi downstream from Salt Slough, 4.5 mi west of Stevinson, and 6.7 mi upstream from Merced River, on State Highway 140.

DRAINAGE AREA.--7,615 mi².

PERIOD OF RECORD.--June 1985 to September 1988.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1985 to September 1988.

WATER TEMPERATURE: October 1985 to September 1988.

INSTRUMENTATION.--Minimonitor recorder since October 1985.

REMARKS.--Periods when maximums and/or minimums were not recorded were due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 7,100 microsiemens, Dec. 14, 1986; minimum daily, 50 microsiemens, Apr. 5, 1986.

WATER TEMPERATURE: Maximum recorded, 32.0 °C, July 27, 1988; minimum recorded, 2.0 °C, Dec. 25, 1987.

WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS, TOTAL (MG/L AS CaCO ₃)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO ₃	CALCIUM, DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)
APR 1987												
21...	1215	309	1950	8.0	19.5	765	8.0	410	230	93	44	260
MAY												
21...	1400	388	1540	8.0	21.5	760	8.1	340	190	80	33	180
JUN												
16...	1445	350	1690	8.1	25.5	760	8.2	360	200	88	34	190
JUL												
22...	1315	338	1370	8.0	23.0	760	--	290	150	70	29	160
AUG												
18...	1100	248	1360	8.0	25.0	760	7.4	260	120	61	26	150
SEP												
22...	1100	242	1530	8.1	22.0	760	8.6	320	160	74	33	190
OCT												
20...	1230	188	1520	7.7	18.0	760	9.8	330	160	73	37	210
NOV												
17...	1230	259	1970	7.8	12.5	760	9.9	420	230	94	46	270
DEC												
15...	1300	163	2650	7.9	5.5	760	12.3	670	440	150	72	380
JAN 1988												
20...	1330	373	2000	8.0	8.0	770	11.4	440	240	100	45	260
FEB												
17...	1230	261	2650	8.0	11.5	770	11.7	630	440	150	61	370
MAR												
14...	1330	400	2090	8.0	15.0	760	9.6	500	320	120	49	270
APR												
19...	1300	428	1710	7.7	17.5	755	8.4	380	230	88	38	210
MAY												
18...	1400	269	1930	8.0	22.0	760	8.1	430	260	100	44	240
JUN												
22...	1315	339	1730	7.8	25.0	755	7.4	390	230	92	39	220
JUL												
19...	1330	248	2280	7.9	28.5	760	8.5	500	330	120	49	290
AUG												
24...	1415	406	1710	7.8	26.0	760	7.3	360	210	84	37	220
SEP												
27...	1415	252	1520	7.9	22.0	765	9.0	310	160	69	34	190

Table 1. Water-quality records at continuing-record sites--*Continued*11261500 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE, CA--*Continued*

WATER QUALITY DATA

DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L AS CAC03)	SULFATE, DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 °C, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)
APR 1987												
21...	57	6	5.3	179	360	290	0.3	19	1200	1000	1.63	3.0
MAY												
21...	53	4	4.5	150	300	210	0.3	16	1010	1060	1.37	3.6
JUN												
16...	53	4	4.0	156	330	250	0.3	18	1100	1040	1.50	4.4
JUL												
22...	54	4	3.8	142	250	210	0.3	20	871	795	1.18	3.7
AUG												
18...	55	4	4.5	144	190	--	0.3	21	795	--	--	2.0
SEP												
22...	56	5	5.0	166	280	220	0.2	17	990	647	1.35	2.1
OCT												
20...	57	5	5.1	174	270	160	0.2	18	995	505	1.35	1.8
NOV												
17...	58	6	5.6	193	380	350	0.3	20	1320	923	1.80	2.3
DEC												
15...	55	7	5.9	230	570	520	0.3	20	1810	797	2.46	3.5
JAN 1988												
20...	56	6	9.1	197	430	280	0.4	17	1290	1300	1.75	5.5
FEB												
17...	56	7	5.9	190	640	480	0.3	16	1840	1300	2.50	8.1
MAR												
14...	54	5	4.6	180	470	240	0.3	21	1380	1490	1.88	6.6
APR												
19...	54	5	4.5	151	370	250	0.3	19	1110	1280	1.51	4.7
MAY												
18...	54	5	5.0	172	400	140	0.3	20	1230	893	1.67	4.1
JUN												
22...	55	5	4.7	157	390	230	0.4	19	1160	1060	1.58	5.4
JUL												
19...	55	6	4.7	174	570	320	0.3	20	1530	1020	2.08	5.1
AUG												
24...	57	5	4.6	153	360	250	0.2	20	1100	1210	1.50	3.3
SEP												
27...	57	5	4.5	148	280	240	0.2	53	952	648	1.29	3.0

Table 1. Water-quality records at continuing-record sites--Continued

11261500 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE, CA--Continued

WATER QUALITY DATA

DATE	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS NH ₄)	NITRO- GEN, AM- MONIA + ORGANIC, TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC, TOTAL (MG/L AS C)	CHLOR-A PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	SED. SUSP., SIEVE DIAM. % FINER THAN 0.062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
APR 1987												
21...	0.13	0.17	1.6	0.28	0.17	0.13	7.2	12	1.2	93	175	146
MAY												
21...	0.06	0.08	1.8	0.38	0.17	0.14	10	22	1.4	98	205	215
JUN												
16...	0.05	0.06	1.9	0.42	0.23	0.20	9.5	30	2.3	95	241	228
JUL												
22...	0.09	0.12	2.0	0.40	0.19	0.16	10	29	0.70	97	204	186
AUG												
18...	0.04	0.05	1.7	0.36	0.18	0.15	7.5	16	1.0	98	206	138
SEP												
22...	0.02	0.03	1.2	0.25	0.13	0.10	7.9	39	7.3	--	--	--
OCT												
20...	0.05	0.06	1.6	0.15	0.08	0.09	6.8	25	1.1	95	115	58
NOV												
17...	0.09	0.12	0.80	0.15	0.12	0.09	8.0	--	--	--	--	--
DEC												
15...	0.20	0.26	0.40	0.11	0.09	0.06	7.3	5.8	0.30	88	21	9.2
JAN 1988												
20...	0.74	0.95	2.7	0.55	0.46	0.42	12	27	1.1	94	85	86
FEB												
17...	0.19	0.24	1.5	0.25	0.14	0.12	7.8	10	2.2	98	363	256
MAR												
14...	0.07	0.09	1.4	0.22	0.17	0.17	7.7	8.0	0.80	--	--	--
APR												
19...	0.13	0.17	1.8	0.38	0.21	0.18	7.0	12	0.70	--	--	--
MAY												
18...	0.13	0.17	1.4	0.29	0.17	0.14	8.1	11	0.70	95	122	89
JUN												
22...	0.04	0.05	1.0	0.24	0.21	0.18	8.5	8.1	0.60	92	153	140
JUL												
19...	0.02	0.03	1.6	0.31	0.18	0.14	7.0	39	1.8	90	176	118
AUG												
24...	0.04	0.05	1.0	0.23	0.19	0.17	8.7	11	0.80	92	163	179
SEP												
27...	0.07	0.09	1.8	0.28	0.13	0.11	8.8	24	1.3	94	150	102

Table 1. Water-quality records at continuing-record sites--Continued

11261500 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE, CA--Continued

WATER QUALITY DATA									
DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, TOTAL (UG/L AS AS)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
APR 1987									
21...	1300	<10	5	4	1300	1400	4	8	<1
MAY									
21...	3900	20	5	3	1400	1400	--	10	2
JUN									
16...	3000	10	5	4	1500	1600	7	9	3
JUL									
22...	6000	90	6	4	1200	1100	40	10	2
AUG									
18...	400	<10	5	4	730	780	<1	9	2
SEP									
22...	3300	10	4	4	1400	1300	24	7	1
OCT									
20...	3900	<10	4	3	1200	1200	9	12	1
NOV									
17...	1700	<10	4	3	1800	1700	6	6	1
DEC									
15...	520	10	3	2	2200	2200	5	2	2
JAN 1988									
20...	1500	10	4	3	1800	1800	6	10	<1
FEB									
17...	1800	<10	3	2	2600	2700	9	6	1
MAR									
14...	6300	<10	7	3	1800	1800	15	10	4
APR									
19...	4800	<10	7	5	1500	1500	12	7	1
MAY									
18...	3300	<10	5	4	1600	1600	10	6	6
JUN									
22...	4300	10	6	5	1800	1900	10	8	1
JUL									
19...	5300	20	7	3	2500	2600	16	11	2
AUG									
24...	4400	30	6	5	1600	1600	15	10	3
SEP									
27...	4800	10	4	3	970	1200	10	8	2

Table 1. Water-quality records at continuing-record sites--Continued

11261500 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE, CA--Continued

WATER QUALITY DATA

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM, TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY, DIS- SOLVED (UG/L AS HG)
APR 1987									
21...	2400	10	<10	40	39	520	260	0.2	<0.1
MAY									
21...	5600	16	<5	40	35	330	66	<0.1	<0.1
JUN									
16...	4400	14	<5	40	37	310	64	--	0.1
JUL									
22...	4800	8	5	40	33	310	44	3.5	<0.1
AUG									
18...	5800	23	<5	30	21	310	73	<0.1	<0.1
SEP									
22...	4300	11	<5	30	23	290	61	1.8	<0.1
OCT									
20...	5400	6	<5	30	19	370	98	<0.1	0.1
NOV									
17...	2500	<10	<5	30	30	250	120	<0.1	<0.1
DEC									
15...	1000	20	<5	40	40	630	500	<0.1	<0.1
JAN 1988									
20...	2700	15	<5	40	37	440	280	<0.1	--
FEB									
17...	2500	30	<5	50	50	440	310	<0.1	<0.1
MAR									
14...	11000	20	<5	60	40	620	110	<0.1	<0.1
APR									
19...	7800	8	<5	40	41	820	94	<0.1	<0.1
MAY									
18...	4800	14	<5	50	39	360	130	<0.1	<0.1
JUN									
22...	5700	10	<5	40	37	300	39	<0.1	<0.1
JUL									
19...	6700	100	<5	60	50	310	40	<0.1	<0.1
AUG									
24...	5600	13	5	40	35	270	25	<0.1	<0.1
SEP									
27...	5200	50	<5	20	18	190	140	<0.1	<0.1

Table 1. Water-quality records at continuing-record sites--Continued

11261500 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE, CA--Continued

WATER QUALITY DATA

DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 1987								
21...	7	--	4	2	9	8	<10	6
MAY								
21...	10	9	11	1	11	10	10	6
JUN								
16...	4	4	9	2	9	9	<10	12
JUL								
22...	2	4	16	<1	7	7	<10	5
AUG								
18...	8	5	9	4	4	4	20	3
SEP								
22...	8	7	4	2	8	7	20	<3
OCT								
20...	7	6	6	<1	6	6	20	<3
NOV								
17...	9	9	7	<1	7	7	20	<10
DEC								
15...	10	12	6	3	8	8	<10	<10
JAN 1988								
20...	10	7	5	3	12	12	10	<3
FEB								
17...	11	11	7	3	21	22	20	10
MAR								
14...	9	9	14	8	12	13	40	10
APR								
19...	8	6	15	5	12	13	20	16
MAY								
18...	8	8	12	2	11	10	20	9
JUN								
22...	11	7	12	7	10	11	30	10
JUL								
19...	11	13	14	1	17	19	30	<10
AUG								
24...	10	6	11	3	11	11	20	--
SEP								
27...	10	6	11	3	9	9	10	--

Table 1. Water-quality records at continuing-record sites--Continued

11261500 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1970	1940	1950	1900	1760	1830	1530	1500	1510	1610	1530	1580
2	2000	1950	1970	1790	1750	1770	1540	1500	1520	1610	1580	1590
3	2000	1950	1980	1780	1710	1740	1560	1510	1530	1630	1590	1620
4	2010	1980	1990	1750	1720	1740	1570	1540	1560	1650	1610	1630
5	1990	1950	1970	1750	1730	1740	1600	1570	1580	1630	1600	1610
6	1950	1930	1940	1760	1730	1740	1600	1580	1590	1900	1590	1760
7	1960	1920	1940	1780	1750	1760	1620	1590	1610	1920	1780	1870
8	1990	1950	1970	1780	1730	1770	1610	1520	1570	1840	1790	1810
9	1950	1910	1930	1780	1730	1760	1530	1500	1520	1810	1700	1740
10	1960	1920	1940	1790	1760	1770	1570	1510	1540	1750	1700	1720
11	1980	1950	1970	1770	1760	1770	1600	1560	1570	1760	1680	1710
12	2040	1980	2010	1760	1700	1740	1680	1600	1640	1720	1620	1680
13	2050	2020	2030	1700	1670	1700	1760	1690	1720	1610	1570	1600
14	2050	2010	2030	1690	1660	1680	1770	1750	1760	1580	1490	1540
15	2130	2040	2070	1680	1660	1670	1760	1710	1740	1510	1490	1500
16	2220	2140	2170	1670	1650	1660	1700	1670	1680	1530	1500	1520
17	2220	2160	2190	1660	1640	1650	1690	1670	1680	1570	1530	1550
18	2150	2120	2140	1650	1620	1640	1690	1660	1670	1540	1480	1510
19	2150	2080	2120	1630	1610	1620	1720	1700	1710	1500	1460	1480
20	2080	1980	2020	---	---	e1580	1710	1690	1700	1470	1430	1460
21	1970	1900	1950	1560	1530	1540	1690	1630	1670	1430	1390	1420
22	1950	1880	1920	1530	1510	1530	2340	1630	1830	1390	1360	1370
23	1970	1870	1950	1550	1510	1520	1930	1560	1670	1360	1330	1350
24	1870	1800	1830	1550	1530	1540	1930	1820	1870	1410	1330	1360
25	1880	1850	1870	1540	1520	1530	1830	1630	1780	1430	1410	1420
26	1950	1850	1890	1550	1510	1530	1630	1600	1610	1440	1410	1420
27	1860	1760	1790	1570	1530	1560	1740	1600	1670	1430	1400	1420
28	1770	1720	1750	1550	1530	1540	1730	1660	1700	1400	1360	1380
29	2020	1680	1830	1540	1510	1530	1650	1570	1620	1370	1350	1360
30	2010	1900	1950	1520	1500	1510	1570	1510	1550	1380	1360	1370
31	---	---	---	1510	1500	1500	---	---	---	1390	1370	1380
MONTH	2220	1680	1970	---	---	e1650	2340	1500	1650	1920	1330	1540
AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1400	1370	1380	1360	1240	1320	1120	1070	1090	2070	1750	1890
2	1390	1360	1380	1320	1230	1260	1150	1130	1140	2100	2080	2100
3	1360	1340	1350	1350	1310	1330	1140	1120	1130	2100	2070	2080
4	1360	1340	1350	1350	1320	1340	1160	1130	1140	2110	2070	2090
5	1370	1350	1360	1360	1320	1340	1200	1160	1180	2160	2070	2140
6	1400	1360	1380	1370	1360	1360	1230	1200	1210	2150	2040	2100
7	1410	1390	1390	1370	1340	1350	1270	1230	1250	2180	2130	2160
8	1400	1380	1390	1340	1330	1330	1260	1150	1190	2140	2100	2120
9	1370	1300	1340	1360	1320	1340	1180	1140	1160	2140	2100	2120
10	1290	1260	1270	1400	1350	1370	1140	1110	1130	2180	2130	2150
11	1280	1250	1260	1430	1390	1410	1110	1080	1100	2180	2030	2090
12	1310	1260	1290	1430	1380	1410	1120	1090	1100	2020	1930	1970
13	1320	1290	1310	1390	1360	1370	1160	1110	1130	2020	1990	2000
14	1370	1320	1340	1400	1360	1380	1200	1160	1180	2020	1990	2010
15	1370	1360	1370	1440	1400	1420	1230	1190	1200	2010	1970	1990
16	1410	1340	1370	1470	1440	1460	1350	1220	1260	2010	1950	1970
17	1430	1410	1410	1480	1450	1460	1410	1270	1340	1970	1950	1970
18	1400	1240	1330	1520	1470	1500	1460	1410	1420	2050	1890	1960
19	1340	789	1260	1520	1500	1510	1510	1450	1470	2050	1990	2030
20	1420	1280	1390	1530	1490	1510	1540	1510	1520	2000	1950	1970
21	1450	1400	1420	1540	1520	1530	1570	1530	1540	2010	1990	2000
22	1430	1240	1330	1540	1480	1520	1590	1550	1570	2020	1990	2000
23	1240	1180	1210	1530	1480	1500	1540	1440	1500	2100	2010	2060
24	1250	1190	1220	1520	1490	1510	1620	1380	1490	2130	2100	2120
25	1190	1160	1170	1570	1520	1540	1640	1620	1630	2190	2130	2160
26	1280	1150	1180	1600	1550	1580	1890	1630	1770	2130	2040	2090
27	1230	1200	1220	1580	1010	1430	1910	1790	1850	2050	1950	2020
28	1240	1200	1210	1070	998	1030	1810	1730	1770	1850	1910	1930
29	1630	1240	1350	1060	1010	1020	1740	1710	1730	1960	1910	1930
30	1590	1370	1480	1070	1020	1040	1720	1700	1710	2060	1960	2000
31	1390	1270	1300	---	---	---	1750	1690	1710	---	---	---
MONTH	1630	789	1320	1600	998	1380	1910	1070	1370	2190	1750	2040

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11261500 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2180	2060	2120	2290	2240	2270	1650	1560	1600	2000	1930	1960
2	2290	2180	2230	2340	2280	2310	1570	1540	1560	2040	1840	1940
3	2360	2300	2330	2400	2350	2380	1540	1500	1520	1840	1810	1820
4	2410	2360	2390	2420	2390	2410	1510	1470	1490	1860	1810	1840
5	2440	2400	2420	2490	2410	2450	1470	1240	1370	1890	1860	1870
6	2450	2350	2400	2490	2470	2480	1280	1160	1200	1900	1870	1880
7	2390	2350	2370	2580	2480	2530	1170	1140	1150	1920	1880	1900
8	2400	2370	2380	2630	2580	2610	1190	1160	1180	1990	1910	1970
9	2440	2380	2420	2680	2600	2640	1220	1160	1180	2000	1970	1980
10	2470	2440	2460	2650	2600	2630	1370	1180	1270	2030	1990	2010
11	2530	2470	2490	2630	2540	2600	2340	1350	1820	2060	2020	2040
12	2600	2510	2550	2550	2520	2530	2740	2400	2550	2070	2050	2060
13	2640	2590	2620	2550	2520	2540	2760	2580	2680	2090	2070	2080
14	2650	2620	2640	2590	2480	2560	2660	2520	2580	2100	1650	1970
15	2660	2640	2650	2480	2440	2460	3030	2620	2780	1660	1430	1580
16	2700	2650	2680	2460	2420	2440	3610	2670	3270	1460	1430	1440
17	2780	2700	2730	2440	2340	2380	3250	2640	2810	1470	1420	1450
18	2890	2790	2840	2340	2160	2270	2640	1850	2410	1440	1410	1430
19	2800	2760	2780	2150	2040	2110	2220	2150	2200	1480	1430	1460
20	2820	2760	2790	2080	2000	2020	2210	2140	2180	1540	1480	1500
21	2800	2740	2770	2090	2060	2070	2140	1900	2020	1570	1530	1550
22	2800	2730	2770	2070	2030	2060	1970	1900	1930	1590	1560	1580
23	2760	2730	2740	2180	2080	2140	1970	1930	1940	1600	1580	1590
24	2740	2680	2720	2140	2020	2080	1960	1930	1950	1630	1590	1610
25	2750	2670	2700	2040	2000	2010	2060	1940	1970	1650	1620	1630
26	2770	2730	2750	2090	2040	2070	2060	1970	2010	1670	1650	1660
27	2760	2740	2750	2120	2060	2090	2010	1890	1970	2740	1660	2280
28	2730	2660	2700	2070	1900	1950	1940	1900	1920	2690	2180	2390
29	2670	2590	2650	1890	1780	1830	2040	1920	1950	2260	1830	2130
30	2590	2350	2450	1790	1710	1740	---	---	---	2190	1690	1870
31	2360	2230	2300	1710	1650	1680	---	---	---	2220	2120	2180
MONTH	2890	2060	2570	2680	1650	2270	3610	1140	1950	2740	1410	1830
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2140	1880	2060	2260	1970	2110	1640	1480	1570	2000	1860	1950
2	2120	2020	2080	1990	1970	1980	1640	1580	1610	1870	1780	1820
3	2100	1910	2010	1990	1950	1980	1620	1590	1610	1790	1740	1770
4	1910	1870	1890	1990	1950	1960	1570	1500	1550	1760	1730	1740
5	1870	1780	1830	1990	1980	1990	1580	1490	1530	1830	1750	1780
6	1880	1810	1840	2010	1990	2000	1580	1510	1540	1860	1720	1810
7	1870	1830	1860	2000	1930	1950	1520	1370	1460	1960	1880	1920
8	1860	1830	1850	1990	1930	1950	1400	1370	1390	2000	1930	1950
9	1870	1850	1860	1930	1900	1910	1420	1370	1380	2040	1990	2020
10	1870	1830	1850	1930	1890	1910	1450	1370	1420	2110	1960	2060
11	1840	1790	1820	1890	1850	1870	1630	1420	1530	2040	2010	2030
12	1790	1770	1780	1920	1850	1880	1690	1610	1660	2090	1930	2020
13	1810	1770	1790	1950	1870	1910	1770	1690	1740	2040	1990	2010
14	1820	1780	1800	2060	1950	2000	1810	1730	1760	2140	2010	2060
15	1800	1720	1770	2020	1910	1970	1970	1630	1870	2240	2130	2170
16	1710	1680	1690	1930	1900	1920	2000	1810	1910	2270	2220	2250
17	1710	1680	1690	1980	1920	1950	1880	1830	1860	2320	2250	2290
18	1710	1690	1700	1980	1920	1950	1940	1850	1910	2330	2260	2290
19	1710	1670	1690	1980	1890	1940	1940	1820	1860	---	---	e2270
20	1720	1670	1700	1920	1700	1860	1970	1780	1890	2240	2040	2150
21	1700	1680	1690	1740	1670	1710	1790	1730	1760	2190	2040	2120
22	1690	1600	1640	1700	1610	1660	1800	1730	1770	2190	2130	2160
23	2290	1690	2120	1620	1590	1610	1810	1760	1780	2130	2030	2090
24	2270	2070	2160	1650	1590	1620	1790	1740	1760	2030	1970	2000
25	2070	1880	1980	1790	1610	1710	1860	1770	1820	1970	1920	1940
26	1930	1840	1890	1750	1680	1710	1810	1770	1790	1920	1880	1910
27	2260	1940	2210	1750	1690	1730	1830	1760	1820	2070	1910	2020
28	2470	2240	2340	1690	1550	1630	1820	1730	1760	2130	2060	2100
29	2590	2250	2470	1560	1450	1520	1900	1810	1860	2150	2060	2090
30	2440	2240	2310	1490	1420	1460	1940	1880	1900	2160	2080	2110
31	---	---	---	1490	1420	1470	---	---	---	2070	1990	2030
MONTH	2590	1600	1910	2260	1420	1830	2000	1370	1700	---	---	e2030

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11261500 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

AUGUST 1988				SEPTEMBER 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2020	1870	1950	1740	1680	1710
2	1860	1790	1820	1860	1740	1790
3	1810	1790	1810	1890	1840	1870
4	1860	1800	1820	1830	1720	1770
5	1850	1800	1830	1800	1760	1780
6	1820	1720	1760	1820	1750	1780
7	1730	1690	1710	1820	1790	1810
8	1760	1710	1740	1880	1800	1840
9	1760	1680	1720	1940	1810	1880
10	1850	1720	1790	1930	1810	1880
11	1950	1850	1890	1900	1760	1810
12	1990	1950	1970	1770	1570	1680
13	1970	1890	1940	1600	1540	1570
14	1890	1760	1830	1660	1540	1600
15	1790	1700	1760	1660	1580	1640
16	1740	1690	1720	1740	1650	1690
17	1710	1660	1680	1830	1580	1740
18	1740	1660	1690	1610	1500	1540
19	1770	1730	1750	1620	1580	1610
20	1800	1740	1770	1590	1540	1570
21	1790	1750	1770	1580	1510	1550
22	1770	1690	1730	1720	1570	1650
23	1750	1700	1730	1750	1620	1680
24	1710	1670	1700	1670	1500	1590
25	1680	1640	1670	1740	1440	1550
26	1710	1640	1680	1560	1480	1530
27	1720	1680	1700	1560	1520	1540
28	1810	1700	1760	1550	1470	1510
29	1710	1610	1650	1560	1500	1540
30	1620	1570	1600	1640	1560	1580
31	1740	1600	1680	---	---	---
MONTH	2020	1570	1760	1940	1440	1680

Table 1. Water-quality records at continuing-record sites--Continued

11261500 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE, CA--Continued

WATER TEMPERATURE (°C)												
APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	17.0	18.5	21.0	18.0	19.5	23.5	21.0	22.0	26.0	23.5	25.0
2	19.5	17.5	18.5	20.0	17.0	18.5	25.0	22.0	23.0	26.5	23.0	24.5
3	19.0	17.5	18.5	21.5	17.5	19.5	28.0	24.0	25.5	26.5	23.5	25.0
4	18.5	16.5	17.5	24.0	19.5	21.5	28.0	24.0	26.0	26.5	23.0	24.5
5	18.5	16.0	17.0	25.5	21.5	23.5	26.0	24.0	25.0	27.0	23.0	25.0
6	19.0	16.5	17.5	27.0	23.5	25.0	26.0	24.5	25.0	27.0	23.5	25.0
7	20.0	17.0	18.5	27.5	24.0	25.5	27.0	25.0	25.5	27.5	24.0	26.0
8	20.0	18.0	19.0	27.5	24.5	26.0	26.5	25.0	26.0	29.0	24.5	26.5
9	20.5	18.5	19.5	27.5	24.0	25.5	27.0	25.0	26.0	29.0	25.0	27.0
10	21.0	19.0	20.0	27.5	24.5	26.0	27.5	25.5	26.5	28.0	24.5	26.0
11	20.5	19.0	20.0	27.0	24.0	25.5	28.0	25.5	26.5	27.5	22.5	25.0
12	19.5	17.5	18.5	27.5	24.5	26.0	29.0	25.5	27.0	28.0	23.5	26.0
13	20.0	17.0	18.5	27.5	24.5	26.0	29.5	26.0	27.5	29.0	24.5	26.5
14	21.0	18.0	19.5	28.0	24.0	26.0	28.0	25.0	26.5	30.5	26.0	28.0
15	22.0	19.0	20.5	28.0	25.0	26.0	26.5	23.0	24.5	30.5	26.5	28.5
16	22.5	20.0	21.5	25.5	21.5	23.5	26.0	23.0	24.5	29.5	24.5	28.0
17	22.5	20.5	21.5	22.5	20.0	21.0	26.0	22.5	24.0	24.0	20.5	22.0
18	21.0	19.0	20.5	21.5	19.0	20.0	26.0	21.5	24.0	24.0	19.5	21.5
19	19.0	16.0	17.5	21.0	18.5	19.5	26.5	22.0	24.5	25.5	21.0	23.0
20	19.5	15.5	17.5	---	---	e20.0	26.0	22.5	24.5	25.5	22.0	23.5
21	22.0	17.5	19.5	21.5	18.5	20.0	26.5	22.5	24.0	24.5	21.5	23.0
22	22.5	19.5	21.0	22.0	19.5	20.5	25.5	22.0	24.0	25.0	21.0	23.0
23	23.0	20.5	21.5	22.5	20.0	21.0	26.5	23.0	24.5	26.5	22.0	24.0
24	22.0	19.5	21.0	22.0	19.5	20.5	28.0	24.0	26.0	26.5	23.0	24.5
25	22.5	19.5	21.0	20.0	17.5	18.5	29.0	25.0	27.0	26.5	23.0	25.0
26	23.5	20.5	22.0	20.5	17.5	18.5	29.0	26.0	27.5	26.5	22.5	24.5
27	24.5	21.0	22.5	22.0	19.0	20.0	28.5	25.5	27.0	26.5	22.5	24.5
28	24.0	22.5	23.0	23.0	19.0	21.0	28.0	24.5	26.5	26.5	22.5	24.5
29	23.5	20.5	22.0	24.0	20.5	22.0	27.5	24.0	25.5	26.5	23.0	24.5
30	22.0	19.5	20.5	23.5	20.0	22.0	27.0	24.0	25.5	26.0	22.5	24.5
31	---	---	---	24.5	20.5	22.0	---	---	---	26.5	23.0	24.5
MONTH	24.5	15.5	19.8	---	---	e22.3	29.5	21.0	25.4	30.5	19.5	24.9
AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	28.5	24.0	26.0	28.5	25.0	27.0	24.0	21.5	23.0	17.0	16.0	16.5
2	29.5	25.5	27.5	29.5	26.0	27.5	24.0	21.0	22.5	16.5	15.0	16.0
3	29.0	26.0	27.5	29.0	26.0	27.5	24.0	21.0	22.5	15.5	14.0	15.0
4	29.5	26.0	27.5	27.5	24.5	26.0	23.5	21.5	22.5	15.5	14.0	14.5
5	30.0	26.0	28.0	25.5	22.5	24.0	23.5	21.5	22.5	15.5	14.0	14.5
6	30.0	25.5	28.0	24.5	22.0	23.0	23.5	21.5	22.5	15.5	14.5	15.0
7	29.5	25.5	27.5	24.5	21.5	23.0	23.0	21.0	22.5	16.5	14.0	15.0
8	28.5	25.0	27.0	25.5	22.0	23.5	22.5	20.5	21.5	16.5	14.5	15.5
9	28.5	24.5	26.5	26.5	23.0	24.5	22.0	20.0	21.0	17.0	15.0	16.0
10	28.5	25.0	26.5	25.5	22.0	23.5	21.5	19.5	20.5	16.0	14.5	15.0
11	28.0	24.0	26.0	25.0	21.5	23.0	21.5	19.5	20.5	15.5	13.5	14.5
12	27.5	24.0	25.5	24.0	20.5	22.5	21.5	19.5	20.5	14.5	13.5	14.0
13	27.5	23.5	25.5	23.0	20.5	22.0	21.0	18.5	20.0	14.0	13.5	14.0
14	26.0	22.0	24.0	23.5	20.0	21.5	20.5	18.5	19.5	14.0	12.5	13.0
15	25.5	21.0	23.0	24.0	20.5	22.0	20.0	18.0	19.5	13.0	11.0	12.0
16	26.5	22.0	24.0	23.5	21.0	22.5	20.0	18.0	19.0	13.0	11.0	12.0
17	27.5	23.5	25.5	24.5	21.0	22.5	19.5	17.5	19.0	12.5	11.5	12.0
18	28.0	24.0	26.0	24.5	21.5	23.0	19.5	17.5	18.5	14.5	12.0	13.0
19	26.5	23.0	25.0	24.5	21.5	23.0	19.5	17.5	18.5	14.0	13.0	13.5
20	26.5	22.5	24.5	24.5	22.0	23.0	18.5	17.5	18.0	13.0	12.0	12.5
21	27.0	22.0	24.5	24.5	22.0	23.5	19.0	17.0	18.0	12.0	11.0	12.0
22	26.5	22.5	24.5	24.5	22.5	23.5	19.0	18.0	18.5	12.5	10.5	11.5
23	25.5	22.0	24.0	23.5	21.0	22.5	19.5	18.0	19.0	12.0	10.0	11.0
24	26.5	22.0	24.0	23.0	20.5	22.0	20.0	18.5	19.5	12.0	9.5	11.0
25	27.0	23.0	25.0	23.0	20.5	22.0	20.5	18.0	19.0	10.5	9.0	10.0
26	26.5	24.0	25.0	22.5	20.0	21.5	21.0	18.5	19.5	10.0	8.0	9.0
27	26.5	24.5	25.5	23.0	20.0	21.5	20.0	19.0	19.5	10.0	8.0	9.0
28	27.0	24.5	26.0	23.5	20.5	22.0	21.0	19.0	20.0	10.0	8.5	9.0
29	28.5	25.0	26.5	24.0	20.5	22.0	20.0	19.0	19.5	10.0	8.0	9.0
30	29.5	25.0	27.0	24.0	21.0	22.5	19.0	18.0	18.5	9.5	8.5	9.0
31	28.5	25.5	27.0	---	---	---	18.0	17.0	17.5	---	---	---
MONTH	30.0	21.0	25.8	29.5	20.0	23.2	24.0	17.0	20.1	17.0	8.0	12.8

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11261500 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE, CA--Continued

WATER TEMPERATURE (°C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.5	9.5	10.5	6.0	5.0	5.5	12.5	10.5	11.5	17.0	15.0	16.0
2	12.5	10.5	11.5	6.0	5.5	5.5	12.0	10.0	11.0	16.5	14.0	15.0
3	14.0	11.5	13.0	6.5	6.0	6.5	12.5	9.0	10.5	16.5	14.0	15.5
4	13.0	11.5	12.0	8.0	6.5	7.0	12.0	9.5	10.5	17.5	14.5	16.0
5	12.0	11.0	11.5	9.5	8.0	8.5	12.0	9.5	10.5	19.0	15.5	17.0
6	12.0	10.5	11.0	9.0	8.0	8.5	12.0	9.5	10.5	18.5	16.5	17.5
7	12.0	10.0	11.0	9.5	8.5	9.0	12.5	9.5	11.0	18.0	15.5	17.0
8	11.0	10.0	10.5	10.0	9.0	9.5	13.0	10.0	11.5	18.5	15.5	17.0
9	12.5	10.5	11.0	10.5	9.0	9.5	14.0	10.5	12.5	17.5	15.0	16.5
10	13.0	10.5	12.0	10.5	10.0	10.0	14.5	11.5	13.0	15.0	12.5	14.0
11	12.5	9.0	10.5	10.5	10.0	10.0	15.0	12.0	13.5	13.5	10.5	12.0
12	9.0	6.5	7.5	10.0	8.5	9.5	15.5	12.5	14.0	14.5	11.0	12.5
13	6.0	4.0	5.5	10.0	8.5	9.5	15.5	13.0	14.0	15.5	11.5	13.5
14	5.5	4.0	5.0	9.5	8.5	9.0	15.0	12.5	14.0	15.5	13.0	14.5
15	5.5	4.0	4.5	10.0	9.0	9.5	15.5	12.5	14.0	16.0	13.0	14.5
16	6.0	5.0	5.5	9.5	8.5	9.0	14.0	12.0	13.0	16.0	13.0	14.5
17	8.0	5.5	6.5	9.0	7.5	8.5	13.0	10.5	12.0	16.5	13.5	15.0
18	8.5	6.0	7.5	9.0	6.0	7.5	13.0	10.5	11.5	17.0	14.5	16.0
19	9.5	7.5	8.5	8.5	6.5	7.5	13.5	9.5	11.5	18.5	15.5	17.0
20	9.0	7.0	8.0	8.5	6.5	7.5	14.0	10.5	12.5	19.0	16.5	17.5
21	9.0	7.0	8.0	8.5	6.5	7.5	14.5	11.5	13.0	18.5	17.0	17.5
22	9.0	7.5	8.5	9.0	7.0	8.0	15.0	11.5	13.5	18.5	16.0	17.0
23	7.5	5.5	6.5	9.5	7.0	8.5	15.0	12.5	14.0	18.5	16.5	17.5
24	5.0	3.0	4.5	10.5	8.0	9.0	15.5	13.0	14.0	17.5	15.0	16.5
25	5.5	2.0	4.0	11.0	8.5	9.5	16.5	13.0	14.5	18.5	15.0	16.5
26	5.5	2.5	4.0	10.5	9.0	10.0	17.0	14.5	16.0	19.5	16.5	18.0
27	5.5	3.0	4.5	11.0	9.0	10.0	17.0	15.5	16.5	18.5	13.0	16.0
28	6.5	5.0	5.5	11.5	9.5	10.5	18.0	15.5	16.5	14.5	10.0	12.5
29	6.0	5.5	6.0	12.5	10.5	11.5	17.0	16.0	16.5	16.0	11.5	14.0
30	7.0	5.0	6.0	13.0	10.5	12.0	---	---	---	15.0	12.5	14.0
31	6.5	5.0	6.0	12.5	10.5	11.5	---	---	---	16.0	11.0	13.5
MONTH	14.0	2.0	8.0	13.0	5.0	8.9	18.0	9.0	13.0	19.5	10.0	15.5

APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	13.5	15.5	18.0	---	e16.0	23.0	18.0	20.0	28.0	24.0	26.0
2	19.5	15.0	17.0	20.0	---	e17.0	24.5	19.5	21.5	30.0	25.5	27.5
3	19.5	15.5	17.5	22.5	---	e18.0	24.0	20.0	22.0	30.5	25.5	28.0
4	20.0	16.5	18.0	21.5	---	e18.0	23.0	19.0	21.0	28.5	24.0	26.0
5	20.0	15.5	17.5	---	---	e17.0	22.5	18.5	20.5	26.5	23.0	25.0
6	21.0	17.0	19.0	---	---	e15.0	21.0	17.5	19.0	26.0	23.0	25.0
7	21.0	18.0	19.5	---	---	e16.0	20.5	17.0	19.0	26.5	24.0	25.5
8	18.0	14.5	16.5	---	---	e17.0	21.5	17.5	19.5	28.0	25.0	26.5
9	20.0	14.5	17.0	---	---	e18.0	22.0	18.5	20.5	29.0	25.5	27.0
10	21.5	16.5	19.0	---	---	e18.0	24.0	19.5	21.5	30.5	26.5	28.0
11	23.5	18.5	21.0	---	---	e18.0	24.5	21.0	22.5	28.5	25.0	27.0
12	22.5	19.5	21.0	---	---	e17.0	24.0	21.0	22.5	27.5	24.5	26.0
13	20.0	18.5	19.5	---	---	e15.0	25.5	21.5	23.5	28.0	24.5	26.5
14	18.5	16.5	17.5	---	---	e16.0	26.0	22.5	24.5	28.0	25.0	26.5
15	16.5	15.0	16.0	---	---	e17.0	27.5	23.5	25.0	28.5	25.0	27.0
16	16.0	14.5	15.0	---	---	e15.0	27.5	23.0	25.0	29.5	25.5	27.5
17	19.0	14.5	16.5	19.0	---	e17.0	27.0	23.0	25.0	29.5	26.5	28.0
18	20.0	16.5	18.0	21.5	---	e18.0	28.5	23.5	26.0	30.5	27.0	28.5
19	18.5	11.0	15.5	21.5	16.0	18.5	29.5	25.5	27.0	---	---	e28.5
20	17.5	10.0	12.5	23.5	18.0	21.0	28.0	24.0	26.0	30.0	27.0	28.5
21	21.0	7.5	13.5	26.0	20.5	23.0	26.0	23.0	24.5	30.5	27.5	28.5
22	17.5	8.5	13.0	24.0	21.0	22.5	26.5	23.5	25.0	30.5	27.5	29.0
23	16.5	8.5	11.5	24.5	19.5	21.5	26.0	24.5	25.5	30.5	27.5	29.0
24	22.5	6.0	15.0	25.0	19.5	22.0	27.5	24.5	25.5	31.0	27.0	29.0
25	22.5	8.0	15.0	24.0	19.0	21.5	25.5	22.5	24.0	31.5	27.5	29.5
26	25.5	9.5	18.0	23.0	18.5	20.5	25.5	22.5	24.0	31.5	27.5	29.5
27	25.0	12.0	18.0	23.5	18.5	21.0	26.0	23.5	24.5	32.0	28.0	29.5
28	21.5	10.0	15.5	22.0	18.5	20.5	26.0	21.5	24.5	31.5	27.5	29.5
29	21.5	8.5	15.0	20.0	16.5	18.0	24.0	21.5	22.5	31.0	27.0	29.0
30	17.0	---	e15.0	20.0	15.5	17.5	26.0	22.0	24.0	30.5	28.5	29.5
31	---	---	---	21.0	16.5	18.5	---	---	---	29.5	27.5	28.5
MONTH	25.5	---	e16.6	---	---	e18.4	29.5	17.0	23.2	---	---	e27.7

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued**11261500 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE, CA--Continued****WATER TEMPERATURE (°C)**

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	29.5	26.0	27.5	29.0	26.0	27.5
2	29.0	25.5	27.5	29.0	25.5	27.0
3	28.5	24.5	26.5	29.0	25.0	27.0
4	27.0	25.0	26.0	30.0	26.0	28.0
5	27.5	24.5	26.0	30.0	27.0	28.5
6	27.0	24.0	25.5	29.5	26.5	28.0
7	26.5	23.5	25.0	28.0	24.5	26.0
8	27.0	24.0	25.5	27.5	24.0	25.5
9	28.0	24.0	26.0	26.0	23.0	24.5
10	28.0	24.0	26.0	26.0	22.0	24.0
11	27.0	24.0	25.5	24.0	21.5	22.5
12	26.0	22.5	24.0	23.5	20.5	22.0
13	25.5	22.0	23.5	23.5	20.5	22.0
14	25.5	22.0	23.5	24.5	21.0	22.5
15	25.5	21.5	23.5	24.5	21.0	23.0
16	26.0	22.0	24.0	24.5	21.0	23.0
17	27.0	23.0	25.0	23.5	20.0	22.0
18	27.5	24.0	25.5	21.5	18.5	20.0
19	28.0	24.5	26.0	22.0	18.5	20.0
20	28.0	24.5	26.0	21.5	18.5	20.0
21	27.0	24.0	25.5	22.5	18.5	20.5
22	27.0	23.5	25.5	22.5	19.5	21.0
23	27.0	23.5	25.5	23.5	20.0	21.5
24	27.5	24.0	26.0	23.5	20.5	22.0
25	27.5	24.5	26.0	23.0	19.5	21.5
26	29.0	26.0	27.5	22.5	19.0	21.0
27	29.5	26.0	27.5	22.5	19.5	21.0
28	28.5	25.5	27.0	23.0	19.5	21.0
29	29.0	25.5	27.0	23.5	19.5	21.5
30	30.0	26.0	28.0	25.0	20.5	22.5
31	30.0	26.5	28.0	---	---	---
MONTH	30.0	21.5	25.9	30.0	18.5	23.2

Table 1. Water-quality records at continuing-record sites--Continued

11262900 MUD SLOUGH NEAR GUSTINE, CA

LOCATION.--Lat 37°15'45", long 120°54'20", in SE 1/4 SE 1/4 sec. 6, T.8 S., R.10 E., Merced County, Hydrologic Unit 18040001, Kesterson National Wildlife Refuge, on right bank at footbridge 400 ft northwest of terminus of San Luis Drain and 5.2 mi east of Gustine.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1985 to September 1988.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1985 to September 1988.

WATER TEMPERATURE: November 1985 to September 1988.

INSTRUMENTATION.--Minimonitor recorder since October 1985. Satellite telemetry since October 1986.

REMARKS.--Periods when maximums and/or minimums were not recorded were due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 9,720 microsiemens, Sept. 9, 1988; minimum daily, 470 microsiemens, Oct. 15, 1986.

WATER TEMPERATURE: Maximum recorded, 34.5 °C, July 22, 1988; minimum recorded, 2.5 °C, Jan. 17, 1987.

WATER QUALITY DATA

DATE	TIME	STREAM FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS, TOTAL (MG/L AS CaCO ₃)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO ₃	CALCIUM, DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)
APR 1987												
09...	1000	127	2720	8.3	18.5	765	8.0	610	350	140	63	420
21...	1030	43	3190	8.1	20.0	765	9.3	660	440	140	76	450
30...	0945	11	7250	8.0	17.5	765	10.3	1100	780	180	170	1300
MAY												
22...	0845	38	2210	8.1	18.0	765	7.6	440	250	97	48	310
JUN												
03...	1215	42	2630	8.5	26.0	760	12.4	570	380	130	60	340
16...	1000	58	2840	8.2	21.5	760	9.1	680	490	170	62	380
JUL												
08...	1000	23	1750	8.4	23.0	755	9.0	360	140	66	47	240
22...	1200	77	2270	8.4	22.5	760	--	580	410	140	55	310
AUG												
05...	1045	109	2080	8.1	25.5	760	7.7	490	310	120	47	270
18...	0945	98	2500	8.1	23.0	760	8.2	530	360	130	51	340
SEP												
09...	1100	18	1490	8.5	23.0	760	12.4	340	190	80	35	210
22...	1000	15	1020	7.9	20.0	760	4.9	210	26	41	26	130
OCT												
07...	1115	10	1460	7.9	21.5	760	7.4	280	91	51	37	220
20...	1130	39	1230	7.7	17.0	760	6.4	240	53	44	32	170
NOV												
04...	1045	82	1650	7.9	15.0	760	6.8	300	57	54	39	220
17...	1045	78	1890	8.1	12.5	760	9.8	340	81	61	46	280
DEC												
02...	1200	29	2850	8.0	13.0	760	10.0	470	120	70	71	490
15...	1100	16	3920	7.7	6.5	760	10.7	580	220	130	63	630
JAN 1988												
07...	1030	67	2980	8.0	9.0	765	10.3	510	150	88	70	460
20...	1130	130	2440	8.2	7.5	770	12.1	480	210	92	61	380
FEB												
03...	1045	115	2100	8.1	9.0	760	11.3	370	150	67	50	310
17...	1045	60	3210	8.3	10.0	770	11.2	600	310	110	78	500
MAR												
03...	1100	163	2280	7.9	13.5	760	9.0	500	300	110	55	330
14...	1115	122	2450	8.2	14.0	760	10.0	540	310	120	59	360
APR												
05...	1100	36	3240	8.5	16.0	765	9.7	580	280	100	80	540
19...	1130	72	2000	8.1	16.5	755	8.3	390	210	82	46	260
MAY												
02...	1030	11	4900	8.4	14.5	770	10.8	730	400	110	110	890
18...	1515	22	2980	8.3	25.0	760	9.3	520	300	90	72	460
JUN												
10...	1030	113	2700	8.1	21.5	760	8.4	590	410	140	58	370
22...	1415	44	1920	8.4	27.0	755	12.8	430	260	94	48	260
JUL												
07...	1130	34	1630	8.1	25.0	760	9.9	350	160	69	42	220
19...	1245	13	3240	8.4	28.5	760	16.1	680	500	150	73	440
AUG												
09...	1045	22	2510	7.9	23.5	755	8.0	580	390	130	61	340
24...	1315	2.6	3400	8.7	27.0	760	16.4	670	530	130	83	520
SEP												
08...	1100	6.9	2750	8.2	22.5	755	11.6	590	430	120	71	410
27...	1315	2.1	3420	8.5	24.5	765	11.1	590	410	94	86	480

Table 1. Water-quality records at continuing-record sites--Continued

11262900 MUD SLOUGH NEAR GUSTINE, CA--Continued

WATER QUALITY DATA

DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L AS CAC03)	SULFATE, DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 °C, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)
APR 1987												
09...	60	8	5.2	259	680	400	0.3	14	1880	645	2.56	5.7
21...	59	8	6.7	220	870	460	0.3	17	2260	262	3.07	5.9
30...	71	17	4.0	370	2100	1100	0.3	17	5180	154	7.04	0.77
MAY												
22...	60	7	5.5	188	500	300	0.3	12	1450	149	1.97	3.5
JUN												
03...	56	6	5.2	197	710	320	0.3	16	1820	206	2.48	5.2
16...	55	7	5.0	190	830	270	0.3	21	2080	326	2.83	12
JUL												
08...	59	6	4.5	215	360	240	0.3	18	1120	69.6	1.52	0.63
22...	54	6	4.6	170	610	290	0.3	21	1620	337	2.20	7.0
AUG												
05...	54	5	4.9	179	530	250	0.3	5.3	1450	427	1.97	6.4
18...	58	7	5.1	180	660	260	0.3	20	1760	466	2.39	8.4
SEP												
09...	57	5	4.3	150	320	200	0.3	16	979	47.6	1.33	2.7
22...	57	4	5.3	184	110	150	0.2	20	603	24.4	0.82	<0.10
OCT												
07...	63	6	5.7	189	240	200	0.3	24	928	25.1	1.26	0.15
20...	60	5	6.6	189	130	210	0.2	20	733	77.2	1.00	0.11
NOV												
04...	61	6	6.9	239	200	390	0.3	23	997	221	1.36	0.13
17...	64	7	5.8	261	290	360	0.3	19	1210	255	1.65	0.28
DEC												
02...	69	10	6.5	349	530	350	0.4	16	1870	146	2.54	0.10
15...	70	12	5.7	367	920	700	0.4	18	2730	118	3.71	<0.10
JAN 1988												
07...	66	9	6.3	358	560	440	0.4	11	1920	347	2.61	1.5
20...	63	8	7.1	275	460	370	0.3	12	1540	541	2.09	2.3
FEB												
03...	64	7	5.5	228	420	310	0.3	15	1350	419	1.84	1.1
17...	64	9	7.1	287	760	490	0.3	13	2210	358	3.01	1.9
MAR												
03...	59	7	5.1	203	560	300	0.3	18	1590	700	2.16	5.7
14...	59	7	5.4	236	600	280	0.3	19	1680	553	2.28	5.9
APR												
05...	67	10	6.1	302	700	430	0.4	10	2190	213	2.98	0.53
19...	59	6	4.1	180	440	270	0.2	16	1260	245	1.71	3.5
MAY												
02...	73	15	4.6	333	1300	720	0.3	14	3480	103	4.73	<0.10
18...	66	9	4.1	221	740	440	0.4	17	2030	121	2.76	2.2
JUN												
10...	58	7	4.8	182	750	350	0.4	16	1900	580	2.58	10
22...	56	6	5.1	176	460	240	0.5	16	1310	156	1.78	3.8
JUL												
07...	58	5	4.9	182	330	210	0.3	18	1030	94.6	1.40	1.9
19...	58	8	4.6	174	980	430	0.3	15	2350	82.5	3.20	7.3
AUG												
09...	56	6	6.2	182	660	330	0.2	19	1720	102	2.34	6.8
24...	63	9	5.9	136	980	500	0.2	7.2	2380	16.7	3.24	1.4
SEP												
08...	60	8	5.9	162	770	390	0.3	14	1930	36.0	2.62	1.1
27...	64	9	3.7	184	870	560	0.2	14	2350	13.3	3.20	<0.10

Table 1. Water-quality records at continuing-record sites--Continued

11262900 MUD SLOUGH NEAR GUSTINE, CA--Continued

WATER QUALITY DATA												
DATE	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS NH ₄)	NITRO- GEN, AM- MONIA + ORGANIC, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC, TOTAL (MG/L AS C)	CHLOR-A PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	SED. SUSP., SIEVE DIAM. % FINER THAN 0.062 MM	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
APR 1987												
09...	0.12	0.15	3.0	0.29	0.23	0.18	17	--	--	--	--	--
21...	0.15	0.19	1.7	0.25	0.28	0.22	8.4	6.4	0.60	99	217	25
30...	0.09	0.12	1.2	0.19	0.07	0.04	--	--	--	90	691	21
MAY												
22...	0.05	0.06	1.9	0.38	0.23	0.18	12	37	1.7	99	213	22
JUN												
03...	0.04	0.05	3.8	0.27	0.11	0.10	9.7	--	--	--	--	--
16...	0.06	0.08	2.9	0.29	0.15	0.12	11	20	0.90	98	261	41
JUL												
08...	0.06	0.08	0.70	0.23	0.08	0.07	9.7	--	--	--	--	--
22...	0.03	0.04	2.0	0.27	0.09	0.07	11	20	1.6	97	130	27
AUG												
05...	0.17	0.22	1.9	0.44	0.19	0.13	9.2	--	--	--	--	--
18...	0.06	0.08	1.7	0.31	0.13	0.10	8.8	17	0.70	98	308	81
SEP												
09...	0.02	0.03	0.90	0.04	0.02	0.01	7.7	--	--	--	--	--
22...	0.12	0.15	1.3	0.34	0.39	0.28	9.7	8.2	0.80	--	--	--
OCT												
07...	0.07	0.09	1.3	0.23	0.15	0.12	12	--	--	--	--	--
20...	0.05	0.06	0.70	0.69	0.52	0.50	14	4.5	0.40	96	31	3.3
NOV												
04...	0.08	0.10	1.3	0.63	0.66	0.54	15	--	--	--	--	--
17...	0.08	0.10	0.90	0.20	0.18	0.13	13	--	--	86	57	12
DEC												
02...	0.09	0.12	1.3	0.35	0.30	0.24	11	--	--	--	--	--
15...	0.12	0.15	0.90	0.17	0.13	0.09	11	1.7	0.20	99	18	0.78
JAN 1988												
07...	0.06	0.08	1.0	0.24	0.17	0.12	14	--	--	--	--	--
20...	0.16	0.21	2.7	0.29	0.25	0.20	12	9.6	0.90	85	51	18
FEB												
03...	0.07	0.09	1.0	0.33	0.19	0.16	10	--	--	--	--	--
17...	0.07	0.09	1.3	0.30	0.19	0.13	12	7.4	1.4	100	254	41
MAR												
03...	0.14	0.18	1.3	0.22	0.15	0.13	9.3	--	--	--	--	--
14...	0.29	0.37	1.9	0.34	0.20	0.20	8.6	7.3	0.90	85	189	62
APR												
05...	0.02	0.03	2.2	0.30	0.19	0.14	18	--	--	--	--	--
19...	0.13	0.17	1.6	0.32	0.18	0.15	7.7	7.5	0.70	95	113	22
MAY												
02...	0.04	0.05	1.6	0.35	0.18	0.13	14	--	--	--	--	--
18...	0.08	0.10	1.2	0.15	0.11	0.09	9.9	22	0.90	97	53	3.1
JUN												
10...	0.06	0.08	0.20	0.13	0.10	0.06	8.9	--	--	--	--	--
22...	0.03	0.04	1.6	0.22	0.14	0.11	8.9	24	3.3	88	68	8.1
JUL												
07...	<0.01	--	1.2	0.14	0.10	0.05	7.7	--	--	--	--	--
19...	0.02	0.03	1.8	0.13	0.03	0.02	8.4	40	2.7	83	46	1.6
AUG												
09...	0.18	0.23	0.90	0.12	0.09	0.07	9.9	--	--	--	--	--
24...	0.04	0.05	2.2	0.21	0.03	<0.01	12	53	7.1	77	79	0.55
SEP												
08...	0.06	0.08	0.90	0.18	0.03	0.01	11	--	--	--	--	--
27...	0.02	0.03	0.80	0.07	0.04	0.02	5.5	9.2	1.2	96	44	0.25

Table 1. Water-quality records at continuing-record sites--Continued

11262900 MUD SLOUGH NEAR GUSTINE, CA--Continued

WATER QUALITY DATA									
DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, TOTAL (UG/L AS AS)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
APR 1987									
09...	10000	<10	8	5	--	3600	--	24	<1
21...	880	<10	5	5	3900	3800	3	5	<1
30...	490	20	2	3	6300	6300	10	16	<1
MAY									
22...	2500	<10	6	5	2700	2600	12	8	2
JUN									
03...	3400	<10	7	7	3500	3500	7	9	3
16...	2900	10	5	5	4100	4200	12	10	3
JUL									
08...	2400	20	4	4	1800	1700	16	6	<1
22...	3200	<10	4	4	3300	3200	28	9	3
AUG									
05...	6900	10	5	3	3000	3000	--	15	2
18...	7800	10	4	3	3600	3800	<1	5	2
SEP									
09...	2400	10	2	2	1700	1700	3	7	2
22...	1500	20	6	8	740	670	8	6	2
OCT									
07...	2900	<10	6	5	1200	1100	5	8	<1
20...	1200	10	5	5	780	740	<1	5	1
NOV									
04...	790	20	5	5	1200	1300	5	3	1
17...	2000	10	5	4	1600	1600	9	9	1
DEC									
02...	600	<10	3	4	2200	2400	4	6	2
15...	590	<10	5	4	3200	3400	4	3	1
JAN 1988									
07...	2700	<10	2	4	2800	2800	12	8	2
20...	<1300	10	5	4	2200	2200	6	6	<1
FEB									
03...	2500	10	4	3	1700	1700	12	7	<1
17...	1900	<10	4	4	3100	3200	8	5	3
MAR									
03...	8300	20	5	3	2600	2700	31	14	1
14...	4700	10	4	3	2600	2700	20	10	4
APR									
05...	--	--	5	4	--	3100	--	--	<1
19...	2500	40	5	4	2000	1900	12	6	3
MAY									
02...	980	<10	7	5	4200	4300	4	5	1
18...	1100	<10	6	8	2900	2900	5	5	1
JUN									
10...	5200	<10	4	3	3800	4000	23	11	4
22...	1700	20	5	4	2300	2300	12	8	1
JUL									
07...	1500	<10	4	4	1500	1600	6	6	2
19...	1200	<10	4	3	4200	4500	11	8	2
AUG									
09...	2200	<10	4	3	3200	3400	6	7	--
24...	1500	40	4	4	3700	3700	8	7	2
SEP									
08...	810	20	4	3	3600	3700	4	4	2
27...	1300	<10	6	5	2200	2500	5	6	3

Table 1. Water-quality records at continuing-record sites--Continued

11262900 MUD SLOUGH NEAR GUSTINE, CA--Continued

WATER QUALITY DATA									
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM, TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY, DIS- SOLVED (UG/L AS HG)
APR 1987									
09...	14000	10	5	80	60	580	20	<0.1	0.1
21...	1300	20	<5	80	60	340	200	0.2	<0.1
30...	630	20	<5	50	50	2300	1700	0.1	1.1
MAY									
22...	3100	20	<5	50	60	360	90	<0.1	<0.1
JUN									
03...	3500	20	<5	60	60	270	90	<0.1	<0.1
16...	3800	30	<5	90	80	190	<10	<0.1	0.1
JUL									
08...	2600	4	<5	30	28	410	200	<0.1	0.1
22...	3600	20	<5	60	70	180	20	0.7	0.3
AUG									
05...	8800	30	<5	60	60	230	<10	<0.1	<0.1
18...	8200	<10	<5	80	60	230	10	<0.1	<0.1
SEP									
09...	2700	17	<5	40	32	110	7	<0.1	<0.1
22...	2100	110	<5	20	11	430	340	<0.1	<0.1
OCT									
07...	3800	8	<5	20	19	210	3	<0.1	<0.1
20...	1600	100	<5	10	11	130	86	<0.1	<0.1
NOV									
04...	1100	96	<5	20	23	150	96	<0.1	<0.1
17...	2700	28	<5	20	22	250	110	<0.1	<0.1
DEC									
02...	920	40	<5	30	30	370	260	0.1	<0.1
15...	820	30	<5	30	40	680	560	<0.1	<0.1
JAN 1988									
07...	3300	20	<5	40	40	320	150	<0.1	<0.1
20...	1900	20	<5	30	30	<160	90	<0.1	<0.1
FEB									
03...	3600	30	<5	30	20	350	200	<0.1	<0.1
17...	2600	30	<5	40	40	460	290	<0.1	<0.1
MAR									
03...	9800	20	<5	50	40	480	80	<0.1	<0.1
14...	6000	20	<5	60	50	240	80	<0.1	<0.1
APR									
05...	--	10	--	--	40	--	320	<0.1	0.1
19...	3800	<10	<5	40	40	290	120	<0.1	<0.1
MAY									
02...	1600	20	<5	40	40	1100	850	<0.1	<0.1
18...	1600	20	<5	50	40	560	380	<0.1	<0.1
JUN									
10...	6000	20	<5	70	60	200	20	<0.1	<0.1
22...	2100	6	<5	40	43	200	66	<0.1	<0.1
JUL									
07...	1900	9	<5	40	29	180	70	<0.1	<0.1
19...	1400	100	5	80	80	320	170	<0.1	--
AUG									
09...	2700	20	<5	60	60	180	50	<0.1	<0.1
24...	2100	20	8	60	60	670	470	0.1	0.1
SEP									
08...	1000	10	6	70	70	210	110	0.1	<0.1
27...	1600	<10	<5	30	30	430	290	0.1	<0.1

Table 1. Water-quality records at continuing-record sites--Continued

11262900 MUD SLOUGH NEAR GUSTINE, CA--Continued

WATER QUALITY DATA								
DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 1987								
09...	7	11	52	7	--	17	70	10
21...	10	16	7	2	20	17	30	<10
30...	27	31	4	2	5	5	10	10
MAY								
22...	--	11	12	4	15	14	<10	<10
JUN								
03...	12	13	14	2	17	16	20	<10
16...	8	<1	15	3	30	30	<10	20
JUL								
08...	8	<1	4	5	3	3	20	8
22...	5	7	23	<1	24	24	<10	10
AUG								
05...	5	--	28	3	16	15	30	<10
18...	11	8	34	5	32	14	40	10
SEP								
09...	7	6	13	1	15	11	<10	8
22...	6	3	6	3	2	2	<10	12
OCT								
07...	14	14	11	<1	1	1	20	5
20...	4	4	8	<1	4	<1	<10	3
NOV								
04...	10	8	5	2	<1	<1	<10	8
17...	11	10	14	2	1	1	20	7
DEC								
02...	19	16	5	4	1	<1	<10	<10
15...	25	27	6	5	1	1	<10	<10
JAN 1988								
07...	15	15	13	3	4	4	20	<10
20...	13	8	8	5	5	4	<10	<10
FEB								
03...	12	10	14	<1	1	1	20	10
17...	13	16	13	2	6	6	20	<10
MAR								
03...	10	11	35	<1	14	14	30	10
14...	7	10	16	9	13	14	30	10
APR								
05...	--	10	--	8	--	4	--	10
19...	9	6	15	3	10	11	<10	<10
MAY								
02...	20	22	10	<1	3	2	70	<10
18...	12	15	9	4	9	10	40	<10
JUN								
10...	15	11	22	9	22	--	20	<10
22...	12	8	23	7	12	12	40	7
JUL								
07...	6	4	12	4	6	5	20	5
19...	17	15	14	4	30	29	<10	<10
AUG								
09...	12	9	16	9	20	19	20	10
24...	15	12	10	3	28	30	10	<10
SEP								
08...	13	12	8	3	18	16	<10	<10
27...	14	10	8	3	4	4	10	<10

Table 1. Water-quality records at continuing-record sites--Continued

11262900 MUD SLOUGH NEAR GUSTINE, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3380	3240	3280	7850	6980	7340	2680	2480	2600	2280	1410	1800
2	3440	3240	3330	6320	3750	4640	2620	2530	2570	1870	1420	1630
3	3530	3350	3400	6650	5230	5770	3070	2530	2580	1750	1390	1500
4	3620	2930	3070	6850	4820	5880	2590	2300	2370	2400	1360	1980
5	3000	2810	2890	4780	1510	3440	2400	2310	2370	2150	1940	2030
6	3000	2880	2950	4290	3890	4100	2320	2230	2280	2020	940	1360
7	3020	2900	2960	4650	4160	4400	2430	2210	2270	1890	990	1740
8	3010	2730	2890	5900	4720	5320	2500	2320	2430	2000	1560	1800
9	3040	2760	2910	6150	5480	5820	2570	2450	2500	2380	2020	2210
10	3090	2970	3020	6370	5770	6020	2570	2460	2520	2390	2130	2280
11	3090	2950	3020	6280	5880	6080	2720	2500	2670	2260	2120	2200
12	3130	3010	3060	6200	3000	5250	2900	2590	2650	2250	2110	2150
13	3210	2990	3100	3610	3200	3470	2730	2630	2680	2210	2090	2160
14	3140	3000	3070	3400	3220	3310	2940	2710	2800	2200	2100	2140
15	3200	3080	3140	3490	3250	3360	2960	2760	2900	2180	2100	2150
16	3240	3020	3140	3390	2770	3030	2890	2720	2810	2370	2090	2230
17	3620	---	e3200	2770	2420	2630	3010	2680	2840	2380	2280	2340
18	4110	---	e3220	2450	1880	2240	2890	2730	2840	2320	2270	2300
19	4080	---	e3100	2310	1870	2050	2950	2610	2770	2270	2210	2240
20	4070	---	e3490	2020	1890	1950	3240	2840	2970	2240	2160	2210
21	3290	---	e3160	2280	1970	2170	2980	2770	2880	2240	2160	2190
22	3240	---	e3100	2360	2200	2280	2830	2730	2780	2240	2170	2210
23	---	---	e3300	2860	2310	2680	2890	2840	2870	---	---	e2200
24	---	---	e3500	2930	2520	2810	2950	980	2430	2300	1950	2180
25	---	---	e4000	2560	2470	2520	2120	---	e2000	2030	1950	1980
26	---	---	e3500	2660	2530	2610	---	---	e1900	2300	1950	2110
27	---	---	e3200	2900	2640	2750	---	---	e1800	2140	1940	2040
28	---	---	e3600	2940	2810	2890	---	---	e1700	2140	2020	2060
29	---	---	e4500	2840	2600	2710	1630	---	e1600	2170	1900	2020
30	7950	---	e7380	2740	2600	2700	2300	1340	1800	2060	1980	2030
31	---	---	---	2750	2460	2640	---	---	---	2050	1930	1980
MONTH	---	---	e3380	7850	1510	3710	---	---	e2470	---	---	e2050
AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e2020	2110	1960	2030	1820	1740	1770	1560	1510	1540
2	---	---	e2050	---	---	e1840	1740	1610	1690	1610	1550	1570
3	---	---	e2070	---	---	e1620	1680	1630	1650	1630	1600	1620
4	---	---	e2100	1490	1410	1420	1640	1360	1470	1680	1630	1650
5	2260	2000	2120	1880	1490	1660	1370	1260	1340	1690	1380	1550
6	---	---	e2150	1760	1490	1600	1230	1100	1170	1610	1500	1560
7	---	---	e2180	1640	1490	1560	1570	1250	1440	1620	1580	1590
8	---	---	e2200	1570	1410	1480	1460	1210	1270	1760	1620	1710
9	2330	2110	2220	---	---	e1520	1310	1230	1270	1790	1660	1770
10	2380	2200	2280	1640	1470	1560	1400	1300	1340	1830	1740	1780
11	2390	2090	2250	1650	1540	1590	1510	1390	1450	1850	1760	1810
12	2510	2290	2360	1630	1300	1510	1690	1520	1620	1940	1810	1910
13	2400	2220	2300	1690	1290	1360	1940	1410	1760	1960	1910	1940
14	2420	2190	2300	2130	1780	2050	1940	1390	1690	1990	1910	1940
15	2460	2270	2370	2230	1970	2090	2020	1360	1730	1930	1350	1850
16	2540	2320	2420	2170	1970	2120	1460	1320	1390	1870	1800	1830
17	2450	2340	2380	1970	1440	1760	1320	1210	1280	2250	1880	1990
18	2620	2490	2530	1440	1270	1350	1240	902	1200	1970	1850	1890
19	2580	2310	2420	1330	1180	1290	1240	1200	1210	2210	1990	2090
20	2580	2350	2440	1150	994	1060	1250	1180	1230	2220	2090	2160
21	2380	2190	2300	1070	1030	1040	1260	1190	1240	2430	2000	2120
22	2310	2150	2250	1040	1010	1020	1250	1230	1240	2030	1870	1970
23	2270	2190	2240	998	946	964	1280	1210	1250	2200	2070	2140
24	2390	2230	2310	1060	973	1000	1360	1230	1290	2080	1490	1890
25	---	---	e2360	1230	1060	1120	1410	1360	1370	1720	1630	1670
26	2460	2270	2410	1380	1150	1240	1650	1410	1480	1840	1750	1790
27	---	---	e2350	2430	1380	1800	1670	1190	1600	2200	1850	1960
28	2420	2190	2300	2880	1810	2350	1600	1530	1570	3490	2230	2710
29	2420	2310	2330	2120	1610	1830	1550	1510	1530	3340	3260	3290
30	2310	2150	2200	1920	1600	1730	1560	1410	1530	3330	3270	3300
31	2150	2110	2120	---	---	---	1590	1500	1540	---	---	---
MONTH	---	---	e2270	---	---	e1550	2020	902	1440	3490	1350	1950

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11262900 MUD SLOUGH NEAR GUSTINE, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3320	2810	3130	3450	3330	3400	2490	2020	2170	2460	2110	2330
2	2810	2730	2790	3410	3370	3380	2100	2020	2060	2260	1760	2010
3	2810	2770	2790	---	---	e3320	2170	2020	2100	2340	2180	2250
4	---	---	e2740	---	---	e3260	2330	2100	2190	2420	1870	2120
5	---	---	e2710	---	---	e3200	2330	2140	2210	---	---	e2240
6	2770	2610	2680	---	---	e3130	2490	2290	2430	---	---	e2360
7	2770	2690	2760	3310	2930	3050	2370	2140	2310	---	---	e2480
8	2770	2530	2650	3220	3100	3140	2310	2180	2250	---	---	e2600
9	2650	2370	2560	3580	3360	3420	2330	2180	2260	---	---	e2720
10	2530	2370	2420	3730	3370	3620	2410	2140	2260	3340	2710	2850
11	2490	2260	2410	3630	3450	3580	2810	2140	2350	2950	2560	2770
12	2410	2330	2340	3450	3400	3430	2650	2380	2470	2720	2480	2560
13	3310	2370	2580	3490	3340	3430	3120	2530	2750	2520	2410	2480
14	3930	3350	3520	3490	2880	3150	3080	2930	3000	3120	2410	2640
15	3970	3620	3850	2950	2850	2910	3390	2930	3160	2920	2730	2840
16	---	---	e3540	2850	2640	2770	3460	3150	3300	3060	2820	2930
17	3740	2880	3330	2630	2430	2520	3210	2230	3090	3190	2910	3090
18	2950	2880	2910	2530	2280	2440	3430	3080	3260	3240	3150	3200
19	3420	2950	3230	2420	2190	2340	3750	3240	3460	3410	3240	3320
20	3540	3190	3350	2400	2330	2390	3770	3630	3710	3530	3220	3360
21	3620	3540	3580	2790	2400	2530	3750	3400	3630	3380	3030	3230
22	3770	3610	3690	2950	2790	2850	3360	3120	3260	3000	2030	2770
23	4240	3460	3730	2950	2870	2930	3240	2850	3080	2940	2780	2860
24	---	---	e3850	3030	2870	2950	2850	2810	2840	2910	2750	2850
25	---	---	e3970	3030	2990	3000	2890	2610	2770	---	---	e2890
26	---	---	e4090	3110	2560	3050	2770	2420	2660	2980	2770	2930
27	---	---	e4200	2440	2330	2370	3010	2420	2820	3060	2830	2950
28	---	---	e4340	2520	2410	2450	2650	2310	2420	3660	2560	3070
29	5210	3410	4480	2560	2330	2440	2460	2150	2280	3120	2420	2830
30	3490	3370	3400	2880	2480	2610	---	---	---	2660	2360	2550
31	---	---	e3400	2600	2490	2530	---	---	---	2520	1580	2340
MONTH	---	---	e3260	---	---	e2950	3770	2020	2710	---	---	e2720
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2530	1360	2350	4140	3380	3510	2410	2220	2320	2150	2020	2100
2	---	---	e2550	5300	4260	5300	2730	2390	2560	2010	1830	1890
3	2950	2550	2820	6460	5510	6070	2760	2660	2700	1900	1810	1850
4	3270	2910	3030	5820	4910	5360	2820	2760	2790	1990	1890	1950
5	3280	2780	3000	5890	4930	5540	2940	2660	2790	1870	1780	1800
6	2780	2370	2550	6150	3040	5500	2920	2720	2850	1880	1780	1830
7	2810	2120	2520	---	---	e3000	2840	2580	2700	1890	1180	1540
8	---	---	e2320	3020	2560	2910	2910	2790	2850	1520	1230	1370
9	2440	1720	2020	3110	2930	2980	2860	2710	2810	1640	1450	1550
10	2300	1920	2130	3630	3190	3490	2940	2680	2780	1700	1500	1570
11	2530	1960	2280	3720	3570	3670	3260	2820	2980	1610	1510	1560
12	2340	2090	2220	3930	3710	3800	2770	2080	2390	1760	1360	1510
13	3120	2020	2510	---	---	e3800	2120	2050	2100	3040	2030	2670
14	---	---	e2350	4220	3470	3800	2140	2030	2090	2930	2350	2650
15	---	---	e2250	3390	2580	2870	2170	1990	2100	2630	2110	2380
16	2250	2020	2150	2730	1980	2570	2060	1790	1940	2340	2120	2180
17	2090	1950	2030	2680	2270	2370	1940	1740	1810	3220	2410	2900
18	2180	1870	2030	3170	2860	2980	2050	1910	1990	3420	2580	3260
19	2130	1820	1980	2900	1670	2440	2260	2060	2140	3570	3140	3330
20	2240	1830	2010	1840	---	e1750	2340	2090	2240	3430	3160	3300
21	2520	1940	2230	2010	1520	1790	2240	1820	2120	3290	2620	2940
22	2790	2000	2310	1870	1550	1760	2440	1770	1990	2810	2470	2640
23	---	---	e2440	2000	1620	1840	2390	1770	1950	2760	2600	2650
24	---	---	e2580	2000	1570	1870	2300	1790	2130	2910	1990	2770
25	---	---	e2720	2130	1670	1990	2540	2310	2380	2990	2720	2820
26	3320	2590	2850	2300	2050	2230	2540	2110	2310	2740	2540	2630
27	3560	3330	3450	2310	2300	2300	2290	2120	2230	2580	2470	2530
28	4020	3370	3780	2460	2290	2330	2290	2160	2240	2660	2510	2580
29	3250	2980	3080	2500	2210	2400	2230	2150	2180	2720	2490	2620
30	---	---	e3300	2320	2240	2270	2160	2110	2140	2630	2460	2590
31	---	---	---	2300	2130	2220	---	---	---	2510	2430	2470
MONTH	---	---	e2530	---	---	e3100	3260	1740	2350	3570	1180	2340

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11262900 MUD SLOUGH NEAR GUSTINE, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2450	2330	2410	7050	---	e6000
2	2330	2270	2310	9200	---	e7500
3	2430	2230	2290	8610	---	e5500
4	2520	2320	2400	7400	2240	3310
5	2750	2290	2610	9560	---	e7000
6	2630	2460	2570	---	---	e7200
7	2530	2410	2480	---	---	e7400
8	2530	2360	2460	9430	2740	7550
9	2530	2330	2450	9720	---	e7600
10	5440	2300	2500	---	---	e7300
11	8230	4420	5450	9000	---	e7000
12	4760	2340	3600	---	---	e7000
13	7070	4760	5780	---	---	e6200
14	7260	3440	5560	---	---	e5400
15	4900	3880	4500	---	---	e4600
16	4930	---	e4520	---	---	e3800
17	---	---	e4800	3360	---	e3000
18	---	---	e5100	8530	---	e6500
19	7890	---	e5500	6690	4760	5490
20	---	---	e5300	7340	2780	4480
21	---	---	e5100	9600	---	e7500
22	---	---	e4900	---	---	e7000
23	---	---	e4700	---	---	e6200
24	4960	---	e4550	---	---	e5400
25	7090	5070	6250	---	---	e4600
26	6190	---	e6000	---	---	e3800
27	---	---	e5400	3410	---	e3100
28	---	---	e5000	2130	1600	1840
29	---	---	e4400	2450	1860	2200
30	8970	1170	4280	1830	1420	1570
31	5830	1810	2130	---	---	---
MONTH	---	---	e4110	---	---	e5430

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11262900 MUD SLOUGH NEAR GUSTINE, CA--Continued

WATER TEMPERATURE (°C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	16.0	18.0	20.5	15.5	17.5	25.5	19.5	22.5	28.5	19.0	23.0
2	19.5	16.5	18.0	21.5	14.5	17.5	28.5	20.5	24.5	28.0	18.0	22.5
3	19.0	16.0	17.0	22.5	14.5	19.0	29.5	22.5	25.5	27.0	18.0	22.5
4	18.0	14.5	16.0	24.5	17.0	20.5	29.0	22.5	25.5	27.0	17.5	22.0
5	18.0	14.5	16.5	27.0	18.0	22.0	26.5	21.5	24.0	26.5	18.5	22.5
6	19.0	15.5	17.5	26.5	18.5	22.0	26.5	22.0	24.0	24.5	19.0	22.0
7	20.0	16.5	18.0	24.0	18.5	21.5	27.5	22.0	25.0	27.0	20.0	23.0
8	20.5	17.0	18.5	26.5	19.0	22.0	27.5	22.5	24.5	27.5	20.0	24.0
9	20.5	17.0	19.0	26.5	18.5	22.0	28.0	22.5	25.0	26.5	22.0	24.5
10	21.5	17.0	19.0	25.0	19.0	21.5	27.5	22.5	25.0	25.5	21.0	23.5
11	20.5	17.5	19.0	24.0	18.5	21.5	27.5	22.5	25.0	25.5	20.0	23.0
12	18.0	14.5	16.5	26.5	19.0	22.0	27.5	22.0	24.5	26.0	21.5	24.0
13	20.5	14.5	17.5	27.5	20.0	23.5	27.5	23.0	25.0	28.0	22.0	25.0
14	22.0	16.5	19.5	29.5	20.0	24.5	26.5	22.0	23.5	29.0	23.5	26.0
15	23.0	18.0	20.5	28.5	20.0	24.0	26.5	20.5	23.0	29.0	24.5	26.5
16	23.0	18.5	21.0	25.0	17.5	21.0	24.5	20.0	22.5	27.5	22.0	25.0
17	23.0	18.0	20.0	24.0	16.0	19.5	24.0	20.5	22.5	22.5	18.5	20.5
18	21.0	14.5	17.5	23.5	15.5	19.0	23.5	20.0	22.0	24.0	18.0	21.0
19	19.0	10.5	14.5	21.5	16.0	18.5	25.5	20.5	22.5	25.0	19.0	22.0
20	22.0	13.5	17.0	23.0	16.5	19.5	24.5	19.5	22.0	25.5	20.5	22.5
21	23.5	16.5	19.5	25.0	17.5	21.0	24.5	20.0	22.0	24.0	20.0	22.0
22	23.0	17.5	20.0	26.0	18.0	21.5	24.0	19.5	21.5	22.0	20.0	20.5
23	21.0	17.5	19.5	26.5	18.0	22.0	25.5	19.5	22.5	24.5	22.0	22.0
24	22.0	17.0	19.0	23.5	17.0	19.5	26.5	20.0	23.5	24.5	22.0	23.0
25	24.0	16.5	20.0	24.0	16.5	19.5	29.0	22.5	25.5	25.5	22.0	23.5
26	25.0	18.0	21.0	23.5	16.5	19.5	29.0	22.5	25.5	25.0	21.0	23.0
27	26.0	17.0	21.5	25.5	16.5	20.5	28.5	21.5	24.5	25.5	21.5	23.5
28	23.0	19.0	20.5	26.0	17.0	21.0	28.0	21.0	24.0	25.5	21.0	23.5
29	23.5	16.5	19.5	25.5	18.5	21.5	27.5	20.5	23.5	25.0	22.0	23.5
30	22.0	16.5	18.5	25.5	18.5	22.0	28.0	21.5	24.0	25.0	21.0	23.0
31	---	---	---	26.5	19.0	22.5	---	---	---	25.5	21.0	23.0
MONTH	26.0	10.5	18.6	29.5	14.5	20.9	29.5	19.5	23.8	29.0	17.5	23.1

AUGUST 1987			SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e24.0	28.0	23.5	26.0	25.0	20.5	23.0	17.5	16.0	17.0
2	---	---	e24.5	---	---	e25.0	24.5	20.5	22.5	17.0	14.5	16.0
3	---	---	e25.0	---	---	e24.5	24.5	20.5	22.5	16.5	13.5	15.0
4	---	---	e25.5	28.5	21.0	24.0	24.5	20.0	22.5	16.5	14.0	15.0
5	28.0	24.5	26.5	27.5	19.0	22.5	24.5	20.0	22.5	16.0	14.5	15.0
6	---	---	e26.0	26.0	18.0	21.5	24.5	20.5	22.5	16.0	14.5	15.0
7	---	---	e25.5	26.0	18.5	22.0	25.5	20.0	22.5	17.0	14.0	15.5
8	---	---	e25.0	27.5	19.0	22.5	25.0	18.5	21.5	17.5	14.0	15.5
9	26.5	23.0	25.0	---	---	e22.0	23.5	18.0	21.0	17.5	15.0	16.0
10	26.5	23.0	25.0	26.5	19.0	22.0	23.5	17.5	20.5	16.0	15.0	15.5
11	25.5	22.5	24.0	26.5	18.0	22.0	23.5	17.5	20.5	16.5	14.0	15.5
12	25.5	22.0	23.5	26.0	17.0	21.0	22.5	18.5	20.5	15.5	14.0	15.0
13	24.5	21.5	23.0	24.5	17.5	20.5	22.5	17.5	20.0	15.0	13.5	14.5
14	23.0	20.0	21.5	25.5	17.0	21.0	22.0	16.5	19.0	15.0	13.0	13.5
15	23.5	19.0	21.5	25.5	16.5	21.5	21.5	16.0	18.5	14.5	12.0	13.5
16	25.0	20.5	23.0	25.0	17.0	21.0	21.0	16.0	18.5	14.5	12.5	13.5
17	26.0	22.0	24.0	26.0	16.0	21.0	20.0	16.5	18.0	13.0	12.0	12.5
18	26.0	22.5	24.0	26.0	17.5	21.5	20.0	16.0	18.0	16.0	13.0	14.0
19	24.5	21.5	23.0	26.0	18.5	22.0	20.0	16.0	18.0	15.0	13.5	14.5
20	24.0	21.5	22.5	26.0	18.0	21.5	18.5	16.0	17.5	13.5	12.5	13.0
21	24.0	21.0	22.5	26.0	18.5	22.0	19.0	16.0	17.5	13.0	11.5	12.5
22	24.5	21.0	22.5	25.0	19.0	22.0	18.5	17.5	18.0	14.0	10.5	12.0
23	24.0	20.5	22.0	24.5	19.5	22.0	20.0	17.0	18.5	12.5	10.0	11.0
24	25.5	20.5	23.0	24.5	19.0	22.0	20.0	17.0	18.5	12.5	10.0	11.0
25	---	---	e23.5	24.5	19.0	22.0	21.0	17.0	19.0	10.0	8.0	9.0
26	26.5	22.5	24.0	23.0	19.0	21.5	21.0	17.5	19.0	10.0	7.0	8.5
27	---	---	e24.0	23.5	18.5	21.0	20.0	18.5	19.5	9.5	7.0	8.5
28	27.0	22.5	24.5	24.0	19.0	21.5	22.0	19.0	20.0	12.5	8.0	10.0
29	27.0	23.5	25.0	24.5	19.5	22.0	21.0	19.0	19.5	12.5	8.5	10.5
30	27.0	24.0	25.5	24.5	20.0	22.5	20.5	18.0	19.0	10.0	9.5	10.0
31	26.5	23.5	25.5	---	---	---	18.5	17.5	18.0	---	---	---
MONTH	---	---	e24.0	---	---	e22.1	25.5	16.0	19.9	17.5	7.0	13.3

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11262900 MUD SLOUGH NEAR GUSTINE, CA--Continued

WATER TEMPERATURE (°C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.5	10.5	11.5	8.0	6.0	7.0	12.5	10.5	11.5	16.0	14.0	15.0
2	15.5	11.0	13.5	7.0	5.5	6.0	11.5	10.0	10.5	15.5	12.5	14.0
3	16.5	13.5	15.0	---	---	e6.5	11.5	8.5	10.0	16.5	12.5	14.5
4	14.0	---	e14.0	---	---	e7.0	11.5	8.5	10.0	18.0	13.0	15.5
5	13.0	---	e13.0	---	---	e7.5	11.5	8.5	10.0	---	---	e15.0
6	12.5	10.5	12.0	---	---	e8.0	12.0	9.0	10.0	---	---	e14.5
7	13.5	10.0	11.5	10.0	8.5	9.0	12.5	9.0	10.5	---	---	e14.0
8	11.5	10.5	11.0	10.5	9.5	10.0	11.5	9.0	10.0	---	---	e13.5
9	13.5	10.5	12.0	11.5	9.0	10.0	13.0	9.5	11.5	---	---	e13.0
10	14.0	11.0	12.0	11.0	10.0	10.5	14.5	11.0	13.0	15.0	10.5	12.5
11	13.0	8.5	11.5	12.5	10.5	11.5	15.5	11.5	13.5	12.5	9.5	11.0
12	9.5	6.0	8.0	13.5	9.0	12.0	16.0	12.0	13.5	13.5	10.0	12.0
13	7.5	4.0	5.5	11.0	7.5	9.0	15.5	12.0	13.5	15.5	11.0	13.0
14	8.5	5.5	7.0	10.0	7.5	9.0	15.0	11.0	13.0	16.5	12.5	14.5
15	8.5	6.0	7.0	11.0	9.0	10.0	15.0	11.5	13.0	17.0	13.0	15.0
16	8.0	---	e8.0	10.0	9.0	9.5	13.5	11.0	12.5	17.0	12.5	15.0
17	12.0	7.5	9.5	9.0	7.5	8.5	12.5	9.0	11.0	18.5	13.0	16.0
18	10.0	6.5	8.5	9.0	6.0	7.5	12.5	9.0	10.5	20.0	14.5	17.5
19	11.5	8.5	10.0	9.0	6.5	7.5	13.0	8.0	10.5	21.5	16.0	18.5
20	11.0	8.5	10.0	9.0	6.5	8.0	12.5	7.5	10.0	21.5	17.0	19.0
21	10.5	8.5	9.5	10.0	7.0	8.5	14.5	10.5	12.0	20.0	16.5	18.0
22	12.0	9.0	10.5	10.0	7.5	8.5	15.0	10.5	13.0	19.5	15.5	17.5
23	10.5	6.0	8.5	11.0	7.5	9.0	14.5	11.5	13.5	20.5	16.5	18.0
24	11.5	5.5	8.0	12.0	8.5	10.0	15.5	12.0	14.0	17.5	14.5	16.0
25	10.0	4.5	7.0	12.5	9.0	10.5	16.0	12.5	14.5	---	---	e17.0
26	12.0	8.0	10.0	12.0	9.5	10.5	16.5	14.0	15.5	21.5	16.0	18.5
27	12.5	10.5	11.5	11.5	9.5	10.5	16.5	15.0	16.0	18.5	11.5	15.5
28	10.5	---	e10.0	12.5	10.0	11.0	17.5	14.5	16.0	14.0	9.0	11.5
29	10.0	6.0	8.0	13.0	11.5	12.0	16.0	15.5	15.5	16.5	11.5	13.5
30	8.5	5.5	7.0	13.0	11.0	12.0	---	---	---	16.0	12.0	14.0
31	7.0	---	e7.0	13.0	10.5	11.5	---	---	---	16.5	10.5	13.5
MONTH	16.5	---	e9.9	---	---	e9.3	17.5	7.5	12.3	---	---	e15.0
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	12.0	15.5	19.0	13.0	16.0	24.0	20.0	22.0	29.5	22.0	25.5
2	---	---	e16.5	20.5	14.0	17.5	26.5	21.5	23.5	30.5	23.5	27.0
3	20.5	15.5	18.0	21.0	16.0	18.5	26.5	22.0	24.0	31.5	24.0	28.0
4	20.0	16.0	18.0	21.0	17.5	19.0	27.0	21.0	23.0	30.5	24.0	27.0
5	20.5	15.5	18.0	18.5	16.5	17.5	25.0	18.5	21.5	28.5	22.5	25.5
6	22.5	16.0	19.5	20.0	15.5	17.5	23.0	18.0	20.0	29.5	21.5	25.5
7	22.0	16.5	19.0	---	---	e18.0	22.0	18.0	20.0	27.0	22.5	25.0
8	---	---	e18.0	24.0	13.5	18.5	23.0	18.5	20.5	25.5	23.0	24.0
9	21.0	14.5	17.0	24.0	15.5	19.5	24.0	19.5	21.5	28.0	22.5	24.5
10	23.0	16.5	19.0	24.0	17.5	20.5	24.0	20.5	22.0	33.0	26.0	29.5
11	26.0	18.5	21.5	27.5	19.0	23.0	27.5	20.0	23.0	31.0	24.5	28.0
12	24.5	18.5	21.0	26.5	20.0	22.5	25.0	19.0	22.0	31.0	23.0	27.0
13	21.0	18.0	19.0	---	---	e22.0	29.0	20.5	24.5	33.5	22.5	27.5
14	---	---	e18.0	24.5	17.5	21.0	29.5	21.5	25.5	33.0	24.5	29.0
15	---	---	e16.5	28.0	19.5	23.5	29.0	22.5	26.0	32.0	24.5	28.5
16	17.0	14.0	15.5	22.5	18.5	20.5	29.0	22.0	25.0	30.0	24.5	26.5
17	20.5	14.5	17.0	22.0	17.0	19.5	28.5	21.0	24.5	26.0	23.5	25.0
18	21.5	15.5	18.5	22.0	18.5	21.0	29.0	22.0	25.5	26.5	23.5	25.0
19	19.0	16.0	17.0	26.5	21.0	23.0	30.5	23.0	26.5	26.5	23.5	25.0
20	18.0	14.0	15.5	30.0	22.0	25.5	27.5	21.5	24.0	26.5	23.5	25.0
21	19.0	14.0	16.5	30.5	25.0	27.5	27.5	19.0	23.0	31.5	24.0	25.5
22	18.5	15.5	17.0	29.0	25.0	26.5	27.0	20.5	24.0	34.5	26.0	30.0
23	---	---	e17.5	30.0	23.5	26.5	25.5	21.5	24.0	33.5	26.5	30.0
24	---	---	e18.0	28.0	23.5	25.5	27.5	22.0	24.0	33.5	26.5	29.5
25	---	---	e19.0	27.0	22.5	24.5	25.0	20.0	22.0	33.0	25.5	29.0
26	25.5	18.0	20.5	25.0	20.5	22.5	26.5	19.0	22.5	33.5	25.5	29.5
27	24.5	18.0	20.5	26.0	20.5	23.0	27.5	21.0	24.0	32.5	26.0	29.5
28	24.0	16.0	19.5	24.0	20.0	22.0	27.0	21.5	24.0	33.5	25.0	29.0
29	22.0	17.5	19.5	22.0	18.5	20.0	24.0	18.0	21.5	33.0	25.0	29.0
30	---	---	e17.5	21.5	18.0	19.5	27.0	19.0	23.0	33.5	25.5	29.5
31	---	---	---	22.0	18.0	20.0	---	---	---	31.5	24.5	28.0
MONTH	---	---	e18.1	---	---	e21.3	30.5	18.0	23.2	34.5	21.5	27.3

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued**11262900 MUD SLOUGH NEAR GUSTINE, CA--Continued****WATER TEMPERATURE (°C)**

AUGUST 1988				SEPTEMBER 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	32.0	24.0	28.0	27.5	23.5	25.5
2	31.5	23.5	27.5	26.5	23.5	25.0
3	31.0	22.5	26.5	27.0	23.5	25.0
4	27.5	22.0	25.0	27.5	23.5	25.5
5	29.5	21.5	25.0	27.0	24.5	26.0
6	28.5	20.5	24.5	26.5	23.5	25.0
7	28.5	20.0	24.5	25.0	22.0	23.5
8	29.0	20.5	25.0	28.0	22.0	25.0
9	27.0	21.0	24.0	26.5	20.5	23.5
10	27.5	20.5	24.0	26.5	19.5	23.0
11	27.5	20.0	24.0	23.5	19.0	21.5
12	27.5	18.5	22.5	24.0	16.5	20.0
13	28.0	19.0	23.0	25.0	16.5	21.0
14	29.0	19.0	23.0	26.5	18.0	22.0
15	27.5	18.5	23.0	26.0	18.5	22.0
16	28.0	19.5	23.5	---	16.5	e21.0
17	28.0	20.5	24.0	24.5	13.0	18.5
18	27.5	21.0	24.0	23.5	12.0	18.0
19	27.0	20.5	24.0	21.5	15.0	18.5
20	28.0	21.5	24.5	22.0	16.0	19.0
21	27.5	21.5	24.0	24.0	16.5	20.0
22	28.0	21.0	24.0	25.0	17.0	20.5
23	26.5	21.0	23.5	26.5	17.5	21.5
24	26.0	21.5	23.5	26.0	17.5	21.0
25	25.5	21.5	24.0	28.0	16.5	20.5
26	26.5	23.0	24.5	25.0	15.0	19.5
27	26.5	22.5	24.5	24.0	16.0	19.5
28	25.5	22.5	24.0	24.0	15.0	19.5
29	26.5	22.0	24.5	26.0	15.5	20.5
30	28.5	23.5	25.5	27.5	16.5	21.5
31	28.0	23.5	26.0	---	---	---
MONTH	32.0	18.5	24.4	---	12.0	e21.7

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11272500 MERCED RIVER NEAR STEVINSON, CA

LOCATION.--Lat 37°22'15", long 120°55'46", in SW 1/4 NE 1/4 sec. 36, T.6 S., R.9 E., Merced County, Hydrologic Unit 18040002, on right bank 4.4 mi upstream from mouth, and 5.3 mi northwest of Stevinson.

DRAINAGE AREA.--1,273 mi².

PERIOD OF RECORD.--June 1985 to September 1988.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1985 to September 1988.

WATER TEMPERATURES: October 1985 to September 1988.

INSTRUMENTATION.--Minimonitor recorder since October 1985.

REMARKS.--Samples collected 3.2 mi downstream from gage. Streamflow records from gage site. Periods when maximums and/or minimums were not recorded were due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 842 microsiemens, May 8, 1987; minimum daily, 31 microsiemens, July 26, 1987 and Aug. 7, 1988.

WATER TEMPERATURE: Maximum recorded, 30.5 °C, July 17, 1988; minimum recorded, 3.5 °C, Jan. 19-22, 1988.

WATER QUALITY DATA

DATE	TIME	STREAM FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS, TOTAL (MG/L AS CaCO ₃)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO ₃	CALCIUM, DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)
APR 1987												
22...	0815	195	205	7.8	19.0	760	7.8	61	0	16	5.2	22
MAY												
20...	1500	181	174	7.8	23.0	755	8.2	51	0	13	4.4	15
JUN												
17...	0815	161	265	7.8	21.0	760	7.6	65	0	17	5.5	25
JUL												
21...	1030	125	249	8.0	21.5	760	9.0	67	0	17	5.9	26
AUG												
19...	0815	146	220	7.7	21.0	760	7.4	57	0	15	4.8	20
SEP												
23...	0815	156	225	7.6	19.0	760	7.3	59	0	15	5.2	19
OCT												
21...	0815	125	200	7.1	16.0	760	8.4	62	0	16	5.4	17
NOV												
18...	0900	214	153	7.7	13.0	770	9.2	46	0	12	3.9	14
DEC												
16...	0830	220	164	7.5	8.5	760	10.5	46	0	12	4.0	13
JAN 1988												
21...	1015	288	165	7.2	8.0	770	10.6	46	0	11	4.4	10
FEB												
18...	0815	219	161	7.5	10.0	760	10.2	55	0	14	4.8	14
MAR												
15...	0830	207	186	7.6	13.0	760	9.2	59	0	15	5.3	16
APR												
20...	0845	184	194	7.6	15.0	755	8.3	60	0	15	5.4	18
MAY												
18...	0945	167	283	7.6	19.0	760	8.1	72	0	19	5.9	28
JUN												
23...	0845	100	282	7.2	24.0	755	6.3	80	0	21	6.7	28
JUL												
19...	1500	72	359	7.4	29.5	760	7.0	86	0	23	6.9	40
AUG												
25...	0815	107	173	6.9	22.0	760	5.2	55	0	14	4.9	18
SEP												
28...	0845	23	448	7.4	18.0	760	8.2	130	0	32	12	49

Table 1. Water-quality records at continuing-record sites--Continued**11272500 MERCED RIVER NEAR STEVINSON, CA--Continued****WATER QUALITY DATA**

DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L AS CAC03)	SULFATE, DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 °C, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)
APR 1987												
22...	43	1	1.8	62	14	20	<0.1	14	136	71.6	0.18	1.8
MAY												
20...	38	0.9	1.6	57	7.0	10	0.1	12	97	47.4	0.13	0.88
JUN												
17...	45	1	1.6	71	14	24	0.1	15	154	66.9	0.21	1.7
JUL												
21...	45	1	1.3	95	12	17	0.2	16	138	46.6	0.19	1.3
AUG												
19...	42	1	1.4	69	14	27	0.1	16	144	56.8	0.20	1.5
SEP												
23...	41	1	1.0	66	13	19	0.1	16	128	53.9	0.17	1.3
OCT												
21...	37	1	1.1	71	11	10	0.1	17	118	39.8	0.16	1.3
NOV												
18...	37	0.9	4.8	47	9.6	14	0.1	13	97	56.0	0.13	1.1
DEC												
16...	37	0.9	1.8	51	11	10	0.2	13	91	54.1	0.12	1.3
JAN 1988												
21...	29	0.7	6.5	53	12	8.4	0.2	12	101	78.5	0.14	1.4
FEB												
18...	34	0.9	3.7	61	13	11	0.2	11	109	64.5	0.15	1.4
MAR												
15...	36	0.9	2.3	62	11	12	0.1	14	119	66.5	0.16	1.4
APR												
20...	38	1	2.4	66	16	11	0.2	15	121	60.1	0.16	1.4
MAY												
18...	45	1	1.8	76	15	28	0.2	16	161	72.6	0.22	1.6
JUN												
23...	43	1	1.5	87	8.6	20	0.3	17	167	45.1	0.23	1.2
JUL												
19...	50	2	1.7	90	18	39	0.2	19	193	37.5	0.26	2.0
AUG												
25...	41	1	0.50	62	11	12	0.1	16	116	33.5	0.16	0.71
SEP												
28...	45	2	1.9	153	29	38	0.2	85	285	17.7	0.39	2.0

Table 1. Water-quality records at continuing-record sites--Continued

11272500 MERCED RIVER NEAR STEVINSON, CA--Continued

WATER QUALITY DATA												
DATE	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS NH ₄)	NITRO- GEN,AM- MONIA + ORGANIC, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC, TOTAL (MG/L AS C)	CHLOR-A PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	SED. SUSP., SIEVE DIAM. % FINER THAN 0.062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
APR 1987												
22...	0.04	0.05	0.50	0.09	0.07	0.04	3.2	2.5	0.20	90	44	23
MAY												
20...	0.03	0.04	0.70	0.13	0.08	0.08	2.9	4.3	0.70	89	19	9.3
JUN												
17...	0.02	0.03	1.4	0.09	0.07	0.06	3.6	2.3	0.20	91	19	8.3
JUL												
21...	0.03	0.04	0.80	0.07	0.05	0.04	2.7	<0.60	<0.10	88	12	4.0
AUG												
19...	0.03	0.04	0.50	0.11	0.07	0.05	2.9	3.2	0.30	89	34	13
SEP												
23...	<0.01	--	0.50	0.06	0.03	0.02	2.2	1.1	<0.30	82	14	5.9
OCT												
21...	0.02	0.03	0.90	0.04	<0.01	0.02	2.2	3.0	0.40	84	22	7.4
NOV												
18...	0.02	0.03	<0.20	0.04	0.04	0.02	2.7	--	--	74	14	8.1
DEC												
16...	0.04	0.05	1.7	0.03	0.03	0.02	2.0	<0.30	<0.20	--	--	--
JAN 1988												
21...	0.52	0.67	0.80	0.43	0.35	0.32	7.4	7.9	1.5	82	48	37
FEB												
18...	0.03	0.04	0.30	0.15	0.10	0.08	2.9	2.5	0.50	89	19	11
MAR												
15...	0.05	0.06	0.30	0.07	0.05	0.05	2.8	1.9	<0.10	88	31	17
APR												
20...	0.04	0.05	0.70	0.17	0.07	0.07	4.4	3.6	0.40	90	36	18
MAY												
18...	0.04	0.05	0.30	0.07	0.05	0.05	3.5	3.4	0.40	95	28	13
JUN												
23...	0.06	0.08	0.50	0.11	0.09	0.08	3.8	7.0	1.7	76	14	3.8
JUL												
19...	0.06	0.08	0.50	0.11	0.08	0.06	3.3	2.5	0.50	57	9	1.7
AUG												
25...	<0.01	--	0.70	0.05	0.03	0.03	3.4	1.4	0.40	66	18	5.2
SEP												
28...	0.02	0.03	0.40	0.06	0.05	0.04	3.1	1.0	0.30	75	6	0.37

Table 1. Water-quality records at continuing-record sites--Continued

11272500 MERCED RIVER NEAR STEVINSON, CA--Continued

WATER QUALITY DATA									
DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, TOTAL (UG/L AS AS)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
APR 1987									
22...	640	20	2	2	40	30	6	4	<1
MAY									
20...	330	10	2	1	40	<10	6	6	2
JUN									
17...	280	<10	2	1	20	30	10	3	1
JUL									
21...	220	<10	1	1	30	40	<1	3	1
AUG									
19...	840	20	2	1	50	30	<1	4	<1
SEP									
23...	280	<10	1	1	70	30	2	3	1
OCT									
21...	440	<10	1	1	70	20	<1	4	1
NOV									
18...	270	<10	1	1	40	20	<1	3	<1
DEC									
16...	250	<10	1	<1	20	30	2	3	1
JAN 1988									
21...	1100	120	2	1	20	20	2	14	3
FEB									
18...	340	10	1	1	50	20	2	4	<1
MAR									
15...	330	<10	1	1	--	30	2	5	6
APR									
20...	610	<10	2	2	--	20	2	3	1
MAY									
18...	560	<10	3	2	60	40	2	5	1
JUN									
23...	220	<10	2	2	--	40	<1	5	<1
JUL									
19...	190	<10	2	2	50	50	1	4	1
AUG									
25...	310	20	2	2	30	30	2	5	1
SEP									
28...	150	10	2	2	80	60	<1	4	1

Table 1. Water-quality records at continuing-record sites--*Continued*

11272500 MERCED RIVER NEAR STEVINSON, CA--*Continued*

WATER QUALITY DATA									
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM, TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY, DIS- SOLVED (UG/L AS HG)
APR 1987									
22...	1300	50	<5	<10	--	110	22	0.2	<0.1
MAY									
20...	750	110	<5	<10	<4	70	33	0.1	<0.1
JUN									
17...	720	46	17	<10	5	70	30	<0.1	<0.1
JUL									
21...	340	35	<5	<10	9	110	57	<0.1	0.1
AUG									
19...	1100	40	<5	<10	<10	170	70	<0.1	<0.1
SEP									
23...	520	35	<5	<10	<4	80	32	<0.1	<0.1
OCT									
21...	790	16	<5	<10	<4	130	22	<0.1	<0.1
NOV									
18...	580	23	<5	<10	<4	70	13	<0.1	<0.1
DEC									
16...	380	33	<5	<10	4	50	13	<0.1	<0.1
JAN 1988									
21...	2000	12	<5	<10	<4	140	17	<0.1	<0.1
FEB									
18...	790	43	<5	<10	<4	120	25	<0.1	<0.1
MAR									
15...	1000	73	<5	<10	9	150	28	<0.1	<0.1
APR									
20...	1300	49	<5	<10	<4	--	36	<0.1	<0.1
MAY									
18...	1200	87	<5	<10	<4	150	39	<0.1	<0.1
JUN									
23...	510	72	<5	<10	<4	120	76	<0.1	<0.1
JUL									
19...	350	30	<5	<10	<4	100	56	<0.1	<0.1
AUG									
25...	570	27	<5	<10	<4	170	74	<0.1	<0.1
SEP									
28...	280	120	<5	<10	14	--	--	<0.1	<0.1

Table 1. Water-quality records at continuing-record sites--Continued

11272500 MERCED RIVER NEAR STEVINSON, CA--Continued

WATER QUALITY DATA								
DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 1987								
22...	1	<1	2	--	<1	<1	<10	4
MAY								
20...	<4	<1	2	<1	<1	<1	<10	<3
JUN								
17...	<4	<1	3	<1	<1	<1	<10	4
JUL								
21...	<2	<1	16	<1	<1	<1	<10	<3
AUG								
19...	2	1	3	<1	<1	<1	10	<10
SEP								
23...	2	<1	<1	1	<1	<1	<10	<3
OCT								
21...	1	<1	11	<1	<1	<1	<10	6
NOV								
18...	1	<1	1	<1	<1	<1	<10	<3
DEC								
16...	<1	<1	2	1	<1	<1	<10	<3
JAN 1988								
21...	3	1	<1	1	<1	<1	10	<3
FEB								
18...	4	2	2	1	<1	<1	<10	<3
MAR								
15...	1	2	8	9	<1	<1	10	<3
APR								
20...	2	2	2	3	<1	<1	<10	10
MAY								
18...	2	2	10	1	<1	<1	--	3
JUN								
23...	6	<1	5	5	<1	<1	10	4
JUL								
19...	5	5	1	<1	<1	<1	10	<3
AUG								
25...	4	1	4	1	<1	<1	<10	8
SEP								
28...	8	2	2	1	<1	<1	<10	--

Table 1. Water-quality records at continuing-record sites--Continued

11272500 MERCED RIVER NEAR STEVINSON, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	361	199	272	333	190	260	326	100	185	208	53	82
2	362	182	241	587	169	249	299	106	133	192	79	119
3	457	209	300	317	174	272	244	157	199	173	98	147
4	453	229	316	176	149	162	421	188	286	299	100	160
5	468	279	381	422	183	267	410	170	279	399	81	233
6	416	236	317	502	216	259	481	112	240	349	88	204
7	638	209	324	569	226	268	330	129	254	149	40	70
8	638	237	349	842	224	382	205	86	151	126	71	99
9	432	220	316	508	185	292	649	95	212	344	87	113
10	341	193	216	532	177	221	545	125	197	297	95	151
11	494	242	339	413	152	199	550	120	238	664	52	213
12	487	198	339	464	156	283	488	119	269	131	---	e120
13	422	275	337	392	209	278	439	138	266	176	---	e150
14	393	261	333	403	223	270	334	102	151	259	41	85
15	447	235	316	587	244	378	389	63	149	225	54	120
16	399	237	298	412	198	327	406	91	214	165	141	155
17	409	262	333	387	131	197	505	103	221	407	61	243
18	363	189	243	378	125	213	453	103	196	144	58	108
19	374	200	312	391	141	263	353	98	220	141	64	95
20	224	137	160	369	152	237	433	71	154	214	50	98
21	409	151	228	322	162	251	331	81	187	301	49	135
22	426	231	327	409	138	210	269	---	e160	294	47	145
23	438	248	342	363	131	231	345	---	e180	281	104	190
24	386	250	323	314	143	246	311	---	e135	201	46	120
25	349	215	295	241	119	166	307	61	129	229	37	68
26	343	247	294	247	109	159	80	50	63	70	31	45
27	380	245	301	122	106	112	294	66	118	164	46	89
28	439	220	340	154	124	143	397	73	225	228	85	121
29	439	184	291	547	150	172	772	---	e260	416	99	242
30	331	189	237	550	159	300	630	63	247	377	163	214
31	---	---	---	367	138	263	---	---	---	438	219	288
MONTH	638	137	301	842	106	243	772	---	e197	664	---	e143
AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	334	208	247	280	214	246	294	254	267	600	214	402
2	275	215	239	288	227	257	422	264	284	624	243	442
3	267	136	222	293	198	232	344	280	304	492	165	260
4	248	144	211	281	227	247	353	281	308	252	155	206
5	424	228	281	265	227	242	321	282	298	351	139	227
6	282	236	259	276	207	240	335	323	326	329	135	229
7	369	228	264	280	215	244	418	336	353	441	183	261
8	381	246	297	295	245	270	378	323	345	252	117	161
9	303	182	261	341	230	284	447	295	355	304	132	227
10	258	179	207	280	232	243	381	312	362	286	153	200
11	278	150	206	365	270	301	388	343	355	336	---	e230
12	264	151	186	294	253	271	380	344	353	250	---	e210
13	357	185	228	335	222	264	401	335	356	246	---	e230
14	331	179	259	302	226	254	480	360	381	277	---	e280
15	240	206	218	291	220	243	432	262	319	322	278	290
16	251	207	225	272	218	245	383	291	326	307	---	e260
17	206	149	174	231	214	220	322	252	286	124	---	e120
18	227	171	187	262	223	245	340	254	292	256	113	188
19	269	215	237	238	225	232	370	221	279	424	248	300
20	457	228	260	250	234	244	311	168	215	507	433	471
21	391	231	267	245	205	226	221	168	184	532	506	526
22	392	200	299	263	204	226	255	164	205	529	484	512
23	293	173	227	400	220	282	239	172	208	502	440	455
24	221	170	193	587	253	326	217	155	189	438	429	432
25	290	191	216	321	226	271	519	145	238	458	428	439
26	237	200	222	329	214	257	188	156	175	492	406	460
27	240	205	221	348	191	222	212	156	191	699	---	e500
28	289	213	230	259	174	203	179	109	139	352	149	220
29	347	212	240	347	187	229	183	131	161	205	---	e170
30	317	219	260	263	234	244	458	186	342	157	---	e140
31	290	185	228	---	---	---	497	169	238	---	---	---
MONTH	457	136	235	587	174	250	519	109	279	699	---	e302

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11272500 MERCED RIVER NEAR STEVINSON, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	322	166	240	157	146	150	169	152	160	164	99	116
2	517	305	378	155	152	154	175	162	170	119	82	93
3	473	368	446	162	155	159	178	168	173	107	98	104
4	511	474	489	164	158	160	181	161	171	127	102	111
5	532	501	520	178	158	164	171	159	166	265	119	156
6	510	297	442	169	163	166	172	161	165	245	106	182
7	535	---	e450	168	166	167	171	155	161	183	123	141
8	---	---	e400	167	164	165	164	155	160	367	127	204
9	---	---	e300	165	162	163	166	134	157	347	184	267
10	256	---	e230	181	162	166	170	138	153	292	103	195
11	373	134	262	166	161	163	170	142	163	189	108	129
12	488	379	437	164	161	163	166	141	158	233	106	168
13	609	490	546	166	163	164	167	148	161	232	112	174
14	634	604	618	167	164	166	174	152	163	207	94	151
15	661	552	621	169	165	167	174	151	160	319	108	156
16	671	156	337	168	163	165	164	148	155	320	202	241
17	157	147	152	190	163	171	166	155	162	289	104	157
18	151	147	148	218	156	181	175	160	165	272	122	144
19	155	151	153	168	116	129	183	168	174	265	111	182
20	157	154	156	156	116	135	189	179	184	288	111	179
21	157	155	156	172	158	166	197	184	190	390	126	208
22	158	154	156	180	169	173	205	193	199	456	129	235
23	160	155	157	180	170	176	208	182	193	148	119	134
24	291	151	183	170	163	166	200	184	191	440	139	256
25	153	148	150	165	159	161	200	138	165	459	157	337
26	155	153	154	167	158	160	144	135	139	595	137	331
27	153	145	148	166	155	159	242	117	161	579	283	365
28	169	147	162	156	150	154	137	116	122	601	157	379
29	159	150	156	164	151	158	125	97	106	402	181	267
30	150	128	135	170	142	150	---	---	---	247	200	209
31	156	130	138	179	152	167	---	---	---	563	202	306
MONTH	---	---	e291	218	116	162	242	97	164	601	82	202

APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	431	163	207	214	174	196	---	---	e280	564	477	517
2	464	166	227	196	161	172	---	---	e280	596	558	574
3	586	148	229	267	158	179	---	---	e280	600	549	573
4	354	149	226	164	136	148	---	---	e280	545	299	437
5	415	168	206	162	144	156	---	---	e280	295	168	213
6	371	169	231	165	156	160	---	---	e280	169	123	142
7	453	172	299	179	144	161	---	---	e280	177	116	135
8	456	153	198	165	159	161	---	---	e280	280	191	227
9	320	155	182	166	158	162	---	---	e280	337	280	303
10	165	156	159	241	145	162	---	---	e280	355	322	335
11	184	160	172	244	157	170	---	---	e280	325	258	284
12	205	167	178	289	164	178	---	---	e280	354	245	314
13	248	200	224	460	165	227	---	---	e280	413	343	373
14	266	223	247	679	165	296	---	---	e280	438	294	378
15	222	184	202	685	181	394	---	---	e280	332	280	305
16	230	188	214	525	179	267	---	---	e280	284	232	262
17	229	195	210	465	200	265	---	---	e280	347	261	287
18	217	196	211	469	270	364	---	---	e280	393	323	356
19	218	190	203	607	300	417	---	---	e280	---	---	e340
20	195	173	190	---	---	e380	---	---	e280	---	---	e320
21	180	170	175	---	---	e300	---	---	e280	---	---	e300
22	180	151	161	---	---	e290	---	---	e280	---	---	e280
23	158	131	140	---	---	e280	---	---	e280	---	---	e260
24	140	117	125	---	---	e280	737	---	e600	---	---	e240
25	156	121	139	---	---	e280	623	---	e580	---	---	e220
26	177	153	161	---	---	e280	584	450	523	---	---	e200
27	195	172	181	---	---	e280	435	143	274	---	---	e190
28	197	181	195	---	---	e280	250	122	163	---	---	e180
29	193	176	181	---	---	e280	268	225	246	---	---	e175
30	183	174	180	---	---	e280	480	286	366	---	---	e175
31	---	---	---	---	---	e280	---	---	---	---	---	e175
MONTH	586	117	195	---	---	e249	---	---	e306	---	---	e293

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued*

11272500 MERCED RIVER NEAR STEVINSON, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

AUGUST 1988				SEPTEMBER 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e175	223	209	213
2	177	165	171	234	217	225
3	204	190	196	241	205	221
4	219	101	169	219	210	214
5	121	---	e100	226	207	218
6	36	---	e34	236	216	228
7	45	31	38	246	223	236
8	63	40	51	252	239	245
9	75	54	66	275	252	258
10	112	68	81	284	262	273
11	146	114	125	293	275	286
12	184	144	163	299	281	291
13	212	185	191	310	289	302
14	238	210	220	322	308	314
15	260	234	246	340	322	330
16	269	242	258	354	331	344
17	274	249	261	362	341	352
18	274	240	261	370	349	360
19	265	227	251	378	358	369
20	260	123	148	391	375	382
21	190	92	109	397	382	389
22	197	98	138	407	395	400
23	138	99	116	411	393	403
24	155	123	140	415	393	405
25	182	150	164	427	404	421
26	205	175	185	433	416	427
27	210	192	202	441	425	436
28	221	200	209	719	443	523
29	212	201	206	587	402	512
30	217	207	213	762	563	703
31	224	200	213	---	---	---
MONTH	---	---	e165	762	205	343

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11272500 MERCED RIVER NEAR STEVINSON, CA--Continued

WATER TEMPERATURE (°C)												
APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	16.0	18.0	22.5	18.5	20.5	24.5	19.5	22.0	26.5	22.0	24.5
2	20.0	16.5	18.5	22.0	17.0	19.5	26.0	20.5	23.5	26.5	21.5	24.0
3	19.5	17.0	18.5	23.5	18.0	20.5	27.5	23.0	25.0	26.5	22.0	24.0
4	20.0	16.0	18.0	25.5	20.0	22.5	27.0	21.5	24.5	27.0	21.5	24.0
5	21.0	16.0	18.5	26.0	21.0	23.5	24.5	21.0	23.0	27.0	21.0	24.0
6	21.0	16.5	18.5	27.0	21.0	24.5	24.5	21.0	22.5	26.0	21.5	24.0
7	21.0	17.0	19.0	27.5	22.5	25.0	26.5	21.0	23.5	27.0	23.0	25.0
8	21.5	17.5	19.5	27.5	22.5	24.5	26.5	21.5	24.0	27.5	23.5	25.5
9	22.5	18.0	20.0	27.0	22.0	25.0	27.5	21.0	24.5	27.5	24.0	26.0
10	22.0	18.5	20.5	27.5	23.5	25.5	27.0	22.0	24.5	28.0	23.0	25.5
11	21.5	18.5	19.5	28.0	22.5	25.5	27.0	21.5	24.5	27.5	22.5	25.0
12	21.0	16.5	18.5	27.0	22.5	25.5	27.0	21.0	24.5	27.5	23.5	26.0
13	22.0	17.0	19.5	27.0	23.0	25.0	27.5	22.0	24.5	28.0	24.0	26.0
14	23.0	18.5	20.5	28.5	22.5	25.5	26.5	22.0	24.5	29.0	24.0	26.5
15	24.0	19.0	21.5	27.5	22.5	25.5	25.5	21.5	23.5	29.0	24.5	27.0
16	24.0	19.5	22.0	27.0	21.5	24.0	25.5	20.5	23.0	29.0	24.5	26.5
17	23.0	19.5	21.5	25.5	21.0	23.5	25.5	20.5	23.0	24.5	20.5	22.5
18	21.5	18.5	20.0	24.5	21.0	22.5	26.0	19.5	23.0	27.0	20.5	23.0
19	20.0	15.5	18.0	24.0	20.0	22.0	26.5	21.0	23.5	26.0	21.0	23.0
20	21.0	16.0	18.5	23.5	19.5	21.5	26.0	21.5	23.5	25.0	21.5	23.5
21	23.0	18.0	20.5	24.0	19.0	21.5	26.0	21.0	23.5	26.5	21.0	23.5
22	23.0	19.0	21.0	24.0	19.0	21.5	25.0	21.0	23.0	26.5	20.0	23.0
23	23.5	19.5	21.0	24.0	19.5	22.0	26.0	21.5	24.0	25.5	20.5	23.0
24	23.0	18.5	20.5	23.5	19.0	21.0	27.0	21.5	24.5	26.0	20.5	23.5
25	23.0	18.5	21.0	22.5	18.5	20.5	28.5	23.0	26.0	26.0	21.0	23.5
26	24.0	19.5	21.5	23.0	18.5	20.5	28.0	24.0	26.0	25.0	21.0	23.0
27	25.5	20.0	22.5	23.5	19.0	21.5	28.0	23.5	25.5	25.0	21.0	23.0
28	24.0	20.5	22.0	24.0	19.5	21.5	27.0	22.5	24.5	25.5	20.5	23.5
29	23.5	19.5	21.5	24.0	20.0	22.0	26.5	22.0	24.5	25.0	20.5	23.0
30	23.0	19.5	21.0	23.5	19.0	21.5	27.0	21.0	24.0	25.5	20.0	23.0
31	---	---	---	24.0	19.5	21.5	---	---	---	26.0	20.5	23.5
MONTH	25.5	15.5	20.0	28.5	17.0	22.8	28.5	19.5	24.0	29.0	20.0	24.2
AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	28.5	21.5	24.5	25.5	23.5	24.5	22.5	18.5	20.5	16.5	16.0	16.5
2	27.5	23.5	25.5	25.5	23.5	24.5	22.0	18.5	20.5	16.5	15.5	16.0
3	27.5	23.5	25.5	25.5	23.5	24.5	22.5	18.5	20.5	16.0	15.0	15.5
4	28.5	24.0	26.0	25.0	23.0	24.0	22.5	18.5	20.5	15.5	14.5	15.0
5	27.0	24.0	26.0	24.0	22.0	23.0	22.0	18.5	20.5	15.5	14.5	15.0
6	28.0	24.0	26.0	22.0	20.5	21.5	22.0	18.5	20.0	15.5	15.0	15.0
7	27.5	23.0	25.5	21.5	20.0	21.0	21.5	18.5	20.0	15.5	14.5	15.0
8	27.5	23.0	25.0	22.0	20.0	21.0	21.5	18.0	19.5	15.5	14.5	15.0
9	26.5	22.5	24.5	22.5	20.5	21.5	20.5	17.5	19.0	15.5	14.5	15.0
10	26.5	22.5	24.5	22.0	20.5	21.5	20.0	17.0	18.5	15.0	14.5	14.5
11	26.0	22.0	24.5	21.5	19.5	20.5	20.5	17.0	19.0	14.5	14.0	14.5
12	26.0	22.5	24.5	21.0	19.5	20.0	20.0	17.5	19.0	14.5	14.0	14.0
13	25.5	22.0	24.0	21.0	19.0	20.0	19.5	17.0	18.5	14.0	14.0	14.0
14	25.0	22.0	23.5	21.0	19.5	20.0	19.5	17.0	18.0	14.0	13.5	14.0
15	24.5	21.0	23.0	21.0	19.0	20.0	19.0	16.5	18.0	14.0	13.0	13.5
16	25.0	21.5	23.0	21.0	19.5	20.0	18.5	16.5	17.5	13.5	13.0	13.5
17	25.5	22.0	24.0	21.0	19.0	20.0	18.5	16.5	17.5	13.5	13.0	13.5
18	25.0	22.0	23.5	21.0	19.5	20.0	18.0	16.0	17.5	14.5	12.5	13.5
19	24.5	21.5	23.0	21.0	19.5	20.0	18.5	16.0	17.0	14.0	13.0	13.5
20	25.0	21.0	23.0	21.0	19.5	20.0	17.5	16.0	16.5	13.0	12.5	12.5
21	24.5	21.0	23.0	21.0	19.5	20.0	18.0	16.0	17.0	12.5	12.5	12.5
22	24.5	21.0	23.0	21.0	19.5	20.5	17.5	17.0	17.5	12.5	12.0	12.5
23	24.5	21.0	22.5	22.0	18.5	20.5	18.5	17.0	17.5	12.5	11.5	12.0
24	24.5	21.0	23.0	22.0	18.5	20.0	18.5	17.5	18.0	12.0	11.5	12.0
25	25.0	22.0	23.5	21.5	18.5	20.0	19.0	17.0	18.0	12.0	11.0	11.5
26	25.0	22.0	23.5	21.5	18.0	19.5	18.0	17.0	17.5	11.0	10.5	11.0
27	25.0	22.5	24.0	21.5	18.0	19.5	18.0	17.5	17.5	11.5	10.0	11.0
28	25.5	22.5	24.0	21.0	18.5	20.0	18.5	17.0	18.0	11.5	10.5	11.0
29	26.0	23.0	24.5	21.5	18.5	20.0	18.0	17.5	17.5	11.0	10.5	10.5
30	26.0	23.0	24.5	22.0	18.5	20.5	17.5	16.5	17.0	10.5	10.0	10.5
31	25.5	23.5	24.5	---	---	---	17.0	16.5	16.5	---	---	---
MONTH	28.5	21.0	24.2	25.5	18.0	20.9	22.5	16.0	18.4	16.5	10.0	13.4

Table 1. Water-quality records at continuing-record sites--Continued**11272500 MERCED RIVER NEAR STEVINSON, CA--Continued****WATER TEMPERATURE (°C)**

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.0	10.5	11.0	4.5	4.0	4.5	10.5	8.5	9.5	15.5	14.0	14.5
2	12.5	11.5	12.0	5.5	4.5	5.0	10.0	8.0	9.0	16.0	12.0	14.0
3	12.5	12.0	12.5	6.0	5.5	6.0	10.0	7.0	8.5	16.5	13.0	14.5
4	12.5	11.5	12.0	7.0	6.0	6.5	10.0	7.0	8.5	17.5	13.5	15.5
5	12.0	11.5	11.5	8.0	7.0	7.5	10.0	7.0	8.5	18.5	14.0	16.0
6	12.0	11.0	11.5	7.5	6.5	7.0	10.0	7.0	8.5	17.5	14.5	16.0
7	12.0	11.5	11.5	8.0	6.5	7.0	10.5	7.0	8.5	18.0	14.0	15.5
8	11.5	11.0	11.5	7.0	6.0	6.5	11.5	8.0	10.0	19.0	14.0	16.0
9	12.0	11.0	11.5	7.5	6.5	7.0	12.0	8.5	10.5	17.5	14.5	16.0
10	12.0	11.5	12.0	7.5	7.0	7.0	12.5	9.5	11.0	15.0	12.0	13.5
11	12.0	11.0	11.5	8.0	6.0	7.5	13.5	9.5	11.5	15.5	11.0	13.0
12	11.0	10.0	10.0	7.5	6.0	6.5	13.5	9.5	11.5	16.0	12.0	14.0
13	9.5	8.5	9.0	7.5	6.0	6.5	13.0	10.0	11.5	17.5	12.0	14.5
14	9.0	8.5	8.5	7.5	6.0	6.5	13.5	9.5	11.5	17.5	13.0	15.0
15	9.0	8.5	8.5	8.0	7.0	7.5	14.5	11.0	12.5	15.5	13.0	14.5
16	9.0	8.5	8.5	7.5	6.0	7.0	13.5	11.0	12.0	15.5	14.5	15.0
17	10.5	9.0	9.5	6.0	5.0	5.5	13.5	9.5	11.5	15.5	14.5	15.0
18	9.5	8.5	9.0	5.0	4.0	4.5	13.5	10.0	11.5	15.5	15.0	15.0
19	10.0	9.0	9.5	5.0	3.5	4.5	14.0	10.0	12.0	16.5	15.0	15.5
20	9.5	7.5	8.5	5.0	3.5	4.5	14.5	10.5	12.5	16.5	16.0	16.5
21	8.5	7.5	8.0	5.0	3.5	4.5	14.5	11.0	13.0	16.5	16.0	16.5
22	9.0	8.0	8.5	5.5	3.5	4.5	15.0	11.0	13.0	16.5	16.0	16.5
23	8.0	6.5	7.0	6.0	4.0	5.0	14.5	11.0	13.0	17.0	16.0	16.5
24	7.5	5.0	6.0	7.0	4.0	5.5	15.5	11.5	13.5	17.0	16.0	16.5
25	6.5	5.0	6.0	7.5	5.5	6.5	15.5	12.0	13.5	17.5	16.0	16.5
26	6.5	5.0	6.0	7.5	6.0	7.0	15.5	13.0	14.0	18.0	17.0	17.5
27	6.5	5.0	6.0	7.5	6.0	7.0	16.5	14.0	15.0	18.0	16.5	17.0
28	7.0	6.0	6.5	8.5	6.5	7.5	16.5	13.0	15.0	16.5	15.0	15.5
29	6.5	5.0	6.0	10.0	7.5	8.5	15.5	14.0	15.0	16.5	15.0	16.0
30	6.0	4.5	5.0	9.5	7.5	8.5	---	---	---	16.5	16.0	16.0
31	5.5	4.5	5.0	9.5	7.0	8.5	---	---	---	16.5	15.0	15.5
MONTH	12.5	4.5	9.0	10.0	3.5	6.4	16.5	7.0	11.6	19.0	11.0	15.5

APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	16.0	16.5	17.5	16.0	16.5	---	---	e21.0	26.5	23.0	25.0
2	17.0	15.0	16.0	17.5	16.0	16.5	---	---	e23.0	27.5	24.0	25.5
3	16.5	15.0	16.0	17.5	16.5	17.0	---	---	e23.5	27.5	24.0	26.0
4	16.5	16.0	16.5	17.5	17.0	17.5	---	---	e22.5	26.5	24.0	25.5
5	17.0	15.5	16.0	17.5	16.5	17.0	---	---	e20.5	25.5	24.0	24.5
6	17.5	16.0	16.5	16.5	16.0	16.5	---	---	e19.5	26.0	23.0	24.5
7	17.5	16.5	17.0	16.5	16.0	16.0	---	---	e19.0	27.5	24.0	25.5
8	17.5	16.0	16.5	17.5	16.0	16.5	---	---	e19.0	27.5	25.0	26.0
9	17.5	15.5	16.5	17.5	16.5	17.0	---	---	e20.5	27.5	25.0	26.5
10	18.0	16.5	17.0	18.5	17.0	17.5	---	---	e21.5	27.5	26.0	26.5
11	18.5	17.0	18.0	19.5	18.0	18.5	---	---	e22.5	27.5	25.0	26.0
12	18.5	18.0	18.5	19.5	18.5	19.0	---	---	e22.0	28.5	25.0	26.5
13	18.5	17.0	17.5	19.5	18.0	19.0	---	---	e23.0	28.5	25.0	26.5
14	17.5	16.0	16.5	19.5	18.0	18.5	---	---	e25.0	28.5	25.0	26.5
15	16.5	16.0	16.0	20.0	19.0	19.5	---	---	e25.5	28.5	25.0	26.5
16	16.0	15.0	15.5	20.0	19.0	19.5	---	---	e24.5	29.5	26.0	27.5
17	17.5	15.5	16.0	19.0	18.0	18.5	---	---	e23.5	30.5	25.5	27.5
18	18.0	16.5	17.0	20.5	18.0	19.0	---	---	e24.5	29.5	26.0	28.0
19	17.5	16.5	17.0	20.5	19.5	20.0	---	---	e26.5	---	---	e27.5
20	16.5	16.0	16.0	---	---	e22.5	---	---	e25.0	---	---	e27.5
21	16.5	15.5	16.0	---	---	e25.0	---	---	e22.5	---	---	e27.5
22	16.5	16.0	16.5	---	---	e24.5	---	---	e24.0	---	---	e27.5
23	16.5	16.0	16.0	---	---	e23.5	---	---	e24.5	---	---	e28.0
24	16.5	15.5	16.0	---	---	e23.5	26.5	23.0	24.5	---	---	e28.0
25	17.5	16.0	16.5	---	---	e21.5	25.5	23.0	24.0	---	---	e28.5
26	18.0	16.5	17.0	---	---	e21.5	24.5	23.0	24.0	---	---	e28.5
27	18.5	17.0	17.5	---	---	e21.5	26.5	22.5	24.0	---	---	e28.5
28	18.5	17.5	18.0	---	---	e21.5	25.5	23.0	24.5	---	---	e28.5
29	18.5	17.5	18.0	---	---	e19.0	24.5	22.0	23.0	---	---	e28.5
30	18.5	17.0	17.5	---	---	e18.5	25.5	22.0	23.5	---	---	e28.5
31	---	---	---	---	---	e19.0	---	---	---	---	---	e27.0
MONTH	18.5	15.0	16.7	---	---	e19.4	---	---	e23.0	---	---	e26.9

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11272500 MERCED RIVER NEAR STEVINSON, CA--Continued

WATER TEMPERATURE (°C)

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e25.5	23.5	22.5	23.0
2	26.0	23.0	25.0	23.5	22.0	23.0
3	25.5	23.5	24.5	24.0	22.0	23.0
4	26.5	24.0	25.5	24.0	23.0	23.5
5	27.5	24.0	25.5	24.5	23.0	24.0
6	26.5	23.5	25.0	24.5	23.0	23.5
7	26.0	23.0	24.5	23.5	21.0	22.5
8	25.5	23.0	24.5	23.0	21.0	22.0
9	26.0	24.0	25.0	22.5	20.5	21.5
10	26.5	24.0	25.0	21.5	20.0	20.5
11	25.5	23.0	24.5	21.5	20.0	20.5
12	23.5	22.0	23.0	20.5	19.0	20.0
13	23.5	21.5	22.5	20.5	19.0	20.0
14	23.5	21.5	22.5	21.0	19.0	20.0
15	23.5	21.5	22.5	21.0	19.0	20.0
16	23.5	21.5	22.5	20.5	19.0	20.0
17	24.0	22.0	23.0	20.5	19.0	19.5
18	24.0	22.5	23.5	20.0	18.0	19.0
19	24.5	22.0	23.5	19.5	18.0	18.5
20	24.0	22.0	23.0	18.5	18.0	18.0
21	23.0	21.5	22.5	19.5	18.0	18.5
22	23.0	21.5	22.0	19.5	18.0	18.5
23	23.5	21.5	22.5	19.5	18.0	19.0
24	23.5	22.0	23.0	19.5	18.0	19.0
25	23.5	22.0	23.0	19.5	18.0	19.0
26	24.0	22.0	23.0	19.0	18.0	18.5
27	24.5	22.0	23.0	19.0	18.0	18.5
28	24.5	22.0	23.5	20.5	17.5	19.0
29	23.5	22.0	23.0	21.0	18.0	19.5
30	24.5	22.5	23.0	22.0	18.5	20.0
31	24.5	22.5	23.5	---	---	---
MONTH	---	---	e23.6	24.5	17.5	20.4

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11274000 SAN JOAQUIN RIVER NEAR NEWMAN, CA

LOCATION.--Lat 37°21'02", long 120°58'34", in NW 1/4 SW 1/4 sec. 3, T.7 S., R.9 E., Stanislaus County, Hydrologic Unit 18040002, on left bank 600 ft downstream from bridge on Hills Ferry Road, 650 ft downstream from Merced River, and 3.5 mi northeast of Newman.

DRAINAGE AREA.--9,520 mi².

PERIOD OF RECORD.--June 1985 to September 1988.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1987 to September 1988.

WATER TEMPERATURE: July 1987 to September 1988.

INSTRUMENTATION.--Two minimonitor recorders since July 1987.

REMARKS.--The minimonitor for this site is 1.2 mi downstream from the gage, a second minimonitor is at an auxiliary site lat 37°20'44", long 121°58'37", in SW 1/4 SW 1/4 sec. 3, T.7 S., R.9 E., Stanislaus County, 0.6 mi above the gage and above the inflow of the Merced River. Period of record for auxiliary site begins April 1987. Periods when maximums and/or minimums were not recorded were due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,370 microsiemens, Mar. 29, 1988; minimum daily, 828 microsiemens, Sept. 28, 1987.

WATER TEMPERATURE: Maximum recorded, 31.0 °C, July 26, 27, 30, 1988; minimum recorded, 6.5 °C, Dec. 25, 1987 and Jan. 1, 1988.

EXTREMES FOR PERIOD OF DAILY RECORD.--At auxiliary site.

SPECIFIC CONDUCTANCE: Maximum daily, 3,670 microsiemens, July 21, 1988; minimum daily, 997 microsiemens, Aug. 2, 1988.

WATER TEMPERATURE: Maximum recorded, 32.0 °C, July 27, 30, 1988; minimum recorded, 3.5 °C, Dec. 26, 1987.

WATER QUALITY DATA

DATE	TIME	STREAM FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS, TOTAL (MG/L AS CaCO ₃)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO ₃	CALCIUM, DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)
APR 1987												
22...	1230	665	1410	8.0	22.0	760	--	300	160	66	34	190
MAY												
20...	1130	615	1430	8.1	--	760	--	300	150	68	31	170
JUN												
17...	0930	576	1460	8.2	--	760	--	340	190	80	33	180
JUL												
20...	1145	564	1430	8.2	22.5	760	--	320	160	74	32	180
AUG												
19...	0915	508	1250	8.1	--	760	--	280	130	63	29	160
SEP												
23...	0915	350	1070	8.0	21.0	760	--	230	98	52	24	130
OCT												
21...	0915	322	1140	7.5	17.5	760	--	230	96	49	27	140
NOV												
18...	1015	553	1130	8.1	13.0	765	9.8	220	83	47	25	140
DEC												
16...	1000	448	1450	8.0	7.5	750	10.8	310	160	65	35	200
JAN 1988												
21...	1130	944	1250	7.9	10.0	770	9.4	260	120	55	30	160
FEB												
18...	0900	612	1530	8.0	10.5	760	9.7	320	180	72	35	190
MAR												
15...	1000	864	1700	8.2	14.0	760	--	360	190	80	40	220
APR												
20...	0945	765	1210	7.9	--	755	--	270	160	61	29	150
MAY												
19...	0830	472	1400	8.0	19.0	760	7.7	330	190	72	37	200
JUN												
23...	0945	490	1480	7.8	24.0	755	6.3	93	0	29	4.9	67
JUL												
20...	0800	316	1790	8.0	26.0	760	6.4	420	250	95	44	260
AUG												
25...	0915	560	1290	7.8	24.0	760	6.7	280	140	63	30	160
SEP												
28...	0900	357	1460	7.8	19.5	760	8.2	330	160	70	37	190

Table 1. Water-quality records at continuing-record sites--Continued

11274000 SAN JOAQUIN RIVER NEAR NEWMAN, CA--Continued

WATER QUALITY DATA

DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L AS CAC03)	SULFATE, DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 °C, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)
APR 1987												
22...	57	5	4.2	148	270	220	0.2	17	903	1620	1.23	2.2
MAY												
20...	55	4	4.4	145	260	180	0.2	15	866	1440	1.18	2.5
JUN												
17...	54	4	3.8	144	300	210	0.2	17	964	1500	1.31	3.8
JUL												
20...	55	5	3.8	156	280	200	0.3	19	922	1400	1.25	3.4
AUG												
19...	55	4	3.2	143	220	180	0.2	20	700	960	0.95	2.6
SEP												
23...	55	4	3.4	131	180	150	0.2	17	668	631	0.91	1.5
OCT												
21...	56	4	4.1	138	170	180	0.2	18	689	599	0.94	1.3
NOV												
18...	57	4	3.9	138	160	150	0.2	17	670	1000	0.91	1.2
DEC												
16...	58	5	4.3	146	290	220	0.2	14	934	1130	1.27	2.0
JAN 1988												
21...	56	4	8.4	146	240	170	0.2	13	779	1990	1.06	2.4
FEB												
18...	56	5	5.3	141	320	210	0.2	14	992	1640	1.35	3.9
MAR												
15...	56	5	4.7	179	340	180	0.3	16	1100	2570	1.50	4.2
APR												
20...	54	4	4.3	113	250	160	0.2	17	770	1590	1.05	2.7
MAY												
19...	56	5	4.7	143	300	220	0.3	20	993	1270	1.35	2.9
JUN												
23...	60	3	4.1	151	310	190	0.3	12	950	1260	1.29	3.6
JUL												
20...	57	6	4.5	164	440	270	0.3	19	1550	1320	2.11	3.5
AUG												
25...	55	4	3.7	141	250	190	0.2	19	824	1250	1.12	2.3
SEP												
28...	55	5	4.4	167	260	210	0.2	20	929	895	1.26	2.7

Table 1. Water-quality records at continuing-record sites--Continued**11274000 SAN JOAQUIN RIVER NEAR NEWMAN, CA--Continued**

WATER QUALITY DATA												
DATE	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS NH ₄)	NITRO- GEN,AM- MONIA + ORGANIC, TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC, TOTAL (MG/L AS C)	CHLOR-A PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	SED. SUSP., SIEVE DIAM. Z FINER THAN 0.062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
APR 1987												
22...	0.14	0.18	0.60	0.16	0.19	0.14	3.1	9.3	0.80	94	155	278
MAY												
20...	0.07	0.09	1.6	0.40	0.19	0.15	7.2	41	2.7	93	203	337
JUN												
17...	0.04	0.05	2.6	0.23	0.15	0.13	7.9	41	2.3	93	229	356
JUL												
20...	0.05	0.06	2.2	0.46	0.14	0.11	5.3	38	3.0	83	356	542
AUG												
19...	0.03	0.04	1.1	0.33	0.16	0.13	7.3	19	1.4	97	115	158
SEP												
23...	0.04	0.05	1.1	0.19	0.11	0.08	5.9	26	3.4	93	61	58
OCT												
21...	0.08	0.10	0.90	0.19	0.13	0.11	10	17	1.2	76	131	114
NOV												
18...	0.10	0.13	0.80	0.17	0.14	0.11	6.8	--	--	91	53	79
DEC												
16...	0.16	0.21	0.40	0.17	0.12	0.10	5.5	2.0	0.20	91	19	23
JAN 1988												
21...	0.47	0.61	1.8	0.49	0.40	0.33	12	8.5	0.80	82	74	189
FEB												
18...	0.10	0.13	1.2	0.30	0.19	0.13	9.1	6.0	0.90	94	48	79
MAR												
15...	0.10	0.13	0.70	0.24	0.24	0.25	12	9.0	0.90	84	115	268
APR												
20...	0.11	0.14	1.1	0.25	0.22	0.18	--	7.2	0.70	89	82	169
MAY												
19...	0.45	0.58	1.2	0.39	0.34	0.30	6.3	13	0.80	94	86	110
JUN												
23...	0.09	0.12	0.90	0.24	0.22	0.16	9.3	15	1.4	54	352	466
JUL												
20...	0.02	0.03	--	0.47	0.20	0.16	7.4	50	2.1	55	311	265
AUG												
25...	0.04	0.05	1.0	0.34	0.17	0.15	7.7	18	3.5	90	146	221
SEP												
28...	0.16	0.21	0.90	0.36	0.16	0.14	6.3	19	0.70	71	143	138

Table 1. Water-quality records at continuing-record sites--Continued

11274000 SAN JOAQUIN RIVER NEAR NEWMAN, CA--Continued

WATER QUALITY DATA									
DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, TOTAL (UG/L AS AS)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
APR 1987									
22...	2100	<10	4	3	1000	970	3	6	<1
MAY									
20...	4000	<10	6	3	1200	1200	<1	13	3
JUN									
17...	3000	<10	4	4	1400	1400	12	10	3
JUL									
20...	7000	40	5	4	1400	1400	1	18	2
AUG									
19...	3900	20	--	3	1000	1000	<1	8	<1
SEP									
23...	1600	60	3	3	740	720	11	7	1
OCT									
21...	4000	20	4	3	760	700	4	9	2
NOV									
18...	880	<10	2	2	680	670	4	6	1
DEC									
16...	670	<10	2	1	1000	1000	4	3	1
JAN 1988									
21...	2100	100	3	2	1000	1000	5	10	3
FEB									
18...	1200	<10	--	2	1300	1300	6	6	2
MAR									
15...	2200	<10	4	3	1500	1500	7	6	3
APR									
20...	2200	10	4	3	960	980	8	6	2
MAY									
19...	1700	<10	5	3	1100	1100	7	6	2
JUN									
23...	6800	30	5	3	1400	1400	15	11	1
JUL									
20...	7000	<10	6	3	1900	2000	20	13	2
AUG									
25...	4000	30	5	4	1100	1100	12	12	1
SEP									
28...	3900	10	2	3	920	1100	9	8	2

Table 1. Water-quality records at continuing-record sites--Continued

11274000 SAN JOAQUIN RIVER NEAR NEWMAN, CA--Continued

WATER QUALITY DATA									
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM, TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY, DIS- SOLVED (UG/L AS HG)
APR 1987									
22...	3200	8	<5	20	--	300	100	0.2	<0.1
MAY									
20...	5500	23	<5	30	28	310	32	0.1	0.1
JUN									
17...	4400	6	13	40	35	260	21	<0.1	0.1
JUL									
20...	7500	26	<5	40	35	420	56	0.2	<0.1
AUG									
19...	4200	17	<5	30	22	220	36	<0.1	<0.1
SEP									
23...	2400	17	<5	20	13	190	44	<0.1	<0.1
OCT									
21...	5300	27	<5	20	13	270	48	<0.1	<0.1
NOV									
18...	1600	13	<5	20	13	180	46	<0.1	<0.1
DEC									
16...	1000	13	<5	20	20	280	220	<0.1	<0.1
JAN 1988									
21...	3100	65	<5	20	19	240	85	<0.1	<0.1
FEB									
18...	1800	18	<5	20	28	270	110	<0.1	<0.1
MAR									
15...	3300	5	<5	30	33	210	43	<0.1	<0.1
APR									
20...	3200	23	<5	20	23	200	48	<0.1	<0.1
MAY									
19...	2800	7	<5	30	26	200	210	<0.1	<0.1
JUN									
23...	9500	17	25	40	--	480	32	<0.1	<0.1
JUL									
20...	9600	12	<5	50	43	460	57	<0.1	<0.1
AUG									
25...	5200	8	<5	30	26	230	23	<0.1	<0.1
SEP									
28...	4500	23	<5	20	25	190	34	0.1	<0.1

Table 1. Water-quality records at continuing-record sites--Continued**11274000 SAN JOAQUIN RIVER NEAR NEWMAN, CA--Continued**

WATER QUALITY DATA								
DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 1987								
22...	4	6	7	<1	5	4	20	4
MAY								
20...	4	6	12	2	2	<1	20	--
JUN								
17...	5	<1	13	1	8	4	<10	13
JUL								
20...	--	4	31	<1	8	8	<10	<3
AUG								
19...	7	5	9	3	6	6	20	<3
SEP								
23...	5	4	4	3	3	3	<10	5
OCT								
21...	--	4	12	<1	3	2	20	13
NOV								
18...	5	4	6	2	1	1	<10	4
DEC								
16...	6	7	6	1	3	3	<10	<3
JAN 1988								
21...	8	5	4	1	4	3	30	<3
FEB								
18...	7	6	9	3	8	8	<10	4
MAR								
15...	8	6	6	6	7	7	20	4
APR								
20...	7	6	10	1	7	7	10	4
MAY								
19...	5	6	10	2	6	6	<10	<3
JUN								
23...	10	5	18	6	8	8	60	6
JUL								
20...	5	--	17	1	11	11	50	10
AUG								
25...	8	6	10	2	7	8	20	--
SEP								
28...	9	6	11	2	7	7	30	14

Table 1. Water-quality records at continuing-record sites--Continued

11274000 SAN JOAQUIN RIVER NEAR NEWMAN, CA--Continued

WATER QUALITY DATA

DATE	TIME	STREAM FLOW- INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)	CARBON, ORGANIC, DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC, TOTAL (MG/L AS C)	DI- CHLORO- BROMO- METHANE, TOTAL (UG/L)	CARBON- TETRA- CHLO- RIDE, TOTAL (UG/L)	1,2-DI- CHLORO- ETHANE, TOTAL (UG/L)	BROMO- FORM, TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE, TOTAL (UG/L)
JUL 1987												
20...	0900	566	1360	8.1	22.5	5.5	10	<3.0	<3.0	<3.0	<3.0	<3.0
AUG												
17...	1000	565	1270	8.2	--	4.7	6.4	<3.0	<3.0	<3.0	<3.0	<3.0
SEP												
14...	0900	485	1150	8.1	20.5	5.2	6.5	<3.0	<3.0	<3.0	<3.0	<3.0

DATE	CHLORO- FORM, TOTAL (UG/L)	TOLUENE, TOTAL (UG/L)	BENZENE, TOTAL (UG/L)	CHLORO- BENZENE, TOTAL (UG/L)	CHLORO- ETHANE, TOTAL (UG/L)	ETHYL- BENZENE, TOTAL (UG/L)	METHYL- BROMIDE, TOTAL (UG/L)	METHYL- CHLO- RIDE, TOTAL (UG/L)	METHYL- ENE CHLO- RIDE, TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE, TOTAL (UG/L)	TRI- CHLORO- FLUORO- METHANE, TOTAL (UG/L)	1,1-DI- CHLORO- ETHANE, TOTAL (UG/L)
JUL 1987												
20...	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
AUG												
17...	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<5.0	<3.0	<3.0	<3.0
SEP												
14...	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

DATE	1,1-DI- CHLORO- ETHYL- ENE, TOTAL (UG/L)	1,1,1- TRI- CHLORO- ETHANE, TOTAL (UG/L)	1,1,2- TRI- CHLORO- ETHANE, TOTAL (UG/L)	1,1,2,2 TETRA- CHLORO- ETHANE, TOTAL (UG/L)	1,2-DI- CHLORO- BENZENE, TOTAL (UG/L)	1,2-DI- CHLORO- PROPANE, TOTAL (UG/L)	1,2- TRANS DI CHLORO- ETHENE, TOTAL (UG/L)	1,3-DI- CHLORO- PROPENE, TOTAL (UG/L)	1,3-DI- CHLORO- BENZENE, TOTAL (UG/L)	1,4-DI- CHLORO- BENZENE, TOTAL (UG/L)	2- CHLORO- ETHYL- VINYL- ETHER, TOTAL (UG/L)
JUL 1987											
20...	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
AUG											
17...	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
SEP											
14...	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

DATE	DI- CHLORO- DI- FLUORO- METHANE, TOTAL (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE, TOTAL (UG/L)	CIS 1,3-DI- CHLORO- PROPENE, TOTAL (UG/L)	PRO- PAZINE, TOTAL (UG/L)	TRI- FLURA- LIN, TOTAL RECOVER (UG/L)	PER- THANE, TOTAL (UG/L)	METHO- MYL, TOTAL (UG/L)	PROPAM, TOTAL (UG/L)	SIME- TRYNE, TOTAL (UG/L)	SIMA- ZINE, TOTAL (UG/L)	PROME- TONE, TOTAL (UG/L)
JUL 1987											
20...	<3.0	<3.0	<3.0	<0.10	<0.10	<0.1	<2.0	<2.0	<0.1	0.10	<0.1
AUG											
17...	<3.0	<3.0	<3.0	<0.10	<0.10	<0.1	2.3	<2.0	<0.1	<0.10	<0.1
SEP											
14...	<3.0	<3.0	<3.0	<0.10	<0.10	<0.1	<2.0	<2.0	<0.1	0.10	<0.1

DATE	PROME- TRYNE, TOTAL (UG/L)	1,2- DIBROMO ETHYL- ENE, TOTAL (UG/L)	VINYL CHLO- RIDE, TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR., TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	LINDANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
JUL 1987											
20...	<0.1	<3.0	<3.0	<3.0	<0.10	<0.010	<0.010	<0.1	<0.010	<0.010	<0.010
AUG											
17...	<0.1	<3.0	<3.0	<3.0	<0.10	<0.010	<0.010	<0.1	<0.010	<0.010	<0.010
SEP											
14...	<0.1	<3.0	<3.0	<3.0	<0.10	<0.010	<0.010	<0.1	<0.010	<0.010	<0.010

Table 1. Water-quality records at continuing-record sites--Continued

11274000 SAN JOAQUIN RIVER NEAR NEWMAN, CA--Continued

WATER QUALITY DATA

DATE	DI- ELDRIN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	PCB, TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)
JUL 1987 20...	<0.010	0.010	<0.010	<0.01	<1	<0.010	<0.010	<0.01	<0.1	<0.01	0.01
AUG 17...	<0.010	<0.010	<0.010	<0.01	<1	<0.010	<0.010	<0.01	<0.1	<0.01	<0.01
SEP 14...	<0.010	<0.010	<0.010	<0.01	<1	<0.010	<0.010	<0.01	<0.1	<0.01	<0.01

DATE	DI- AZINON, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	ATRA- ZINE, TOTAL (UG/L)	PICLO- RAM (TOR- DON), TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T, TOTAL (UG/L)	SEVIN, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)
JUL 1987 20...	0.05	<0.01	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.01
AUG 17...	0.08	<0.01	<0.10	<0.01	0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.01
SEP 14...	0.03	<0.01	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.01

DATE	STYRENE, TOTAL (UG/L)	ALA- CHLOR, TOTAL RECOVER (UG/L)	XYLENE, TOTAL WHOLE TOT REC (UG/L)	CYAN- AZINE, TOTAL (UG/L)	DICAMBA (MED- IBEN) (BAN- VEL D), TOTAL (UG/L)	2,4-DP, TOTAL (UG/L)	AME- TRYNE, TOTAL (UG/L)	METRI- BUZIN WATER WHOLE TOT.REC (UG/L)	METOLA- CHLOR WATER WHOLE TOT.REC (UG/L)	SED. SUSP., SIEVE DIAM. % FINER THAN 0.062 MM	SEDI- MENT, SUS- PENDED (MG/L)
JUL 1987 20...	<3.0	<0.10	<3.0	0.10	<0.01	<0.01	<0.10	<0.1	<0.1	98	168
AUG 17...	<3.0	<0.10	<3.0	<0.10	0.01	<0.01	<0.10	<0.1	<0.1	98	100
SEP 14...	<3.0	<0.10	<3.0	<0.10	<0.01	<0.01	<0.10	<0.1	<0.1	97	74

Table 1. Water-quality records at continuing-record sites--Continued

11274000 SAN JOAQUIN RIVER NEAR NEWMAN, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	1430	1380	1400
22	---	---	---	---	---	---	---	---	---	1400	1280	1320
23	---	---	---	---	---	---	---	---	---	1310	1270	1290
24	---	---	---	---	---	---	---	---	---	1340	1250	1300
25	---	---	---	---	---	---	---	---	---	---	1340	e1400
26	---	---	---	---	---	---	---	---	---	---	1360	e1500
27	---	---	---	---	---	---	---	---	---	---	1330	e1480
28	---	---	---	---	---	---	---	---	---	---	1300	e1380
29	---	---	---	---	---	---	---	---	---	---	1330	e1340
30	---	---	---	---	---	---	---	---	---	---	1380	e1380
31	---	---	---	---	---	---	---	---	---	---	1420	e1420
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	1380	e1430	---	---	e1190	1230	1050	1150	1160	1100	1140
2	---	1350	e1400	---	---	e1100	1250	1220	1230	1220	1160	1190
3	---	1280	e1330	---	---	e1190	1250	1170	1210	1230	1210	1220
4	---	1220	e1270	---	---	e1150	1300	1200	1230	1250	1210	1230
5	---	1320	e1370	---	---	e1060	1340	1270	1290	1260	1180	1210
6	---	1400	e1450	---	---	e1080	1380	1310	1340	1270	1190	1230
7	---	1360	e1400	---	---	e1020	1420	1360	1390	1270	1180	1220
8	---	1320	e1370	---	---	e1000	1370	1160	1270	1240	1180	1220
9	---	---	e1320	---	---	e1000	1450	1230	1330	1210	1160	1190
10	---	1220	e1280	---	---	e1060	1380	1120	1220	1210	1180	1200
11	---	1210	e1260	---	---	e1120	1120	990	1070	1220	1150	1190
12	---	1210	e1260	---	---	e1140	999	969	984	1160	1080	1120
13	---	1290	e1340	---	---	e1020	1040	987	1020	1150	1090	1130
14	---	1310	e1360	---	---	e1010	1130	1050	1100	1200	1150	1180
15	---	---	e1330	---	---	e1070	1160	1100	1140	1180	1130	1150
16	---	---	e1290	---	---	e1130	1170	1120	1140	1160	1120	1150
17	---	---	e1270	---	---	e1230	1170	1120	1140	1140	1120	1130
18	---	1220	e1250	---	---	e1260	1200	---	e1160	1160	1080	1120
19	---	---	e1310	---	---	e1190	---	---	e1140	1240	1170	1210
20	---	---	e1500	---	---	e1210	---	---	e1130	1190	1140	1170
21	---	---	e1470	---	---	e1210	1150	---	e1120	1210	1150	1180
22	---	---	e1360	---	---	e1190	1200	1140	1160	1200	1140	1180
23	---	---	e1190	---	---	e1070	1200	1100	1160	1190	1120	1160
24	---	---	e1150	1150	1070	1100	1110	1050	1080	1250	1180	1220
25	---	---	e1170	1170	1080	1160	1170	1050	1120	1280	1230	1250
26	---	---	e1120	1080	1020	1050	1210	1130	1160	1310	1180	1240
27	---	---	e1230	1010	890	943	1240	1200	1220	1220	1160	1190
28	---	---	e1230	899	828	861	1260	1190	1230	1150	1050	1090
29	---	---	e1330	1020	867	948	1190	1140	1160	1080	1040	1060
30	---	---	e1380	1040	994	1010	1140	1100	1110	1110	1040	1080
31	---	---	e1250	---	---	---	1120	1090	1110	---	---	---
MONTH	---	---	e1310	---	---	e1090	---	---	e1170	1310	1040	1170

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11274000 SAN JOAQUIN RIVER NEAR NEWMAN, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1260	1110	1190	1270	1140	1210	1750	1700	1740	---	---	e1810
2	1300	1260	1270	1290	1250	1270	1710	1650	1690	---	---	e1780
3	1360	1300	1320	1330	1290	1300	1730	1680	1700	---	---	e1770
4	1350	1320	1330	1360	1330	1340	1790	1520	1670	---	---	e1750
5	1340	1300	1320	1450	1360	1380	---	---	e1660	---	---	e1800
6	1340	1310	1340	1500	1440	1470	---	---	e1570	---	---	e1820
7	1290	1240	1260	1480	1460	1480	---	---	e1620	---	---	e1840
8	1290	1260	1270	1500	1460	1480	---	---	e1700	---	---	e1830
9	1280	1250	1270	1540	1470	1500	---	---	e1710	---	---	e1850
10	1320	1260	1290	1550	1490	1520	---	---	e1700	---	---	e1880
11	1320	1280	1300	1570	1530	1550	---	---	e1700	---	---	e1900
12	1370	1330	1360	1630	1530	1560	---	---	e1700	---	---	e1940
13	1390	1370	1380	1640	1600	1620	---	---	e1690	---	---	e1980
14	1410	1360	1390	1680	1620	1650	---	---	e1700	---	---	e2010
15	1420	1360	1400	1690	1570	1620	---	---	e1780	---	---	e2050
16	---	---	e1450	1630	1570	1600	---	---	e1730	2150	2090	2120
17	---	---	e1500	1590	1480	1550	---	---	e1630	2090	2000	2030
18	1700	1540	1580	1480	1300	1430	---	---	e1530	2080	2030	2060
19	1700	1500	1580	1320	1140	1220	---	---	e1550	2070	1980	2010
20	1510	1470	1490	1210	1150	1190	---	---	e1570	2010	1960	1980
21	1530	1460	1510	1380	1190	1280	---	---	e1640	1980	1960	1970
22	1470	1440	1460	1500	1380	1440	---	---	e1730	1960	1910	1920
23	1540	1450	1490	1660	1500	1570	---	---	e1720	1910	1830	1860
24	1520	1460	1480	1680	1610	1660	---	---	e1720	1950	1860	1900
25	1470	1390	1440	1650	1600	1620	---	---	e1730	2020	1950	1970
26	1520	1420	1480	1750	1660	1710	---	---	e1800	2080	2000	2030
27	1490	1390	1450	1750	1680	1710	---	---	e1810	2090	2030	2060
28	1430	1380	1400	1720	1620	1680	---	---	e1820	2200	2090	2140
29	1420	1370	1390	1720	1670	1700	---	---	e1830	2370	2180	2300
30	1440	1380	1420	1710	1680	1700	---	---	---	2330	2240	2290
31	1370	1260	1310	1790	1690	1750	---	---	---	2260	2200	2240
MONTH	---	---	e1390	1790	1140	1510	---	---	e1690	---	---	e1960
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2200	2060	2140	---	---	e1570	---	1160	e1180	1590	1460	1510
2	2190	2050	2120	---	---	e1620	---	---	e1180	1590	1450	1510
3	2220	2070	2160	---	---	e1540	---	---	e1200	1470	1390	1440
4	2070	1960	2010	---	---	e1570	---	---	e1220	1390	1080	1160
5	1990	1810	1950	---	---	e1490	---	---	e1220	1220	1070	1120
6	1930	1780	1850	---	---	e1490	---	1170	e1200	1170	1090	1130
7	1920	1720	1880	---	---	e1450	1230	1170	1200	1560	1100	1310
8	1970	1810	1880	---	---	e1380	1160	1090	1260	1680	1480	1570
9	2010	1920	1960	---	---	e1350	1200	1180	1570	1720	1490	1580
10	1940	1820	1870	---	---	e1260	1300	1210	1240	1730	1570	1700
11	1950	1750	1820	---	---	e1240	1350	1310	1330	1780	1710	1750
12	1800	1740	1770	---	---	e1250	1450	1330	1390	1760	1660	1710
13	1970	1810	1890	---	---	e1250	1470	1400	1430	1820	1560	1700
14	1910	1810	1880	---	---	e1300	1460	1330	1400	1670	1520	1580
15	1860	1670	1800	---	---	e1400	1570	1370	1450	1740	1580	1650
16	1670	1530	1600	---	---	e1320	1660	1500	1570	1890	1610	1730
17	1580	1480	1530	---	---	e1300	1640	1450	1510	1870	1730	1770
18	1570	1480	1500	---	---	e1320	1550	1470	1510	1860	1740	1800
19	1550	1480	1510	---	---	e1400	1530	1390	1480	1840	1320	1710
20	1590	1480	1540	1580	1330	1430	1570	1390	1470	---	---	e1640
21	1590	1520	1560	1410	1190	1270	1550	1380	1460	1670	1550	1620
22	1610	1480	1550	1250	1190	1220	1420	1320	1370	1820	1620	1770
23	1520	---	e1500	1210	1170	1190	1460	1380	1430	1840	1640	1780
24	---	---	e1500	1240	1170	1210	1450	1370	1400	1780	1580	1670
25	---	---	e1550	---	1220	e1240	1440	1360	1400	1580	1240	1340
26	---	---	e1500	---	---	e1280	1490	1400	1440	1310	1270	1300
27	---	---	e1420	---	---	e1320	1410	1360	1390	1610	1320	1440
28	---	---	e1400	---	---	e1320	1380	1350	1360	1610	1250	1430
29	---	---	e1380	---	---	e1280	1510	1340	1400	1680	1250	1500
30	---	---	e1480	---	1200	e1250	1530	1440	1490	1930	1640	1810
31	---	---	---	---	1130	e1230	---	---	---	1930	1820	1900
MONTH	---	---	e1720	---	---	e1350	---	---	e1370	---	---	e1570

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued**11274000 SAN JOAQUIN RIVER NEAR NEWMAN, CA--Continued**

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

AUGUST 1988				SEPTEMBER 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1950	1620	1820	1700	1460	1660
2	1590	1190	1300	1780	1460	1650
3	1310	888	1210	1810	1680	1750
4	1280	1180	1230	1810	909	1710
5	1300	1260	1280	1760	901	1550
6	1310	1230	1280	1730	907	1540
7	1350	1210	1260	1800	994	1730
8	1370	1200	1250	1860	974	1370
9	1370	1240	1280	1880	1060	1710
10	1320	1190	1230	1880	1080	1750
11	1320	1190	1260	1890	952	1440
12	1600	1250	1350	1740	923	1240
13	1620	1360	1460	1420	1340	1370
14	1360	1210	1300	1520	1330	1380
15	1390	1200	1270	1480	1410	1450
16	1320	973	1220	1520	1450	1490
17	1270	915	1200	1780	1460	1510
18	1280	1230	1250	1800	1370	1530
19	1360	1210	1260	1540	1370	1420
20	1360	1220	1260	1550	1360	1430
21	1310	1260	1290	1530	1380	1430
22	1260	1220	1250	1560	1400	1430
23	1310	976	1140	1490	1400	1440
24	1330	1220	1280	1480	1390	1430
25	1310	1280	1290	1580	1380	1450
26	1360	1250	1300	1550	1410	1470
27	1360	1270	1290	1590	1400	1460
28	1420	1290	1340	1490	1420	1450
29	1390	1300	1330	1440	1410	1430
30	1330	1270	1300	1530	1400	1460
31	1670	1280	1340	---	---	---
MONTH	1950	888	1290	1890	901	1500

Table 1. Water-quality records at continuing-record sites--Continued

11274000 SAN JOAQUIN RIVER NEAR NEWMAN, CA--Continued

WATER TEMPERATURE (°C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	24.5	21.0	22.5
22	---	---	---	---	---	---	---	---	---	24.5	20.0	22.5
23	---	---	---	---	---	---	---	---	---	25.0	21.0	23.0
24	---	---	---	---	---	---	---	---	---	25.5	21.5	23.5
25	---	---	---	---	---	---	---	---	---	25.5	22.0	23.5
26	---	---	---	---	---	---	---	---	---	25.0	22.0	23.5
27	---	---	---	---	---	---	---	---	---	25.0	21.5	23.5
28	---	---	---	---	---	---	---	---	---	25.5	21.5	23.5
29	---	---	---	---	---	---	---	---	---	25.5	22.0	23.5
30	---	---	---	---	---	---	---	---	---	25.5	21.5	23.5
31	---	---	---	---	---	---	---	---	---	26.0	21.5	24.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	28.0	23.0	25.5	---	---	e26.0	24.5	21.5	23.0	17.5	16.5	17.0
2	28.5	24.5	26.5	---	---	e27.0	24.0	21.5	23.0	16.5	15.5	16.0
3	28.5	25.0	27.0	---	---	e26.0	24.5	21.5	22.5	16.0	14.5	15.5
4	28.5	25.0	27.0	---	---	e25.0	24.5	21.5	23.0	16.0	14.5	15.0
5	29.0	25.0	27.0	---	---	e22.0	24.0	21.0	22.5	16.0	14.5	15.0
6	29.0	25.0	26.5	---	---	e22.0	24.0	21.0	22.5	16.0	15.0	15.5
7	28.5	24.5	26.5	---	---	e22.0	23.5	21.0	22.5	16.5	14.5	15.5
8	27.5	24.0	25.5	---	---	e23.0	23.0	20.5	21.5	16.5	14.5	15.5
9	27.5	24.0	25.5	---	---	e24.0	22.0	20.0	21.0	17.0	15.5	16.0
10	27.0	23.0	25.0	---	---	e23.0	22.0	19.0	20.5	16.0	15.0	15.5
11	26.5	23.0	25.0	---	---	e22.0	22.0	19.5	20.5	15.5	14.0	15.0
12	26.5	23.0	24.5	---	---	e21.0	21.5	20.0	21.0	15.0	14.0	14.5
13	26.5	22.5	24.5	---	---	e20.0	21.0	19.0	20.0	14.5	14.0	14.0
14	24.5	21.0	23.0	---	---	e20.0	21.0	18.5	19.5	14.5	13.5	14.0
15	25.0	21.0	23.0	---	---	e21.0	20.5	18.0	19.5	13.5	12.0	12.5
16	26.0	21.5	24.0	---	---	e22.0	20.0	18.0	19.0	13.5	12.0	13.0
17	26.5	22.5	24.5	---	---	e22.0	20.0	17.5	19.0	13.5	13.0	13.0
18	26.0	22.5	24.5	---	---	e22.0	19.5	---	e18.0	15.0	13.0	14.0
19	---	---	e23.0	---	---	e22.0	22.0	---	e18.5	14.5	14.0	14.0
20	---	---	e23.0	---	---	e22.0	19.5	---	e17.5	14.0	13.0	13.0
21	---	---	e23.0	---	---	e22.0	19.5	---	e17.5	12.5	12.0	12.5
22	---	---	e23.0	---	---	e22.0	19.5	18.5	19.0	13.0	11.5	12.0
23	---	---	e22.0	---	---	e22.0	20.5	18.0	19.0	12.0	11.0	11.5
24	---	---	e23.0	23.5	21.0	22.0	21.0	19.0	20.0	12.5	10.5	11.5
25	---	---	e24.0	23.5	21.0	22.0	20.5	18.5	19.5	11.5	10.0	11.0
26	---	---	e24.0	23.0	20.5	21.5	20.5	19.0	19.5	10.5	9.0	10.0
27	---	---	e24.0	23.0	20.0	21.5	20.5	19.5	20.0	10.5	9.0	9.5
28	---	---	e25.0	23.0	20.5	22.0	21.0	19.0	20.0	11.0	9.5	10.0
29	---	---	e26.0	24.0	21.0	22.5	20.5	19.0	19.5	10.5	9.0	10.0
30	---	---	e26.0	24.0	21.5	22.5	19.5	18.5	19.0	10.0	9.5	10.0
31	---	---	e25.0	---	---	---	18.5	17.5	18.0	---	---	---
MONTH	---	---	e24.7	---	---	e22.5	24.5	---	e20.2	17.5	9.0	13.4

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11274000 SAN JOAQUIN RIVER NEAR NEWMAN, CA--Continued

WATER TEMPERATURE (°C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.0	10.0	11.0	8.0	6.5	7.0	12.5	11.0	12.0	---	---	e15.0
2	13.0	12.0	12.5	8.0	7.0	7.5	12.0	10.5	11.5	---	---	e14.0
3	14.0	12.5	13.0	8.5	8.0	8.0	11.0	9.5	10.5	---	---	e14.0
4	13.5	12.5	12.5	10.0	8.5	9.0	11.0	9.0	10.0	---	---	e15.0
5	12.5	11.5	12.0	11.0	10.0	10.0	---	---	e10.0	---	---	e16.0
6	12.5	11.0	12.0	11.0	9.5	10.0	---	---	e10.0	---	---	e17.0
7	12.5	11.0	12.0	11.0	10.0	10.0	---	---	e10.0	---	---	e16.0
8	12.0	11.0	11.5	11.0	10.5	10.5	---	---	e11.0	---	---	e16.0
9	12.5	11.0	12.0	12.0	10.5	11.0	---	---	e12.0	---	---	e16.0
10	13.5	12.0	12.5	11.5	11.0	11.5	---	---	e13.0	---	---	e13.0
11	13.0	7.5	11.0	12.0	11.0	11.5	---	---	e13.0	---	---	e11.0
12	11.0	---	e9.0	11.5	10.0	10.5	---	---	e14.0	---	---	e12.0
13	9.5	---	e8.0	11.0	10.0	10.5	---	---	e14.0	---	---	e13.0
14	8.0	---	e8.0	11.0	10.0	10.5	---	---	e13.0	---	---	e14.0
15	7.0	---	e7.0	12.0	10.5	11.0	---	---	e13.0	---	---	e15.0
16	---	---	e7.0	11.5	10.5	11.0	---	---	e12.0	16.5	13.5	15.0
17	---	---	e9.0	11.0	9.5	10.5	---	---	e11.0	17.0	14.0	15.5
18	11.0	10.0	10.5	9.5	8.0	9.0	---	---	e11.0	18.0	15.0	16.5
19	12.0	11.0	11.5	9.5	8.0	9.0	---	---	e11.0	19.5	16.0	17.5
20	12.0	10.5	11.0	9.5	8.0	9.0	---	---	e12.0	20.0	17.0	18.5
21	11.5	10.5	11.0	9.5	7.5	8.5	---	---	e12.0	19.5	17.0	18.5
22	11.5	11.0	11.5	9.0	7.5	8.0	---	---	e13.0	19.0	16.5	18.0
23	11.5	9.0	10.0	9.5	8.0	8.5	---	---	e13.0	19.5	17.0	18.0
24	9.5	7.0	8.0	10.0	8.5	9.5	---	---	e13.0	18.0	15.5	17.0
25	8.5	6.5	7.5	11.0	9.0	10.0	---	---	e14.0	19.0	15.5	17.0
26	8.5	7.0	7.5	11.0	9.5	10.0	---	---	e15.0	20.5	17.0	19.0
27	8.5	7.5	8.0	11.0	9.5	10.5	---	---	e16.0	19.5	14.0	17.0
28	8.5	7.5	8.5	12.0	10.5	11.0	---	---	e16.0	14.5	11.0	13.0
29	8.5	8.0	8.0	13.0	11.5	12.0	---	---	e16.0	16.5	12.5	14.5
30	8.5	7.0	8.0	13.0	11.5	12.0	---	---	---	16.0	13.5	15.0
31	8.5	7.0	7.5	12.5	11.0	12.0	---	---	---	16.5	12.0	14.0
MONTH	---	---	e10.0	13.0	6.5	10.0	---	---	e12.5	---	---	e15.5
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	14.5	16.5	---	---	e17.0	24.0	20.0	22.0	28.0	23.0	25.5
2	20.0	16.0	18.0	---	---	e17.0	26.0	21.0	23.5	29.5	24.5	27.0
3	19.0	16.5	18.0	---	---	e18.0	25.5	21.5	23.5	30.0	25.5	27.5
4	20.0	17.0	18.5	---	---	e18.0	24.0	20.5	22.5	28.0	24.5	26.5
5	20.5	16.0	18.0	---	---	e17.5	22.5	19.0	21.0	26.0	22.0	24.5
6	21.0	17.5	19.5	---	---	e16.5	22.0	18.5	20.0	26.0	22.0	24.0
7	21.0	18.5	19.5	---	---	e17.0	22.0	18.0	19.5	28.0	22.0	25.0
8	19.0	15.0	16.5	---	---	e17.5	22.5	18.0	20.0	27.5	24.0	25.5
9	20.5	15.0	17.5	---	---	e19.0	23.5	19.5	21.5	29.0	24.0	26.5
10	22.0	18.0	20.0	---	---	e20.5	24.5	20.0	22.0	30.0	25.0	27.5
11	23.5	19.5	21.5	---	---	e22.5	25.5	21.0	23.0	29.0	25.0	27.0
12	22.5	20.0	21.5	---	---	e23.5	25.5	21.5	23.5	28.0	24.5	26.0
13	21.0	19.0	19.5	---	---	e21.5	26.5	22.0	24.5	27.5	23.0	25.5
14	19.0	17.0	18.0	---	---	e21.0	27.5	23.5	25.5	27.5	24.0	26.0
15	17.0	16.0	16.5	---	---	e22.5	27.5	23.5	25.5	27.5	24.0	26.0
16	17.0	15.0	16.0	---	---	e21.5	27.5	23.5	25.5	28.0	24.0	26.0
17	20.0	15.5	17.5	---	---	e20.5	27.0	22.5	24.5	29.5	25.0	27.0
18	21.0	17.5	19.0	---	---	e20.5	28.5	23.0	25.5	30.5	25.5	28.0
19	20.0	17.0	18.5	---	---	e21.5	30.0	25.0	27.5	30.5	25.0	28.0
20	17.5	16.0	16.5	26.5	21.0	23.5	28.5	25.0	26.5	---	---	e27.5
21	18.5	16.0	17.0	28.0	23.0	25.5	26.5	22.0	24.5	30.5	25.0	28.0
22	18.5	16.5	17.5	26.5	23.5	25.0	27.5	23.5	25.5	30.5	25.5	28.0
23	18.5	---	e7.0	26.5	22.0	24.0	27.0	24.5	25.5	30.0	25.5	28.0
24	---	---	e17.5	26.0	22.0	24.0	28.0	24.0	26.0	30.0	25.0	27.5
25	---	---	e18.5	25.5	21.5	23.5	25.5	22.0	24.0	30.5	25.5	28.0
26	---	---	e19.5	24.5	21.0	23.0	26.5	22.5	24.5	31.0	26.0	28.5
27	---	---	e21.0	25.0	20.5	22.5	26.5	22.5	24.5	31.0	27.0	29.0
28	---	---	e21.0	23.5	20.5	22.0	26.0	23.0	24.5	30.5	25.5	28.0
29	---	---	e20.0	21.5	18.5	20.0	24.5	20.0	22.0	30.5	25.5	28.0
30	---	---	e18.5	21.5	17.5	19.5	26.0	20.5	23.0	31.0	25.5	28.5
31	---	---	---	22.5	18.5	20.5	---	---	---	29.5	25.0	27.5
MONTH	---	---	e18.1	---	---	e20.8	30.0	18.0	23.7	---	---	e27.0

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued*11274000 SAN JOAQUIN RIVER NEAR NEWMAN, CA--*Continued*

WATER TEMPERATURE (°C)

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	28.0	25.0	26.5	27.5	25.0	26.0
2	27.5	24.5	26.0	27.5	24.5	26.0
3	28.0	24.0	26.0	27.5	24.0	26.0
4	26.0	24.0	25.0	29.0	25.0	26.5
5	27.0	22.5	25.0	28.0	25.0	27.0
6	26.0	22.0	24.5	28.0	25.0	26.5
7	25.5	22.0	24.0	26.0	22.5	24.5
8	26.0	22.0	24.0	26.0	22.0	24.0
9	27.0	22.5	24.5	23.5	22.0	22.5
10	27.5	22.5	25.0	24.5	20.0	22.0
11	26.0	22.5	24.5	22.5	20.0	21.5
12	25.5	22.0	23.5	22.5	20.0	21.0
13	25.0	20.5	23.0	23.0	19.5	21.0
14	25.0	20.5	22.5	23.0	20.0	21.5
15	25.0	20.5	22.5	23.0	20.0	21.5
16	25.5	20.5	23.0	23.0	20.0	21.5
17	26.0	22.0	24.0	22.5	19.5	21.0
18	26.0	22.0	24.5	20.5	17.0	19.0
19	27.5	23.0	25.5	20.5	17.0	19.0
20	27.0	22.5	25.0	20.5	17.0	19.0
21	26.0	22.5	24.5	20.5	17.5	19.5
22	26.0	22.0	24.0	22.0	17.5	20.0
23	25.5	22.0	24.0	22.5	19.5	21.0
24	26.0	22.5	24.5	22.5	19.5	21.0
25	27.5	22.5	25.5	22.0	19.5	20.5
26	28.0	25.0	26.0	20.5	17.5	19.5
27	28.0	25.0	26.5	21.0	19.0	20.0
28	27.5	24.5	26.0	21.0	17.5	19.5
29	28.0	24.5	26.0	22.5	19.0	20.5
30	28.0	25.0	26.5	22.5	20.0	21.0
31	28.0	25.0	26.5	---	---	---
MONTH	28.0	20.5	24.8	29.0	17.0	22.0

Table 1. Water-quality records at continuing-record sites--Continued

11274000 SAN JOAQUIN RIVER AT AUXILIARY SITE, NEAR NEWMAN, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	2190	1920	2050	1740	1700	1720	---	---	e1690
2	---	---	---	1940	1840	1920	1940	1600	1790	---	---	e1750
3	---	---	---	1940	1830	1900	1960	1800	1900	---	---	e1800
4	---	---	---	1940	1840	1900	2020	1930	1970	---	---	e1810
5	---	---	---	1960	1920	1940	2000	1970	1980	---	---	e1870
6	---	---	---	1980	1930	1940	---	---	e1980	---	---	e1810
7	---	---	---	2030	1940	1970	---	---	e1990	---	---	e1780
8	---	---	---	2030	1940	1970	---	---	e1990	---	---	e1670
9	---	---	---	1990	1930	1950	---	---	e2000	---	---	e1890
10	---	---	---	2040	1940	1990	---	---	e2000	---	---	e1880
11	---	---	---	2040	1950	1970	---	---	e2010	---	---	e1800
12	---	---	---	2040	1940	2000	---	---	e2010	---	---	e1800
13	---	---	---	1960	1850	1920	---	---	e2020	---	---	e1800
14	---	---	---	1980	1900	1940	---	---	e2010	---	---	e1770
15	---	---	---	1980	1890	1940	---	---	e2010	---	---	e1720
16	---	---	---	1950	1860	1910	---	---	e2000	---	---	e1750
17	---	---	---	1960	1880	1920	---	---	e2000	---	---	e1840
18	---	---	---	1870	1640	1810	---	---	e2000	---	---	e1710
19	---	---	---	1880	1650	1760	---	---	e2160	---	---	e1700
20	---	---	---	2120	1580	1750	---	---	e2100	---	---	e1680
21	---	---	---	1740	1580	1690	---	---	e2000	1770	1730	1740
22	---	---	---	1740	1680	1710	---	---	e1820	1720	1490	1630
23	2410	2180	2330	1730	1570	1670	---	---	e1960	1660	1590	1630
24	2380	2110	2260	1750	1720	1730	---	---	e1960	1690	1460	1620
25	2440	2190	2360	1740	1590	1720	---	---	e1910	1830	1690	1760
26	2610	2410	2480	1690	1580	1660	---	---	e1830	1830	1780	1800
27	2650	2190	2380	1760	1670	1710	---	---	e1830	1810	1730	1780
28	2280	2110	2210	1790	1670	1700	---	---	e1870	1730	1570	1660
29	2220	2000	2120	1790	1670	1740	---	---	e1790	1670	1450	1600
30	2210	2120	2150	1730	1680	1710	---	---	e1650	1730	1440	1660
31	---	---	---	1700	1680	1690	---	---	---	1720	1680	1700
MONTH	---	---	---	2190	1570	1840	---	---	e1940	---	---	e1750

AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1710	1440	1680	1630	1450	1590	1710	---	e1690	---	---	e1730
2	1670	1550	1620	1570	1430	1500	1730	1440	1640	---	---	e1750
3	1600	1420	1540	1660	1540	1590	---	---	e1550	---	---	e1780
4	1510	1420	1490	1590	1420	1550	---	---	e1600	---	---	e1790
5	1670	1420	1520	1500	1410	1460	---	---	e1600	---	---	e1780
6	1700	1670	1690	1500	1400	1480	---	---	e1570	---	---	e1800
7	1690	1620	1660	1490	1390	1410	---	---	e1550	---	---	e1800
8	1640	1520	1590	1420	1380	1400	---	---	e1480	---	---	e1800
9	1590	1400	1520	1450	1370	1400	---	---	e1310	---	---	e1790
10	1510	1390	1450	1530	1380	1470	---	---	e1470	---	---	e1800
11	1510	1390	1450	1600	1490	1520	1170	---	e1600	---	---	e1790
12	1560	1390	1470	1600	1480	1540	1210	---	e1630	---	---	e1730
13	1630	1500	1570	1490	1370	1420	1220	---	e1670	---	---	e1730
14	1690	1600	1640	1480	1350	1410	---	---	e1550	---	---	e1780
15	1690	1640	1660	1490	1460	1470	---	---	e1480	---	---	e1750
16	1690	1620	1670	1570	1460	1530	---	---	e1600	---	---	e1800
17	1790	1680	1720	1600	1330	1530	---	---	e1700	---	---	e1840
18	1760	1590	1650	1710	1550	1630	---	---	e1620	---	---	e1890
19	1860	1580	1710	1750	1600	1660	1380	---	e1760	---	---	e1910
20	1980	1840	1900	1630	1570	1590	1640	1350	1550	---	---	e1900
21	1930	1830	1870	1630	1570	1610	1700	1570	1640	---	---	e1900
22	1840	1510	1760	1630	1550	1590	1750	1700	1720	---	---	e1900
23	1690	1500	1590	1610	---	e1540	1720	1420	1590	---	---	e1890
24	1580	1490	1550	---	---	e1520	1510	1330	1480	---	---	e1910
25	1570	1020	1470	1470	---	e1460	---	---	e1500	---	---	e1930
26	1560	1480	1520	1520	---	e1500	---	---	e1540	---	---	e1920
27	1680	1490	1630	1420	---	e1650	---	---	e1500	---	---	e1900
28	1670	1580	1630	1300	---	e1630	---	---	e1340	---	---	e1820
29	1790	1670	1730	1350	---	e1730	---	---	e1470	---	---	e1810
30	1820	1730	1780	1400	---	e1800	---	---	e1480	---	---	e1810
31	1740	1570	1650	---	---	---	---	---	e1480	---	---	---
MONTH	1980	1020	1630	---	---	e1540	---	---	e1560	---	---	e1820

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11274000 SAN JOAQUIN RIVER AT AUXILIARY SITE, NEAR NEWMAN, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e1900	---	---	e1840	2600	2550	2580	---	---	e2760
2	---	---	e1960	---	---	e1860	2590	2520	2560	---	---	e2700
3	---	---	e2000	---	---	e1880	2580	2520	2550	---	---	e2680
4	---	---	e2010	---	---	e1900	2640	2530	2580	---	---	e2640
5	---	---	e2000	---	---	e1910	2640	2500	2570	---	---	e2600
6	---	---	e1990	---	---	e1920	2510	2450	2470	---	---	e2560
7	---	---	e1920	---	---	e1930	2590	2470	2530	---	---	e2500
8	---	---	e1920	---	---	e1940	2660	2600	2630	---	---	e2450
9	---	---	e1920	---	---	e1950	2700	2640	2660	---	---	e2400
10	---	---	e1940	---	---	e1960	2690	2580	2640	---	---	e2350
11	---	---	e1950	---	---	e1970	2710	2600	2640	---	---	e2300
12	---	---	e2000	---	---	e1980	2720	2550	2640	---	---	e2250
13	---	---	e2010	---	---	e1990	2660	2580	2610	---	---	e2200
14	---	---	e2020	---	---	e2000	2810	2610	2740	---	---	e2150
15	---	---	e2030	---	---	e2050	2890	2800	2840	---	---	e2130
16	---	---	e2050	---	---	e2100	2850	2760	2790	2210	1980	2110
17	---	---	e2060	---	---	e2200	2910	2830	2850	1960	1780	1860
18	---	---	e2070	---	---	e2280	3000	2900	2940	1780	1680	1720
19	---	---	e2070	---	---	e2240	3050	2950	3000	1680	1650	1670
20	---	---	e1980	---	---	e2220	3060	2970	3020	1720	1660	1690
21	---	---	e2020	---	---	e2300	---	---	e3000	1730	1700	1720
22	---	---	e1960	2500	2370	2440	---	---	e2980	2530	1730	2160
23	---	---	e1990	2700	2500	2610	---	---	e2960	2480	2380	2420
24	---	---	e1980	2720	2580	2670	---	---	e2940	2410	2360	2390
25	---	---	e1940	2650	2590	2610	---	---	e2920	2380	2300	2340
26	---	---	e1980	2700	2620	2660	---	---	e2900	2300	2250	2280
27	---	---	e1950	2730	2600	2650	---	---	e2880	2240	2200	2210
28	---	---	e1900	2680	2530	2620	---	---	e2860	2270	2220	2230
29	---	---	e1900	2630	2590	2600	---	---	e2820	2320	2260	2290
30	---	---	e1920	2660	2550	2590	---	---	---	2310	2260	2290
31	---	---	e1830	2680	2590	2630	---	---	---	2250	2210	2230
MONTH	---	---	e1970	---	---	e2210	---	---	e2760	---	---	e2270
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2210	2180	2200	2520	2350	2440	1920	1770	1820	2260	2130	2180
2	2330	2180	2230	2370	2300	2340	1950	1920	1940	2240	2060	2140
3	2430	2280	2370	2350	2280	2310	2020	1920	1960	2050	1920	1980
4	2420	2310	2380	2340	2260	2300	2070	2030	2050	1920	1880	1900
5	2320	2240	2290	2370	2320	2350	2050	1980	2020	1910	1870	1890
6	2500	2230	2360	2370	2300	2330	2020	1950	1980	1940	1830	1900
7	2570	2490	2520	2420	2250	2320	2000	1910	1980	1980	1800	1900
8	2780	2570	2670	2260	2110	2190	1900	1830	1870	2050	1980	2020
9	2760	2670	2710	2100	2010	2050	1930	1890	1900	2080	1970	2030
10	2740	2610	2670	2060	2020	2040	1970	1920	1940	2110	2040	2080
11	2650	2410	2470	2000	1810	1880	2070	1950	1970	2160	2030	2100
12	2470	2390	2440	1970	1870	1910	2160	2060	2110	---	2030	e2080
13	2570	2440	2490	2120	1950	2010	2170	2100	2140	---	---	e2080
14	2520	2470	2490	2390	2130	2250	2140	2030	2100	---	---	e2120
15	2510	2180	2400	2390	2060	2220	2160	2020	2090	---	---	e2180
16	2170	1970	2080	2040	1970	2010	2220	2110	2160	---	---	e2240
17	2050	1930	2000	2170	1990	2070	2080	1970	2020	---	---	e2280
18	1950	1820	1870	2180	1830	2000	2040	1970	2010	---	---	e2300
19	1920	1820	1870	---	---	e2000	2020	1950	1970	---	---	e2310
20	2010	1880	1950	2140	1920	2000	2080	1960	2010	---	---	e2600
21	2030	1920	1960	1940	1680	1760	1970	1840	1900	3670	2680	3080
22	2030	1860	1940	1740	1670	1710	1860	1810	1840	3090	2750	2870
23	2070	1870	1980	1670	1620	1650	2080	1830	1980	3470	2760	3100
24	2150	1960	2100	1710	1650	1680	2090	1980	2040	2970	2650	2770
25	1920	1760	1840	1890	1700	1760	2070	1980	2030	3000	2650	2750
26	1830	1770	1790	1940	1880	1910	2090	2020	2060	2750	2460	2680
27	1930	1830	1890	2020	1940	1970	2160	1960	2070	2960	1090	2530
28	2110	1920	1980	2040	1970	2010	2120	2030	2090	1150	1070	1100
29	2380	2130	2240	1960	1850	1890	2130	2030	2070	1120	1090	1110
30	2430	2360	2390	1830	1740	1770	2180	2130	2160	1260	1100	1200
31	---	---	---	1780	1690	1740	---	---	---	1250	1160	1220
MONTH	2780	1760	2220	---	---	e2030	2220	1770	2010	---	---	e2150

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued**11274000 SAN JOAQUIN RIVER AT AUXILIARY SITE, NEAR NEWMAN, CA--Continued**

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1200	1120	1170	1820	1760	1800
2	1110	997	1050	1820	1750	1770
3	1090	1000	1040	1880	1800	1840
4	1200	1070	1130	1840	1730	1800
5	1250	1160	1190	1730	1690	1710
6	1230	1120	1180	1710	1670	1680
7	1140	1100	1130	1710	1680	1690
8	1210	1090	1150	1750	1680	1710
9	1260	1180	1230	1830	1750	1780
10	1350	1180	1270	1850	1740	1790
11	1510	1350	1430	1860	1770	1830
12	1650	1460	1570	1760	1640	1730
13	1710	1620	1660	1630	1540	1570
14	1670	1530	1610	1570	1490	1520
15	1540	1480	1510	1650	1550	1590
16	1510	1430	1470	1710	1640	1670
17	1490	1380	1420	1800	1690	1730
18	1480	1420	1450	1800	1570	1660
19	1600	1490	1550	1620	1580	1600
20	1680	1600	1630	1610	1550	1580
21	1710	1650	1680	1580	1540	1560
22	1660	1590	1640	1690	1570	1620
23	1670	1580	1610	1720	1650	1680
24	1710	1660	1690	1720	1630	1680
25	1740	1670	1700	1670	1580	1610
26	1760	1670	1730	1700	1570	1600
27	1660	1620	1630	1650	1610	1630
28	1740	1630	1680	1800	1610	1710
29	1700	1590	1640	1810	1760	1790
30	1610	1560	1580	1900	1810	1840
31	1810	1580	1650	---	---	---
MONTH	1810	997	1450	1900	1490	1690

Table 1. Water-quality records at continuing-record sites--Continued

11274000 SAN JOAQUIN RIVER AT AUXILIARY SITE, NEAR NEWMAN, CA--Continued

WATER TEMPERATURE (°C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	21.0	18.5	20.0	24.0	20.0	22.5	---	---	e23.5
2	---	---	---	20.5	17.5	19.0	25.0	21.5	23.5	---	---	e23.5
3	---	---	---	21.5	17.5	19.5	26.5	22.5	24.5	---	---	e23.5
4	---	---	---	23.5	19.0	21.5	26.0	22.5	24.5	---	---	e23.5
5	---	---	---	25.5	21.5	23.0	24.0	20.5	22.5	---	---	e24.0
6	---	---	---	26.0	22.5	24.5	---	---	e23.0	---	---	e24.0
7	---	---	---	26.0	22.5	24.5	---	---	e23.5	---	---	e24.5
8	---	---	---	27.0	24.0	25.0	---	---	e23.5	---	---	e25.5
9	---	---	---	26.5	23.5	25.0	---	---	e24.0	---	---	e25.5
10	---	---	---	26.5	24.0	25.0	---	---	e24.5	---	---	e24.5
11	---	---	---	27.0	23.5	25.0	---	---	e25.0	---	---	e24.0
12	---	---	---	27.0	24.0	25.5	---	---	e25.5	---	---	e24.5
13	---	---	---	26.5	23.5	25.0	---	---	e26.0	---	---	e25.0
14	---	---	---	27.0	23.5	25.5	---	---	e26.0	---	---	e26.0
15	---	---	---	27.5	24.0	25.5	---	---	e25.0	---	---	e27.0
16	---	---	---	25.0	22.0	23.5	---	---	e24.0	---	---	e26.5
17	---	---	---	22.5	19.5	21.5	---	---	e24.0	---	---	e22.0
18	---	---	---	22.0	18.5	20.5	---	---	e23.5	---	---	e21.0
19	---	---	---	21.5	---	e20.0	---	---	e23.0	---	---	e21.5
20	---	---	---	21.0	---	e20.0	---	---	e23.0	---	---	e21.5
21	---	---	---	22.0	18.5	20.0	---	---	e23.0	23.0	19.0	21.0
22	---	---	---	22.5	19.0	21.0	---	---	e23.0	23.0	18.5	20.5
23	23.0	20.0	21.5	23.0	19.5	21.0	---	---	e23.5	23.5	19.0	21.5
24	22.5	19.0	21.0	21.5	19.0	20.5	---	---	e24.5	24.0	20.0	22.0
25	23.0	19.5	21.0	20.5	17.0	19.0	---	---	e25.5	24.0	20.5	22.0
26	23.5	20.5	22.0	20.5	17.0	19.0	---	---	e25.5	23.5	20.0	22.0
27	24.5	20.5	23.0	21.5	17.5	19.5	---	---	e25.0	24.0	19.5	21.5
28	24.0	22.0	23.0	22.5	18.5	20.5	---	---	e24.5	24.0	20.0	22.0
29	23.0	20.5	22.0	23.0	19.0	21.0	---	---	e24.5	24.0	20.5	22.0
30	22.0	19.5	21.0	24.0	19.0	21.5	---	---	e24.0	24.0	19.5	22.0
31	---	---	---	24.0	20.0	22.0	---	---	---	24.5	20.5	22.0
MONTH	---	---	---	27.5	---	e22.1	---	---	e24.1	---	---	e23.2

AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	25.5	20.5	23.5	26.0	22.5	24.5	24.0	18.5	22.5	---	---	e16.0
2	26.5	22.5	24.5	26.0	23.5	25.0	---	---	e22.0	---	---	e15.0
3	26.5	22.5	25.0	26.5	23.5	25.0	24.0	15.0	21.5	---	---	e15.0
4	26.5	22.5	25.0	25.0	22.5	23.5	---	---	e22.0	---	---	e14.0
5	27.0	23.5	25.0	23.5	21.0	22.5	24.5	20.0	22.5	---	---	e14.0
6	27.0	22.5	25.0	23.5	21.0	22.5	23.5	---	e22.0	---	---	e14.0
7	26.5	22.5	24.5	23.5	20.5	22.0	23.5	14.0	21.5	---	---	e15.0
8	26.0	22.5	24.5	24.0	20.5	22.5	23.0	11.0	21.5	---	---	e15.5
9	26.0	22.5	24.0	25.0	21.5	23.0	21.5	19.0	20.5	---	---	e15.0
10	25.5	22.0	24.0	24.0	20.5	22.5	22.0	14.0	20.0	---	---	e14.5
11	25.0	21.5	23.5	23.5	18.5	21.5	22.0	18.5	20.5	---	---	e14.0
12	25.0	22.0	23.5	23.0	---	e21.0	22.0	13.0	20.0	---	---	e14.0
13	24.5	21.5	23.0	22.0	---	e20.5	21.0	18.0	19.5	---	---	e13.0
14	23.5	20.5	22.0	22.5	19.0	20.5	21.0	10.5	19.0	---	---	e12.0
15	23.5	19.0	21.5	22.5	18.5	21.0	21.0	18.0	19.0	---	---	e12.0
16	24.5	20.0	22.0	22.5	18.5	21.0	20.5	16.5	19.0	---	---	e12.0
17	25.0	21.5	23.0	23.0	20.0	21.5	20.5	10.0	18.5	---	---	e12.0
18	25.0	22.0	23.5	23.5	18.5	21.5	20.5	10.5	18.5	---	---	e13.0
19	24.0	21.0	22.5	23.0	---	e21.5	20.0	13.5	18.0	---	---	e13.0
20	24.0	20.5	22.5	23.5	---	e21.5	19.0	10.0	17.5	---	---	e12.0
21	24.0	20.0	22.0	24.0	20.5	22.5	21.0	17.0	18.5	---	---	e12.0
22	24.0	20.5	22.5	24.0	19.5	22.5	---	---	e18.5	---	---	e12.0
23	23.5	20.5	22.0	23.5	20.0	22.0	22.0	---	e19.0	---	---	e11.0
24	24.0	20.0	22.0	23.5	20.0	22.0	22.0	20.0	21.0	---	---	e11.0
25	24.5	20.5	23.0	23.5	20.5	22.0	---	---	e21.0	---	---	e10.0
26	25.0	21.5	23.5	23.0	20.0	21.5	---	---	e21.0	---	---	e9.0
27	25.0	22.0	23.5	23.0	19.5	21.5	---	---	e21.0	---	---	e9.0
28	25.5	22.0	24.0	23.0	20.0	21.5	---	---	e21.0	---	---	e9.0
29	26.0	22.5	24.0	23.5	20.5	22.0	---	---	e20.0	---	---	e9.0
30	26.5	22.5	24.5	24.0	21.0	22.5	---	---	e19.0	---	---	e9.0
31	26.0	22.5	24.5	---	---	---	---	---	e18.0	---	---	---
MONTH	27.0	19.0	23.5	26.5	---	e22.1	---	---	e20.1	---	---	e12.5

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11274000 SAN JOAQUIN RIVER AT AUXILIARY SITE, NEAR NEWMAN, CA--Continued

WATER TEMPERATURE (°C)												
DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e10.0	---	---	e6.0	13.5	11.5	12.5	---	---	e16.0
2	---	---	e11.5	---	---	e6.0	12.5	11.0	11.5	---	---	e15.0
3	---	---	e12.5	---	---	e6.5	11.5	10.0	10.5	---	---	e15.5
4	---	---	e12.0	---	---	e7.0	11.5	9.0	10.5	---	---	e16.0
5	---	---	e11.5	---	---	e8.5	12.0	9.0	10.5	---	---	e17.0
6	---	---	e11.0	---	---	e8.5	11.5	9.5	10.5	---	---	e17.0
7	---	---	e11.0	---	---	e9.0	12.0	9.5	11.0	---	---	e17.0
8	---	---	e10.5	---	---	e9.5	13.0	10.5	11.5	---	---	e17.0
9	---	---	e11.0	---	---	e9.5	13.5	11.0	12.0	---	---	e17.0
10	---	---	e12.0	---	---	e10.0	14.5	12.5	13.5	---	---	e14.0
11	---	---	e11.0	---	---	e10.0	15.0	12.0	13.5	---	---	e12.0
12	---	---	e9.0	---	---	e9.5	15.5	13.0	14.0	---	---	e12.5
13	---	---	e8.0	---	---	e9.5	15.0	13.5	14.5	---	---	e13.5
14	---	---	e6.0	---	---	e9.5	14.5	13.0	14.0	---	---	e14.5
15	---	---	e5.0	---	---	e9.5	15.0	13.0	14.0	---	---	e14.5
16	---	---	e5.0	---	---	e9.5	14.0	12.0	13.5	16.5	14.0	15.5
17	---	---	e6.5	---	---	e9.0	12.5	10.5	11.5	17.5	14.0	16.0
18	---	---	e7.0	---	---	e8.0	12.5	11.0	12.0	18.5	15.5	17.0
19	---	---	e8.5	---	---	e8.0	12.5	10.0	11.5	20.0	16.5	18.0
20	---	---	e8.0	---	---	e8.0	13.5	11.0	12.5	20.5	17.5	19.0
21	---	---	e8.0	---	---	e8.0	---	---	e13.0	20.0	17.5	19.0
22	---	---	e8.5	9.0	7.5	8.5	---	---	e13.0	19.5	16.5	18.0
23	---	---	e7.0	10.0	8.0	9.0	---	---	e13.5	20.0	17.0	18.5
24	---	---	e5.0	10.5	8.5	9.5	---	---	e14.0	18.0	15.5	17.0
25	---	---	e4.0	11.0	9.0	10.0	---	---	e14.5	19.5	15.5	17.5
26	---	3.5	e4.0	11.0	9.5	10.0	---	---	e16.0	21.0	17.0	19.0
27	---	---	e4.0	11.0	9.5	10.5	---	---	e16.5	19.5	13.5	17.0
28	---	---	e5.0	11.5	10.5	11.0	---	---	e16.5	14.5	11.0	13.0
29	---	---	e6.0	12.5	11.5	12.0	---	---	e16.5	16.5	12.5	14.5
30	---	---	e7.0	14.0	11.5	12.5	---	---	---	16.0	13.5	15.0
31	---	---	e7.0	13.5	11.5	12.0	---	---	---	16.0	11.5	14.0
MONTH	---	---	e8.1	---	---	e9.2	---	---	e13.1	---	---	e16.0
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	14.0	16.5	18.5	14.5	16.5	24.5	20.0	22.0	28.5	23.0	25.5
2	20.0	16.0	18.0	19.0	15.0	17.0	26.5	21.0	23.5	29.5	24.5	27.0
3	19.5	16.5	18.0	21.0	16.0	18.5	26.5	21.5	23.5	30.0	25.5	28.0
4	20.5	17.0	18.5	20.5	17.0	19.0	24.5	20.5	22.5	28.5	25.0	27.0
5	21.0	16.0	18.5	18.0	16.0	17.0	23.0	19.0	21.0	27.0	23.5	25.0
6	21.5	17.5	19.5	18.5	15.0	17.0	21.5	18.5	20.0	27.0	22.0	24.5
7	22.0	18.5	20.0	18.5	16.0	17.0	22.0	17.5	20.0	28.5	23.0	25.5
8	18.0	14.5	17.0	21.0	15.5	18.5	23.0	18.0	20.5	28.5	24.0	26.5
9	21.0	15.0	18.0	22.5	17.5	20.0	24.0	19.0	21.5	29.5	24.5	27.0
10	22.5	17.5	20.0	24.5	19.0	22.0	24.5	20.0	22.0	30.5	26.0	28.0
11	24.5	19.0	22.0	26.5	21.0	24.0	26.0	21.0	23.5	29.5	25.5	27.5
12	23.0	20.0	22.0	26.5	22.5	24.5	26.0	21.0	23.5	28.5	24.5	26.5
13	21.0	19.0	20.0	23.5	20.5	22.0	27.0	22.0	24.5	28.5	24.0	26.5
14	19.0	17.0	18.0	24.5	19.0	22.0	27.5	23.5	25.5	29.0	---	e27.0
15	17.0	16.0	16.5	26.5	20.5	23.5	28.0	24.0	26.0	---	---	e27.5
16	17.0	15.0	16.0	23.0	20.0	21.5	28.0	23.5	26.0	---	---	e28.0
17	19.5	15.5	17.5	23.0	18.5	20.5	27.0	22.5	25.0	---	---	e28.5
18	21.0	17.0	19.0	23.0	18.0	21.0	29.0	23.0	26.0	---	---	e28.5
19	19.5	17.0	18.5	---	---	e22.0	30.5	25.0	27.5	---	---	e29.0
20	17.5	16.0	17.0	27.0	20.5	24.0	28.5	24.5	26.5	31.0	26.0	29.0
21	19.0	16.0	17.5	28.5	23.0	26.0	27.0	22.0	24.5	31.0	26.0	28.5
22	18.5	16.0	17.5	26.5	23.5	25.0	28.0	23.0	25.5	31.5	26.5	29.0
23	18.0	16.0	17.0	27.0	22.0	24.5	26.5	24.5	25.5	31.0	26.5	29.0
24	20.5	16.0	18.5	27.0	22.0	24.5	28.0	24.0	26.0	31.0	26.0	28.5
25	21.0	17.5	19.5	26.0	21.5	24.0	26.0	22.5	24.0	31.5	26.5	29.0
26	22.5	18.5	20.5	25.0	21.0	23.0	26.5	22.0	24.5	31.5	27.0	29.5
27	23.0	20.5	22.0	25.5	20.5	23.0	27.0	22.5	24.5	32.0	27.0	29.5
28	22.5	19.5	21.0	23.5	21.0	22.5	26.5	22.5	24.5	31.5	26.5	29.0
29	22.5	19.0	21.0	22.0	18.5	20.5	24.0	20.0	22.5	31.5	26.5	29.0
30	20.0	17.5	18.5	21.5	17.5	19.5	26.0	20.5	23.0	32.0	27.0	29.5
31	---	---	---	23.0	18.0	20.5	---	---	---	30.5	26.0	28.5
MONTH	24.5	14.0	18.8	---	---	e21.3	30.5	17.5	23.8	---	---	e27.8

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued**11274000 SAN JOAQUIN RIVER AT AUXILIARY SITE, NEAR NEWMAN, CA--Continued****WATER TEMPERATURE (°C)**

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	29.5	25.0	27.5	28.5	25.5	27.0
2	29.0	25.0	27.0	28.5	25.0	27.0
3	28.5	24.0	26.5	29.0	25.0	27.0
4	27.5	24.0	26.0	30.0	25.5	28.0
5	28.0	23.5	25.5	30.0	26.0	28.0
6	27.5	23.0	25.0	29.0	25.5	27.5
7	27.0	22.5	25.0	27.5	23.5	26.0
8	27.5	23.0	25.5	28.5	22.5	25.0
9	28.0	23.5	25.5	27.5	20.0	22.5
10	28.0	23.5	25.5	29.0	17.5	22.5
11	27.5	23.5	25.5	26.5	17.5	21.0
12	26.0	22.0	24.0	22.5	17.0	20.0
13	25.5	21.0	23.5	22.5	18.5	21.0
14	25.5	21.0	23.5	23.5	19.5	21.5
15	25.5	21.5	23.5	---	---	e21.5
16	26.0	21.5	24.0	---	---	e20.5
17	27.0	22.5	25.0	---	---	e19.5
18	27.5	23.5	25.5	20.5	---	e18.0
19	28.0	24.0	26.0	20.5	16.5	18.5
20	28.0	24.0	26.0	20.5	17.0	19.0
21	27.0	23.5	25.5	21.5	17.0	19.5
22	27.0	23.0	25.0	---	---	e20.0
23	27.0	23.0	25.0	---	---	e20.5
24	27.5	23.5	25.5	---	---	e20.5
25	28.0	24.0	26.0	---	---	e19.5
26	29.0	25.0	27.0	---	---	e19.5
27	29.0	25.5	27.5	---	---	e19.5
28	28.0	25.0	26.5	21.5	15.5	19.0
29	28.5	24.5	27.0	22.5	18.0	20.5
30	29.5	25.5	27.5	24.0	19.0	21.5
31	29.5	26.0	28.0	---	---	---
MONTH	29.5	21.0	25.7	---	---	e22.0

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11274570 SAN JOAQUIN RIVER AT PATTERSON BRIDGE, NEAR PATTERSON, CA

LOCATION.--Lat 37°29'54", long 121°04'54", in SW 1/4 SW 1/4 sec. 15, T.5 S., R.8 E., Merced County, Hydrologic Unit 18040002, on left bank 0.2 mi below bridge on Palm Avenue, 2.3 mi northeast of Patterson.

DRAINAGE AREA.--9,760 mi², approximately.

PERIOD OF RECORD.--July 1985 to September 1988.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1985 to September 1988.

WATER TEMPERATURE: October 1985 to September 1988.

INSTRUMENTATION.--Minimonitor recorder since October 1985.

REMARKS.--Periods when maximums and/or minimums were not recorded were due to equipment malfunction.

COOPERATION.--Water discharge records provided by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,310 microsiemens, Mar. 30, 1988; minimum daily, 160 microsiemens, Mar. 13, 1986.

WATER TEMPERATURE: Maximum recorded, 29.5 °C, July 27, 1988; minimum recorded, 4.5 °C, Jan. 16, 17, 1987.

WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS, TOTAL (MG/L AS CaCO ₃)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO ₃	CALCIUM, DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)
APR 1987												
22...	1415	906	1360	8.2	21.5	760	8.0	310	150	68	33	180
MAY												
19...	1300	914	1260	8.1	22.0	755	8.5	270	120	61	28	150
JUN												
17...	1200	787	1390	8.1	22.5	760	8.0	310	140	73	31	170
JUL												
21...	0815	849	1290	8.0	22.0	760	8.0	270	110	63	28	150
AUG												
19...	1115	868	1210	8.1	23.0	760	6.7	260	110	60	26	140
SEP												
23...	1145	697	1120	8.0	21.5	760	7.2	250	96	56	26	140
OCT												
21...	1145	614	1210	7.9	18.0	760	7.8	260	98	55	29	150
NOV												
18...	1315	767	1330	7.9	14.0	765	8.8	270	110	58	30	170
DEC												
16...	1245	614	1600	7.7	7.0	750	10.6	340	170	73	39	220
JAN 1988												
21...	1530	1010	1490	7.8	9.5	770	10.0	290	110	61	33	180
FEB												
18...	1130	787	1890	8.0	11.0	760	10.3	400	220	89	43	240
MAR												
15...	1345	966	1720	8.0	15.5	760	9.5	370	200	85	39	210
APR												
20...	1145	1090	1330	7.9	17.0	755	7.2	290	130	65	32	160
MAY												
19...	1000	739	1580	8.0	20.0	760	7.9	300	130	64	33	170
JUN												
23...	1300	681	1520	7.8	25.0	755	6.8	340	160	76	36	190
JUL												
20...	1000	547	1640	7.9	26.5	760	7.0	370	200	83	40	210
AUG												
25...	1100	787	1400	7.8	24.5	760	6.7	300	130	67	32	170
SEP												
28...	1115	486	1560	7.9	20.0	765	9.6	350	160	74	39	210

Table 1. Water-quality records at continuing-record sites--Continued

11274570 SAN JOAQUIN RIVER AT PATTERSON BRIDGE, NEAR PATTERSON, CA--Continued

WATER QUALITY DATA

DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L AS CAC03)	SULFATE, DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 °C, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)
APR 1987												
22...	56	5	4.6	157	240	200	0.2	19	848	2070	1.15	2.6
MAY												
19...	54	4	4.1	148	220	170	<0.1	16	750	1850	1.02	2.4
JUN												
17...	54	4	4.2	166	250	200	0.2	18	893	1900	1.21	3.3
JUL												
21...	54	4	4.5	159	210	190	0.3	20	782	1790	1.06	3.1
AUG												
19...	54	4	4.4	148	200	180	0.2	20	752	1760	1.02	2.6
SEP												
23...	55	4	4.0	151	170	160	0.2	19	680	1280	0.92	2.0
OCT												
21...	55	4	4.4	159	160	190	0.2	21	736	1220	1.00	2.0
NOV												
18...	57	5	4.6	157	200	190	0.2	19	811	1680	1.10	1.6
DEC												
16...	58	5	5.2	177	300	310	0.2	18	1040	1720	1.41	2.1
JAN 1988												
21...	57	5	8.4	175	270	200	0.3	13	914	2490	1.24	3.1
FEB												
18...	56	5	6.0	179	400	280	0.3	17	1210	2570	1.65	4.3
MAR												
15...	55	5	4.7	175	320	180	0.3	21	1070	2790	1.46	5.2
APR												
20...	53	4	7.0	161	250	180	0.2	20	832	2450	1.13	3.1
MAY												
19...	55	4	3.8	169	270	190	0.3	18	882	1760	1.20	2.8
JUN												
23...	55	5	4.7	174	290	210	0.4	20	967	1780	1.32	3.8
JUL												
20...	55	5	4.6	177	320	240	0.2	19	1050	1550	1.43	3.5
AUG												
25...	55	4	4.5	167	250	200	0.2	21	877	1860	1.19	2.6
SEP												
28...	57	5	4.7	187	240	260	0.2	21	976	1280	1.33	2.5

Table 1. Water-quality records at continuing-record sites--Continued

11274570 SAN JOAQUIN RIVER AT PATTERSON BRIDGE, NEAR PATTERSON, CA--Continued

DATE	WATER QUALITY DATA											
	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC, TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC, TOTAL (MG/L AS C)	CHLOR-A PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	SED. SUSP., SIEVE DIAM. Z FINER THAN 0.062 MM	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
APR 1987												
22...	0.21	0.27	0.80	0.26	0.27	0.21	6.2	16	1.7	--	--	--
MAY												
19...	0.06	0.08	2.8	0.45	0.25	0.23	6.8	45	2.7	99	142	350
JUN												
17...	0.11	0.14	1.0	0.38	0.31	0.28	10	43	2.6	99	215	457
JUL												
21...	0.40	0.52	2.3	0.52	0.29	0.25	11	36	2.0	98	137	314
AUG												
19...	0.37	0.48	1.7	0.48	0.32	0.27	6.6	24	1.2	99	125	293
SEP												
23...	0.11	0.14	1.0	0.36	0.32	0.27	6.6	30	4.0	--	--	--
OCT												
21...	0.14	0.18	0.60	0.31	0.22	0.21	6.3	9.3	0.90	94	43	71
NOV												
18...	0.40	0.52	1.0	0.32	0.30	0.25	6.1	--	--	96	55	114
DEC												
16...	0.70	0.90	0.50	0.38	0.32	0.25	6.6	1.7	<0.20	99	21	35
JAN 1988												
21...	0.59	0.76	1.3	0.47	0.49	0.44	12	21	1.8	95	91	248
FEB												
18...	0.28	0.36	1.6	0.40	0.30	0.25	8.2	6.8	1.1	100	55	117
MAR												
15...	0.42	0.54	1.8	0.42	0.35	0.32	8.5	13	1.3	--	--	--
APR												
20...	1.2	1.5	2.6	0.79	0.73	0.60	10	12	1.2	92	171	503
MAY												
19...	0.09	0.12	1.0	0.19	0.16	0.15	6.0	15	0.70	97	76	152
JUN												
23...	0.17	0.22	1.3	0.44	0.37	0.32	7.4	26	1.4	--	--	--
JUL												
20...	0.14	0.18	1.3	0.45	0.24	0.20	8.0	76	2.1	90	158	233
AUG												
25...	0.31	0.40	1.1	0.38	0.28	0.26	7.8	18	1.4	--	--	--
SEP												
28...	0.03	0.04	0.70	0.31	0.16	0.15	6.5	33	1.7	86	54	71

Table 1. Water-quality records at continuing-record sites--Continued

11274570 SAN JOAQUIN RIVER AT PATTERSON BRIDGE, NEAR PATTERSON, CA--Continued

WATER QUALITY DATA									
DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, TOTAL (UG/L AS AS)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
APR 1987									
22...	1500	<10	4	4	870	850	7	3	<1
MAY									
19...	3000	<10	4	3	850	890	--	11	1
JUN									
17...	2000	10	4	4	1000	1100	5	9	3
JUL									
21...	3400	20	4	4	910	950	<1	10	3
AUG									
19...	3000	30	4	3	850	870	<1	6	2
SEP									
23...	3100	<10	4	4	700	680	14	8	1
OCT									
21...	1400	<10	3	3	640	620	14	5	3
NOV									
18...	1300	<10	4	2	860	840	5	17	1
DEC									
16...	590	<10	2	2	1100	1100	5	4	1
JAN 1988									
21...	1900	40	4	3	1200	1200	6	9	2
FEB									
18...	1400	<10	3	2	1600	1500	7	7	1
MAR									
15...	3400	<10	4	3	1300	1300	12	8	3
APR									
20...	3300	50	4	3	920	950	13	11	1
MAY									
19...	1800	<10	5	3	1100	1000	7	6	1
JUN									
23...	5600	<10	5	4	1300	1300	15	10	2
JUL									
20...	3800	<10	5	4	1300	1300	12	14	2
AUG									
25...	4200	30	3	4	1000	1000	13	11	2
SEP									
28...	1200	<10	4	3	840	940	4	6	<1

Table 1. Water-quality records at continuing-record sites--Continued

11274570 SAN JOAQUIN RIVER AT PATTERSON BRIDGE, NEAR PATTERSON, CA--Continued

WATER QUALITY DATA									
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM, TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY, DIS- SOLVED (UG/L AS HG)
APR 1987									
22...	2400	6	<5	20	--	280	94	0.20	<0.1
MAY									
19...	4100	16	<5	20	26	260	48	0.10	0.1
JUN									
17...	2900	7	<5	30	29	280	48	<0.10	0.1
JUL									
21...	3500	14	<5	30	29	260	45	--	<0.1
AUG									
19...	4000	32	<5	30	23	240	66	<0.10	<0.1
SEP									
23...	5300	11	<5	20	15	420	100	<0.10	<0.1
OCT									
21...	2000	20	<5	20	13	220	130	<0.10	<0.1
NOV									
18...	2200	9	10	20	15	190	85	<0.10	<0.1
DEC									
16...	1100	12	<5	20	25	280	190	<0.10	<0.1
JAN 1988									
21...	3300	9	<5	30	22	--	70	<0.10	<0.1
FEB									
18...	2300	7	<5	30	33	220	120	<0.10	<0.1
MAR									
15...	5500	4	<5	40	35	300	58	<0.10	<0.1
APR									
20...	6200	92	<5	30	22	280	70	0.20	<0.1
MAY									
19...	4800	22	<5	30	23	270	76	<0.10	<0.1
JUN									
23...	7600	11	<5	40	27	630	40	<0.10	<0.1
JUL									
20...	5600	8	5	40	34	290	37	<0.10	<0.1
AUG									
25...	5900	11	19	30	26	330	40	<0.10	<0.1
SEP									
28...	1900	9	<5	20	24	210	150	0.10	<0.1

Table 1. Water-quality records at continuing-record sites--Continued

11274570 SAN JOAQUIN RIVER AT PATTERSON BRIDGE, NEAR PATTERSON, CA--Continued

WATER QUALITY DATA								
DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 1987								
22...	4	6	5	<1	4	4	<10	<3
MAY								
19...	--	4	11	2	3	4	40	6
JUN								
17...	4	<5	10	2	6	6	<10	13
JUL								
21...	8	4	15	<1	3	3	<10	<3
AUG								
19...	6	4	11	4	5	5	20	<3
SEP								
23...	4	5	12	1	3	4	40	<3
OCT								
21...	4	3	7	4	2	2	10	10
NOV								
18...	5	4	14	1	2	3	20	<3
DEC								
16...	7	6	4	2	3	3	<10	3
JAN 1988								
21...	8	6	6	1	2	5	20	6
FEB								
18...	8	8	4	3	9	9	10	7
MAR								
15...	6	8	8	5	7	8	30	<3
APR								
20...	--	7	21	1	7	7	80	<3
MAY								
19...	6	6	10	2	6	6	10	11
JUN								
23...	10	6	16	6	6	6	20	13
JUL								
20...	7	8	15	4	6	7	20	<3
AUG								
25...	9	5	13	5	5	6	20	20
SEP								
28...	8	5	5	2	4	4	<10	6

Table 1. Water-quality records at continuing-record sites--Continued

11274570 SAN JOAQUIN RIVER AT PATTERSON BRIDGE, NEAR PATTERSON, CA--Continued

WATER QUALITY DATA												
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT3/S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (°C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC TOTAL (MG/L AS C)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L)	BROMO- FORM TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L)
JUL 1987												
21...	1100	849	1300	8.1	22.0	5.8	11	<3.0	<3.0	<3.0	<3.0	<3.0
AUG												
18...	1130	915	1100	8.1	24.5	4.3	7.1	<3.0	<3.0	<3.0	<3.0	<3.0
SEP												
15...	1030	803	1110	8.0	22.0	7.0	7.6	<3.0	<3.0	<3.0	<3.0	<3.0
DATE	CHLORO- FORM TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	BENZENE TOTAL (UG/L)	CHLORO- BENZENE TOTAL (UG/L)	CHLORO- ETHANE TOTAL (UG/L)	ETHYL- BENZENE TOTAL (UG/L)	METHYL- BROMIDE TOTAL (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L)	METHYL- ENE CHLO- RIDE TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L)
JUL 1987												
21...	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
AUG												
18...	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
SEP												
15...	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
DATE	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2,2 TETRA- CHLORO- ETHANE TOTAL (UG/L)	1,2-DI- CHLORO- BENZENE TOTAL (UG/L)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L)	1,2- TRANS DI CHLORO- ETHENE TOTAL (UG/L)	1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	1,3-DI- CHLORO- BENZENE TOTAL (UG/L)	1,4-DI- CHLORO- BENZENE TOTAL (UG/L)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L)	
JUL 1987												
21...	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
AUG												
18...	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
SEP												
15...	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
DATE	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	PRO- PAZINE TOTAL (UG/L)	TRI- FLURA- LIN TOTAL RECOVER (UG/L)	PER- THANE TOTAL (UG/L)	METHO- MYL TOTAL (UG/L)	PROPHAM TOTAL (UG/L)	SIME- TRYNE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	PROME- TONE TOTAL (UG/L)	
JUL 1987												
21...	<3.0	<3.0	<3.0	<0.10	<0.10	<0.1	<2.0	<2.0	<0.1	<0.10	<0.1	
AUG												
18...	<3.0	<3.0	<3.0	<0.10	<0.10	<0.1	<2.0	<2.0	<0.1	<0.10	<0.1	
SEP												
15...	<3.0	<3.0	<3.0	<0.10	<0.10	<0.1	<2.0	<2.0	<0.1	<0.10	<0.1	
DATE	PROME- TRYNE TOTAL (UG/L)	1,2- DIBROMO ETHYL- ENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	LINDANE TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	
JUL 1987												
21...	<0.1	<3.0	<3.0	<3.0	<0.10	<0.010	<0.010	<0.1	<0.010	0.020	0.020	
AUG												
18...	<0.1	<3.0	<3.0	<3.0	<0.10	<0.010	<0.010	<0.1	<0.010	<0.010	<0.010	
SEP												
15...	<0.1	<3.0	<3.0	<3.0	<0.10	<0.010	0.010	<0.1	<0.010	0.010	0.010	

Table 1. Water-quality records at continuing-record sites--Continued

11274570 SAN JOAQUIN RIVER AT PATTERSON BRIDGE, NEAR PATTERSON, CA--Continued

WATER QUALITY DATA

DATE	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	PCB, TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)
JUL 1987 21...	<0.010	0.070	<0.010	<0.01	<1	<0.010	<0.010	<0.01	<0.1	<0.01	<0.01
AUG 18...	<0.010	<0.010	<0.010	0.01	<1	<0.010	<0.010	<0.01	<0.1	<0.01	0.01
SEP 15...	<0.010	0.050	<0.010	0.01	<1	<0.010	<0.010	<0.01	<0.1	<0.01	<0.01

DATE	DI- AZINON, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	ATRA- ZINE, TOTAL (UG/L)	PICLO- RAM (TOR- DON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SEVIN, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	METHYL TRI- THION, TOTAL (UG/L)
JUL 1987 21...	0.03	<0.01	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.01
AUG 18...	0.07	<0.01	<0.10	<0.01	0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.01
SEP 15...	0.05	<0.01	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.01

DATE	STYRENE TOTAL (UG/L)	ALA- CHLOR TOTAL RECOVER (UG/L)	XYLENE TOTAL WHOLE TOT REC (UG/L)	CYAN- AZINE TOTAL (UG/L)	DICAMBA (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	AME- TRYNE TOTAL	METRI- BUZIN WATER WHOLE TOT.REC (UG/L)	METOLA- CHLOR WATER WHOLE TOT.REC (UG/L)	SED. SUSP., SIEVE DIAM. % FINER THAN 0.062 MM	SEDI- MENT, SUS- PENDEd (MG/L)
JUL 1987 21...	<3.0	<0.10	<3.0	<0.10	<0.01	<0.01	<0.10	<0.1	0.1	99	138
AUG 18...	<3.0	<0.10	<3.0	<0.10	<0.01	<0.01	<0.10	<0.1	<0.1	98	125
SEP 15...	<3.0	<0.10	<3.0	<0.10	<0.01	<0.01	<0.10	<0.1	<0.1	99	60

Table 1. Water-quality records at continuing-record sites--Continued

11274570 SAN JOAQUIN RIVER AT PATTERSON BRIDGE, NEAR PATTERSON, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

APRIL 1987				MAY 1987				JUNE 1987				JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN		
1	1960	1830	1900	1320	1210	1270	---	---	e1240	---	---	e1240		
2	2000	1800	1950	1280	1150	1200	---	---	e1230	---	---	e1230		
3	2010	1960	1980	1200	1150	1180	---	---	e1230	---	---	e1240		
4	1960	1880	1910	1240	1160	1200	---	---	e1240	---	---	e1240		
5	1980	1940	1970	1240	1180	1220	---	---	e1260	---	---	e1240		
6	1930	1830	1870	1390	1240	1320	---	---	e1280	---	---	e1230		
7	1820	1770	1790	1470	1390	1430	---	---	e1290	---	---	e1240		
8	1810	1770	1790	1470	1390	1450	---	---	e1300	---	---	e1240		
9	1800	1730	1780	1410	1340	1380	---	---	e1310	---	---	e1240		
10	1810	1720	1760	1380	1340	1360	---	---	e1320	---	---	e1240		
11	1780	1690	1740	1360	1290	1330	---	---	e1330	---	---	e1240		
12	1770	1710	1720	1380	1310	1350	---	---	e1340	---	---	e1240		
13	1760	1610	1670	1340	1240	1290	---	---	e1350	---	---	e1250		
14	1730	1620	1660	1330	1240	1280	---	---	e1360	---	---	e1240		
15	1710	1630	1670	1390	1320	1350	---	---	e1370	---	---	e1230		
16	1740	1650	1700	1430	1390	1410	---	---	e1380	---	---	e1240		
17	1880	1730	1800	1400	1320	1350	---	---	e1390	---	---	e1240		
18	1860	1680	1760	1340	1260	1300	---	---	e1380	---	---	e1250		
19	1670	1500	1600	---	---	e1290	---	---	e1360	---	---	e1260		
20	1550	1410	1470	1290	1270	1280	---	---	e1340	---	---	e1280		
21	1440	1360	1390	1260	1220	1250	---	---	e1320	1330	1280	1300		
22	1400	1350	1380	1240	1190	1210	---	---	e1300	1340	1280	1310		
23	1440	1380	1400	1210	1170	1190	---	---	e1290	1340	1240	1280		
24	1470	1390	1440	1260	1150	1190	---	---	e1280	1290	1200	1260		
25	1440	1360	1400	---	---	e1200	---	---	e1270	1260	1170	1210		
26	1430	1340	1380	---	---	e1210	---	---	e1260	1310	1230	1280		
27	1440	1360	1410	---	---	e1220	---	---	e1250	1290	1210	1260		
28	1410	1330	1370	---	---	e1230	---	---	e1240	1330	1250	1290		
29	1370	1290	1330	---	---	e1240	---	---	e1240	1290	1260	1280		
30	1310	1260	1290	---	---	e1240	---	---	e1240	1320	1270	1300		
31	---	---	---	---	---	e1250	---	---	---	1350	1300	1330		
MONTH	2010	1260	1640	---	---	e1280	---	---	e1300	---	---	e1260		
AUGUST 1987				SEPTEMBER 1987				OCTOBER 1987				NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN		
1	1340	724	1290	1260	1170	1210	1200	---	e1080	1270	1210	1240		
2	1330	1290	1320	1190	1150	1170	---	---	e1100	1340	1260	1310		
3	1330	1270	1300	1170	1140	1160	---	---	e1140	1420	1310	1370		
4	1320	1260	1310	1190	1160	1180	---	---	e1160	1430	1380	1410		
5	1260	1210	1240	1170	1100	1130	---	---	e1200	1420	1380	1400		
6	1370	1250	1300	1160	---	e1140	---	---	e1240	1430	1360	1390		
7	1400	1350	1370	---	---	e1120	---	---	e1260	1440	1400	1410		
8	1350	1270	1300	---	---	e1100	---	---	e1300	1430	1380	1410		
9	1350	1220	1280	---	---	e1050	---	---	e1380	1440	1390	1430		
10	1250	1190	1220	---	---	e1120	---	---	e1280	1450	1390	1420		
11	1210	1160	1180	---	---	e1140	---	---	e1170	1450	1410	1430		
12	1240	1170	1200	---	---	e1260	---	---	e1080	1470	1390	1440		
13	1230	1160	1200	---	---	e1220	---	---	e1120	1400	1320	1370		
14	1310	1210	1260	---	---	e1230	---	---	e1200	1390	1300	1340		
15	1290	1210	1240	---	---	e1220	---	---	e1240	1450	1380	1410		
16	1260	1200	1230	---	---	e1180	---	---	e1240	1400	1320	1360		
17	1260	1170	1200	---	---	e1170	---	---	e1240	1330	1290	1310		
18	1230	1140	1190	---	---	e1160	---	---	e1260	1340	---	e1320		
19	1240	1200	1220	---	---	e1150	---	---	e1270	1790	---	e1500		
20	1270	1200	1220	---	---	e1140	---	---	e1280	1460	---	e1400		
21	1380	1260	1320	---	---	e1120	1310	---	e1280	1290	---	e1260		
22	1360	1240	1300	---	---	e1100	1330	1280	1310	1340	---	e1300		
23	1280	1180	1230	1180	1120	1130	1360	1280	1320	1110	---	e1100		
24	1180	1080	1140	1180	1120	1150	1350	1230	1290	1260	---	e1240		
25	1130	1070	1100	1150	1110	1130	1230	1180	1210	1410	---	e1350		
26	1150	1100	1120	1170	1060	1120	1340	1180	1250	1470	---	e1420		
27	1140	1080	1110	1110	1070	1080	1320	1290	1310	1600	---	e1540		
28	1210	1130	1180	1060	895	961	1360	1330	1350	1420	---	e1380		
29	1210	1180	1190	964	932	946	1390	1320	1360	1090	---	e1070		
30	1240	1150	1200	1120	951	1020	1310	1240	1270	1030	---	e1020		
31	1270	1190	1220	---	---	---	1240	1200	1220	---	---	---		
MONTH	1400	724	1230	---	---	e1130	---	---	e1240	1790	---	e1340		

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11274570 SAN JOAQUIN RIVER AT PATTERSON BRIDGE, NEAR PATTERSON, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1210	---	e1160	1520	1440	1490	1900	1810	1840	1780	1650	1720
2	1500	---	e1450	1480	1370	1430	1860	1780	1840	1690	1630	1670
3	1450	---	e1400	1530	1470	1500	1790	1720	1760	1700	1550	1650
4	1710	---	e1600	1590	1550	1560	1810	1740	1790	1630	1540	1600
5	1480	---	e1450	1610	1570	1590	1830	1740	1790	1730	1630	1700
6	1420	---	e1400	1710	1610	1640	1780	1720	1750	1770	1710	1730
7	1370	---	e1350	1760	1740	1750	1720	1660	1690	1770	1690	1740
8	1360	---	e1350	1800	1750	1770	1790	1710	1760	1770	1700	1730
9	---	---	e1350	1810	1750	1760	1810	1740	1770	1790	1700	1750
10	---	---	e1370	1840	1770	1800	1840	1750	1800	1820	1750	1780
11	---	---	e1380	1840	1780	1800	1780	1740	1760	1870	1820	1850
12	---	---	e1450	1850	1800	1820	1870	1730	1800	1900	1850	1870
13	---	---	e1480	1900	1820	1850	1860	1770	1810	1880	1750	1840
14	---	---	e1500	1930	1880	1910	1810	1750	1790	1790	1720	1750
15	---	---	e1540	2000	1910	1940	1900	1790	1850	1730	1710	1720
16	1630	---	e1580	1970	1870	1920	2020	1900	1960	1980	1740	1870
17	1670	1590	1630	1880	1640	1830	1910	1830	1870	2000	1890	1970
18	1720	1660	1700	1710	1590	1650	1910	1870	1890	1940	1810	1870
19	1840	1710	1740	1620	1490	1540	1990	1890	1950	1950	1920	1940
20	1840	1720	1780	1490	1380	1430	2040	1970	1990	1970	1870	1910
21	1720	1690	1700	1500	1440	1470	2080	2030	2060	1950	1880	1920
22	1720	1690	1710	1600	1500	1560	2150	2080	2120	2000	1850	1920
23	1680	1660	1670	1750	1590	1680	2090	1980	2030	2000	1900	1960
24	1720	1670	1700	1890	1740	1810	2060	1970	2020	2020	1900	1960
25	1720	1670	1700	1900	1810	1870	2010	1920	1960	2080	1980	2020
26	1680	1620	1650	1840	1790	1820	1960	1880	1930	2130	2050	2080
27	1740	1620	1680	1910	1830	1880	2000	1870	1930	2170	2070	2120
28	1720	1560	1660	1860	1800	1840	2000	1850	1920	2150	2010	2070
29	1620	1550	1590	1810	1680	1750	1880	1750	1850	2140	2060	2110
30	1620	1560	1580	1800	1710	1760	---	---	---	2310	2110	2230
31	1610	1530	1590	1820	1770	1790	---	---	---	2250	2150	2190
MONTH	---	---	e1540	2000	1370	1720	2150	1660	1870	2310	1540	1880

APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2150	2060	2110	1700	1630	1670	1320	1230	1270	1580	1490	1520
2	2050	1950	2000	1770	1640	1720	1320	1260	1300	1620	1530	1560
3	2040	1940	1960	1670	1630	1640	1440	1320	1400	1640	1530	1600
4	2080	1890	1980	1690	1640	1670	1480	1410	1440	1520	1380	1450
5	1940	1840	1910	1650	1560	1590	1500	1400	1440	1410	1350	1380
6	1830	1750	1800	1620	1550	1590	1420	1340	1390	1420	1320	1380
7	1840	1730	1770	1630	1480	1550	1330	1280	1300	1500	1360	1430
8	1880	1800	1830	1490	1450	1480	1370	1280	1320	1640	1450	1540
9	1870	1790	1810	1490	1390	1450	1330	1290	1310	1740	1630	1700
10	1900	1850	1860	1390	1320	1360	1390	1320	1350	1770	1690	1730
11	1860	1720	1780	1380	1300	1340	1520	1400	1450	1780	1670	1720
12	1780	1650	1690	1390	1320	1350	1620	1520	1560	1790	1680	1730
13	1690	1630	1650	1400	1310	1350	1610	1520	1580	1730	1670	1710
14	1690	1620	1660	1460	1370	1410	1650	1560	1600	1820	1680	1740
15	1660	1600	1630	1540	1470	1510	1670	1520	1590	1710	1660	1690
16	1700	1530	1640	1570	1380	1480	1760	1610	1670	1770	1650	1710
17	1520	1360	1450	1440	1360	1400	1800	1750	1770	1760	1720	1740
18	1390	1330	1370	1520	1390	1440	1780	1660	1700	1760	1710	1740
19	1360	1300	1320	1610	1520	1580	1690	1620	1660	1740	1690	1720
20	1350	1280	1320	1610	1510	1550	1690	1480	1630	1800	1640	1730
21	1430	1320	1380	1600	1440	1500	1600	1480	1540	1810	1710	1790
22	1470	1390	1440	1450	1310	1370	1600	1530	1570	1710	1640	1670
23	1460	1240	1350	1340	1300	1320	1540	1490	1520	1830	1710	1790
24	1400	1260	1350	1300	1200	1240	1580	1480	1530	1840	1740	1800
25	1460	1320	1410	1270	1230	1250	1570	1510	1530	1760	1630	1720
26	1320	1260	1300	1380	1260	1320	1560	1490	1530	1660	1580	1620
27	1360	1270	1310	1550	1400	1510	1540	1490	1520	1650	1590	1620
28	1470	1370	1430	1590	1540	1560	1510	1400	1450	1710	1600	1660
29	1520	1450	1480	1580	1550	1560	1450	1390	1420	1760	1710	1740
30	1620	1530	1580	1550	1330	1460	1500	1390	1430	1780	1700	1750
31	---	---	---	1320	1290	1310	---	---	---	1690	1580	1650
MONTH	2150	1240	1620	1770	1200	1470	1800	1230	1490	1840	1320	1660

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued**11274570 SAN JOAQUIN RIVER AT PATTERSON BRIDGE, NEAR PATTERSON, CA--Continued**

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1690	1600	1670	1610	1460	1520
2	1660	1580	1620	1660	1580	1620
3	1600	1480	1560	1650	1550	1610
4	1520	1450	1480	1680	1640	1660
5	1560	1480	1530	1670	1500	1610
6	1580	1500	1540	1520	1410	1470
7	1520	1470	1500	1550	1490	1510
8	1470	1420	1450	1630	1510	1580
9	1470	1370	1410	1690	1570	1630
10	1480	1410	1460	1730	1670	1710
11	1570	1430	1480	1740	1650	1700
12	1620	1550	1580	1720	1580	1650
13	1680	1570	1620	1590	1530	1560
14	1680	1590	1640	1520	1460	1480
15	1590	1460	1540	1490	1450	1470
16	1480	1410	1450	1590	1470	1540
17	1990	1420	1460	1690	1590	1640
18	---	1360	e1430	1690	1600	1660
19	1530	1360	1410	1630	1400	1540
20	1460	1360	1420	1550	1370	1460
21	1430	1390	1410	1540	1430	1480
22	1440	1370	1400	1490	1450	1470
23	1430	1340	1390	1510	1430	1460
24	1450	1360	1410	1580	1520	1540
25	1440	1370	1400	1590	1540	1560
26	1500	1400	1450	1590	1510	1550
27	1510	1410	1460	1630	1500	1560
28	1490	1420	1450	1600	1510	1550
29	1550	1470	1520	1570	1500	1540
30	1530	1460	1510	1540	1460	1510
31	1520	1470	1490	---	---	---
MONTH	---	1340	e1490	1740	1370	1560

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11274570 SAN JOAQUIN RIVER AT PATTERSON BRIDGE, NEAR PATTERSON, CA--Continued

WATER TEMPERATURE (°C)												
APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	17.5	18.5	20.5	19.0	20.0	---	---	e22.0	---	---	e24.0
2	20.0	18.0	19.0	20.0	18.5	19.0	---	---	e23.0	---	---	e24.0
3	19.5	18.0	18.5	21.0	18.5	19.5	---	---	e24.0	---	---	e24.0
4	19.0	17.0	18.0	23.0	20.0	21.5	---	---	e25.0	---	---	e24.0
5	19.0	17.0	18.0	25.0	22.0	23.5	---	---	e24.0	---	---	e25.0
6	19.0	17.0	18.0	25.5	23.5	24.5	---	---	e23.0	---	---	e25.0
7	20.0	17.5	18.5	26.0	24.0	25.0	---	---	e23.0	---	---	e26.0
8	20.5	18.5	19.5	25.5	24.0	25.0	---	---	e24.0	---	---	e26.0
9	20.5	18.5	19.5	26.0	24.0	25.0	---	---	e24.0	---	---	e27.0
10	21.0	19.0	20.0	26.0	24.5	25.5	---	---	e25.0	---	---	e27.0
11	20.5	19.0	19.5	26.0	24.5	25.0	---	---	e25.0	---	---	e27.0
12	19.0	17.0	18.0	26.5	24.5	25.5	---	---	e25.0	---	---	e27.0
13	19.5	17.5	18.5	26.0	25.0	25.5	---	---	e26.0	---	---	e27.0
14	21.0	18.5	20.0	26.5	24.5	25.5	---	---	e26.0	---	---	e27.0
15	22.0	20.0	21.0	27.0	25.0	26.0	---	---	e25.0	---	---	e28.0
16	22.5	20.5	21.5	26.5	24.5	25.5	---	---	e24.0	---	---	e28.0
17	22.0	20.5	21.5	24.0	22.5	23.5	---	---	e23.0	---	---	e26.0
18	20.5	19.0	20.0	23.0	21.5	22.0	---	---	e23.0	---	---	e25.0
19	18.5	16.5	17.5	---	---	e21.0	---	---	e24.0	---	---	e24.0
20	19.0	16.5	17.5	21.5	20.0	20.5	---	---	e23.0	---	---	e23.0
21	21.0	18.0	19.5	22.0	20.0	21.0	---	---	e23.0	24.0	22.0	23.0
22	22.0	20.0	21.0	22.5	20.0	21.0	---	---	e23.0	23.5	21.5	22.5
23	22.0	20.5	21.0	22.5	20.5	21.5	---	---	e24.0	24.0	22.0	23.0
24	21.5	19.5	20.5	22.5	20.5	21.5	---	---	e25.0	24.0	22.5	23.0
25	22.0	19.5	21.0	---	---	e21.0	---	---	e26.0	24.0	22.0	23.0
26	22.5	20.5	21.5	---	---	e21.0	---	---	e26.0	24.0	22.5	23.0
27	24.0	21.0	22.5	---	---	e21.0	---	---	e26.0	24.0	22.0	23.0
28	23.0	22.0	22.5	---	---	e21.0	---	---	e25.0	---	---	e22.0
29	22.5	21.0	22.0	---	---	e22.0	---	---	e25.0	---	---	e22.0
30	22.0	20.5	21.5	---	---	e22.0	---	---	e25.0	---	---	e22.0
31	---	---	---	---	---	e22.0	---	---	---	---	---	e23.0
MONTH	24.0	16.5	19.8	---	---	e22.7	---	---	e24.3	---	---	e24.6

AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	26.0	---	e24.0	26.5	24.5	25.5	23.0	21.0	22.0	17.5	16.5	17.0
2	27.0	24.5	25.5	27.0	25.0	25.5	23.0	21.0	22.0	16.5	15.5	16.0
3	27.5	25.0	26.0	26.5	25.0	26.0	23.0	21.0	22.0	15.5	15.0	15.5
4	27.5	25.5	26.5	25.5	24.0	24.5	23.0	21.0	22.0	15.5	14.5	15.0
5	27.5	25.0	26.0	24.0	22.5	23.5	23.0	21.0	22.0	15.0	14.5	15.0
6	27.0	25.0	26.0	23.5	18.0	21.5	23.0	20.5	22.0	15.5	15.0	15.0
7	26.5	25.0	26.0	26.5	---	e22.0	22.5	20.5	21.5	16.0	15.0	15.5
8	26.0	24.0	25.0	---	---	e23.0	22.0	20.0	21.0	16.0	15.0	15.0
9	26.0	24.0	25.0	29.0	---	e24.0	21.0	19.5	20.5	16.0	15.0	15.5
10	25.5	24.0	25.0	27.5	---	e23.0	21.0	19.0	20.0	15.5	15.0	15.5
11	25.0	23.5	24.5	---	---	e22.0	21.0	19.0	20.0	15.0	14.0	14.5
12	25.0	23.0	24.0	23.0	---	e21.5	21.0	19.5	20.0	14.5	14.0	14.5
13	25.0	23.0	24.0	21.5	---	e21.0	20.5	19.0	19.5	14.0	14.0	14.0
14	25.0	23.0	24.0	21.5	20.0	21.0	20.0	18.5	19.0	14.0	13.5	14.0
15	24.0	22.0	23.0	---	---	e21.0	20.0	18.0	19.0	13.0	12.5	12.5
16	24.5	22.5	23.5	21.5	20.5	21.0	19.0	18.0	18.5	13.0	12.0	12.5
17	25.0	23.0	24.0	22.0	20.0	21.0	19.0	17.5	18.5	13.0	12.5	13.0
18	25.0	23.5	24.0	22.0	20.5	21.5	19.0	17.5	18.0	14.0	13.0	13.5
19	24.0	23.0	23.5	22.5	20.5	21.5	19.0	17.0	18.0	14.0	13.5	14.0
20	24.0	22.0	23.0	22.0	20.5	21.5	18.0	17.0	17.5	14.0	13.0	13.5
21	24.0	22.0	23.0	22.5	20.5	21.5	18.5	17.0	17.5	13.0	12.5	12.5
22	24.0	22.5	23.0	23.0	20.5	21.5	18.5	18.0	18.0	12.5	11.5	12.0
23	23.5	22.5	23.0	23.5	---	e21.5	19.5	18.0	18.5	12.0	11.5	11.5
24	24.0	22.0	23.0	22.5	20.5	21.5	20.0	18.5	19.0	11.5	11.0	11.5
25	24.5	22.5	23.5	22.5	20.5	21.5	20.0	18.5	19.0	11.5	10.5	11.0
26	25.0	23.0	24.0	21.5	20.5	21.0	19.5	18.5	19.0	10.5	9.5	10.0
27	25.0	23.5	24.0	21.5	18.0	20.5	19.5	19.0	19.5	10.0	9.0	9.5
28	25.5	23.0	24.0	21.5	20.0	21.0	20.0	19.0	19.5	10.5	9.5	10.0
29	26.0	24.0	25.0	22.0	20.5	21.5	19.5	19.5	19.5	10.5	9.5	10.0
30	27.5	22.5	25.0	22.5	21.0	22.0	19.0	18.5	18.5	10.0	9.5	10.0
31	---	20.5	e24.5	---	---	---	18.0	17.5	18.0	---	---	---
MONTH	---	---	e24.3	---	---	e22.2	23.0	17.0	19.6	17.5	9.0	13.3

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11274570 SAN JOAQUIN RIVER AT PATTERSON BRIDGE, NEAR PATTERSON, CA--Continued

WATER TEMPERATURE (°C)												
DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.5	10.0	10.5	6.5	6.0	6.0	12.0	11.0	11.5	16.0	14.5	15.5
2	13.0	11.5	12.0	6.5	6.0	6.5	11.5	11.0	11.5	15.5	14.0	14.5
3	13.5	12.5	13.0	7.5	6.5	7.0	11.0	10.0	10.5	16.0	14.0	15.0
4	13.5	12.5	13.0	8.5	7.5	8.0	11.0	9.5	10.0	16.5	14.5	15.5
5	12.5	12.0	12.5	10.0	8.5	9.5	11.0	9.5	10.0	17.0	15.0	16.0
6	12.5	11.5	12.0	9.5	9.5	9.5	11.0	9.5	10.0	17.5	15.5	16.5
7	12.5	11.5	12.0	9.5	9.0	9.5	11.0	9.5	10.5	17.0	15.5	16.0
8	12.0	11.5	11.5	10.0	9.5	10.0	12.0	10.0	11.0	17.5	15.0	16.0
9	12.0	11.5	12.0	10.5	9.5	10.0	12.5	11.0	11.5	16.5	15.5	16.0
10	13.0	12.0	12.5	11.0	10.5	10.5	13.5	12.0	12.5	15.5	13.0	14.0
11	12.5	10.5	11.5	11.0	10.0	10.5	14.0	12.5	13.0	13.0	11.0	12.0
12	10.0	8.0	9.0	10.5	9.5	10.0	14.0	12.5	13.0	13.0	11.0	12.0
13	8.0	6.5	7.0	10.0	9.5	9.5	14.0	13.0	13.5	14.5	12.0	13.0
14	6.5	5.5	6.0	10.0	9.0	9.5	13.5	12.5	13.0	15.0	13.0	14.0
15	6.5	6.0	6.5	10.5	9.5	10.0	13.5	12.5	13.0	15.5	13.5	14.5
16	7.5	6.5	7.0	10.0	10.0	10.0	13.0	11.5	12.5	16.0	13.5	15.0
17	8.5	7.5	8.0	10.0	8.5	9.5	12.0	10.5	11.0	16.5	14.0	15.0
18	9.5	8.0	8.5	8.5	7.5	8.0	11.5	10.5	11.0	17.0	15.0	16.0
19	10.0	9.0	9.5	8.0	7.0	8.0	12.0	10.0	11.0	18.0	16.0	17.0
20	10.0	9.0	9.5	8.5	7.0	8.0	13.0	11.0	12.0	19.0	17.0	18.0
21	10.0	9.0	9.5	8.5	7.5	8.0	13.5	12.0	12.5	18.5	17.0	18.0
22	10.0	9.0	9.5	8.5	7.5	8.0	14.0	12.0	13.0	18.5	16.5	17.5
23	9.0	7.0	8.0	9.0	8.0	8.5	14.0	12.5	13.0	18.5	17.0	17.5
24	7.0	5.5	6.5	10.0	8.5	9.0	14.5	13.0	13.5	17.5	15.5	16.5
25	6.0	5.0	5.5	10.5	9.0	10.0	15.0	13.0	14.0	18.0	15.5	17.0
26	6.5	5.0	6.0	10.5	10.0	10.0	16.0	14.0	15.0	19.5	16.5	18.0
27	6.5	5.5	6.0	11.0	10.0	10.5	16.0	15.5	15.5	18.5	15.0	17.0
28	7.5	6.0	7.0	11.5	10.5	11.0	17.0	15.0	16.0	14.5	12.5	14.0
29	7.5	7.5	7.5	12.5	11.0	12.0	16.0	15.5	16.0	15.5	13.0	14.0
30	8.0	7.0	7.5	12.5	12.0	12.0	---	---	---	15.5	13.5	14.5
31	7.5	6.5	7.0	12.5	11.5	12.0	---	---	---	15.5	13.0	14.0
MONTH	13.5	5.0	9.1	12.5	6.0	9.4	17.0	9.5	12.4	19.5	11.0	15.5
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	14.0	15.5	17.0	15.5	16.5	22.5	20.0	21.0	26.0	22.5	24.0
2	18.5	16.0	17.0	18.0	15.5	17.0	24.0	21.0	22.0	27.5	24.5	25.5
3	18.0	17.0	17.5	19.5	17.0	18.0	24.0	21.5	22.5	27.5	25.5	26.5
4	18.5	17.0	17.5	19.0	17.5	18.0	22.5	20.0	21.5	26.5	24.5	25.5
5	19.5	17.0	18.0	18.0	16.5	17.5	21.0	19.5	20.5	25.5	23.5	24.5
6	19.5	17.5	18.5	17.0	16.0	16.5	20.5	19.0	19.5	25.0	22.5	24.0
7	20.0	18.5	19.0	17.5	16.5	17.0	20.0	18.0	19.0	26.5	23.0	24.5
8	18.5	16.0	17.0	19.5	16.0	17.5	21.0	18.5	19.5	26.5	24.0	25.0
9	18.5	15.5	17.0	20.5	18.0	19.0	22.0	19.5	20.5	27.0	24.5	25.5
10	20.5	17.5	19.0	22.0	19.0	20.5	23.0	20.5	21.5	28.0	25.5	27.0
11	22.0	19.5	20.5	24.0	21.0	22.5	24.0	21.0	22.5	27.5	25.5	26.5
12	21.5	20.5	21.0	24.5	22.0	23.5	24.0	21.5	23.0	27.0	25.0	26.0
13	20.5	18.5	19.5	22.0	20.5	21.5	25.5	22.5	24.0	26.5	24.5	25.5
14	18.5	17.5	18.0	22.5	20.0	21.0	26.0	23.5	24.5	26.5	24.5	25.5
15	17.0	16.0	16.5	24.0	20.5	22.0	26.0	24.0	25.0	26.5	24.5	25.5
16	16.5	15.5	16.0	21.5	20.0	21.0	26.0	23.5	24.5	27.0	24.5	26.0
17	18.5	15.5	17.0	21.0	19.0	20.0	25.0	23.0	24.0	28.0	25.5	26.5
18	19.5	17.5	18.5	21.5	19.0	20.0	26.5	23.5	24.5	28.5	26.0	27.0
19	19.0	17.5	18.5	22.0	19.0	20.5	28.0	25.0	26.5	28.5	26.0	27.0
20	18.0	16.5	17.5	24.5	20.5	22.5	27.0	25.5	26.0	28.5	26.0	27.5
21	18.0	16.0	17.0	26.0	23.0	24.5	26.0	23.5	25.0	28.5	26.0	27.0
22	18.0	16.5	17.0	24.5	23.0	24.0	26.0	23.5	25.0	28.5	26.0	27.5
23	17.5	16.0	17.0	25.0	22.0	23.5	25.5	24.5	25.0	28.5	26.5	27.5
24	19.0	16.0	17.5	24.5	22.0	23.5	26.5	24.0	25.0	28.5	26.0	27.0
25	20.0	17.5	18.5	24.5	22.0	23.0	26.5	24.0	25.5	29.0	26.5	27.5
26	21.0	18.0	19.5	23.0	21.5	22.5	25.5	23.5	24.5	29.0	27.0	28.0
27	22.0	20.0	21.0	23.5	21.0	22.0	25.5	23.0	24.0	29.5	27.0	28.0
28	21.5	20.0	21.0	22.5	20.5	22.0	25.0	23.0	24.0	29.0	26.5	28.0
29	21.0	19.0	20.0	20.5	19.0	19.5	23.0	20.5	22.0	29.0	26.5	27.5
30	19.0	17.0	18.5	20.5	18.0	19.0	24.0	21.0	22.0	29.0	27.0	28.0
31	---	---	---	21.5	18.5	20.0	---	---	---	28.0	26.0	27.0
MONTH	22.0	14.0	18.2	26.0	15.5	20.5	28.0	18.0	23.1	29.5	22.5	26.4

Table 1. Water-quality records at continuing-record sites--*Continued*11274570 SAN JOAQUIN RIVER AT PATTERSON BRIDGE, NEAR PATTERSON, CA--*Continued*

WATER TEMPERATURE (°C)

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	27.5	25.0	26.0	27.0	25.0	26.0
2	27.0	24.5	26.0	26.0	24.5	25.5
3	26.5	24.5	25.5	26.5	24.5	25.5
4	25.5	24.0	25.0	27.5	25.0	26.0
5	25.5	23.5	24.5	27.5	25.5	26.5
6	25.0	23.0	24.0	27.0	25.0	26.0
7	25.0	23.0	24.0	25.5	23.5	24.5
8	25.5	23.0	24.5	25.0	23.0	24.0
9	25.5	23.5	24.5	23.5	22.0	23.0
10	26.0	23.5	24.5	23.5	21.0	22.0
11	26.0	23.5	24.5	22.0	20.5	21.5
12	25.0	23.0	24.0	21.0	19.0	20.0
13	24.0	22.0	23.0	21.5	19.5	20.5
14	24.0	22.0	22.5	22.5	20.0	21.5
15	24.0	22.0	23.0	22.5	20.5	21.5
16	24.5	22.0	23.5	22.5	20.5	21.5
17	25.5	23.0	24.0	22.0	19.5	20.5
18	25.5	23.5	24.5	20.0	17.5	18.5
19	26.0	24.0	25.0	19.5	17.5	18.5
20	26.0	24.0	25.0	20.0	18.0	19.0
21	25.0	23.5	24.5	20.5	18.5	19.5
22	25.5	23.0	24.0	21.5	18.5	20.0
23	25.5	23.0	24.5	22.0	19.0	20.5
24	25.5	23.5	24.5	22.0	19.5	20.5
25	26.0	23.5	25.0	21.5	19.0	20.0
26	27.5	25.0	26.0	21.0	18.5	19.5
27	27.0	25.0	26.0	21.0	18.5	20.0
28	26.5	24.5	25.5	21.0	18.5	20.0
29	26.5	24.0	25.5	22.0	18.5	20.0
30	27.5	25.0	26.0	23.0	19.5	21.0
31	27.5	25.0	26.0	---	---	---
MONTH	27.5	22.0	24.7	27.5	17.5	21.8

Table 1. Water-quality records at continuing-record sites--Continued

11290000 TUOLUMNE RIVER AT MODESTO, CA

LOCATION.--Lat 37°37'38", long 120°59'11", in SE 1/4 SW 1/4 sec. 33, T.3 S., R.9 E., Stanislaus County, Hydrologic Unit 18040002, on left bank at bridge on Ninth Street in Modesto, and 0.2 mi downstream from Dry Creek.

DRAINAGE AREA.--1,884 mi².

PERIOD OF RECORD.--July 1985 to September 1988.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1985 to September 1988.

WATER TEMPERATURE: October 1985 to September 1988.

INSTRUMENTATION.--Minimonitor recorder since October 1985.

REMARKS.--Periods when maximums and/or minimums were not recorded were due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 721 microsiemens, May 13, 1988; minimum daily, 20 microsiemens, June 16, 1986.

WATER TEMPERATURE: Maximum recorded, 32.5 °C, June 26, 27, 1987; minimum recorded, 7.0 °C, Dec. 27, 1987 and Jan. 19, 1988.

WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS, TOTAL (MG/L AS CaCO ₃)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO ₃	CALCIUM, DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)
APR 1987												
22...	1645	762	80	7.3	19.0	760	9.8	30	0	6.9	3.2	6.9
MAY												
18...	1000	424	148	7.7	22.5	760	8.0	50	0	11	5.4	12
JUN												
18...	0730	175	336	8.0	20.5	760	7.3	110	0	24	11	28
JUL												
22...	0730	172	282	8.1	20.5	760	--	91	0	20	10	26
AUG												
19...	1345	207	279	8.8	26.0	760	11.4	86	0	19	9.3	25
SEP												
23...	1330	180	332	8.4	24.5	760	11.9	100	0	22	11	28
OCT												
21...	1445	317	168	7.7	18.5	760	10.2	53	0	12	5.5	13
NOV												
18...	1515	329	175	7.8	14.0	765	10.4	56	0	13	5.7	14
DEC												
16...	1500	306	174	7.3	9.0	750	11.2	60	3	14	6.1	14
JAN 1988												
22...	0800	298	237	7.8	8.0	770	9.5	78	3	18	8.0	18
FEB												
18...	1500	218	242	8.0	15.0	760	12.2	78	1	18	8.1	20
MAR												
15...	1545	248	232	7.6	17.0	760	11.0	71	0	16	7.6	18
APR												
20...	1415	279	207	7.4	17.5	755	9.2	61	0	14	6.4	15
MAY												
16...	1100	143	310	7.9	21.5	760	9.3	98	0	21	11	24
JUN												
23...	1500	110	252	7.9	30.0	755	11.1	81	0	17	9.3	20
JUL												
20...	1130	93	312	8.3	29.0	760	10.0	88	0	19	9.9	28
AUG												
26...	1130	70	309	7.8	28.0	755	9.3	95	0	20	11	28
SEP												
28...	1630	114	302	8.5	24.0	765	12.8	98	0	21	11	24

Table 1. Water-quality records at continuing-record sites--Continued

11290000 TUOLUMNE RIVER AT MODESTO, CA--Continued

WATER QUALITY DATA

DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L AS CAC03)	SULFATE, DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 °C, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)
APR 1987												
22...	32	0.6	1.4	33	4.2	7.4	<0.1	11	59	121	0.08	0.33
MAY												
18...	33	0.8	2.8	50	<5.0	13	0.1	19	100	--	--	0.68
JUN												
18...	36	1	3.2	108	13	33	0.2	33	211	99.7	0.29	1.4
JUL												
22...	37	1	3.2	98	12	24	0.2	32	178	82.7	0.24	0.66
AUG												
19...	38	1	3.0	92	15	27	0.2	30	191	107	0.26	0.61
SEP												
23...	37	1	3.4	102	12	31	0.2	35	214	104	0.29	0.91
OCT												
21...	34	0.8	1.8	54	7.5	15	0.1	20	106	90.7	0.14	0.55
NOV												
18...	34	0.8	1.7	56	6.6	19	0.2	21	131	116	0.18	0.71
DEC												
16...	33	0.8	1.9	57	8.2	20	0.2	21	126	104	0.17	0.80
JAN 1988												
22...	33	0.9	2.4	75	11	22	0.2	25	154	124	0.21	1.2
FEB												
18...	35	1	2.3	77	11	22	0.2	25	152	89.5	0.21	0.93
MAR												
15...	35	1	2.3	72	9.2	20	0.2	25	144	96.4	0.20	0.75
APR												
20...	34	0.9	1.6	64	9.7	16	0.1	20	121	91.1	0.16	0.97
MAY												
16...	34	1	4.3	105	16	27	0.2	27	187	72.2	0.25	1.1
JUN												
23...	33	1	5.2	87	18	21	0.3	27	161	47.8	0.22	0.58
JUL												
20...	40	1	3.5	98	9.5	32	0.2	30	174	43.7	0.24	0.16
AUG												
26...	38	1	3.7	98	10	31	0.1	34	198	37.4	0.27	0.16
SEP												
28...	34	1	4.2	98	10	27	0.1	39	193	59.4	0.26	0.47

Table 1. Water-quality records at continuing-record sites--Continued

11290000 TUOLUMNE RIVER AT MODESTO, CA--Continued

DATE	WATER QUALITY DATA											
	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS NH ₄)	NITRO- GEN, AM- MONIA + ORGANIC, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC, TOTAL (MG/L AS C)	CHLOR-A PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	SED. SUSP., SIEVE DIAM. % FINER THAN 0.062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
APR 1987												
22...	0.05	0.06	1.2	0.02	0.03	<0.01	2.2	0.80	<0.10	91	11	23
MAY												
18...	0.09	0.12	0.70	0.20	0.17	0.16	--	1.6	<0.10	84	18	21
JUN												
18...	0.09	0.12	1.0	0.12	0.09	0.08	3.0	1.1	0.10	97	13	6.1
JUL												
22...	0.01	0.01	0.50	0.14	0.09	0.07	4.2	1.2	0.40	93	13	6.0
AUG												
19...	0.04	0.05	0.80	0.04	0.03	0.02	2.9	6.7	0.20	65	2	1.1
SEP												
23...	0.06	0.08	0.50	0.04	0.03	0.02	2.1	1.1	<0.30	69	4	1.9
OCT												
21...	0.06	0.08	0.20	0.03	<0.01	0.02	1.9	0.70	<0.20	84	5	4.3
NOV												
18...	0.05	0.06	0.40	0.02	0.03	0.02	2.1	--	--	94	3	2.7
DEC												
16...	0.03	0.04	2.3	0.03	0.03	0.02	2.2	<0.30	<0.20	97	3	2.5
JAN 1988												
22...	0.06	0.08	0.20	0.05	0.04	0.03	2.0	0.80	<0.10	91	7	5.6
FEB												
18...	0.04	0.05	<0.20	0.04	0.02	0.02	20	<0.20	<0.10	91	8	4.7
MAR												
15...	0.06	0.08	0.40	0.04	0.03	0.02	1.8	--	--	--	--	--
APR												
20...	0.08	0.10	0.30	0.05	0.03	0.05	2.0	0.30	<0.10	97	10	7.5
MAY												
16...	0.05	0.06	0.70	0.31	0.29	0.25	2.4	1.7	0.20	62	9	3.5
JUN												
23...	0.03	0.04	1.0	0.49	0.39	0.37	4.3	1.3	0.20	71	40	12
JUL												
20...	0.05	0.06	0.70	0.14	0.10	0.07	3.9	1.7	0.40	55	12	3.0
AUG												
26...	<0.01	--	0.60	0.12	0.10	0.10	4.8	11	1.3	--	--	--
SEP												
28...	<0.01	--	0.60	0.14	0.12	0.12	3.9	4.3	0.60	67	7	2.2

Table 1. Water-quality records at continuing-record sites--*Continued*

11290000 TUOLUMNE RIVER AT MODESTO, CA--*Continued*

DATE	WATER QUALITY DATA								
	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, TOTAL (UG/L AS AS)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
APR 1987									
22...	190	10	1	1	10	10	4	3	<1
MAY									
18...	320	10	2	2	40	20	--	3	1
JUN									
18...	250	10	3	2	80	50	<1	3	2
JUL									
22...	560	<10	4	4	100	50	--	5	<1
AUG									
19...	--	<10	4	4	70	40	--	3	1
SEP									
23...	50	<10	4	4	70	50	22	1	1
OCT									
21...	80	<10	2	2	30	20	11	6	3
NOV									
18...	30	<10	2	2	20	30	1	3	1
DEC									
16...	130	<10	2	1	50	30	3	2	1
JAN 1988									
22...	200	20	2	2	40	30	1	3	1
FEB									
18...	140	<10	2	2	40	20	2	3	2
MAR									
15...	130	<10	2	2	20	30	1	4	2
APR									
20...	170	<10	2	1	30	30	2	3	<1
MAY									
16...	150	20	3	3	50	40	1	3	1
JUN									
23...	600	30	4	4	30	40	<1	6	1
JUL									
20...	250	10	6	5	30	--	5	4	1
AUG									
26...	170	30	5	4	50	40	3	4	1
SEP									
28...	80	20	4	4	40	40	<1	4	1

Table 1. Water-quality records at continuing-record sites--Continued

11290000 TUOLUMNE RIVER AT MODESTO, CA--Continued

WATER QUALITY DATA									
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM, TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY, DIS- SOLVED (UG/L AS HG)
APR 1987									
22...	360	32	<5	<10	11	30	17	<0.1	<0.1
MAY									
18...	490	59	6	<10	<4	50	13	<0.1	<0.1
JUN									
18...	440	30	<5	<10	5	50	16	<0.1	<0.1
JUL									
22...	270	40	<5	<10	12	140	33	3.5	<0.1
AUG									
19...	220	64	<5	<10	<4	80	50	<0.1	<0.1
SEP									
23...	210	49	<5	<10	<4	70	41	<0.1	<0.1
OCT									
21...	210	50	<5	<10	<4	20	19	<0.1	<0.1
NOV									
18...	190	50	<5	<10	<4	30	17	<0.1	<0.1
DEC									
16...	250	59	<5	<10	5	30	22	<0.1	<0.1
JAN 1988									
22...	400	3	<5	<10	<4	<33	33	<0.1	<0.1
FEB									
18...	290	53	<5	<10	<4	50	33	<0.1	<0.1
MAR									
15...	290	31	<5	<10	<4	50	27	<0.1	<0.1
APR									
20...	380	7	<5	<10	<4	50	31	<0.1	<0.1
MAY									
16...	270	60	<5	<10	4	40	26	<0.1	<0.1
JUN									
23...	940	95	<5	<10	<4	110	33	<0.1	<0.1
JUL									
20...	400	52	<5	<10	<4	90	36	<0.1	<0.1
AUG									
26...	420	69	15	<10	<4	140	89	0.1	<0.1
SEP									
28...	310	94	<5	<10	<4	30	24	0.1	<0.1

Table 1. Water-quality records at continuing-record sites--*Continued*

11290000 TUOLUMNE RIVER AT MODESTO, CA--*Continued*

WATER QUALITY DATA								
DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL, RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 1987								
22...	1	<1	1	--	<1	<1	<10	<3
MAY								
18...	<10	1	2	3	<1	<1	<10	4
JUN								
18...	<4	<1	2	1	<1	<1	<10	9
JUL								
22...	--	<1	5	<1	<1	<1	<10	5
AUG								
19...	1	1	9	<1	<1	<1	<10	--
SEP								
23...	2	3	<1	2	<1	<1	<10	5
OCT								
21...	<1	1	10	<1	<1	<1	10	8
NOV								
18...	1	1	<1	<1	<1	<1	<10	<3
DEC								
16...	1	<1	4	3	<1	<1	<10	6
JAN 1988								
22...	4	1	2	<1	<1	<1	<10	<3
FEB								
18...	2	3	3	<1	<1	<1	<10	<3
MAR								
15...	3	2	2	4	<1	<1	<10	10
APR								
20...	1	2	3	1	<1	<1	<10	<3
MAY								
16...	1	1	3	4	<1	<1	<10	5
JUN								
23...	4	<1	5	5	<1	<1	70	15
JUL								
20...	4	5	3	2	<1	<1	20	5
AUG								
26...	6	2	2	1	<1	<1	<10	9
SEP								
28...	5	1	3	<1	<1	<1	<10	<3

Table 1. Water-quality records at continuing-record sites--Continued

11290000 TUOLUMNE RIVER AT MODESTO, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	143	116	136	180	170	176	286	222	248	---	---	e365
2	126	63	85	224	166	189	339	195	251	---	---	e360
3	63	51	56	234	227	229	---	355	e360	---	---	e355
4	63	54	57	238	229	231	---	391	e395	---	---	e350
5	69	63	66	239	227	232	---	---	e395	---	---	e345
6	72	68	70	295	238	272	---	391	e395	---	---	e340
7	71	67	69	335	264	292	---	378	e380	---	---	e345
8	79	69	72	373	304	348	---	388	e390	362	---	e350
9	78	69	74	402	277	310	---	386	e390	352	---	e340
10	79	74	76	607	417	542	384	336	363	355	---	e345
11	84	78	81	614	533	575	346	321	332	342	---	e330
12	93	85	89	526	479	495	362	327	349	352	---	e340
13	99	88	93	496	301	402	412	357	385	354	---	e345
14	110	96	104	288	197	242	369	353	361	355	---	e345
15	103	95	99	194	164	173	358	332	345	346	---	e335
16	103	89	95	165	160	163	353	332	339	333	---	e325
17	101	93	97	165	144	150	351	330	340	---	---	e320
18	101	91	96	160	144	150	405	335	367	---	---	e310
19	97	91	94	167	149	157	411	358	387	---	---	e300
20	101	95	97	192	158	171	352	314	331	---	---	e290
21	107	102	104	234	193	222	354	335	346	---	---	e280
22	108	103	106	249	225	234	362	333	347	---	---	e280
23	107	98	103	260	205	233	347	327	338	---	---	e280
24	113	107	110	243	233	238	349	321	338	---	---	e280
25	129	111	121	231	215	222	381	339	351	---	---	e280
26	146	125	133	223	208	214	---	383	e390	---	---	e280
27	184	147	161	211	198	205	---	---	e385	---	---	e280
28	210	187	197	207	197	203	---	---	e380	---	---	e280
29	207	185	197	381	167	204	---	---	e375	---	---	e280
30	183	173	176	401	223	316	---	---	e370	---	---	e280
31	---	---	---	292	181	235	---	---	---	---	---	e280
MONTH	210	51	104	614	144	259	---	---	e357	---	---	e317

AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e23	---	---	e330	345	309	329	---	---	e167
2	---	---	e280	---	---	e330	371	337	350	---	---	e167
3	---	---	e280	---	---	e330	371	344	360	---	---	e167
4	---	---	e280	---	---	e330	360	330	343	---	---	e167
5	---	---	e280	---	---	e330	332	296	315	---	---	e167
6	---	---	e280	---	---	e335	377	319	335	---	---	e170
7	---	---	e280	---	---	e335	400	321	352	---	---	e170
8	---	---	e280	---	---	e335	327	241	278	---	---	e170
9	---	---	e280	---	---	e335	251	213	233	---	---	e170
10	---	---	e280	---	---	e335	209	190	200	---	---	e170
11	---	---	e280	---	---	e340	211	197	202	---	---	e175
12	---	---	e280	---	---	e340	256	191	210	---	---	e175
13	---	---	e280	---	---	e340	310	257	282	---	---	e175
14	---	---	e280	---	---	e340	327	265	306	---	---	e175
15	---	---	e280	---	---	e340	262	217	237	---	---	e175
16	---	---	e280	---	---	e345	290	218	241	---	---	e180
17	---	---	e280	---	---	e345	299	279	288	---	---	e180
18	---	---	e280	---	---	e345	298	245	268	---	---	e180
19	---	---	e279	---	---	e345	242	217	229	214	165	195
20	---	---	e285	---	---	e345	338	189	265	217	162	194
21	---	---	e290	---	---	e350	255	131	177	211	205	208
22	---	---	e300	---	---	e350	269	259	265	207	201	204
23	405	268	315	387	331	349	269	185	255	212	207	209
24	317	258	290	337	306	322	170	128	137	216	209	212
25	---	308	e295	340	298	319	301	133	164	221	216	218
26	---	---	e300	342	306	324	---	---	e165	228	221	223
27	---	---	e305	373	326	340	---	---	e165	235	228	231
28	---	---	e310	381	328	347	---	---	e165	241	235	237
29	---	---	e315	365	331	344	---	---	e165	248	241	244
30	---	---	e320	365	325	349	---	---	e165	250	248	249
31	---	---	e325	---	---	---	---	---	e165	---	---	---
MONTH	---	---	e281	---	---	e338	---	---	e246	---	---	e191

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11290000 TUOLUMNE RIVER AT MODESTO, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	251	---	e240	---	---	e212	---	---	e239	211	155	197
2	---	---	e230	---	---	e213	---	---	e239	245	201	226
3	---	---	e220	---	---	e214	---	---	e239	261	242	253
4	---	---	e200	---	---	e215	---	---	e239	259	223	249
5	---	---	e190	---	---	e216	---	---	e239	255	239	252
6	208	159	184	---	---	e217	---	---	e240	256	251	254
7	234	133	202	---	---	e218	---	---	e240	252	238	246
8	192	145	171	---	---	e219	---	---	e240	257	245	250
9	233	193	210	---	---	e220	---	---	e240	252	239	246
10	235	221	230	---	---	e221	---	---	e240	250	239	242
11	222	216	220	---	---	e222	---	---	e241	266	247	254
12	221	216	219	---	---	e223	---	---	e241	263	253	257
13	225	216	220	---	---	e224	---	---	e341	259	241	253
14	232	223	226	---	---	e225	---	---	e241	250	239	245
15	239	232	236	---	---	e227	---	---	e241	242	229	235
16	244	231	240	---	---	e228	---	---	e242	249	230	238
17	233	231	232	---	---	e229	---	---	e242	250	233	242
18	237	225	230	---	---	e230	---	---	e242	249	237	242
19	234	215	223	---	---	e232	251	247	249	242	225	237
20	213	202	206	---	---	e234	250	245	247	249	226	241
21	200	191	196	---	---	e235	250	245	247	242	215	228
22	---	198	e200	---	---	e237	252	246	249	253	235	246
23	---	---	e201	---	---	e237	251	246	248	255	243	250
24	---	---	e202	---	---	e237	255	251	252	250	242	247
25	---	---	e203	---	---	e237	255	251	253	250	244	247
26	---	---	e204	---	---	e238	258	235	251	245	224	237
27	---	---	e206	---	---	e238	256	239	251	238	224	229
28	---	---	e207	---	---	e238	248	209	229	234	220	229
29	---	---	e208	---	---	e238	247	198	217	246	226	235
30	---	---	e209	---	---	e238	---	---	---	246	236	239
31	---	---	e210	---	---	e238	---	---	---	246	233	240
MONTH	---	---	e212	---	---	e227	---	---	e245	266	155	241

APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	262	241	250	231	214	221	267	222	248	314	297	308
2	279	255	266	298	223	247	270	250	260	303	289	297
3	297	255	269	353	252	284	273	256	264	---	---	e320
4	267	249	256	285	262	273	260	210	236	424	298	355
5	265	243	257	318	263	275	259	230	245	312	278	300
6	261	244	251	394	261	311	259	233	249	446	278	299
7	265	245	258	388	311	348	257	227	239	386	273	295
8	266	242	256	375	274	309	246	221	232	384	274	284
9	258	244	252	409	288	328	250	220	233	402	281	305
10	259	250	255	340	296	311	264	253	259	330	285	296
11	260	242	251	470	298	349	275	248	263	314	281	301
12	252	239	244	697	438	542	276	219	251	398	276	324
13	250	187	220	721	335	485	293	242	257	410	278	311
14	186	104	144	463	356	413	296	263	284	420	284	302
15	104	97	100	378	307	339	281	227	250	367	261	281
16	102	98	100	315	198	260	283	264	272	325	277	287
17	131	101	112	219	185	201	290	255	275	365	251	301
18	179	133	156	221	184	194	313	269	282	292	240	263
19	208	180	197	231	208	219	313	276	297	398	258	279
20	234	173	201	234	209	222	303	281	294	360	267	293
21	267	204	245	230	195	212	348	294	302	307	265	283
22	281	267	273	239	218	231	358	284	299	367	242	272
23	269	169	195	251	213	234	281	252	269	379	269	296
24	168	99	129	259	224	241	302	280	296	301	272	286
25	98	91	94	235	217	227	295	258	276	382	260	282
26	104	96	99	240	215	228	293	277	284	414	268	305
27	106	100	102	233	204	216	294	281	289	372	280	320
28	135	99	110	257	212	237	299	272	288	359	291	323
29	190	138	168	259	209	234	289	255	273	422	283	303
30	220	190	204	245	215	228	303	271	285	438	264	313
31	---	---	---	240	222	231	---	---	---	654	256	358
MONTH	297	91	197	721	184	279	358	210	268	---	---	e301

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued*

11290000 TUOLUMNE RIVER AT MODESTO, CA--*Continued*

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

AUGUST 1988				SEPTEMBER 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e360	408	344	385
2	---	---	e360	411	352	371
3	---	---	e360	424	397	414
4	---	---	e360	416	373	390
5	---	---	e360	389	351	365
6	---	---	e355	368	343	356
7	---	---	e355	361	316	338
8	---	---	e355	371	318	329
9	---	---	e355	393	322	344
10	---	---	e355	404	323	354
11	---	---	e350	408	310	363
12	---	---	e350	344	290	313
13	---	---	e350	347	308	323
14	---	---	e350	333	261	297
15	---	---	e350	325	253	296
16	---	---	e345	302	265	283
17	---	---	e345	315	258	285
18	---	---	e345	376	285	316
19	---	---	e345	360	294	321
20	---	---	e345	321	275	290
21	---	---	e340	305	258	271
22	---	---	e340	446	294	323
23	---	---	e340	419	312	356
24	---	---	e340	437	321	367
25	366	---	e340	609	366	444
26	441	307	363	706	330	448
27	442	392	422	387	308	343
28	428	360	405	---	---	e340
29	412	370	391	---	---	e340
30	403	371	385	---	---	e340
31	400	364	380	---	---	---
MONTH	---	---	e358	---	---	e343

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11290000 TUOLUMNE RIVER AT MODESTO, CA--Continued

WATER TEMPERATURE (°C)												
APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	15.5	17.0	20.0	17.0	18.5	25.5	21.0	23.0	30.5	23.0	26.5
2	18.0	15.5	17.0	20.5	17.0	18.5	28.0	22.5	25.0	31.0	23.0	26.5
3	16.5	14.5	15.5	22.5	18.0	20.0	30.0	23.5	26.5	30.0	23.5	26.0
4	16.5	14.0	15.5	24.5	20.0	22.0	29.5	23.0	26.0	30.0	22.5	26.0
5	16.5	14.0	15.5	26.0	21.5	23.5	27.0	22.5	24.5	30.5	23.0	26.5
6	17.0	14.0	15.5	27.5	23.0	25.0	25.5	22.5	24.0	31.5	23.0	27.0
7	17.5	14.5	16.0	28.0	24.0	26.0	29.0	22.5	25.0	32.0	24.5	28.0
8	18.0	15.0	16.5	28.0	25.0	26.0	29.5	23.0	26.0	31.5	24.5	28.0
9	18.5	15.5	17.0	29.0	25.0	26.5	30.5	23.0	26.5	31.0	24.5	27.5
10	18.0	16.0	17.0	28.5	25.5	27.0	30.0	23.5	26.5	30.5	24.0	27.0
11	18.0	16.0	17.0	29.0	25.0	27.0	30.5	24.0	27.0	30.0	23.0	26.5
12	17.5	15.0	16.5	29.0	25.0	27.0	31.5	24.0	27.5	30.0	23.5	26.5
13	18.0	15.0	16.5	29.0	25.5	27.0	31.5	25.5	28.0	30.0	23.5	26.5
14	18.0	15.0	17.0	29.0	25.0	27.0	30.5	24.0	27.0	31.0	24.0	27.5
15	19.0	16.0	17.5	29.0	25.5	27.5	29.5	23.0	26.0	30.5	24.0	27.0
16	19.0	16.5	18.0	29.0	25.5	27.0	29.5	22.5	25.5	30.5	24.0	27.0
17	19.0	16.5	18.0	26.5	24.0	25.0	29.5	22.0	25.5	26.0	22.0	24.0
18	18.0	16.0	17.0	27.0	23.0	25.0	29.5	21.5	25.5	26.5	20.5	23.5
19	17.0	14.5	16.0	24.5	22.5	23.5	30.0	23.0	26.0	27.0	20.5	23.5
20	17.5	14.0	16.0	24.0	21.5	22.5	28.5	22.5	25.5	26.5	20.5	23.0
21	18.0	14.5	16.5	25.0	21.0	23.0	29.0	22.5	25.5	25.5	20.5	23.0
22	20.0	15.5	18.0	25.0	20.5	22.5	29.5	22.5	25.5	27.0	19.5	23.0
23	20.5	18.0	19.0	25.0	21.0	22.5	31.0	23.0	26.5	27.5	20.0	23.5
24	20.5	17.5	19.0	24.5	20.5	22.0	32.0	23.5	27.5	27.0	20.5	23.5
25	20.5	17.5	19.5	23.0	19.5	21.0	32.5	25.0	28.5	27.5	20.5	23.5
26	21.0	18.0	20.0	24.5	20.0	22.0	32.5	25.5	29.0	31.5	20.0	23.5
27	22.0	18.5	20.5	24.5	20.5	22.0	32.0	24.5	28.0	---	---	e24.0
28	21.0	19.0	20.0	25.0	20.5	22.5	31.5	23.5	27.5	---	---	e25.0
29	21.0	18.5	20.0	25.0	21.0	22.5	32.0	24.0	28.0	---	---	e26.0
30	20.0	18.0	19.0	24.5	20.5	22.5	31.5	24.0	27.5	---	---	e27.0
31	---	---	---	25.0	21.0	23.0	---	---	---	---	---	e28.0
MONTH	22.0	14.0	17.4	29.0	17.0	23.8	32.5	21.0	26.3	---	---	e25.6
AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e29.0	28.5	23.0	25.5	25.0	20.0	22.0	---	---	e17.0
2	---	---	e29.0	29.0	23.0	26.0	25.0	19.5	22.0	---	---	e17.0
3	---	---	e28.0	29.5	23.5	26.0	24.0	20.0	22.0	---	---	e16.0
4	---	---	e28.0	27.5	22.0	24.5	24.0	20.0	21.5	---	---	e16.0
5	---	---	e28.0	26.5	20.5	23.5	24.0	19.5	21.5	---	---	e16.0
6	---	---	e28.0	25.0	20.5	22.5	24.0	20.0	21.5	---	---	e16.0
7	---	---	e27.0	26.0	20.0	22.5	23.5	19.5	21.0	---	---	e15.0
8	---	---	e27.0	27.0	20.0	23.0	23.0	19.0	20.5	---	---	e15.0
9	---	---	e27.0	27.0	21.5	23.5	21.5	18.5	19.5	---	---	e15.0
10	---	---	e26.0	26.0	20.0	22.5	21.0	18.0	19.0	---	---	e15.0
11	---	---	e26.0	25.5	19.5	22.0	21.0	17.5	19.0	---	---	e14.0
12	---	---	e26.0	25.5	18.5	21.5	20.5	17.5	18.5	---	---	e14.0
13	---	---	e25.0	25.5	19.5	22.0	20.0	17.0	18.0	---	---	e14.0
14	---	---	e25.0	25.5	19.5	22.0	20.0	16.5	18.0	---	---	e14.0
15	---	---	e25.0	25.5	19.0	22.0	19.0	16.5	17.5	---	---	e13.0
16	---	---	e24.0	25.5	19.5	22.0	19.5	16.0	17.5	---	---	e13.0
17	---	---	e24.0	25.0	19.0	21.5	19.0	16.0	17.5	---	---	e13.0
18	---	---	e24.0	25.0	19.0	22.0	19.0	16.0	17.0	---	---	e13.0
19	25.5	---	e23.5	25.0	19.0	22.0	18.5	15.5	17.0	13.0	12.0	12.0
20	25.0	20.5	22.5	24.5	19.0	21.5	17.0	15.5	16.5	12.0	11.5	11.5
21	26.0	19.5	22.5	25.0	19.0	22.0	18.5	15.5	16.5	12.0	11.5	12.0
22	26.0	20.0	23.0	25.0	19.5	22.0	19.0	17.0	18.0	12.5	11.0	11.5
23	25.0	20.0	22.5	24.5	19.5	22.0	20.0	17.5	18.5	12.0	10.5	11.0
24	26.5	19.5	23.0	24.5	19.5	21.5	20.5	18.0	19.0	11.5	10.0	10.5
25	26.5	20.5	23.5	24.5	19.0	21.5	20.5	17.5	18.5	11.0	9.5	10.0
26	27.5	21.0	24.0	24.0	18.5	21.0	---	---	e18.0	11.0	9.0	9.5
27	27.5	21.0	24.0	24.5	18.5	21.0	---	---	e18.0	10.5	9.0	9.5
28	28.0	21.5	24.5	25.0	18.5	21.5	---	---	e18.0	11.0	9.0	10.0
29	28.0	22.5	25.0	25.0	19.0	22.0	---	---	e18.0	10.5	8.5	9.5
30	29.0	22.5	25.5	25.0	19.5	22.0	---	---	e17.0	10.0	9.0	9.5
31	28.5	22.5	25.5	---	---	---	---	---	e17.0	---	---	---
MONTH	---	---	e25.3	29.5	18.5	22.5	---	---	e18.8	---	---	e13.1

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11290000 TUOLUMNE RIVER AT MODESTO, CA--Continued

WATER TEMPERATURE (°C)												
DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.0	10.0	10.5	8.0	8.0	8.0	13.0	11.0	12.0	15.5	15.0	15.0
2	12.5	10.5	11.5	9.0	8.0	8.5	13.5	11.0	12.0	16.5	14.0	15.0
3	13.5	12.0	12.5	9.0	8.5	9.0	13.5	10.0	11.5	17.0	15.5	16.0
4	12.5	12.0	12.5	9.5	9.0	9.5	13.5	9.5	11.0	17.5	16.0	16.5
5	13.0	12.5	12.5	10.5	9.5	10.0	13.5	9.5	11.0	17.5	16.0	17.0
6	12.5	12.0	12.5	10.0	9.5	9.5	13.5	9.5	11.0	17.5	16.0	17.0
7	13.0	11.5	12.0	10.5	9.5	10.0	14.0	10.0	11.5	18.0	16.0	17.0
8	11.5	11.5	11.5	10.5	10.0	10.5	14.0	10.0	11.5	18.0	16.5	17.0
9	13.0	11.5	12.0	11.0	10.0	10.5	14.5	10.5	12.0	18.0	16.5	17.0
10	13.5	11.5	12.5	11.5	11.0	11.0	15.0	11.5	13.0	17.0	15.5	16.5
11	12.5	10.5	11.5	12.5	11.0	11.5	15.5	11.5	13.0	16.5	15.0	15.5
12	11.5	9.5	10.5	11.5	10.0	11.0	16.0	11.5	13.5	16.5	15.0	15.5
13	10.5	8.5	9.0	10.5	9.5	10.0	16.0	12.0	13.5	17.0	15.0	16.0
14	9.5	8.0	8.5	10.5	9.5	10.0	16.0	12.0	13.5	17.0	15.0	16.0
15	8.0	8.0	8.0	10.5	9.5	10.0	16.0	12.0	13.5	17.0	15.5	16.0
16	9.5	8.0	8.5	10.0	9.0	9.5	15.5	11.5	13.0	17.0	15.5	16.0
17	11.0	9.5	10.0	9.5	8.5	9.0	15.0	10.5	12.5	17.5	15.5	16.5
18	10.5	9.5	10.0	8.5	7.5	7.5	---	---	e12.5	17.5	16.0	17.0
19	11.5	10.0	10.5	8.0	7.0	7.5	14.0	12.0	13.0	18.0	16.5	17.5
20	11.0	10.0	10.5	8.5	7.5	8.0	14.0	12.0	13.0	19.0	17.0	18.0
21	11.5	10.5	11.0	9.0	8.0	8.5	14.0	12.5	13.0	18.5	17.5	18.0
22	11.5	11.0	11.5	10.5	8.0	9.0	14.0	12.5	13.0	19.0	17.5	18.0
23	11.0	9.5	10.5	11.5	8.5	9.5	14.5	12.5	13.5	19.0	17.5	18.5
24	10.0	9.0	9.5	13.5	9.0	10.5	15.0	13.0	14.0	18.5	17.5	18.0
25	10.0	8.0	9.0	12.5	9.5	10.5	15.0	13.5	14.0	19.0	17.5	18.0
26	8.5	7.5	8.0	12.0	9.5	10.5	15.0	14.0	14.5	19.5	18.0	18.5
27	8.0	7.0	7.5	12.5	10.0	11.0	15.5	14.5	15.0	19.0	18.0	18.5
28	8.0	7.5	8.0	12.5	10.5	11.5	16.0	14.5	15.0	18.0	16.5	17.5
29	8.0	7.5	8.0	14.0	11.5	12.5	15.5	15.0	15.5	18.5	17.0	17.5
30	9.0	8.0	8.0	14.0	11.5	12.5	---	---	---	18.0	17.0	18.0
31	8.5	8.0	8.0	14.0	11.0	12.0	---	---	---	18.0	16.5	17.5
MONTH	13.5	7.0	10.2	14.0	7.0	10.0	---	---	e12.9	19.5	14.0	17.0
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	17.0	17.5	18.5	16.5	17.5	24.0	21.5	23.0	28.5	26.0	27.5
2	19.0	17.5	18.0	19.5	17.0	18.0	25.0	22.5	23.5	29.0	27.0	28.0
3	19.0	17.5	18.5	20.0	18.0	19.0	25.0	23.0	24.0	29.0	27.5	28.5
4	19.0	18.0	18.5	19.5	18.0	19.0	24.5	22.0	23.5	28.5	26.0	27.5
5	19.5	18.0	18.5	19.0	17.5	18.0	24.0	21.5	23.0	27.5	25.5	26.5
6	19.5	18.5	19.0	18.0	17.0	17.5	23.0	21.5	22.5	27.5	25.5	26.5
7	20.0	18.5	19.5	18.5	17.5	18.0	23.0	21.0	22.0	28.5	26.0	27.0
8	19.5	18.5	19.0	19.5	17.0	18.0	23.5	21.0	22.0	28.0	26.5	27.0
9	20.0	18.0	19.0	20.5	18.0	19.0	24.5	22.0	23.0	28.5	26.5	27.5
10	20.5	18.5	19.5	22.0	19.0	20.0	25.5	22.5	24.0	29.0	27.0	28.0
11	21.5	19.5	20.5	23.0	20.0	21.5	25.5	23.0	24.5	29.0	27.0	28.0
12	21.0	20.0	20.5	23.0	21.0	22.0	26.0	23.0	24.5	28.5	26.5	27.5
13	20.5	19.5	20.0	22.5	20.5	21.5	26.5	24.0	25.0	28.0	26.5	27.5
14	19.5	18.0	19.0	23.0	20.5	21.5	27.0	25.0	26.0	28.0	26.5	27.0
15	18.0	16.0	17.0	23.5	21.0	22.5	27.0	25.0	26.0	28.0	26.0	27.0
16	16.0	15.5	15.5	23.0	21.0	21.5	27.0	25.0	26.0	28.0	26.5	27.0
17	16.5	15.0	16.0	22.0	19.0	20.5	27.5	25.0	26.0	29.0	27.0	28.0
18	17.5	16.0	17.0	22.5	19.0	21.0	28.0	25.5	26.5	29.0	27.5	28.5
19	17.5	17.0	17.0	23.5	20.0	21.5	29.0	26.5	28.0	29.0	27.5	28.5
20	17.5	15.5	17.0	25.0	21.0	23.0	29.0	26.5	27.5	29.0	28.0	28.5
21	18.5	16.5	17.5	26.0	22.5	24.0	28.0	26.0	27.0	29.5	28.0	28.5
22	18.0	17.0	17.5	25.5	22.5	24.0	28.0	26.0	27.0	29.5	28.0	29.0
23	17.5	16.5	17.0	26.0	23.0	24.5	28.0	26.5	27.5	29.5	28.5	29.0
24	17.5	16.5	17.0	25.5	23.0	24.5	28.5	26.5	27.5	29.5	28.0	29.0
25	17.0	16.0	16.5	25.5	22.5	24.0	28.5	26.5	27.5	30.0	28.0	29.0
26	17.5	16.5	17.0	24.5	22.5	23.5	28.5	26.5	27.5	30.0	28.5	29.5
27	18.0	17.0	17.5	24.5	21.5	23.0	28.0	26.0	27.0	30.5	28.5	29.5
28	18.5	17.5	18.0	24.0	22.0	23.0	28.0	26.0	27.0	30.5	28.5	29.5
29	19.5	17.5	18.5	23.0	20.5	21.5	27.5	25.0	26.5	30.5	28.5	29.5
30	19.0	17.5	18.0	22.5	20.0	21.5	28.0	25.0	26.5	30.5	29.0	30.0
31	---	---	---	23.0	20.5	22.0	---	---	---	30.0	28.5	29.5
MONTH	21.5	15.0	18.0	26.0	16.5	21.2	29.0	21.0	25.4	30.5	25.5	28.2

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued***11290000 TUOLUMNE RIVER AT MODESTO, CA--Continued****WATER TEMPERATURE (°C)**

AUGUST 1988				SEPTEMBER 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	30.0	28.0	29.0	29.0	27.5	28.5
2	30.0	28.5	29.0	29.0	27.5	28.0
3	29.5	28.0	29.0	29.0	27.0	28.0
4	29.5	28.0	28.5	30.0	27.5	28.5
5	29.0	27.5	28.5	29.5	28.0	29.0
6	29.0	27.0	28.0	29.0	27.5	28.5
7	29.0	27.0	28.0	28.5	27.0	27.5
8	29.0	27.0	28.0	28.0	26.5	27.0
9	29.0	27.5	28.5	27.5	26.0	26.5
10	29.0	27.5	28.5	26.5	25.5	26.0
11	29.0	27.5	28.0	26.5	25.5	26.0
12	28.5	27.0	27.5	26.0	24.5	25.5
13	28.0	26.0	27.0	25.5	24.0	25.0
14	27.5	26.0	26.5	25.5	24.0	25.0
15	27.0	25.5	26.5	25.5	24.0	25.0
16	27.5	26.0	26.5	25.5	24.0	24.5
17	28.0	25.5	27.0	25.0	23.5	24.5
18	28.5	26.5	27.5	24.5	23.0	24.0
19	29.0	26.0	27.5	24.0	22.5	23.5
20	29.0	27.0	28.0	24.0	22.5	23.0
21	28.5	27.0	27.5	23.5	22.0	23.0
22	28.0	26.5	27.5	24.0	22.5	23.0
23	28.0	26.5	27.5	24.0	22.5	23.5
24	28.5	26.5	27.5	24.0	22.5	23.5
25	30.0	27.0	28.5	24.0	22.5	23.0
26	30.5	28.0	29.5	23.5	22.0	23.0
27	30.5	28.5	29.5	24.0	22.5	23.0
28	30.0	28.5	29.0	---	---	e23.5
29	29.5	27.5	28.5	25.5	22.5	24.0
30	29.5	27.5	28.5	25.5	23.0	24.5
31	29.5	27.5	28.5	---	---	---
MONTH	30.5	25.5	28.0	---	---	e25.2

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11290500 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE, NEAR MODESTO, CA

LOCATION.--Lat 37°38'24", long 121°13'42", in NW 1/4 SW 1/4 sec. 29, T.3 S., R.7 E., Merced County, Hydrologic Unit 18040002, on north side of bridge on Maze Road, 11 mi west of Modesto, on State Highway 132.

DRAINAGE AREA.--12,400 mi², approximately.

PERIOD OF RECORD.--July 1985 to September 1988.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1985 to September 1988.

WATER TEMPERATURES: October 1985 to September 1988.

INSTRUMENTATION.--Minimonitor recorder since October 1985.

REMARKS.--Periods when maximums and/or minimums were not recorded were due to equipment malfunction.

COOPERATION.--Water-discharge records provided by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,730 microsiemens, April 29, 1988; minimum daily, 83 microsiemens, April 8, 1987

WATER TEMPERATURE: Maximum recorded, 30.0 °C, July 18, 26, and 29, 1988; minimum recorded, 5.5 °C, Dec. 25, 26, 1987.

WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS, TOTAL (MG/L AS CaCO ₃)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO ₃	CALCIUM, DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)
APR 1987												
23...	0930	1400	748	8.0	19.0	765	7.8	170	68	37	20	89
MAY												
19...	1030	1320	950	8.1	21.0	765	7.7	220	85	48	24	110
JUN												
17...	1630	1250	1170	8.2	22.0	760	8.7	270	110	60	30	140
JUL												
20...	1615	1070	1100	8.3	24.0	755	8.5	260	100	56	28	130
AUG												
17...	1045	1100	1050	8.2	23.0	760	8.6	240	84	55	25	120
SEP												
21...	1045	1200	975	8.0	20.5	760	8.2	230	78	49	25	120
OCT												
22...	0745	962	921	7.6	18.0	760	7.7	210	67	43	24	110
NOV												
19...	0945	1260	1060	7.9	13.0	770	9.0	220	84	48	25	120
DEC												
17...	0830	1070	1150	7.9	7.5	755	10.6	260	110	54	30	150
JAN 1988												
22...	1100	1690	1220	7.8	8.5	770	9.2	250	91	53	28	150
FEB												
19...	0800	1010	1530	8.0	10.0	760	9.6	330	160	73	37	190
MAR												
16...	0800	1340	1350	7.8	13.0	760	9.0	310	150	69	33	160
APR												
21...	0745	1720	1100	7.7	15.0	755	8.8	250	110	54	27	130
MAY												
19...	1330	866	1320	8.1	22.0	760	9.7	290	120	59	34	150
JUN												
24...	0815	886	1340	7.7	23.5	755	6.6	320	130	69	36	170
JUL												
18...	1000	570	1500	7.9	27.0	760	7.5	330	150	69	38	180
AUG												
26...	1000	840	1350	7.7	25.0	755	6.7	300	130	64	34	170
SEP												
28...	1445	680	1420	8.1	21.5	765	10.2	330	130	68	38	180

Table 1. Water-quality records at continuing-record sites--*Continued*

11290500 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE, NEAR MODESTO, CA--*Continued*

WATER QUALITY DATA												
DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L AS CAC03)	SULFATE, DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 °C, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)
APR 1987												
23...	52	3	3.1	107	110	100	0.1	16	443	1670	0.60	1.8
MAY												
19...	52	3	3.4	134	150	140	0.2	18	569	2030	0.77	2.5
JUN												
17...	52	4	3.8	164	170	170	0.2	20	726	2450	0.99	3.4
JUL												
20...	52	4	3.7	155	170	160	0.2	21	687	1980	0.93	3.1
AUG												
17...	52	3	4.2	157	160	170	0.2	20	668	1980	0.91	2.5
SEP												
21...	53	4	4.2	148	130	130	0.2	21	600	1940	0.82	2.3
OCT												
22...	53	3	3.4	139	110	140	0.2	21	536	1390	0.73	1.7
NOV												
19...	53	4	6.1	139	160	160	0.2	20	619	2110	0.84	1.8
DEC												
17...	55	4	4.8	149	160	180	0.2	20	721	2080	0.98	2.1
JAN 1988												
22...	56	4	7.9	157	200	160	0.2	17	734	3350	1.00	3.1
FEB												
19...	55	5	5.5	171	280	210	0.2	21	956	2610	1.30	3.7
MAR												
16...	53	4	4.5	161	240	190	0.2	22	842	3050	1.15	4.2
APR												
21...	53	4	5.2	141	170	150	0.2	19	668	3100	0.91	3.0
MAY												
19...	53	4	3.9	166	180	200	0.3	21	791	1850	1.08	2.8
JUN												
24...	53	4	4.6	191	230	200	0.4	21	856	2050	1.16	3.5
JUL												
18...	54	4	4.2	184	250	230	0.2	18	954	1470	1.30	3.7
AUG												
26...	55	4	4.1	167	190	200	0.2	22	815	1850	1.11	2.5
SEP												
28...	54	4	4.4	194	190	230	0.2	23	865	1590	1.18	2.5

Table 1. Water-quality records at continuing-record sites--Continued

11290500 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE, NEAR MODESTO, CA--Continued

WATER QUALITY DATA												
DATE	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC, TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC, TOTAL (MG/L AS C)	CHLOR-A PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	SED. SUSP., SIEVE DIAM. % FINER THAN 0.062 MM	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
APR 1987												
23...	0.06	0.08	0.80	0.30	0.17	0.14	3.9	8.5	0.60	97	125	472
MAY												
19...	0.02	0.03	2.1	0.42	0.19	0.18	7.6	44	1.9	95	180	642
JUN												
17...	0.04	0.05	2.0	0.29	0.20	0.19	8.9	38	1.8	84	568	1920
JUL												
20...	0.11	0.14	0.40	0.41	0.19	0.16	11	43	1.0	98	192	555
AUG												
17...	<0.01	--	1.3	0.35	0.19	0.16	7.0	15	0.50	98	193	573
SEP												
21...	0.01	0.01	1.3	0.30	0.23	0.17	6.1	36	2.7	91	66	214
OCT												
22...	0.03	0.04	0.30	0.18	0.13	0.13	4.3	6.4	0.40	92	51	132
NOV												
19...	0.16	0.21	0.80	0.19	0.18	0.17	4.4	--	--	84	62	211
DEC												
17...	0.28	0.36	5.5	0.30	0.25	0.19	4.9	4.6	1.1	93	22	64
JAN 1988												
22...	0.54	0.70	1.4	0.56	0.48	0.44	9.4	22	2.6	85	103	470
FEB												
19...	0.18	0.23	1.0	0.45	0.32	0.29	41	6.3	1.4	98	47	128
MAR												
16...	0.14	0.18	1.3	0.29	0.25	0.25	6.9	7.0	0.80	75	113	409
APR												
21...	0.43	0.55	1.7	0.48	0.41	0.35	8.2	16	0.80	91	127	590
MAY												
19...	0.13	0.17	0.60	0.33	0.30	0.24	6.2	26	1.4	97	87	203
JUN												
24...	0.06	0.08	0.90	0.33	0.28	0.25	8.9	20	1.2	90	222	531
JUL												
18...	<0.01	--	1.9	0.39	0.23	0.21	8.8	81	2.5	94	223	343
AUG												
26...	0.02	0.03	0.70	0.26	0.22	0.19	7.8	27	1.5	95	131	411
SEP												
28...	<0.01	--	0.60	0.33	0.18	0.18	5.9	31	1.5	90	87	160

Table 1. Water-quality records at continuing-record sites--Continued

11290500 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE, NEAR MODESTO, CA--Continued

WATER QUALITY DATA									
DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, TOTAL (UG/L AS AS)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
APR 1987									
23...	2000	<10	3	3	420	410	6	5	<1
MAY									
19...	3900	20	4	3	590	550	--	11	2
JUN									
17...	8800	10	3	4	920	760	21	21	3
JUL									
20...	550	<10	4	4	740	690	19	12	3
AUG									
17...	5300	<10	4	--	660	690	<1	10	2
SEP									
21...	1600	<10	3	4	600	560	10	7	<1
OCT									
22...	1200	<10	3	2	410	390	6	6	<1
NOV									
19...	1400	<10	3	2	600	600	4	7	<1
DEC									
17...	680	<10	2	2	620	640	4	3	<1
JAN 1988									
22...	2200	40	4	3	880	830	7	8	<1
FEB									
19...	1400	<10	3	2	1100	1100	6	5	2
MAR									
16...	2000	<10	3	2	910	950	8	6	2
APR									
21...	3000	10	4	3	670	710	10	9	2
MAY									
19...	2100	<10	3	3	740	760	7	6	1
JUN									
24...	6800	<10	5	4	960	980	16	14	1
JUL									
18...	7000	70	--	3	1000	1100	19	15	2
AUG									
26...	4700	30	5	4	850	840	12	13	1
SEP									
28...	2300	<10	4	3	630	750	6	7	2

Table 1. Water-quality records at continuing-record sites--*Continued*

11290500 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE, NEAR MODESTO, CA--*Continued*

WATER QUALITY DATA									
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM, TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY, DIS- SOLVED (UG/L AS HG)
APR 1987									
23...	3100	19	<5	10	--	180	27	0.2	<0.1
MAY									
19...	5000	17	<5	20	17	280	12	0.1	0.1
JUN									
17...	8200	10	<5	30	23	550	70	<0.1	<0.1
JUL									
20...	4300	5	<5	30	27	300	20	0.1	--
AUG									
17...	6000	12	<5	20	19	--	21	<0.1	<0.1
SEP									
21...	2400	17	5	20	15	170	22	<0.1	<0.1
OCT									
22...	1900	11	11	10	9	140	26	<0.1	<0.1
NOV									
19...	2200	12	15	10	9	140	34	<0.1	<0.1
DEC									
17...	1200	14	<5	20	15	110	71	<0.1	<0.1
JAN 1988									
22...	3500	8	<5	20	18	--	53	<0.1	<0.1
FEB									
19...	2200	6	<5	20	27	160	67	<0.1	<0.1
MAR									
16...	3200	4	<5	30	30	200	35	<0.1	<0.1
APR									
21...	4500	16	<5	20	16	230	33	<0.1	<0.1
MAY									
19...	2900	5	<5	20	17	190	68	<0.1	<0.1
JUN									
24...	8700	9	6	30	23	390	32	<0.1	<0.1
JUL									
18...	8900	11	9	30	25	410	30	<0.1	<0.1
AUG									
26...	5900	12	<5	30	23	310	28	<0.1	<0.1
SEP									
28...	2800	7	<5	20	21	170	48	<0.1	<0.1

Table 1. Water-quality records at continuing-record sites--Continued

11290500 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE, NEAR MODESTO, CA--Continued

WATER QUALITY DATA								
DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 1987								
23...	--	8	6	2	2	2	<10	6
MAY								
19...	--	<1	13	<1	<1	2	<10	5
JUN								
17...	<5	<1	29	<1	3	3	30	13
JUL								
20...	<2	2	23	<1	2	3	<10	<3
AUG								
17...	5	3	12	3	4	3	20	<3
SEP								
21...	3	4	4	1	2	2	<10	9
OCT								
22...	2	<1	4	<1	1	1	10	6
NOV								
19...	4	3	6	<1	2	2	<10	4
DEC								
17...	4	5	3	1	2	2	<10	<3
JAN 1988								
22...	8	3	5	<1	3	3	10	5
FEB								
19...	6	7	8	1	7	7	20	4
MAR								
16...	4	5	12	8	5	6	30	3
APR								
21...	4	5	18	2	4	5	20	<3
MAY								
19...	7	4	9	2	3	3	10	<3
JUN								
24...	9	5	20	6	5	5	40	6
JUL								
18...	10	7	28	3	4	4	30	8
AUG								
26...	8	4	17	2	5	4	20	14
SEP								
28...	8	4	8	1	3	3	20	6

Table 1. Water-quality records at continuing-record sites--Continued

11290500 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE, NEAR MODESTO, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e1200	690	654	669	893	872	880	1100	1060	1070
2	---	---	e1240	732	664	686	920	887	897	1090	1050	1060
3	---	---	e1250	796	730	754	1010	925	963	1110	---	e1070
4	---	---	e1200	815	774	785	1030	995	1020	1110	---	e1070
5	---	---	e1250	844	816	828	1050	988	1020	1110	---	e1070
6	---	---	e1160	867	834	847	1070	---	e1020	1100	---	e1070
7	---	---	e1070	930	870	906	1070	---	e1030	1110	---	e1070
8	---	---	e1070	965	930	944	1050	1010	1030	1110	---	e1070
9	1070	1020	1060	960	917	942	1050	1000	1020	1110	---	e1080
10	1070	1010	1040	929	865	896	1020	969	1000	---	---	e1070
11	1050	994	1020	902	849	868	1050	999	1020	---	---	e1070
12	1010	939	970	920	899	910	1090	---	e1040	1100	---	e1070
13	988	943	961	953	894	935	1100	---	e1050	1110	---	e1070
14	972	910	937	936	877	898	1100	---	e1050	1100	---	e1070
15	974	930	952	911	889	897	---	---	e1050	1080	1040	1060
16	971	893	920	949	910	925	1100	---	e1050	1100	1070	1090
17	932	900	918	964	913	941	---	---	e1050	1100	---	e1090
18	940	903	925	924	897	913	---	---	e1050	---	---	e1090
19	924	863	903	---	---	e888	---	---	e1050	1110	---	e1090
20	861	802	837	903	863	882	1110	---	e1050	---	1050	e1100
21	849	764	799	879	855	867	1110	---	e1050	1140	1090	1120
22	778	738	753	875	821	845	1110	---	e1050	1100	1070	1080
23	763	716	742	868	825	842	---	---	e1050	1130	1090	1110
24	744	715	721	875	839	856	1110	---	e1050	1110	1030	1070
25	749	692	729	881	824	840	1110	---	e1050	1050	1000	1030
26	694	653	673	864	846	855	1110	---	e1050	1040	970	992
27	703	655	668	857	842	849	1110	---	e1060	1040	978	1010
28	726	703	712	883	844	857	1110	---	e1060	1050	986	1010
29	729	705	715	892	873	884	1110	---	e1060	1040	1010	1030
30	730	690	710	905	873	884	1100	---	e1070	1060	1030	1050
31	---	---	---	905	878	894	---	---	---	1110	1050	1080
MONTH	---	---	e937	---	---	e864	---	---	e1030	---	---	e1070
AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1120	1090	1100	1080	1030	1050	---	---	e1000	1170	1140	1150
2	1120	1060	1090	1080	1020	1050	1110	---	e1020	1180	1150	1170
3	1090	1060	1070	1060	1020	1040	1090	---	e990	1200	1180	1190
4	1080	1030	1060	1060	1020	1040	---	---	e1000	1220	1190	1200
5	1120	1060	1090	1060	1030	1050	1090	---	e990	1220	1200	1210
6	1060	1010	1040	1050	975	1020	1040	---	e1000	1210	1200	1200
7	1090	1040	1060	1020	975	994	1060	---	e1000	1210	1190	1200
8	1120	1050	1090	986	936	968	1270	---	e1090	1210	1180	1200
9	1080	1020	1060	987	916	942	1110	---	e1080	1190	1170	1180
10	1100	962	1050	1030	977	994	---	---	e1030	1190	1150	1170
11	1050	1000	1020	1080	988	1020	992	871	933	1170	1150	1160
12	1040	979	1010	1170	1080	1140	1040	---	e955	1170	1160	1160
13	1050	926	1020	1170	1070	1110	933	863	909	---	---	e1150
14	1020	975	998	1090	990	1030	913	854	884	---	---	e1140
15	1080	1020	1050	991	---	e1020	904	825	869	---	---	e1130
16	1070	1020	1050	1020	961	993	906	845	879	1140	1100	1130
17	1080	1040	1060	1030	1000	1020	926	866	899	1120	1090	1100
18	1050	1000	1020	1050	943	1020	917	837	888	1090	1050	1060
19	1050	1000	1030	1030	974	993	938	867	904	1080	1050	1070
20	1060	1000	1030	1030	1020	1030	949	609	916	1090	1060	1070
21	1020	993	1010	1030	965	1000	960	699	930	1110	1090	1100
22	1090	924	1050	1020	975	997	1170	910	1050	1110	1090	1100
23	1110	1050	1080	1030	---	e1000	1180	1160	1170	1120	1110	1120
24	1070	1000	1030	1210	987	1020	1210	1160	1180	1110	1080	1110
25	1000	946	977	1060	---	e1000	1190	1160	1170	1120	1090	1110
26	997	956	979	1040	809	1010	1170	1140	1150	1150	1110	1130
27	1030	987	1010	1070	---	e990	1210	1150	1180	1160	1130	1150
28	1040	1010	1020	1030	981	983	1200	1170	1180	1170	1130	1140
29	1060	1030	1040	981	---	e950	1210	1200	1200	1150	1110	1130
30	1050	1010	1030	972	---	e960	1210	1160	1190	1110	1070	1090
31	1040	1010	1020	---	---	---	1180	1140	1170	---	---	---
MONTH	1120	924	1040	1210	---	e1010	---	---	e1030	---	---	e1140

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued*

11290500 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE, NEAR MODESTO, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1080	1040	1060	1190	1160	1180	1460	1410	1430	1430	1350	1400
2	1070	1050	1060	1180	1130	1160	1450	1430	1440	1360	---	e1340
3	1120	1060	1090	1180	1120	1150	1460	1140	1430	1380	---	e1350
4	1150	1120	1130	1230	1180	1190	1430	---	e1430	1400	1300	1360
5	1160	1090	1120	1240	1210	1230	1450	1430	1440	1390	1170	1350
6	1160	1120	1140	1250	1220	1240	1470	1430	1450	1420	1390	1410
7	1160	1140	1150	1260	1200	1220	1440	1420	1430	1420	1270	1400
8	1160	1150	1160	1260	1190	1220	1470	1400	1420	1410	1370	1400
9	1140	1110	1120	1210	1170	1190	1470	1390	1450	1410	1370	1390
10	1140	1120	1130	---	---	e1180	1470	1380	1450	1390	1190	1330
11	1140	1120	1130	---	---	e1160	1470	1180	1440	1390	1230	1340
12	1160	1140	1140	---	---	e1150	1450	---	e1430	1410	1290	1380
13	1170	1140	1150	---	---	e1130	1490	1400	1450	1440	1370	1420
14	1180	1150	1170	---	---	e1110	1490	1420	1460	1450	1360	1400
15	1190	1170	1190	---	---	e1100	1470	1200	1440	1400	1370	1380
16	1190	1160	1170	---	---	e1090	1510	1440	1480	1370	1340	1350
17	1160	1120	1140	---	---	e1080	1570	1460	1540	1520	1370	1470
18	1200	1150	1180	---	---	e1070	1560	1490	1520	1550	---	e1490
19	1240	1200	1220	1100	1030	1060	1540	1510	1520	1510	1460	1480
20	1290	1240	1260	1180	1110	1140	1560	1540	1550	1530	---	e1470
21	1290	1230	1260	1190	1140	1170	1550	1530	1540	1500	1420	1480
22	1240	1220	1230	1280	1190	1230	1570	1140	1540	1510	---	e1480
23	1230	1210	1230	1310	1280	1300	1600	1560	1580	1550	---	e1490
24	1220	1200	1210	1370	1300	1340	1560	1520	1540	1580	---	e1500
25	1220	1200	1210	1440	1370	1400	1560	1490	1530	1520	---	e1510
26	1230	1200	1210	1440	1290	1420	1540	1480	1520	1560	1500	1530
27	1220	1190	1210	1420	1390	1400	1490	1390	1470	1590	1490	1520
28	1210	1150	1190	1450	1410	1440	1480	1450	1450	1590	---	e1480
29	1170	1120	1150	1430	1400	1420	1480	---	e1450	1510	1080	1450
30	1150	1110	1130	1440	1370	1400	---	---	---	1540	1060	1500
31	1160	1120	1140	1420	1410	1410	---	---	---	1600	---	e1490
MONTH	1290	1040	1160	---	---	e1230	1600	---	e1480	1600	---	e1430
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1610	880	1520	1370	639	1200	---	---	e1160	---	1200	e1410
2	1620	1560	1590	1420	1040	1390	---	---	e1170	1420	---	e1380
3	1560	---	e1450	1510	677	1400	---	---	e1190	1470	1270	1400
4	1460	880	1400	1450	956	1400	---	---	e1210	1480	1390	1430
5	1460	---	e1320	1430	905	1330	---	---	e1280	1390	1350	1360
6	1410	810	1340	1370	1130	1350	---	---	e1280	1380	1320	1350
7	1370	---	e1290	1420	---	e1340	---	---	e1250	1390	1060	1340
8	1320	---	e1290	1440	---	e1340	---	---	e1200	1400	1240	1380
9	1330	1030	1290	1370	1150	1330	---	---	e1200	---	---	e1420
10	1360	1280	1310	---	---	e1290	---	---	e1260	1510	934	1450
11	1370	1140	1320	1330	1210	1290	---	---	e1290	1490	1040	1390
12	1360	1260	1340	1350	---	e1290	---	---	e1360	1570	1260	1510
13	1320	1080	1240	1360	---	e1300	---	---	e1360	---	1390	e1630
14	1100	---	e950	1380	926	1320	---	---	e1370	1580	1540	1570
15	990	---	e900	1380	---	e1360	---	---	e1370	1560	1480	1540
16	980	---	e899	1390	1340	1370	---	---	e1390	1560	---	e1550
17	1030	---	e950	1420	1300	1360	---	---	e1480	1560	---	e1500
18	1660	---	e946	1520	---	e1370	---	---	e1400	1530	1450	1500
19	1100	780	1070	---	---	e1390	---	---	e1400	1580	1540	1560
20	1080	---	e1060	---	---	e1350	---	---	e1300	1530	1480	1510
21	1180	1060	1130	---	---	e1380	---	---	e1300	1550	1460	1500
22	1250	989	1180	---	---	e1280	---	---	e1360	1610	1550	1580
23	1250	---	e1190	---	---	e1260	---	---	e1340	1580	1180	1460
24	1120	---	e1010	---	---	e1220	---	---	e1370	1520	1410	1450
25	1050	---	e988	---	---	e1220	1450	1210	1410	1490	1440	1460
26	1050	845	1010	---	---	e1270	1430	1390	1410	1480	1400	1440
27	1000	783	965	---	---	e1400	1440	1220	1400	1450	1320	1380
28	1480	---	e991	---	---	e1430	1470	1060	1410	1450	1040	1390
29	1730	---	e1090	---	---	e1430	1400	---	e1390	1470	1100	1420
30	1310	---	e1100	---	---	e1350	1400	---	e1390	1520	1430	1480
31	---	---	---	---	---	e1290	---	---	---	1540	1490	1520
MONTH	1730	---	e1170	---	---	e1330	---	---	e1320	---	---	e1460

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued*

11290500 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE, NEAR MODESTO, CA--*Continued*

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1490	1380	1450	---	---	e1460
2	1510	1470	1490	---	---	e1570
3	1470	1340	1430	---	---	e1550
4	1490	1390	1420	---	---	e1590
5	1430	1370	1410	---	---	e1550
6	1460	1390	1420	---	---	e1410
7	1420	1350	1380	---	---	e1450
8	1380	1350	1370	---	---	e1520
9	1390	1330	1370	---	---	e1580
10	1400	1350	1370	---	---	e1600
11	1400	1350	1390	---	---	e1600
12	1460	1360	1390	---	---	e1600
13	1450	1420	1430	---	---	e1500
14	1450	1420	1430	---	---	e1420
15	1570	1400	1430	---	---	e1410
16	1440	1360	1380	---	---	e1430
17	1420	1320	1360	---	---	e1420
18	1460	1350	1380	---	---	e1420
19	1430	1350	1380	---	---	e1410
20	1420	1330	1380	---	---	e1400
21	1380	1340	1360	---	---	e1420
22	1360	1320	1350	---	---	e1410
23	1420	---	e1340	---	---	e1400
24	1460	1320	1340	---	---	e1400
25	1470	1340	1370	---	---	e1350
26	---	---	e1380	---	---	e1300
27	---	---	e1390	---	---	e1280
28	---	---	e1390	---	---	e1270
29	---	---	e1450	1280	1250	1260
30	---	---	e1440	1300	---	e1240
31	---	---	e1430	---	---	---
MONTH	---	---	e1400	---	---	e1440

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued***11290500 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE, NEAR MODESTO, CA--Continued****WATER TEMPERATURE (°C)**

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	17.5	18.5	19.0	18.0	18.5	22.0	20.0	21.0	24.5	22.0	23.5
2	19.0	18.0	18.5	19.0	17.0	18.0	24.0	21.0	22.5	24.5	21.5	23.0
3	19.0	17.5	18.5	20.5	17.5	19.0	25.0	22.5	24.0	24.0	21.5	23.0
4	18.5	17.0	18.0	22.0	19.5	21.0	25.0	23.0	24.0	25.0	22.0	23.5
5	18.5	17.0	17.5	24.0	21.0	22.5	23.5	22.0	23.0	25.0	22.5	24.0
6	19.0	17.0	18.0	25.0	22.5	24.0	23.0	21.5	22.0	26.0	23.0	24.5
7	19.5	17.5	18.5	25.5	23.0	24.5	24.5	21.0	22.5	26.5	24.0	25.0
8	20.0	18.0	19.0	24.5	23.5	24.0	24.5	22.5	23.5	26.5	24.0	25.5
9	20.5	18.5	19.5	25.5	23.0	24.5	25.0	22.5	24.0	27.0	25.0	26.0
10	20.5	19.0	19.5	25.5	24.0	25.0	25.0	22.5	24.0	27.0	25.0	26.0
11	19.5	18.5	19.0	25.5	23.5	24.5	25.0	22.5	24.0	27.5	24.5	26.0
12	19.0	17.0	18.0	25.5	23.5	25.0	26.0	22.5	24.5	27.0	24.5	26.0
13	19.5	17.0	18.5	25.5	23.5	24.5	26.0	24.0	25.0	27.5	24.5	26.0
14	20.5	18.5	19.5	26.0	23.5	25.0	25.0	23.0	24.5	28.5	25.5	27.0
15	21.5	19.0	20.5	26.0	24.5	25.5	24.0	22.0	23.0	28.0	25.5	27.0
16	22.0	20.0	21.0	26.0	24.0	25.0	23.5	21.0	22.5	28.0	25.5	27.0
17	21.5	20.0	21.0	24.0	22.5	23.0	23.0	21.0	22.0	27.0	24.0	25.0
18	20.0	18.5	19.0	23.0	21.0	22.0	23.5	20.5	22.0	24.5	22.0	23.5
19	18.5	16.5	17.5	---	---	e21.5	24.0	21.0	22.5	24.0	21.5	23.0
20	19.5	16.5	18.0	22.0	20.0	21.0	23.5	21.0	22.5	24.0	22.0	22.5
21	20.5	18.0	19.0	22.0	19.5	21.0	23.0	21.0	22.0	22.5	20.5	21.5
22	21.0	19.0	20.0	22.0	19.5	21.0	23.5	21.0	22.0	23.0	20.0	21.5
23	20.0	19.0	19.5	22.0	20.0	21.0	24.5	21.5	23.0	23.0	20.5	22.0
24	20.0	18.0	19.0	21.5	19.5	20.5	25.5	22.5	24.0	23.0	20.5	22.0
25	20.5	18.5	19.5	21.0	19.0	20.0	26.5	23.5	25.0	23.5	21.0	22.0
26	21.0	19.0	20.0	21.0	19.0	20.0	26.5	24.0	25.5	23.0	20.5	22.0
27	22.0	19.5	20.5	21.5	19.0	20.0	25.5	23.5	24.5	23.0	20.5	22.0
28	21.5	20.0	21.0	22.0	19.5	21.0	25.5	23.0	24.0	23.0	20.5	22.0
29	21.0	19.0	20.0	22.0	20.0	21.0	25.0	22.5	24.0	23.0	20.5	22.0
30	20.0	19.0	19.5	22.0	19.5	20.5	24.5	22.5	24.0	23.0	20.0	21.5
31	---	---	---	22.0	19.5	21.0	---	---	---	24.0	20.5	22.5
MONTH	22.0	16.5	19.2	---	---	e22.1	26.5	20.0	23.4	28.5	20.0	23.8
AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	25.5	22.0	23.5	25.5	23.5	24.5	23.0	21.0	22.0	17.0	16.0	17.0
2	26.0	23.5	24.5	26.0	23.5	25.0	23.0	21.0	22.0	16.5	15.5	16.0
3	26.5	24.0	25.0	25.5	24.0	25.0	23.0	21.0	22.0	16.0	15.0	15.5
4	26.0	23.5	25.0	24.5	23.0	23.5	23.0	21.0	22.5	15.5	14.5	15.0
5	26.5	24.0	25.0	23.0	21.5	22.5	23.0	21.0	22.0	15.0	14.5	15.0
6	26.0	23.5	25.0	22.5	21.0	21.5	23.0	21.0	22.0	15.5	14.5	15.0
7	26.0	24.0	25.0	22.0	20.5	21.5	22.5	20.5	22.0	16.0	14.5	15.0
8	25.5	23.5	24.5	22.5	20.5	21.5	22.0	20.0	21.0	16.0	14.5	15.5
9	25.5	23.0	24.5	22.5	21.0	22.0	21.0	19.5	20.5	16.0	15.5	15.5
10	25.0	23.0	24.0	22.0	20.0	21.0	21.0	19.0	20.0	15.5	15.0	15.0
11	24.5	22.0	23.5	21.0	19.5	20.5	21.0	19.0	20.0	15.5	14.0	15.0
12	24.0	22.0	23.5	21.0	19.0	20.0	20.5	19.0	20.0	15.0	14.5	14.5
13	24.0	22.0	23.0	21.0	19.0	20.0	20.0	18.5	19.5	---	---	e14.0
14	23.5	21.5	23.0	21.0	19.0	20.0	20.0	18.5	19.5	---	---	e13.5
15	23.5	21.0	22.5	21.0	19.0	20.0	19.5	18.5	19.0	---	---	e13.0
16	24.0	21.5	22.5	21.0	19.5	20.5	19.5	18.0	18.5	13.5	12.5	13.0
17	24.5	22.0	23.5	21.0	19.0	20.0	19.0	17.5	18.5	13.0	13.0	13.0
18	24.0	22.5	23.0	21.5	19.5	20.5	19.0	17.5	18.5	14.0	13.0	13.5
19	23.0	21.5	22.5	21.5	19.5	20.5	19.0	17.5	18.0	14.0	13.5	14.0
20	23.0	21.0	22.0	21.5	19.5	20.5	18.0	17.0	17.5	14.0	13.0	13.5
21	23.0	20.5	22.0	22.5	19.5	21.5	18.5	17.0	17.5	13.0	12.5	13.0
22	23.5	21.0	22.0	22.5	21.0	22.0	18.5	18.0	18.5	13.0	12.0	12.5
23	22.5	21.0	22.0	22.0	20.5	21.5	19.5	17.5	18.5	12.0	11.5	12.0
24	23.0	20.5	22.0	22.0	20.5	21.5	19.5	18.5	19.0	12.0	11.0	11.5
25	23.5	21.5	22.5	22.0	20.5	21.5	19.5	18.5	19.0	11.5	10.5	11.0
26	24.0	22.0	23.0	21.5	20.0	21.0	19.5	18.5	19.0	11.0	10.0	10.5
27	24.0	22.0	23.5	21.5	19.5	21.0	19.5	19.0	19.0	10.5	9.5	10.0
28	24.5	22.5	23.5	22.0	20.0	21.0	20.0	19.0	19.5	11.0	10.0	10.5
29	25.0	23.0	24.0	22.5	20.5	21.5	19.5	19.0	19.0	10.5	10.0	10.5
30	25.5	23.5	24.5	22.5	21.0	22.0	19.0	18.0	18.5	10.5	10.0	10.0
31	25.5	23.5	24.5	---	---	---	18.5	17.0	17.5	---	---	---
MONTH	26.5	20.5	23.5	26.0	19.0	21.5	23.0	17.0	19.7	---	---	e13.4

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued*

11290500 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE, NEAR MODESTO, CA--*Continued*

WATER TEMPERATURE (°C)												
DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.5	10.0	11.0	7.5	6.5	7.0	12.0	11.5	12.0	16.0	15.0	15.5
2	13.0	11.5	12.5	7.5	6.5	7.0	12.0	11.0	11.5	15.5	14.0	15.0
3	14.0	13.0	13.5	7.5	7.0	7.5	11.5	10.5	11.0	15.0	13.5	14.5
4	13.5	12.5	13.0	9.0	7.5	8.5	11.0	10.0	10.5	15.5	13.5	15.0
5	12.5	12.5	12.5	10.0	9.0	9.5	11.0	9.5	10.5	16.0	14.5	15.5
6	13.0	12.0	12.5	10.0	9.5	10.0	11.0	10.0	10.5	16.0	15.0	15.5
7	13.0	12.0	12.5	10.0	9.5	9.5	11.5	10.0	11.0	16.0	14.5	15.5
8	12.0	11.5	12.0	10.5	9.5	10.0	12.0	10.5	11.5	16.5	14.5	15.5
9	13.0	11.5	12.0	11.0	10.0	10.5	13.0	11.0	12.0	16.0	14.5	15.5
10	13.5	12.0	13.0	---	---	e10.5	13.5	12.0	13.0	14.5	12.5	13.5
11	13.0	11.0	12.0	---	---	e10.0	14.0	12.5	13.5	12.5	10.5	11.5
12	11.0	8.5	9.5	---	---	e10.0	14.5	13.0	13.5	12.5	10.5	11.5
13	8.0	7.0	7.5	---	---	e9.5	14.0	13.0	13.5	13.5	11.0	12.5
14	7.5	6.5	7.0	---	---	e9.5	14.0	12.5	13.0	14.5	12.0	13.5
15	7.0	6.5	7.0	---	---	e9.0	14.0	12.5	13.5	15.0	12.5	14.0
16	8.0	7.0	7.5	---	---	e9.0	13.5	12.5	13.0	15.0	13.0	14.0
17	9.0	7.5	8.5	---	---	e8.5	12.5	11.0	12.0	15.5	13.5	14.5
18	9.5	8.5	9.0	---	---	e8.5	12.0	11.0	11.5	16.5	14.0	15.5
19	10.0	9.0	9.5	9.0	7.5	8.5	12.5	10.5	11.5	17.5	15.0	16.0
20	10.0	9.5	9.5	8.5	7.5	8.0	13.0	11.0	12.0	18.0	16.0	17.0
21	10.0	9.5	10.0	9.0	8.0	8.5	13.5	12.0	13.0	17.5	16.0	17.0
22	10.5	9.5	10.0	9.5	8.5	9.0	14.0	12.0	13.0	17.5	16.0	16.5
23	9.5	8.0	8.5	9.5	8.5	9.0	14.5	13.0	13.5	18.0	16.0	17.0
24	7.5	6.5	7.0	10.5	9.0	9.5	14.5	13.0	14.0	17.0	15.0	16.0
25	7.0	5.5	6.0	11.0	9.5	10.0	15.0	13.5	14.0	17.5	14.5	16.0
26	7.0	5.5	6.5	11.0	10.0	10.5	16.0	14.5	15.0	18.5	16.0	17.0
27	6.5	6.0	6.5	11.5	10.0	11.0	16.5	15.5	16.0	18.0	14.0	16.0
28	7.5	6.5	7.0	12.0	11.0	11.5	17.0	15.0	16.0	14.0	12.0	13.0
29	8.0	7.5	7.5	12.5	11.5	12.0	16.5	15.5	16.0	15.5	12.5	14.0
30	8.5	7.5	8.0	13.0	12.0	12.5	---	---	---	15.0	13.0	14.0
31	8.5	7.5	8.0	12.5	11.5	12.0	---	---	---	15.0	12.0	13.5
MONTH	14.0	5.5	9.6	---	---	e9.5	17.0	9.5	12.8	18.5	10.5	14.9
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	13.5	15.0	16.0	14.0	15.0	---	---	e20.0	27.0	23.5	25.0
2	17.5	14.5	16.0	19.0	14.5	16.5	---	---	e20.5	28.5	24.5	26.5
3	17.0	15.5	16.0	19.5	17.0	18.0	---	---	e21.0	28.0	25.5	27.0
4	17.5	15.5	16.5	19.5	17.0	18.5	---	---	e21.0	26.5	24.5	25.5
5	18.5	15.5	17.0	18.0	16.0	17.0	---	---	e20.0	26.0	23.5	25.0
6	19.0	16.5	18.0	17.0	16.0	16.5	---	---	e19.5	26.5	23.0	24.5
7	19.0	17.0	18.0	17.5	16.0	16.5	---	---	e19.0	27.5	23.5	25.5
8	17.0	15.0	16.0	19.0	16.5	17.5	---	---	e19.0	27.5	24.5	26.0
9	18.5	14.5	16.5	21.0	18.0	19.5	---	---	e19.5	28.5	24.5	26.5
10	20.0	16.5	18.5	22.5	19.0	20.5	---	---	e20.0	29.0	26.0	27.5
11	21.5	18.0	20.0	24.5	21.0	22.5	---	---	e21.0	28.5	25.5	27.0
12	20.5	19.0	20.0	24.5	22.0	23.0	---	---	e21.5	27.5	24.5	26.0
13	19.5	18.0	18.5	23.0	20.5	21.5	---	---	e22.0	27.5	24.5	26.0
14	17.5	17.0	17.5	23.5	20.5	22.0	---	---	e22.5	27.5	24.5	26.0
15	17.0	15.0	16.0	25.0	21.5	23.0	---	---	e23.0	27.5	24.0	26.0
16	15.0	14.5	14.5	24.0	20.5	22.0	---	---	e23.5	28.5	25.0	26.5
17	17.0	14.0	15.5	22.0	19.5	20.5	---	---	e23.5	29.0	25.5	27.5
18	18.0	15.5	17.0	22.5	19.5	21.0	---	---	e23.5	30.0	26.5	28.0
19	17.5	16.0	17.0	---	---	e21.0	---	---	e24.5	29.0	26.0	27.5
20	17.5	14.0	16.5	---	---	e22.0	---	---	e25.0	29.0	25.5	27.5
21	17.5	15.5	16.5	---	---	e23.0	---	---	e24.0	29.0	26.0	27.5
22	16.5	15.5	16.0	---	---	e23.0	---	---	e24.0	29.0	26.0	28.0
23	17.0	15.5	16.0	---	---	e22.0	---	---	e24.0	29.0	26.0	28.0
24	17.5	15.5	16.5	---	---	e22.0	---	---	e25.0	29.0	26.0	28.0
25	18.0	16.0	17.0	---	---	e22.0	27.0	25.0	26.0	29.5	26.0	28.0
26	19.5	17.0	18.0	---	---	e21.5	27.0	24.5	26.0	30.0	26.5	28.0
27	20.0	18.0	19.0	---	---	e21.5	26.5	24.0	25.0	29.5	26.5	28.5
28	20.0	18.5	19.0	---	---	e21.0	26.0	23.5	24.5	29.5	26.0	28.0
29	20.0	18.0	19.0	---	---	e20.0	24.5	22.0	23.5	30.0	25.5	28.0
30	18.5	15.5	17.0	---	---	e19.5	25.5	22.0	23.5	29.5	26.5	28.0
31	---	---	---	---	---	e19.5	---	---	---	28.5	26.0	27.5
MONTH	21.5	13.5	17.1	---	---	e20.3	---	---	e22.5	30.0	23.0	26.9

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued*11290500 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE, NEAR MODESTO, CA--*Continued*

WATER TEMPERATURE (°C)

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	28.0	25.0	26.5	---	---	e25.5
2	27.0	24.5	26.0	---	---	e25.0
3	27.0	24.0	25.5	---	---	e25.0
4	26.0	24.0	25.0	---	---	e26.0
5	26.0	23.5	24.5	---	---	e26.5
6	25.5	22.5	24.0	---	---	e26.0
7	25.5	22.5	24.0	---	---	e25.0
8	26.0	23.0	24.5	---	---	e24.0
9	26.0	---	e24.0	---	---	e23.0
10	25.5	---	e24.0	---	---	e22.0
11	24.5	---	e24.0	---	---	e21.0
12	---	---	e23.5	---	---	e20.0
13	---	---	e23.0	---	---	e20.0
14	---	---	e22.5	---	---	e21.0
15	---	---	e22.5	---	---	e22.0
16	---	---	e23.0	---	---	e21.0
17	---	---	e24.0	---	---	e20.0
18	26.0	21.5	24.0	---	---	e19.0
19	26.5	23.5	25.0	---	---	e19.0
20	26.5	23.5	25.0	---	---	e19.0
21	25.5	23.5	24.5	---	---	e20.0
22	25.0	22.5	24.0	---	---	e20.0
23	26.0	23.0	24.0	---	---	e21.0
24	26.0	23.0	24.5	---	---	e21.0
25	26.5	23.5	25.0	---	---	e20.0
26	---	---	e25.5	---	---	e20.0
27	---	---	e26.0	---	---	e20.0
28	---	---	e25.5	---	---	e20.0
29	---	---	e25.0	22.0	19.5	21.0
30	---	---	e26.0	23.0	20.0	21.5
31	---	---	e26.0	---	---	---
MONTH	---	---	e24.5	---	---	e21.8

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11303000 STANISLAUS RIVER AT RIPON, CA

LOCATION.--Lat 37°43'47", long 121°06'34", in NW 1/4 SE 1/4 sec.29, T.2 S., R.8 E., Stanislaus County, Hydrologic Unit 18040002, on left bank 15 ft downstream from railroad bridge, 1.1 mi southeast of Ripon, and 15 mi upstream from mouth.

DRAINAGE AREA.--1,075 mi².

PERIOD OF RECORD.--July 1985 to September 1988.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1985 to September 1988.

WATER TEMPERATURE: October 1985 to September 1988.

INSTRUMENTATION.-- Minimonitor recorder since October 1985.

REMARKS.--Periods when maximums and/or minimums were not recorded were due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 226 microsiemens, Feb. 26, 1988; minimum daily, 44 microsiemens, June 3, 1986.

WATER TEMPERATURE: Maximum recorded, 24.5 °C, Oct. 2, 1987 and July 3, 1988; minimum recorded, 5.5 °C, Dec. 26, 1987.

WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS, TOTAL (MG/L AS CaCO ₃)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO ₃	CALCIUM, DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)
APR 1987												
23...	0745	841	80	7.6	15.0	760	9.8	37	0	9.1	3.4	3.6
MAY												
19...	0800	710	84	7.6	16.0	765	9.3	36	0	8.9	3.3	3.5
JUN												
18...	1000	851	85	7.6	16.0	760	9.3	33	0	8.6	2.9	3.2
JUL												
21...	1530	642	84	7.7	19.0	760	9.4	35	0	8.7	3.2	3.8
AUG												
17...	0900	436	100	7.8	19.0	760	8.6	39	0	9.5	3.7	4.8
SEP												
21...	0915	370	103	7.6	17.0	760	8.8	44	0	11	4.0	4.6
OCT												
20...	0900	217	135	7.8	15.0	760	9.1	62	2	15	5.9	6.8
NOV												
19...	0815	345	113	7.8	13.0	770	8.9	48	0	12	4.4	5.1
DEC												
15...	0845	207	151	7.7	7.0	760	11.2	71	4	17	6.9	7.8
JAN 1988												
20...	0900	231	162	6.8	7.5	770	11.0	65	0	15	6.7	8.5
FEB												
17...	0900	186	153	7.4	10.0	770	10.0	64	0	15	6.5	7.5
MAR												
14...	0900	1210	74	7.2	11.0	760	10.4	33	0	8.3	3.0	3.2
APR												
19...	0930	683	76	7.4	14.0	755	9.8	35	0	9.1	3.1	3.2
MAY												
16...	0900	856	76	7.5	15.0	760	9.6	33	0	8.7	2.8	3.0
JUN												
22...	0830	1120	77	7.3	16.0	755	9.4	31	0	8.2	2.6	2.7
JUL												
18...	0845	720	77	7.2	20.0	760	9.1	33	3	8.5	2.8	3.1
AUG												
24...	0845	717	76	7.1	17.5	760	9.2	34	0	8.7	2.9	3.3
SEP												
27...	0845	638	79	7.2	16.0	765	9.5	37	0	9.4	3.2	3.5

Table 1. Water-quality records at continuing-record sites--Continued

11303000 STANISLAUS RIVER AT RIPON, CA--Continued

WATER QUALITY DATA												
DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L AS CAC03)	SULFATE, DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 °C; DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)
APR 1987												
23...	17	0.3	1.1	41	4.2	1.8	<0.1	12	57	129	0.08	0.27
MAY												
19...	17	0.3	0.80	39	<5.0	2.0	<0.1	13	49	--	--	0.24
JUN												
18...	17	0.2	1.0	38	3.9	1.4	<0.1	12	54	124	0.07	0.15
JUL												
21...	19	0.3	1.0	38	4.0	1.4	0.1	12	58	101	0.08	0.16
AUG												
17...	20	0.3	1.3	46	5.6	3.7	0.1	13	62	73.0	0.08	0.30
SEP												
21...	18	0.3	1.4	49	5.3	2.0	0.1	14	67	66.9	0.09	0.27
OCT												
20...	19	0.4	1.8	60	8.5	3.1	0.1	17	85	49.8	0.12	0.68
NOV												
19...	17	0.3	5.0	49	6.0	7.9	0.1	15	76	70.8	0.10	0.47
DEC												
15...	19	0.4	1.7	67	10	6.3	0.2	18	124	69.3	0.17	0.89
JAN 1988												
20...	21	0.5	4.7	67	14	6.8	0.1	18	110	68.6	0.15	1.2
FEB												
17...	20	0.4	1.8	64	10	5.4	0.1	16	100	50.2	0.14	0.80
MAR												
14...	17	0.3	1.1	36	4.0	1.7	0.1	11	55	180	0.07	0.10
APR												
19...	16	0.2	1.0	38	15	1.9	0.1	12	58	107	0.08	0.23
MAY												
16...	16	0.2	0.90	36	3.5	1.3	0.2	12	48	111	0.06	0.14
JUN												
22...	15	0.2	0.90	33	3.4	1.0	0.2	11	44	133	0.06	0.10
JUL												
18...	17	0.2	0.90	30	4.7	1.2	0.1	11	36	70.0	0.05	<0.10
AUG												
24...	17	0.3	0.90	36	3.2	1.2	0.1	12	61	118	0.08	0.16
SEP												
27...	17	0.3	1.4	39	4.1	1.3	<0.1	12	51	87.9	0.07	0.21

Table 1. Water-quality records at continuing-record sites--Continued

11303000 STANISLAUS RIVER AT RIPON, CA--Continued

DATE	WATER QUALITY DATA											
	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS NH ₄)	NITRO- GEN,AM- MONIA + ORGANIC, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC, TOTAL (MG/L AS C)	CHLOR-A PHYTO- PLANK- TON, CHROMO. FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON, CHROMO. FLUOROM (UG/L)	SED. SUSP., SIEVE DIAM. % FINER THAN 0.062 MM	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
APR 1987												
23...	0.01	0.01	0.70	0.03	0.03	<0.01	--	0.80	<0.10	62	20	45
MAY												
19...	0.01	0.01	1.3	0.04	0.03	0.03	2.0	<0.70	<0.10	76	17	33
JUN												
18...	<0.01	--	2.6	0.05	0.02	0.02	2.2	<1.4	<0.30	55	22	51
JUL												
21...	<0.01	--	0.40	0.04	0.02	0.01	2.3	<0.60	<0.10	66	15	26
AUG												
17...	<0.01	--	0.60	0.06	0.03	0.02	2.3	1.0	<0.20	64	22	26
SEP												
21...	<0.01	--	0.50	0.04	0.02	<0.01	1.7	1.1	<0.30	67	12	12
OCT												
20...	0.02	0.03	<0.20	0.04	0.01	0.03	1.9	<0.70	<0.20	75	21	12
NOV												
19...	0.02	0.03	<0.20	0.05	0.04	0.02	2.7	--	--	73	12	11
DEC												
15...	0.01	0.01	2.5	0.03	0.04	0.02	1.5	<0.30	<0.20	62	5	2.8
JAN 1988												
20...	0.21	0.27	0.70	0.25	0.17	0.14	6.0	3.7	0.30	--	--	--
FEB												
17...	0.01	0.01	<0.20	0.05	0.03	0.03	1.8	2.4	<0.10	64	15	7.5
MAR												
14...	<0.01	--	0.30	0.02	0.02	0.02	2.5	2.0	<0.10	82	20	65
APR												
19...	0.03	0.04	0.30	0.03	0.03	0.04	2.3	0.80	<0.10	68	25	46
MAY												
16...	0.02	0.03	0.30	0.03	0.03	0.02	2.0	1.0	<0.10	79	14	32
JUN												
22...	<0.01	--	0.30	0.02	0.02	0.02	2.4	0.70	<0.20	56	14	42
JUL												
18...	<0.01	--	0.40	0.04	0.02	<0.01	2.1	1.3	<0.10	48	25	49
AUG												
24...	<0.01	--	<0.20	0.02	0.02	0.01	2.6	1.4	<0.20	54	15	29
SEP												
27...	0.06	0.08	0.40	0.05	0.04	0.03	2.4	1.6	<0.30	46	20	34

Table 1. Water-quality records at continuing-record sites--Continued

11303000 STANISLAUS RIVER AT RIPON, CA--Continued

WATER QUALITY DATA									
DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, TOTAL (UG/L AS AS)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
APR 1987									
23...	400	20	<1	<1	30	10	7	3	<1
MAY									
19...	350	<10	<1	<1	30	10	--	4	2
JUN									
18...	260	<10	<1	<1	30	10	--	3	1
JUL									
21...	280	<10	<1	<1	<10	10	9	3	<1
AUG									
17...	540	10	<1	<1	30	10	<1	3	1
SEP									
21...	300	<10	1	<1	40	<10	17	7	<1
OCT									
20...	310	<10	1	1	80	10	8	3	1
NOV									
19...	160	<10	<1	<1	20	20	<1	5	<1
DEC									
15...	130	<10	<1	<1	20	20	3	3	<1
JAN 1988									
20...	300	50	1	--	20	10	5	6	<1
FEB									
17...	270	<10	2	<1	40	30	2	6	1
MAR									
14...	340	<10	<1	<1	<10	10	2	3	--
APR									
19...	490	<10	<1	<1	30	10	3	2	<1
MAY									
16...	240	<10	1	<1	<10	<10	1	4	1
JUN									
22...	310	<10	1	1	<10	<10	<1	3	<1
JUL									
18...	490	<10	1	<1	30	<10	2	4	1
AUG									
24...	300	40	1	1	20	<10	<1	5	1
SEP									
27...	200	<10	<1	1	30	10	<1	4	1

Table 1. Water-quality records at continuing-record sites--Continued

11303000 STANISLAUS RIVER AT RIPON, CA--Continued

WATER QUALITY DATA									
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM, TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY, DIS- SOLVED (UG/L AS HG)
APR 1987									
23...	600	38	<5	<10	<4	30	10	0.1	<0.1
MAY									
19...	530	54	<5	<10	<4	40	7	<0.1	<0.1
JUN									
18...	550	37	<5	20	<4	30	4	<0.1	0.1
JUL									
21...	270	40	<5	<10	10	40	5	<0.1	<0.1
AUG									
17...	720	72	<5	<10	<4	--	6	<0.1	<0.1
SEP									
21...	490	57	<5	30	<4	40	5	<0.1	<0.1
OCT									
20...	410	64	<5	<10	<4	30	11	<0.1	<0.1
NOV									
19...	370	52	17	<10	<4	30	8	<0.1	<0.1
DEC									
15...	280	70	<5	<10	6	30	22	0.1	<0.1
JAN 1988									
20...	570	69	9	<10	<4	50	15	<0.1	<0.1
FEB									
17...	460	42	9	<10	<4	70	24	<0.1	<0.1
MAR									
14...	590	18	6	<10	4	50	3	0.1	<0.1
APR									
19...	710	37	10	<10	<4	50	6	<0.1	<0.1
MAY									
16...	440	30	54	<10	<4	40	4	<0.1	<0.1
JUN									
22...	420	27	26	<10	<4	30	2	<0.1	<0.1
JUL									
18...	610	43	8	<10	<4	40	13	<0.1	<0.1
AUG									
24...	390	44	20	<10	<4	20	4	<0.1	<0.1
SEP									
27...	400	80	12	<10	<4	20	4	0.1	<0.1

Table 1. Water-quality records at continuing-record sites--*Continued*

11303000 STANISLAUS RIVER AT RIPON, CA--*Continued*

WATER QUALITY DATA								
DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 1987								
23...	1	<1	2	3	<1	<1	<10	4
MAY								
19...	--	<1	2	<1	<1	<1	<10	8
JUN								
18...	<4	<1	5	<1	<1	1	<10	<3
JUL								
21...	<1	<1	<1	<1	<1	<1	<10	<3
AUG								
17...	<2	<1	3	2	<1	<1	10	3
SEP								
21...	<1	<1	4	<1	<1	<1	<10	10
OCT								
20...	1	1	<1	<1	<1	<1	<10	<3
NOV								
19...	<1	<1	1	<1	<1	<1	<10	<3
DEC								
15...	1	<1	<1	1	<1	<1	<10	<3
JAN 1988								
20...	4	1	1	1	<1	<1	<10	<3
FEB								
17...	2	1	3	<1	<1	<1	<10	<3
MAR								
14...	4	2	5	--	<1	<1	<10	<3
APR								
19...	2	2	10	<1	<1	<1	<10	4
MAY								
16...	<1	1	6	7	<1	1	20	<3
JUN								
22...	3	<1	6	4	<1	<1	--	9
JUL								
18...	3	2	2	2	<1	<1	<10	6
AUG								
24...	3	<1	5	<1	<1	<1	<10	12
SEP								
27...	4	<1	1	1	<1	<1	10	3

Table 1. Water-quality records at continuing-record sites--Continued

11303000 STANISLAUS RIVER AT RIPON, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	86	78	80	79	75	78	92	88	90	86	82	84
2	86	77	82	79	76	78	92	87	89	88	83	85
3	76	74	75	81	77	79	95	90	92	98	87	94
4	76	74	75	82	79	81	93	89	91	97	93	95
5	75	73	74	86	81	84	90	81	88	93	89	91
6	75	72	74	87	84	86	82	78	80	92	90	91
7	78	71	74	85	83	84	86	82	84	92	88	90
8	76	73	75	85	81	83	82	78	80	92	89	90
9	76	72	74	84	81	83	82	77	79	94	89	91
10	74	70	72	86	81	84	85	81	83	92	88	90
11	73	70	72	82	80	81	84	78	80	90	86	88
12	72	70	71	88	83	85	79	76	77	92	86	89
13	72	68	70	87	84	85	81	76	78	89	85	86
14	72	70	71	86	83	84	79	76	78	92	88	90
15	79	69	73	84	81	82	78	75	77	91	87	89
16	78	73	75	84	81	83	79	76	78	95	90	93
17	74	71	72	84	80	82	85	77	80	96	93	95
18	79	69	73	86	83	85	85	81	84	95	83	88
19	82	73	79	---	---	e85	82	79	81	87	84	85
20	73	70	72	85	82	84	85	78	81	87	84	86
21	78	71	74	85	83	84	81	78	79	90	82	86
22	87	77	82	86	82	84	95	80	88	83	81	82
23	83	79	81	84	81	83	94	89	91	83	80	81
24	80	76	79	85	83	84	92	88	90	92	82	87
25	83	75	80	83	81	82	91	87	89	92	87	90
26	85	80	82	84	82	83	87	85	86	90	86	88
27	85	80	82	84	81	82	89	83	85	90	81	85
28	83	80	81	89	84	87	86	83	85	90	84	86
29	83	79	81	91	88	89	87	83	85	95	86	91
30	81	77	79	91	89	90	87	82	84	96	91	94
31	---	---	---	92	89	90	---	---	---	103	93	99
MONTH	87	68	76	---	---	e84	95	75	84	103	80	89
AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	98	92	95	95	87	90	148	142	145	157	153	155
2	99	92	97	101	93	96	155	139	145	154	134	147
3	96	87	92	104	99	101	150	132	140	132	128	130
4	98	86	92	111	102	106	144	118	132	130	127	128
5	98	81	89	126	108	114	124	116	121	131	125	128
6	86	77	81	129	118	125	130	114	124	131	129	130
7	87	79	82	125	118	123	129	116	122	133	127	130
8	88	85	87	123	111	116	132	122	128	130	110	120
9	88	78	83	151	114	126	135	123	130	110	107	108
10	89	82	84	169	153	159	133	113	128	112	106	109
11	93	89	91	169	88	125	125	114	121	111	107	109
12	100	89	93	91	83	88	122	113	117	110	108	109
13	109	100	105	93	90	92	120	113	118	116	109	111
14	110	106	108	92	87	90	118	111	115	112	109	110
15	113	86	107	93	83	90	115	88	104	113	111	112
16	94	85	88	91	84	88	124	104	114	113	111	112
17	113	96	100	93	84	88	118	82	99	114	108	111
18	103	95	99	104	92	98	139	100	120	115	112	114
19	103	100	101	98	92	95	141	138	139	113	111	112
20	100	95	98	98	92	96	155	139	145	116	109	112
21	106	97	100	108	90	102	158	153	156	119	106	111
22	102	99	101	109	104	107	170	155	157	114	111	113
23	107	98	101	114	99	108	163	157	159	115	113	114
24	100	94	98	117	103	110	174	164	169	115	113	114
25	99	93	97	121	107	115	169	165	167	115	112	114
26	99	83	91	117	110	114	165	159	161	115	112	113
27	86	83	84	115	105	110	160	156	158	115	111	113
28	100	85	92	119	106	110	168	164	166	112	110	111
29	108	97	99	127	119	122	169	161	165	110	108	109
30	101	96	98	143	127	133	161	155	157	115	108	109
31	99	90	96	---	---	---	157	155	156	---	---	---
MONTH	113	77	94	169	83	108	174	82	138	157	106	117
e Estimated												

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued*

11303000 STANISLAUS RIVER AT RIPON, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	111	107	108	150	148	149	169	166	168	93	86	88
2	110	108	109	153	147	150	169	165	167	90	84	87
3	136	110	123	161	146	149	169	165	167	91	84	87
4	143	135	137	149	146	147	170	167	168	89	86	88
5	135	128	131	153	149	151	173	169	171	98	86	90
6	137	134	135	154	152	153	170	165	167	88	81	84
7	136	130	133	157	152	154	166	164	165	82	80	81
8	138	128	129	166	157	162	166	163	164	82	79	81
9	133	126	129	164	158	161	167	163	165	80	77	78
10	160	133	144	159	155	156	167	164	166	80	77	79
11	163	159	162	156	153	155	165	132	159	80	77	78
12	165	162	163	155	151	152	142	114	123	83	74	76
13	162	147	159	156	154	155	163	145	157	76	73	75
14	157	153	155	158	155	156	169	163	167	75	73	74
15	153	151	152	167	157	159	171	169	170	75	73	74
16	157	151	153	171	156	158	170	151	166	76	74	75
17	154	149	151	164	144	151	168	148	159	75	73	74
18	152	149	150	142	124	134	166	160	162	74	73	74
19	152	150	151	151	123	136	160	143	156	75	73	74
20	150	148	149	180	152	166	162	139	151	74	73	73
21	150	149	149	189	181	186	162	159	161	74	72	73
22	150	148	149	186	174	181	165	161	163	74	71	72
23	150	146	148	174	170	171	178	162	166	74	70	72
24	152	147	149	170	168	169	172	163	166	72	70	71
25	155	151	153	169	168	168	164	148	160	73	71	72
26	151	149	150	169	167	168	226	111	152	74	71	73
27	150	148	149	177	169	173	107	85	92	72	70	71
28	156	141	147	177	175	176	91	85	86	72	70	71
29	144	133	139	176	174	175	92	85	88	77	70	71
30	143	141	142	175	169	173	---	---	---	71	68	70
31	147	140	143	170	168	169	---	---	---	71	68	70
MONTH	165	107	143	189	123	160	226	85	154	98	68	77
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	73	69	71	71	69	70	83	80	81	84	81	82
2	74	70	72	74	69	71	85	81	82	83	80	82
3	71	69	70	74	72	73	93	83	87	84	81	82
4	70	66	68	75	72	73	97	93	95	83	79	81
5	68	67	68	76	73	74	98	84	96	81	79	80
6	74	68	70	77	75	76	100	96	97	81	78	79
7	75	71	73	78	74	76	105	100	102	83	77	80
8	72	70	71	78	74	76	111	104	106	83	80	81
9	82	70	74	78	75	77	123	111	116	84	79	82
10	84	78	81	78	74	76	127	123	124	87	82	85
11	79	76	78	79	75	77	127	123	125	90	85	87
12	78	75	76	79	76	77	129	124	126	85	82	83
13	80	75	76	80	77	78	129	127	128	85	81	83
14	82	75	76	78	75	77	128	123	125	85	82	83
15	78	76	77	79	74	76	123	74	102	85	81	83
16	79	76	77	75	73	74	74	73	74	84	80	82
17	78	76	77	78	73	75	79	74	77	81	77	79
18	78	75	77	79	76	77	78	74	76	79	76	77
19	77	74	75	79	76	77	78	75	76	78	75	77
20	76	74	75	80	75	77	77	75	76	77	72	75
21	76	74	75	80	74	76	76	74	75	74	71	73
22	76	74	75	77	74	76	77	73	75	74	73	74
23	80	76	77	77	74	75	77	74	75	74	72	73
24	79	76	78	77	74	76	78	75	76	75	72	74
25	80	71	76	78	75	77	78	74	76	75	72	74
26	70	68	69	78	76	77	77	74	76	76	73	74
27	71	68	69	81	76	78	79	74	77	75	72	73
28	73	70	71	79	77	78	84	77	79	76	74	75
29	71	69	70	84	77	79	85	83	84	77	73	74
30	71	68	70	84	78	81	84	81	83	76	71	73
31	---	---	---	82	79	81	---	---	---	81	76	78
MONTH	84	66	74	84	69	76	129	73	92	90	71	79

Table 1. Water-quality records at continuing-record sites--*Continued***11303000 STANISLAUS RIVER AT RIPON, CA--Continued**

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	81	79	80	73	70	71
2	82	74	78	73	71	72
3	76	73	74	74	71	72
4	75	72	74	74	70	71
5	75	72	74	74	71	72
6	79	73	75	71	69	70
7	77	73	75	71	68	70
8	78	73	74	71	68	69
9	76	72	74	71	68	69
10	76	72	74	71	69	70
11	78	73	75	71	68	69
12	76	73	75	70	68	69
13	77	73	75	70	68	69
14	75	72	74	73	69	71
15	76	72	74	73	68	71
16	76	72	74	71	68	70
17	75	73	74	71	68	70
18	74	71	73	71	69	70
19	73	69	71	72	68	69
20	72	68	70	77	68	73
21	74	72	73	81	74	77
22	74	71	72	81	74	77
23	73	71	72	80	76	78
24	78	71	74	77	75	76
25	73	70	71	76	74	76
26	75	69	71	79	75	77
27	75	70	72	81	75	78
28	73	69	71	82	78	80
29	70	67	69	85	81	83
30	71	68	69	86	82	85
31	73	70	71	---	---	---
MONTH	82	67	73	86	68	73

Table 1. Water-quality records at continuing-record sites--Continued

11303000 STANISLAUS RIVER AT RIPON, CA--Continued

WATER TEMPERATURE (°C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	13.5	14.0	16.5	15.0	15.5	19.5	16.5	18.0	19.5	17.0	18.0
2	15.0	13.5	14.5	17.0	14.0	15.5	20.5	17.5	19.0	19.5	17.0	18.5
3	14.0	13.0	13.5	18.0	15.0	16.5	21.0	18.5	19.5	19.5	17.0	18.5
4	14.0	12.5	13.5	19.5	16.0	17.5	20.5	18.0	19.5	20.0	17.0	18.5
5	14.5	12.5	13.5	20.5	17.0	19.0	19.5	18.0	18.5	20.5	17.5	19.0
6	14.5	13.0	14.0	21.0	18.0	19.5	18.5	17.0	17.5	21.0	17.5	19.0
7	15.0	13.0	14.0	21.0	18.0	19.5	19.0	16.0	17.5	21.5	18.5	20.0
8	15.5	13.5	14.5	20.0	18.0	19.0	19.5	17.0	18.5	21.5	19.0	20.5
9	15.5	14.0	15.0	21.0	18.0	19.5	20.0	17.5	18.5	22.0	19.5	20.5
10	16.0	14.5	15.0	21.5	18.5	20.0	20.0	17.5	19.0	21.5	19.0	20.5
11	15.5	14.0	15.0	21.5	18.5	20.0	19.5	17.5	18.5	21.5	18.5	20.0
12	15.5	14.0	14.5	21.5	18.5	20.0	19.5	17.0	18.5	21.5	19.0	20.0
13	15.5	13.5	14.5	21.0	18.5	20.0	19.5	17.5	18.5	22.0	19.0	20.5
14	16.5	14.0	15.5	20.0	17.5	19.0	19.0	17.5	18.0	22.5	19.5	21.0
15	17.0	14.5	16.0	20.0	18.0	19.0	18.5	16.5	17.5	22.5	20.0	21.5
16	17.5	15.0	16.5	20.0	18.0	19.0	18.5	16.0	17.5	22.5	20.0	21.5
17	16.5	15.0	16.0	18.5	17.0	18.0	18.5	16.0	17.0	21.0	18.5	20.0
18	16.0	14.5	15.0	18.0	16.0	17.0	17.5	16.0	17.0	19.5	17.5	18.5
19	15.5	13.5	14.5	---	---	e17.0	18.0	15.5	17.0	19.5	16.5	18.0
20	16.5	13.5	15.0	17.0	15.5	16.5	18.0	15.5	17.0	19.0	16.5	18.0
21	17.5	14.5	16.0	17.5	15.0	16.5	18.0	15.5	17.0	19.0	16.5	18.0
22	17.5	15.5	16.5	18.0	15.5	17.0	19.0	16.0	17.5	19.5	16.5	18.0
23	17.5	15.5	16.5	18.5	16.0	17.0	20.0	17.0	18.5	19.5	17.0	18.0
24	17.5	15.0	16.5	18.0	15.5	17.0	20.0	17.0	19.0	20.5	17.0	18.5
25	18.5	15.5	17.0	16.5	15.0	16.0	20.5	18.0	19.5	20.5	17.5	19.0
26	19.0	16.0	17.5	17.0	14.5	16.0	20.5	18.0	19.5	20.5	17.5	19.0
27	19.5	16.5	18.0	18.0	15.0	16.5	20.0	17.5	19.0	20.5	17.5	19.0
28	18.5	17.0	18.0	18.5	16.0	17.0	20.0	17.0	18.5	20.5	17.5	19.0
29	18.0	16.0	17.0	18.5	16.5	17.5	20.0	17.0	18.5	21.0	17.5	19.5
30	17.0	15.5	16.5	18.5	16.0	17.5	19.5	17.0	18.5	21.0	18.0	19.5
31	---	---	---	19.0	16.5	18.0	---	---	---	22.0	18.0	20.0
MONTH	19.5	12.5	15.4	---	---	e17.8	21.0	15.5	18.2	22.5	16.5	19.3
AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.0	19.5	21.0	22.5	20.5	21.5	22.5	19.0	20.5	16.0	15.0	15.5
2	23.5	20.0	22.0	22.5	20.5	21.5	24.5	19.0	21.0	15.5	14.0	15.0
3	24.0	20.5	22.5	22.5	20.5	21.5	23.0	19.5	21.5	15.0	13.5	14.5
4	24.0	20.5	22.5	21.5	19.5	20.5	22.5	19.5	21.0	14.5	13.0	14.0
5	23.5	21.0	22.0	20.5	18.5	19.5	22.0	19.0	20.5	15.0	13.5	14.0
6	23.0	20.0	21.5	19.5	18.0	19.0	21.5	19.0	20.5	15.0	14.0	14.5
7	23.0	20.0	21.5	19.5	17.5	18.5	21.0	18.5	20.0	16.0	13.5	15.0
8	22.5	19.5	21.0	20.0	17.5	19.0	21.0	18.0	19.5	16.0	13.5	15.0
9	22.5	19.5	21.0	24.0	18.0	20.5	21.0	17.5	19.0	15.5	14.5	15.0
10	22.0	19.0	20.5	23.5	21.0	22.5	19.0	17.0	18.5	15.5	14.0	15.0
11	22.0	18.5	20.5	23.0	18.0	20.5	19.0	17.0	18.0	15.5	13.5	14.5
12	21.5	18.5	20.0	19.0	17.0	18.0	19.5	17.5	18.5	15.0	13.5	14.5
13	21.0	18.5	20.0	18.5	16.5	18.0	19.0	17.0	18.0	14.5	14.0	14.0
14	20.5	18.0	19.5	19.0	16.5	18.0	18.5	16.5	17.5	15.0	13.5	14.0
15	20.5	17.5	19.0	19.0	17.0	18.0	18.5	16.0	17.5	14.0	12.0	13.0
16	21.5	18.0	20.0	19.0	17.0	18.0	18.5	16.0	17.0	14.0	12.5	13.0
17	22.5	18.5	21.0	19.0	16.5	18.0	19.0	16.5	17.5	13.0	12.5	13.0
18	22.0	19.5	21.0	19.5	17.0	18.0	20.5	16.0	18.0	14.0	13.0	13.5
19	21.0	19.5	20.5	19.5	17.0	18.5	20.5	17.5	19.0	14.0	13.0	13.5
20	20.5	18.5	20.0	19.5	17.0	18.5	20.5	16.5	18.0	13.5	12.5	13.0
21	21.0	18.0	19.5	20.0	17.5	18.5	17.5	15.5	16.5	13.0	12.0	12.5
22	21.0	18.5	20.0	20.0	17.5	19.0	18.0	17.0	17.5	12.5	11.5	12.0
23	20.5	19.0	20.0	20.0	18.0	19.0	19.5	17.0	18.5	12.0	11.0	11.5
24	21.5	18.5	20.0	19.5	18.0	19.0	20.0	17.5	19.0	12.0	10.5	11.5
25	21.5	19.0	20.5	20.0	18.0	19.0	20.0	17.5	18.5	11.5	10.5	11.0
26	21.5	19.5	20.5	20.0	18.0	19.0	19.5	17.5	18.5	11.0	9.5	10.5
27	21.0	18.5	20.0	20.0	17.5	19.0	19.0	18.0	18.5	10.5	9.0	10.0
28	21.5	19.0	20.5	20.0	17.5	19.0	19.0	18.0	18.5	11.5	10.0	10.5
29	22.0	19.5	21.0	21.0	18.0	19.5	18.5	17.5	18.0	11.0	9.5	10.5
30	22.5	20.0	21.5	21.5	18.5	20.0	17.5	16.5	17.0	11.0	10.0	10.5
31	22.5	20.0	21.5	---	---	---	16.5	16.0	16.5	---	---	---
MONTH	24.0	17.5	20.7	24.0	16.5	19.3	24.5	15.5	18.6	16.0	9.0	13.1

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11303000 STANISLAUS RIVER AT RIPON, CA--Continued

WATER TEMPERATURE (°C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.5	11.0	11.5	7.5	7.0	7.5	11.5	10.5	11.0	13.5	12.0	13.0
2	14.0	12.5	13.0	8.5	7.5	8.0	11.5	9.5	10.5	13.5	11.0	12.0
3	14.5	13.0	14.0	9.0	8.0	8.5	11.0	9.0	10.0	13.5	11.0	12.5
4	13.5	13.0	13.0	10.5	8.5	9.5	11.0	8.5	9.5	14.5	11.5	13.0
5	13.0	12.5	12.5	12.0	10.5	11.0	11.5	8.5	10.0	14.5	12.5	13.5
6	13.0	12.0	12.5	10.5	10.0	10.0	11.5	8.5	10.0	14.5	12.5	13.5
7	12.5	11.5	12.0	10.5	9.5	10.0	12.0	9.0	10.5	15.0	12.0	13.5
8	11.5	11.0	11.5	11.0	10.0	10.5	11.5	9.5	10.5	15.0	12.0	13.0
9	12.5	11.5	12.0	11.5	10.0	11.0	12.5	10.0	11.5	13.5	12.0	12.5
10	13.0	11.5	12.5	12.5	11.5	12.0	14.0	11.5	12.5	14.0	11.0	12.0
11	12.5	11.0	12.0	12.5	11.0	12.0	14.5	11.5	13.0	14.0	9.5	11.5
12	11.0	9.0	10.0	11.0	9.5	10.5	15.0	11.5	13.0	13.5	10.0	11.5
13	9.0	7.5	8.5	11.0	9.0	10.0	15.0	12.0	13.5	14.0	10.5	12.0
14	8.0	7.0	7.5	11.0	9.5	10.0	15.5	12.0	13.5	12.5	11.0	12.0
15	7.5	7.0	7.5	12.0	10.5	11.0	15.0	11.5	13.5	12.5	11.0	12.0
16	9.0	7.5	8.0	11.0	10.0	10.5	14.0	11.5	13.0	12.5	11.5	12.0
17	10.5	8.5	9.5	11.0	9.5	10.5	12.5	10.0	11.5	13.0	11.5	12.0
18	10.0	8.5	9.0	11.0	8.5	9.5	13.0	10.5	11.5	13.5	11.5	12.5
19	11.0	9.5	10.0	10.5	8.0	9.5	13.5	10.5	12.0	13.5	12.0	13.0
20	10.0	9.0	9.5	10.5	8.0	9.0	14.0	10.5	12.0	14.0	12.5	13.5
21	10.5	9.5	10.0	9.5	8.5	9.0	14.5	11.0	12.5	14.0	12.5	13.0
22	11.0	9.5	10.5	10.0	8.0	9.0	15.0	11.0	13.0	14.0	12.5	13.0
23	9.5	8.0	9.0	10.5	8.5	9.5	14.0	11.5	13.0	14.0	12.5	13.5
24	8.0	6.5	7.5	11.0	8.5	10.0	15.0	12.0	13.5	14.0	12.5	13.0
25	7.5	6.0	6.5	11.5	9.0	10.5	15.5	12.5	14.0	14.5	12.5	13.5
26	7.5	5.5	6.5	11.5	9.5	10.5	15.5	13.0	14.5	15.0	13.0	14.0
27	7.5	6.0	6.5	12.0	9.5	11.0	14.5	13.5	14.0	14.0	12.0	13.5
28	9.0	7.0	8.0	11.5	11.0	11.5	14.0	12.0	13.0	13.0	12.0	12.5
29	8.5	8.0	8.5	13.0	11.0	12.0	14.0	13.0	13.5	13.5	11.5	13.0
30	9.5	8.0	8.5	12.5	11.0	12.0	---	---	---	13.5	12.0	13.0
31	9.0	7.5	8.0	12.0	10.0	11.5	---	---	---	13.5	12.0	13.0
MONTH	14.5	5.5	9.9	13.0	7.0	10.2	15.5	8.5	12.2	15.0	9.5	12.8
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	12.0	13.5	15.5	13.0	14.0	19.0	16.5	17.5	21.5	18.0	20.0
2	14.5	12.5	13.5	16.0	13.5	14.5	19.0	16.0	17.5	23.0	19.0	21.0
3	14.0	12.5	13.0	16.0	14.0	15.0	18.0	15.0	16.5	24.5	19.5	22.0
4	14.0	12.5	13.5	15.0	13.0	14.0	17.5	14.5	16.0	22.5	19.0	20.5
5	14.5	13.0	13.5	13.5	12.5	13.5	---	---	e16.0	21.5	18.0	19.5
6	14.5	13.0	14.0	14.0	13.0	13.5	---	---	e16.0	20.5	17.5	19.0
7	15.0	13.0	14.0	15.5	13.0	14.0	17.5	14.5	15.5	21.5	18.0	19.5
8	14.5	12.5	13.5	16.5	14.0	15.0	18.0	15.5	16.5	22.0	18.5	20.0
9	15.0	13.0	14.0	18.0	15.0	16.5	19.5	16.5	17.5	22.5	19.0	20.5
10	16.0	14.5	15.5	18.5	15.5	17.0	19.5	17.0	18.5	22.5	19.5	21.0
11	17.0	14.5	16.0	18.5	16.0	17.0	20.0	16.5	18.0	21.5	20.0	21.0
12	16.5	14.0	15.0	17.5	15.5	16.5	20.5	17.5	19.0	21.5	19.0	20.5
13	14.5	13.0	14.0	17.5	15.5	16.5	20.5	18.0	19.5	22.0	19.0	20.5
14	14.0	12.5	13.0	18.0	15.5	17.0	20.0	17.5	19.0	23.0	19.5	21.0
15	13.0	12.5	12.5	16.5	14.5	15.5	19.5	17.0	18.0	23.0	19.5	21.0
16	14.5	12.5	13.0	16.0	14.0	15.0	---	---	e18.5	23.5	20.0	21.5
17	15.5	13.5	14.5	17.0	14.0	15.5	---	---	e19.0	23.5	20.0	22.0
18	15.5	14.0	15.0	18.0	15.5	17.0	21.5	16.5	19.5	23.5	19.5	21.5
19	14.5	13.0	14.0	19.0	16.0	17.5	20.0	17.0	18.5	23.0	19.5	21.5
20	14.5	12.5	13.5	19.5	16.5	18.0	19.0	17.0	18.5	22.0	19.5	21.0
21	15.0	13.5	14.0	18.0	16.5	17.5	18.5	16.5	17.5	21.0	18.5	20.0
22	14.5	13.0	13.5	18.5	16.0	17.0	18.5	16.5	17.5	21.0	18.5	20.0
23	15.5	13.0	14.0	18.5	16.0	17.0	18.5	16.5	17.5	21.0	18.5	19.5
24	16.5	13.5	15.0	18.5	15.5	17.0	19.0	16.5	17.5	21.0	18.5	20.0
25	17.0	14.5	15.5	17.5	15.5	16.5	19.5	17.0	18.0	21.0	19.0	20.0
26	17.0	14.5	16.0	18.0	15.5	17.0	19.5	17.0	18.0	21.0	18.5	20.0
27	16.5	14.5	15.5	17.0	14.5	16.0	19.5	17.0	18.0	21.5	18.5	20.0
28	16.5	14.0	15.5	16.5	14.0	15.0	20.0	17.0	18.5	21.0	18.5	20.0
29	16.0	13.5	15.0	17.0	14.0	15.5	20.5	17.5	19.0	20.5	18.5	19.5
30	15.0	12.5	14.0	17.5	15.0	16.5	21.5	17.5	19.5	21.0	18.5	19.5
31	---	---	---	18.0	16.0	17.0	---	---	---	---	---	e20.0
MONTH	17.0	12.0	14.2	19.5	12.5	16.0	---	---	e17.9	---	---	e20.4

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued*

11303000 STANISLAUS RIVER AT RIPON, CA--Continued

WATER TEMPERATURE (°C)

AUGUST 1988				SEPTEMBER 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e21.0	21.0	18.0	19.5
2	---	---	e20.0	21.0	18.0	19.5
3	20.0	18.0	19.0	22.0	18.5	20.0
4	19.5	18.0	19.0	21.5	18.5	20.0
5	20.5	18.0	19.0	22.0	19.0	20.5
6	20.0	17.5	19.0	20.0	18.5	19.0
7	20.0	17.0	18.5	19.0	17.0	18.0
8	20.5	17.5	19.0	18.5	16.5	17.5
9	20.5	17.5	19.0	18.0	16.5	17.5
10	20.5	18.0	19.0	18.0	16.0	17.5
11	20.5	18.0	19.0	18.0	16.0	17.0
12	20.0	17.5	18.5	17.5	16.0	17.0
13	20.0	17.0	18.5	17.5	15.5	16.5
14	19.5	17.0	18.0	18.0	16.0	17.0
15	19.5	16.5	18.5	18.0	16.5	17.5
16	20.0	17.0	18.5	18.0	16.0	17.0
17	20.5	17.5	19.0	17.5	16.0	17.0
18	21.5	18.0	19.5	17.0	15.5	16.5
19	20.0	17.5	19.0	16.5	15.0	16.0
20	19.5	17.0	18.5	17.0	15.0	16.0
21	20.0	17.5	19.0	17.5	15.5	16.5
22	20.0	17.5	18.5	18.5	15.5	17.0
23	20.0	17.5	19.0	19.0	16.0	17.0
24	21.0	18.5	20.0	19.0	16.0	17.5
25	21.5	18.0	20.0	17.5	15.5	16.5
26	21.5	18.0	20.0	17.5	15.5	16.5
27	22.5	18.5	20.0	19.5	16.5	17.5
28	20.5	18.5	19.5	19.5	16.5	18.0
29	19.0	17.5	18.5	21.5	17.0	18.5
30	19.5	17.0	18.5	20.0	17.5	18.5
31	20.0	17.5	19.0	---	---	---
MONTH	---	---	e19.1	22.0	15.0	17.7

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CA

LOCATION.--Lat 37°40'34", long 121°15'55", in SW 1/4 NW 1/4 sec. 13, T.3 S., R.6 E., in El Pescadero Grant, San Joaquin County, Hydrologic Unit 18040003, on left bank 12 ft downstream from Durham Ferry Highway bridge, 2.6 mi downstream from Stanislaus River, and 3.2 mi northeast of Vernalis.

DRAINAGE AREA.--13,536 mi², includes about 2,100 mi² in James Bypass.

PERIOD OF RECORD.--March 1951 to September 1988.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1951 to May 1963, January 1973 to October 1981, June 1985 to September 1988.

WATER TEMPERATURE: March 1951 to September 1988.

INSTRUMENTATION.--Conductivity recorder January 1973 to October 1981. Temperature recorder October 1961 to September 1963, and since December 1972. Minimonitor recorder since October 1985.

REMARKS.--Periods when maximums and/or minimums were not recorded were due to equipment malfunction.

Chemical data from March 1951 to June 1985 are published in U.S. Geological Survey Water-Data Report series.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,350 microsiemens, Aug. 11, 1961; minimum daily, 60 microsiemens, June 21, 1953.

WATER TEMPERATURE: Maximum recorded, 30.0 °C, July 7, 1970, July 30, 1977; minimum recorded, 2.0 °C, Dec. 26, 1987.

WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS, TOTAL (MG/L AS CaCO ₃)	HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CaCO ₃	CALCIUM, DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)
APR 1987												
09...	1315	3130	665	8.0	18.0	765	9.0	160	64	35	18	84
23...	1200	2430	542	7.9	19.0	765	8.5	130	52	29	15	62
MAY												
07...	1330	1900	661	8.1	23.5	760	9.6	160	61	36	18	74
18...	1230	2260	627	8.0	22.0	765	9.7	150	40	34	16	71
JUN												
02...	0915	2100	678	7.6	21.0	760	8.6	160	61	36	18	75
17...	1515	2050	679	8.2	21.5	760	9.2	160	62	36	17	73
JUL												
08...	1500	1560	843	8.2	25.0	755	8.4	200	75	45	22	97
13...	1230	1660	795	7.9	25.0	765	8.4	180	56	41	19	88
21...	1330	1680	762	8.2	22.0	760	9.0	180	69	41	20	89
AUG												
05...	1300	1420	905	8.1	26.0	760	7.8	210	78	47	23	100
17...	1300	1670	856	8.1	23.5	760	8.3	180	47	41	20	91
SEP												
09...	1400	1780	736	8.0	22.5	760	8.2	180	55	39	19	85
21...	1215	1670	767	8.0	21.0	760	9.1	190	58	41	20	92
OCT												
07...	1345	1270	842	8.1	21.5	760	8.5	200	67	44	22	95
22...	0915	1310	816	7.4	17.5	760	8.1	190	56	40	21	93
NOV												
04...	1315	1560	958	8.0	15.5	760	9.5	200	67	44	23	110
16...	0935	1510	904	8.0	12.5	765	9.0	210	80	44	23	110
19...	1130	1620	840	7.9	13.0	770	9.4	190	64	40	21	98
DEC												
02...	0915	1540	812	7.6	12.0	760	9.3	190	71	42	21	98
17...	1030	1260	1000	7.9	7.5	755	11.8	230	99	49	26	130

Table 1. Water-quality records at continuing-record sites--*Continued*

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CA--*Continued*

WATER QUALITY DATA

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS, TOTAL (MG/L AS CaCO ₃)	HARD- NESS NONCARB TOT FLD MG/L AS CaCO ₃	CALCIUM, DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)
JAN 1988												
07...	1315	1290	1070	7.5	9.5	765	10.8	240	98	52	27	130
11...	1400	1230	1130	7.8	11.5	775	8.9	240	86	50	28	140
22...	1300	1770	1090	7.8	10.0	770	10.6	230	74	49	26	130
FEB												
03...	1300	1530	1320	7.9	12.0	770	10.8	290	130	62	32	160
19...	0915	1370	1230	8.0	10.5	760	9.9	300	150	66	33	160
MAR												
03...	1330	2040	910	7.7	16.0	760	9.6	200	91	45	21	110
16...	1302	2370	777	8.0	15.0	775	9.4	180	84	41	19	88
APR												
05...	1345	3110	793	8.1	17.5	765	9.6	170	68	38	19	88
21...	1000	2320	765	7.8	16.5	755	9.3	180	71	39	19	83
MAY												
02...	1245	1980	726	8.0	17.0	770	10.3	180	76	40	19	85
19...	1045	1630	747	7.9	18.5	765	8.7	180	73	38	20	83
JUN												
10...	1315	1660	794	7.9	23.0	765	8.2	190	79	43	21	91
24...	1015	1840	671	7.7	22.5	755	7.9	170	74	37	18	75
JUL												
07...	0915	1490	766	7.8	22.0	760	7.5	190	75	42	20	87
18...	1230	1380	846	7.8	25.5	765	8.4	200	98	43	22	97
AUG												
09...	1315	1560	885	7.7	24.5	755	8.2	190	79	42	21	99
26...	0845	1620	812	7.6	22.5	755	7.4	180	72	41	20	93
SEP												
08...	1315	1580	851	7.7	22.5	755	7.9	200	76	42	22	100
19...	1245	1520	783	7.9	19.0	765	9.4	190	63	40	21	92
28...	1330	1260	819	8.0	20.5	765	10.3	190	70	41	22	99

Table 1. Water-quality records at continuing-record sites--Continued

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CA--Continued

WATER QUALITY DATA												
DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L AS CAC03)	SULFATE, DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 °C, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)
APR 1987												
09...	53	3	3.0	98	110	96	0.1	14	430	3630	0.58	1.6
23...	50	2	2.5	82	77	69	0.1	15	325	2130	0.44	1.2
MAY												
07...	49	3	2.5	103	96	93	0.1	15	407	2090	0.55	1.5
18...	50	3	2.8	111	88	85	<0.1	15	387	2360	0.53	1.5
JUN												
02...	49	3	2.6	103	78	88	0.1	16	402	2280	0.55	1.6
17...	49	3	2.6	98	100	88	0.1	16	399	2210	0.54	1.6
JUL												
08...	50	3	8.0	128	120	120	0.2	18	500	2110	0.68	2.0
13...	51	3	3.8	--	110	100	0.2	18	449	2010	0.61	1.9
21...	51	3	3.0	116	99	110	0.2	18	455	2060	0.62	1.7
AUG												
05...	50	3	3.8	134	120	130	0.2	20	549	2100	0.75	2.0
17...	51	3	3.5	138	120	120	0.2	19	499	2250	0.68	1.9
SEP												
09...	51	3	3.3	121	85	110	0.2	20	425	2040	0.58	1.8
21...	51	3	3.9	128	98	100	0.2	19	462	2080	0.63	1.6
OCT												
07...	50	3	3.6	134	100	120	0.2	23	494	1690	0.67	1.9
22...	52	3	3.1	131	93	120	0.2	20	464	1640	0.63	1.4
NOV												
04...	53	3	4.2	138	120	140	0.2	21	564	2380	0.77	1.5
16...	53	3	3.7	--	130	130	0.2	20	542	2210	0.74	1.5
19...	52	3	11	123	120	120	0.2	19	563	2460	0.77	1.6
DEC												
02...	52	3	3.9	121	110	130	0.2	19	485	2020	0.66	1.7
17...	55	4	4.2	131	130	150	0.2	20	599	2040	0.81	1.9
JAN 1988												
07...	53	4	5.0	143	160	160	0.2	20	677	2360	0.92	2.4
11...	55	4	5.8	--	170	170	0.2	19	699	2320	0.95	2.5
22...	54	4	8.0	156	180	150	0.2	17	665	3180	0.90	2.9
FEB												
03...	54	4	5.3	156	240	180	0.2	18	818	3380	1.11	3.2
19...	53	4	5.0	153	240	180	0.2	20	825	3050	1.12	3.4
MAR												
03...	54	3	3.6	108	150	120	0.2	17	545	3000	0.74	2.3
16...	51	3	2.9	97	130	100	0.2	17	465	2980	0.63	2.3
APR												
05...	52	3	2.8	105	120	110	0.2	15	462	3880	0.63	1.6
21...	50	3	3.4	105	100	95	0.2	17	440	2760	0.60	1.9
MAY												
02...	50	3	2.7	102	130	110	0.2	15	462	2470	0.63	1.7
19...	50	3	2.5	105	110	100	0.2	16	436	1920	0.59	1.4
JUN												
10...	50	3	3.3	115	130	110	0.3	17	515	2310	0.70	1.9
24...	49	3	2.5	93	99	90	0.3	16	396	1970	0.54	1.6
JUL												
07...	50	3	3.2	112	110	110	0.3	17	464	1870	0.63	1.9
18...	51	3	2.8	100	120	120	0.1	16	507	1890	0.69	1.9
AUG												
09...	52	3	3.2	113	120	130	0.1	16	507	2140	0.69	1.5
26...	52	3	2.7	113	100	120	0.1	17	484	2120	0.66	1.5
SEP												
08...	52	3	3.1	120	110	130	0.1	19	419	1790	0.57	1.5
19...	51	3	3.1	--	100	120	0.1	18	473	1940	0.64	1.2
28...	52	3	3.4	123	110	130	0.1	53	497	1690	0.68	1.2

Table 1. Water-quality records at continuing-record sites--Continued

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CA--Continued

WATER QUALITY DATA

DATE	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA, DIS- SOLVED (MG/L AS NH ₄)	NITRO- GEN, AM- MONIA + ORGANIC, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC, TOTAL (MG/L AS C)	CHLOR-A PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON, CHROMO FLUOROM (UG/L)	SED. SUSP., SIEVE DIAM. % FINER THAN 0.062 MM	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
APR 1987												
09...	0.17	0.22	1.1	0.23	0.19	0.15	6.3	--	--	--	--	--
23...	0.04	0.05	1.1	0.20	0.12	0.09	--	9.4	0.80	90	80	525
MAY												
07...	<0.01	--	1.2	0.28	0.12	0.12	5.9	--	--	--	--	--
18...	0.02	0.03	1.5	0.32	0.14	0.14	4.1	37	1.2	94	100	610
JUN												
02...	0.02	0.03	1.4	0.24	0.10	0.10	5.3	--	--	--	--	--
17...	<0.01	--	0.60	0.16	0.13	0.11	5.1	28	1.1	96	132	731
JUL												
08...	0.07	0.09	1.4	0.31	0.15	0.13	6.5	--	--	--	--	--
13...	0.03	0.04	0.90	0.31	0.16	0.13	--	--	--	98	112	502
21...	<0.01	--	1.2	0.33	0.14	0.12	7.5	40	0.90	97	127	576
AUG												
05...	0.06	0.08	1.6	0.33	0.19	0.14	7.3	--	--	--	--	--
17...	<0.01	--	1.1	0.31	0.16	0.13	6.1	17	0.70	95	111	500
SEP												
09...	0.02	0.03	0.70	0.21	0.18	0.13	4.8	--	--	--	--	--
21...	<0.01	--	0.80	0.21	0.17	0.12	5.3	28	2.8	94	54	243
OCT												
07...	<0.01	--	0.50	0.17	0.11	0.10	4.7	--	--	--	--	--
22...	0.02	0.03	0.50	0.13	0.08	0.09	4.1	5.3	0.30	95	45	159
NOV												
04...	0.05	0.06	0.30	0.15	0.16	0.13	5.8	--	--	--	--	--
16...	0.11	0.14	0.60	0.14	0.13	0.12	--	--	--	95	36	147
19...	0.16	0.21	0.60	0.20	0.13	0.15	4.2	--	--	84	51	223
DEC												
02...	0.32	0.41	1.2	0.22	0.19	0.16	4.2	--	--	--	--	--
17...	0.22	0.28	0.90	0.24	0.20	0.17	4.2	0.80	<0.20	87	21	71
JAN 1988												
07...	0.23	0.30	0.70	0.38	0.27	0.22	4.9	--	--	--	--	--
11...	0.30	0.39	0.90	0.47	0.34	0.27	--	--	--	86	42	139
22...	0.54	0.70	1.6	1.3	0.46	0.42	9.8	16	2.4	88	82	392
FEB												
03...	0.27	0.35	1.2	0.44	0.29	0.24	6.2	--	--	--	--	--
19...	0.14	0.18	0.90	0.40	0.28	0.24	5.3	5.6	1.1	91	39	144
MAR												
03...	0.08	0.10	0.70	0.33	0.20	0.17	5.8	--	--	--	--	--
16...	0.07	0.09	0.60	0.16	0.13	0.11	4.8	5.8	0.70	82	66	422
APR												
05...	<0.01	--	0.90	0.18	0.08	0.07	5.2	--	--	--	--	--
21...	0.11	0.14	0.80	0.23	0.20	0.16	4.3	5.4	0.40	--	--	--
MAY												
02...	0.06	0.08	0.70	0.23	0.15	0.13	4.5	--	--	--	--	--
19...	0.01	0.01	0.40	0.12	0.07	0.10	3.9	12	0.80	95	46	202
JUN												
10...	0.01	0.01	1.3	0.24	0.15	0.11	5.6	--	--	--	--	--
24...	0.03	0.04	0.50	0.19	0.13	0.12	4.4	7.8	0.60	--	--	--
JUL												
07...	<0.01	--	0.40	0.20	0.16	0.11	5.6	--	--	--	--	--
18...	<0.01	--	0.70	0.25	0.14	0.12	5.3	48	1.4	98	103	384
AUG												
09...	<0.01	--	0.40	0.26	0.12	0.11	6.0	--	--	--	--	--
26...	0.01	0.01	0.60	0.26	0.12	0.11	5.5	13	0.80	92	115	503
SEP												
08...	<0.01	--	0.60	0.24	0.14	0.13	4.9	--	--	--	--	--
19...	<0.01	--	0.20	0.24	0.13	0.10	--	--	--	91	45	185
28...	0.04	0.05	0.80	0.21	0.10	0.09	4.4	17	0.70	84	48	163

Table 1. Water-quality records at continuing-record sites--Continued

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CA--Continued

WATER QUALITY DATA									
DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, TOTAL (UG/L AS AS)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	BORON, DIS- SOLVED (UG/L AS B)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
APR 1987									
09...	1300	<10	2	2	--	510	<1	9	<1
23...	1600	<10	2	2	280	280	3	5	<1
MAY									
07...	5500	10	2	2	--	360	<1	10	1
18...	2900	<10	3	2	370	--	--	9	<10
JUN									
02...	5900	<10	3	2	470	420	24	10	2
17...	240	<10	2	2	390	410	6	7	2
JUL									
08...	5200	<10	3	2	680	520	--	11	1
13...	--	--	--	--	--	--	--	--	--
21...	3400	20	3	2	460	450	10	10	2
AUG									
05...	3900	<10	3	4	510	520	--	11	2
17...	4300	<10	3	3	520	510	<1	9	1
SEP									
09...	2200	<10	2	2	360	340	--	6	1
21...	1200	<10	2	2	410	--	6	8	2
OCT									
07...	1100	<10	3	2	440	370	15	4	<1
22...	1500	<10	3	2	390	320	7	5	2
NOV									
04...	1100	<10	3	1	590	610	5	4	1
16...	--	<10	--	2	--	--	--	--	<1
19...	960	<10	2	<1	450	480	4	5	<1
DEC									
02...	700	<10	2	2	420	420	3	6	1
17...	640	<10	2	1	490	520	4	4	1
JAN 1988									
07...	840	<10	2	2	640	640	4	4	1
11...	--	--	--	--	--	--	--	--	--
22...	1900	30	2	3	740	730	6	10	2
FEB									
03...	1000	<10	2	2	930	920	4	6	<1
19...	1200	<10	2	2	930	930	5	8	1
MAR									
03...	2100	<10	2	2	610	640	6	11	1
16...	1500	10	2	2	--	--	4	6	1
APR									
05...	--	--	3	2	--	450	--	--	<1
21...	2600	<10	3	2	420	440	9	8	1
MAY									
02...	1500	<10	2	2	390	450	4	7	1
19...	1300	<10	3	2	400	--	8	6	4
JUN									
10...	3200	10	3	2	520	570	8	9	3
24...	3600	<10	3	2	420	430	8	8	2
JUL									
07...	3400	<10	3	2	480	480	10	11	2
18...	--	--	3	--	--	--	11	9	--
AUG									
09...	3200	20	3	2	520	510	5	9	13
26...	3200	20	3	3	490	470	9	11	1
SEP									
08...	1200	20	3	2	450	460	3	5	2
19...	--	<10	--	2	--	--	--	--	2
28...	950	<10	2	2	360	420	4	5	1

Table 1. Water-quality records at continuing-record sites--Continued

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CA--Continued

WATER QUALITY DATA									
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM, TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY, DIS- SOLVED (UG/L AS HG)
APR 1987									
09...	1700	13	<5	20	18	110	24	0.4	<0.1
23...	2300	18	<5	<10	--	140	29	0.2	<0.1
MAY									
07...	7300	4	<5	50	15	620	23	<0.1	<0.1
18...	3500	18	<5	10	13	200	14	0.1	<0.1
JUN									
02...	8100	9	<5	20	13	400	13	<0.1	<0.1
17...	2800	8	<5	20	11	180	22	<0.1	<0.1
JUL									
08...	5800	11	<5	10	14	250	24	<0.1	<0.1
13...	--	--	--	--	--	--	--	--	--
21...	3200	15	<5	20	21	230	24	<0.1	<0.1
AUG									
05...	5300	17	<5	20	19	250	30	<0.1	<0.1
17...	4400	16	<5	20	12	210	26	<0.1	<0.1
SEP									
09...	2900	17	<5	--	9	150	27	<0.1	0.1
21...	2000	19	--	10	8	140	22	<0.1	<0.1
OCT									
07...	1600	15	<5	10	16	360	39	<0.1	<0.1
22...	2000	12	<5	10	7	130	38	<0.1	<0.1
NOV									
04...	2200	16	<5	20	15	150	31	<0.1	<0.1
16...	--	12	--	--	8	--	30	--	<0.1
19...	--	14	<5	<10	4	130	29	0.1	<0.1
DEC									
02...	1300	20	<5	<10	10	110	41	<0.1	<0.1
17...	1100	13	5	10	15	100	59	<0.1	<0.1
JAN 1988									
07...	1400	22	<5	20	11	130	62	<0.1	<0.1
11...	--	--	--	--	--	--	--	--	--
22...	2900	9	<5	20	15	190	45	<0.1	<0.1
FEB									
03...	1900	13	<5	20	19	170	61	<0.1	<0.1
19...	1800	8	<5	20	24	140	60	<0.1	<0.1
MAR									
03...	3000	8	<5	20	17	160	27	<0.1	<0.1
16...	2500	12	<5	10	11	140	20	<0.1	<0.1
APR									
05...	--	4	--	--	--	--	26	0.1	<0.1
21...	3700	22	<5	20	8	220	23	<0.1	<0.1
MAY									
02...	2000	10	<5	20	12	130	43	<0.1	<0.1
19...	2000	14	<5	20	9	140	45	<0.1	<0.1
JUN									
10...	4500	8	<5	20	13	210	33	<0.1	<0.1
24...	4700	8	<5	20	14	250	19	<0.1	<0.1
JUL									
07...	4900	16	<5	20	14	260	27	0.7	<0.1
18...	4200	--	<5	20	--	220	--	<0.1	--
AUG									
09...	4400	32	5	20	14	230	33	<0.1	<0.1
26...	4000	12	53	20	13	200	23	<0.1	--
SEP									
08...	1700	13	<5	20	15	160	28	<0.1	<0.1
19...	--	15	--	--	11	--	33	--	<0.1
28...	1400	51	<5	10	--	120	100	<0.1	<0.1

Table 1. Water-quality records at continuing-record sites--Continued

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CA--Continued

WATER QUALITY DATA								
DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 1987								
09...	2	3	6	2	6	2	10	9
23...	1	<1	4	3	1	1	<10	--
MAY								
07...	7	2	17	<1	2	2	30	5
18...	--	<10	8	3	2	1	30	5
JUN								
02...	4	4	15	<1	1	2	30	<3
17...	<2	<1	8	<1	2	2	<10	12
JUL								
08...	--	5	9	5	2	2	20	<3
13...	--	--	--	--	--	--	--	--
21...	<2	1	18	<1	1	2	<10	12
AUG								
05...	--	5	15	1	2	2	20	4
17...	4	2	8	3	2	2	20	<3
SEP								
09...	4	3	7	2	2	1	<10	3
21...	3	<10	4	<1	3	2	10	3
OCT								
07...	2	2	6	<1	1	1	10	6
22...	3	3	1	<1	<1	<1	10	<3
NOV								
04...	4	3	3	2	3	1	10	3
16...	--	<10	--	<1	--	1	--	18
19...	2	3	8	<1	1	1	<10	<3
DEC								
02...	3	2	3	1	1	1	<10	5
17...	4	4	--	4	1	1	<10	<3
JAN 1988								
07...	6	5	3	2	2	2	10	<3
11...	--	--	--	--	--	--	--	--
22...	7	4	13	1	1	2	20	4
FEB								
03...	6	6	7	<1	5	5	20	<3
19...	6	5	7	1	6	6	40	4
MAR								
03...	6	5	8	<1	3	4	10	<3
16...	5	<10	6	<1	2	3	10	4
APR								
05...	--	3	--	5	2	3	--	4
21...	3	4	12	2	3	3	10	<3
MAY								
02...	4	2	6	<1	2	3	--	17
19...	2	<10	8	<1	2	2	10	6
JUN								
10...	7	4	14	<1	2	2	20	6
24...	6	1	7	<1	2	2	<10	8
JUL								
07...	5	1	14	2	2	2	30	7
18...	6	--	10	--	4	--	20	--
AUG								
09...	5	2	17	7	2	2	20	5
26...	6	4	14	3	3	3	20	<3
SEP								
08...	3	3	7	1	2	2	<10	7
19...	--	<10	--	3	--	2	--	4
28...	6	3	4	<1	2	2	10	13

Table 1. Water-quality records at continuing-record sites--Continued

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	732	710	720	521	487	508	679	657	668	761	734	751
2	754	724	742	515	483	501	862	657	702	745	707	726
3	735	689	706	572	517	543	761	704	734	765	732	743
4	711	689	697	598	570	585	795	752	777	802	772	788
5	684	648	662	635	571	610	784	752	767	797	764	781
6	686	656	676	640	598	620	778	720	749	781	759	768
7	689	649	668	681	629	657	736	699	725	826	772	807
8	652	632	642	702	671	684	895	690	782	848	790	817
9	685	642	666	728	669	700	714	682	702	820	772	796
10	715	688	700	679	635	665	703	657	686	869	771	822
11	747	717	729	633	614	621	686	647	669	865	801	834
12	774	748	756	684	623	659	674	650	662	791	753	771
13	797	---	e680	700	644	669	696	646	675	781	759	772
14	666	446	576	690	653	675	682	628	658	821	766	793
15	500	---	e550	660	649	654	713	636	684	774	749	759
16	506	---	e520	663	633	647	695	657	676	795	745	770
17	512	469	497	664	628	648	695	664	682	796	743	768
18	543	505	517	654	616	631	755	685	729	812	766	786
19	557	544	550	692	650	669	750	727	739	782	758	770
20	541	494	521	679	629	653	743	690	722	772	716	735
21	534	490	517	673	654	666	721	672	694	768	741	758
22	527	501	511	670	620	651	770	701	727	751	729	742
23	---	---	e521	625	605	615	812	781	799	767	737	751
24	536	524	531	635	607	624	808	782	798	757	729	745
25	556	523	544	633	591	611	796	767	784	749	716	736
26	536	495	517	636	609	623	788	770	781	735	709	722
27	500	482	490	621	608	615	783	744	769	755	727	742
28	545	504	528	620	594	608	751	729	739	776	741	765
29	555	526	543	642	622	632	787	730	748	800	757	785
30	559	524	545	673	642	653	818	762	788	837	781	810
31	---	---	---	687	662	674	---	---	---	904	826	865
MONTH	---	---	e601	728	483	631	895	628	727	904	707	773
AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	919	863	896	849	800	824	812	757	789	908	898	904
2	865	836	853	838	818	827	898	806	868	926	904	917
3	865	838	851	830	799	812	924	864	900	956	923	938
4	855	822	844	838	808	825	877	853	867	981	936	959
5	922	845	890	843	831	836	886	820	866	985	973	978
6	864	778	812	836	761	805	842	808	823	973	963	968
7	836	797	817	793	748	764	858	819	832	971	951	961
8	869	828	851	779	746	761	871	822	848	968	943	957
9	843	787	819	756	734	744	930	861	896	955	910	927
10	846	798	821	805	759	786	928	812	883	933	911	923
11	816	767	797	828	771	805	812	730	767	909	896	902
12	802	759	780	869	790	841	846	757	806	907	891	898
13	813	760	790	879	826	860	763	686	740	906	886	898
14	815	776	801	851	779	821	716	656	725	887	853	871
15	848	787	815	791	700	749	727	674	708	868	841	851
16	850	810	828	755	703	734	723	669	694	910	865	870
17	910	838	870	766	724	750	765	700	735	890	851	874
18	903	826	850	776	721	753	752	697	715	853	833	843
19	870	844	857	763	748	756	779	715	745	854	832	841
20	904	849	872	780	752	769	813	779	790	864	835	853
21	874	844	857	778	756	767	834	799	816	869	841	861
22	905	826	859	826	770	801	839	811	824	870	849	860
23	918	872	887	809	784	795	860	834	849	878	858	869
24	913	834	860	800	772	787	879	853	864	877	859	868
25	839	798	820	846	806	834	891	869	880	874	851	861
26	810	790	800	832	782	805	885	868	876	909	861	878
27	803	782	793	820	738	784	911	871	887	912	888	902
28	809	763	783	770	744	758	910	892	899	915	889	903
29	855	807	837	772	722	753	936	903	923	902	889	894
30	848	813	830	787	734	761	933	925	929	892	825	851
31	830	778	807	---	---	---	925	905	912	---	---	---
MONTH	922	759	834	879	700	789	936	656	828	985	825	896

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	831	803	819	1030	978	1010	1360	1320	1340	---	---	e1060
2	831	807	819	1020	988	1000	1360	1330	1340	---	---	e1030
3	886	832	849	1000	957	979	1330	1310	1320	---	---	e1000
4	925	888	911	1010	1000	1010	---	---	e1320	960	901	931
5	931	893	915	1030	---	e1010	---	---	e1340	931	901	917
6	948	912	935	---	---	e1010	---	---	e1350	951	921	938
7	962	950	956	---	---	e1020	---	---	e1330	952	921	938
8	966	956	959	---	---	e1020	---	---	e1320	942	922	937
9	967	916	939	---	---	e1020	---	---	e1350	952	912	925
10	950	918	937	---	---	e1030	---	---	e1350	943	863	897
11	959	944	951	---	---	e1030	---	---	e1340	903	873	888
12	985	961	974	---	---	e1030	---	---	e1330	894	834	873
13	996	983	989	---	---	e1020	---	---	e1350	884	844	862
14	1020	994	1010	---	---	e1020	---	---	e1360	874	804	852
15	---	---	e1010	---	---	e1010	---	---	e1340	825	795	810
16	---	---	e1010	---	---	e1010	---	---	e1380	815	784	798
17	1020	999	1010	---	---	e1010	---	---	e1440	903	784	848
18	1030	---	e1010	1030	---	e1010	---	---	e1420	931	891	910
19	---	---	e1010	978	874	911	---	---	e1420	899	860	877
20	---	---	e1020	999	911	953	---	---	e1450	928	869	897
21	---	---	e1020	1030	---	e1000	---	---	e1430	878	847	864
22	---	---	e1020	1260	---	e1100	---	---	e1410	875	844	862
23	---	---	e1030	1300	1240	1280	---	---	e1430	883	834	864
24	---	---	e1030	1350	1290	1320	---	---	e1400	902	858	883
25	---	---	e1030	1420	1350	1370	---	---	e1380	880	831	859
26	---	---	e1030	1420	1390	1410	---	---	e1360	879	849	865
27	---	---	e1020	1400	1370	1380	---	---	e1320	858	827	839
28	---	---	e1020	1430	1380	1410	---	---	e1280	846	796	822
29	---	---	e1010	1420	1370	1400	---	---	e1100	815	763	786
30	975	944	954	1380	1310	1350	---	---	---	773	753	767
31	979	962	970	1340	1320	1330	---	---	---	811	761	789
MONTH	---	---	e973	---	---	e1110	---	---	e1360	---	---	e883
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	820	800	813	---	---	e818	750	700	722	860	818	838
2	837	808	820	---	---	e877	740	680	714	875	817	841
3	817	765	787	791	708	753	730	670	704	834	750	796
4	794	755	772	763	726	745	740	700	719	867	769	827
5	793	706	763	740	717	729	790	730	759	814	771	792
6	768	705	738	722	704	713	810	760	781	809	757	789
7	771	713	751	760	696	724	810	740	774	825	746	779
8	766	713	745	761	724	745	770	710	739	846	786	812
9	779	718	754	726	706	716	830	750	790	867	817	844
10	831	741	781	751	703	735	850	790	815	958	838	893
11	876	834	851	726	687	710	860	820	840	958	899	918
12	871	848	858	740	698	723	870	830	849	1000	899	940
13	872	816	841	732	685	710	900	840	870	991	950	974
14	816	680	728	770	696	730	890	840	864	952	921	940
15	704	682	692	814	751	780	860	800	835	983	932	961
16	708	685	700	805	717	767	790	720	746	963	853	917
17	761	698	735	811	703	777	770	720	745	904	825	869
18	785	733	760	738	704	720	790	750	769	895	---	e815
19	789	747	767	770	719	737	790	760	771	817	656	773
20	790	761	776	820	760	795	790	740	759	837	728	786
21	794	682	759	810	780	797	770	720	759	---	---	e785
22	868	732	814	820	760	792	720	670	691	---	---	e787
23	854	721	826	780	710	752	700	660	682	---	---	e770
24	811	---	e688	780	710	744	700	660	676	---	---	e765
25	645	---	e521	720	670	706	715	637	677	---	---	e760
26	696	---	e590	700	670	677	681	632	655	---	---	e750
27	645	589	620	710	660	688	726	658	692	---	---	e700
28	607	534	591	720	670	695	812	714	768	---	---	e720
29	658	583	622	750	690	720	818	790	805	---	---	e740
30	---	614	e750	760	730	744	864	785	818	---	---	e760
31	---	---	---	750	710	734	---	---	---	---	---	e770
MONTH	---	---	e740	---	---	e744	900	632	760	---	---	e820

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued***11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CA--Continued**

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 °C)

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e700	807	767	792
2	---	---	e720	846	796	826
3	---	---	e740	885	816	856
4	---	---	e780	874	824	849
5	---	---	e800	934	884	912
6	---	---	e820	963	872	928
7	---	---	e840	862	811	838
8	---	---	e840	861	791	823
9	---	---	e840	840	791	816
10	865	815	841	820	760	799
11	905	835	871	829	799	816
12	884	815	858	848	799	825
13	914	874	889	888	818	852
14	874	834	859	828	797	815
15	914	864	896	797	697	766
16	894	854	875	736	696	721
17	884	833	862	745	676	706
18	843	803	817	765	685	722
19	813	783	797	774	734	759
20	833	783	807	764	684	734
21	843	773	812	723	653	696
22	893	813	863	753	722	738
23	902	843	873	772	702	741
24	862	822	839	781	741	762
25	852	802	827	801	741	777
26	842	801	817	801	760	784
27	821	771	802	800	760	779
28	821	760	783	---	---	e840
29	780	740	766	946	868	904
30	828	769	804	955	915	942
31	838	807	824	---	---	---
MONTH	---	---	e821	---	---	e804

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CA--Continued

WATER TEMPERATURE (°C)												
APRIL 1987				MAY 1987			JUNE 1987			JULY 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	14.0	16.5	18.5	14.0	16.0	22.5	18.5	20.5	23.0	20.0	21.5
2	18.0	14.5	16.0	18.5	14.0	16.5	24.0	19.0	21.5	23.5	19.5	21.5
3	17.5	14.5	15.5	21.0	15.0	18.0	25.0	20.5	23.0	23.0	19.0	21.0
4	17.5	13.5	15.5	23.0	16.0	19.5	24.5	20.5	22.5	23.0	19.0	21.0
5	17.5	12.5	15.5	25.0	18.0	21.5	22.5	20.0	21.5	23.5	19.5	21.5
6	18.5	12.5	16.0	26.5	19.0	23.0	22.5	19.0	20.5	25.0	20.0	22.5
7	19.5	14.0	17.0	25.5	19.5	22.5	23.0	18.5	20.5	26.0	21.0	23.5
8	21.5	14.5	18.5	24.0	20.5	22.0	24.0	19.5	22.0	26.0	21.5	24.0
9	21.0	14.0	17.5	24.5	20.0	22.5	24.0	19.5	22.0	26.5	22.0	24.5
10	19.5	14.0	17.0	25.0	21.0	23.0	25.0	21.0	23.0	26.0	21.5	24.0
11	17.0	14.0	15.5	25.5	21.0	23.0	25.0	21.0	23.0	26.0	21.5	23.5
12	17.5	12.0	14.5	25.5	21.0	23.5	25.5	21.0	23.0	26.0	22.0	23.5
13	22.5	9.5	14.5	25.0	21.5	23.5	25.5	22.0	23.5	26.5	22.0	24.0
14	21.0	15.5	18.5	25.5	21.0	23.0	24.0	21.0	22.0	27.5	22.5	25.0
15	27.5	14.0	18.5	25.0	21.5	23.5	23.0	20.0	21.5	27.5	23.0	25.0
16	25.0	9.5	17.5	24.0	21.0	22.5	22.5	19.0	21.0	27.0	22.5	24.5
17	19.0	16.5	17.5	22.0	19.0	20.5	21.5	18.0	20.0	23.0	20.5	22.5
18	17.0	15.0	16.0	21.5	17.5	20.0	23.0	18.0	20.5	23.0	19.0	21.0
19	16.5	13.5	15.0	21.0	17.5	19.5	23.5	19.5	21.5	23.0	18.5	20.5
20	17.5	13.5	15.5	20.5	17.5	19.0	23.0	19.5	21.0	22.5	18.5	20.5
21	19.0	14.5	17.0	20.5	17.5	19.0	22.5	19.5	21.0	22.0	18.5	20.5
22	20.0	15.5	18.0	21.0	13.5	19.0	24.0	19.5	22.0	23.0	18.5	20.5
23	---	---	e18.0	21.0	17.0	19.0	25.5	20.5	23.0	23.0	18.5	21.0
24	19.5	15.0	17.5	20.0	16.0	18.0	26.5	21.5	24.0	23.5	18.5	21.0
25	20.5	15.5	18.5	19.5	15.0	17.5	27.0	22.5	25.0	23.5	19.5	21.5
26	21.5	16.5	19.0	19.5	16.0	18.0	27.0	23.5	25.0	23.5	19.0	21.5
27	22.5	16.5	20.0	20.0	16.0	18.0	26.0	22.0	24.0	23.5	19.0	21.5
28	21.0	18.0	19.5	21.0	16.5	19.0	24.0	20.5	22.5	23.5	18.5	21.5
29	21.0	16.0	18.5	20.5	17.5	19.0	24.0	20.5	22.5	23.0	19.5	21.0
30	19.0	15.5	17.5	21.0	16.5	19.0	23.5	20.5	22.0	23.5	18.5	21.0
31	---	---	---	21.5	17.5	19.5	---	---	---	24.5	19.5	22.0
MONTH	---	---	e17.0	26.5	13.5	20.2	27.0	18.0	22.2	27.5	18.5	22.2
AUGUST 1987				SEPTEMBER 1987			OCTOBER 1987			NOVEMBER 1987		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	26.5	21.0	23.5	26.5	22.0	24.5	21.5	17.5	19.5	17.5	15.5	16.5
2	27.0	22.5	25.0	27.0	22.5	25.0	21.0	17.0	19.0	17.0	14.0	15.0
3	27.5	23.0	25.0	27.0	23.0	25.0	22.0	17.5	19.5	17.5	13.5	15.0
4	27.5	23.0	25.0	25.0	21.5	23.0	22.5	18.0	20.0	16.5	12.0	13.5
5	27.5	23.0	25.0	23.5	20.0	22.0	22.0	17.5	20.0	14.5	12.0	13.0
6	27.0	22.5	25.0	22.5	19.0	21.0	22.0	17.5	19.5	14.5	12.5	13.0
7	26.5	22.5	24.5	22.5	19.0	21.0	22.0	18.0	20.0	17.0	12.5	14.0
8	26.0	22.0	24.0	23.0	19.0	21.5	21.0	17.0	19.0	16.0	12.0	14.0
9	26.0	22.0	24.0	23.5	19.0	21.0	20.0	17.0	18.0	15.5	13.5	14.0
10	25.5	21.5	23.5	21.5	17.5	19.5	20.0	15.5	17.5	15.0	12.5	13.5
11	25.0	21.0	23.0	21.0	17.0	19.0	20.0	16.0	18.0	15.5	11.5	13.5
12	24.5	21.0	23.0	20.0	16.0	18.5	20.0	16.0	18.0	13.5	11.0	12.5
13	24.5	20.5	22.5	20.0	16.0	18.5	20.5	16.0	18.0	13.0	11.5	12.0
14	23.5	20.5	22.0	20.5	16.5	18.5	21.5	16.5	18.0	14.0	11.5	12.5
15	23.5	19.5	21.5	20.5	17.0	18.5	20.0	16.0	18.0	13.0	10.0	11.5
16	24.5	20.0	22.5	20.0	16.5	18.0	19.5	15.5	17.5	13.0	10.5	11.5
17	25.0	21.0	23.0	20.0	15.5	18.0	20.0	15.5	17.5	11.5	9.5	10.5
18	24.5	21.0	23.0	20.0	16.0	18.0	20.5	15.5	17.5	13.5	11.0	12.0
19	23.5	20.5	22.0	20.0	16.0	18.0	20.5	16.0	18.5	14.0	11.0	12.0
20	23.0	19.5	21.5	20.5	16.0	18.5	19.0	15.5	17.5	12.5	10.5	11.5
21	23.5	19.5	21.5	21.0	16.5	19.0	20.0	16.0	17.5	11.0	10.0	10.5
22	23.5	19.5	22.0	21.0	17.0	19.0	19.0	16.0	18.0	12.5	9.0	10.5
23	23.0	19.5	21.5	20.0	16.5	18.0	21.0	17.0	18.5	11.5	9.0	10.0
24	23.5	19.0	21.5	20.0	16.0	18.0	22.0	17.5	19.5	11.5	8.0	10.0
25	24.5	20.5	22.5	20.0	16.0	18.0	22.5	17.0	19.5	11.5	8.5	9.5
26	25.0	21.0	23.0	20.0	16.5	18.0	22.0	17.5	19.5	10.5	7.0	8.5
27	24.5	21.0	23.0	20.5	16.0	18.0	20.5	18.0	19.0	10.0	7.0	8.5
28	25.5	21.0	23.5	20.5	16.0	18.5	20.5	17.5	18.5	12.0	8.5	10.0
29	26.0	21.5	24.0	21.0	16.5	19.0	20.5	18.0	19.0	11.5	8.0	9.0
30	27.0	22.5	24.5	21.5	17.0	19.0	19.5	17.0	18.0	9.5	8.0	8.5
31	26.5	22.5	24.5	---	---	---	18.0	16.5	17.5	---	---	---
MONTH	27.5	19.0	23.2	27.0	15.5	19.7	22.5	15.5	18.5	17.5	7.0	11.9

e Estimated

Table 1. Water-quality records at continuing-record sites--Continued

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CA--Continued

WATER TEMPERATURE (°C)

DECEMBER 1987				JANUARY 1988			FEBRUARY 1988			MARCH 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.5	8.5	10.0	5.5	4.0	5.0	12.0	9.5	10.5	---	---	e15.5
2	14.0	10.5	12.0	6.0	5.0	5.5	12.5	9.0	10.5	---	---	e15.5
3	15.5	11.5	13.0	6.5	5.0	6.0	12.0	8.5	10.0	---	---	e15.0
4	13.0	11.0	12.0	9.5	6.5	8.0	---	---	e10.0	17.5	12.5	15.0
5	12.0	10.0	11.0	10.0	9.0	9.5	---	---	e10.5	18.0	13.0	15.0
6	12.0	9.5	10.5	9.5	9.0	9.5	---	---	e10.5	18.5	13.5	15.5
7	12.0	8.5	10.5	9.5	8.0	9.0	---	---	e11.0	18.5	13.0	15.5
8	9.5	8.0	9.0	10.5	8.5	9.5	---	---	e11.0	18.0	12.0	14.5
9	11.5	9.0	10.5	11.5	9.0	10.0	---	---	e11.5	17.0	12.0	14.5
10	13.0	10.0	11.0	12.0	10.0	11.0	---	---	e11.5	15.0	10.5	12.5
11	12.0	8.0	10.5	13.5	10.0	11.5	---	---	e12.0	14.5	9.5	11.5
12	9.5	5.5	8.0	12.5	9.0	10.5	---	---	e12.0	14.5	9.5	11.5
13	7.5	3.5	5.5	12.5	8.5	10.0	---	---	e12.5	15.5	9.0	12.0
14	5.0	2.5	3.5	11.5	8.0	9.5	---	---	e12.5	16.0	9.5	12.5
15	4.0	2.5	3.0	10.5	8.5	9.5	---	---	e13.0	16.0	10.5	13.0
16	5.0	3.0	4.0	9.5	7.0	8.5	---	---	e13.0	16.5	11.0	13.5
17	7.5	4.5	6.0	8.5	7.0	8.0	---	---	e12.5	17.0	10.5	13.5
18	7.5	4.0	6.0	10.0	6.5	8.0	---	---	e12.0	17.5	11.5	14.5
19	9.0	5.5	7.0	9.5	6.5	7.5	---	---	e11.5	18.0	12.5	15.5
20	8.0	4.5	6.0	9.5	5.0	7.0	---	---	e11.5	18.0	13.5	15.5
21	8.0	7.0	7.5	10.0	6.0	7.5	---	---	e12.0	16.5	13.5	15.0
22	10.5	7.0	8.0	10.0	6.0	7.5	---	---	e12.5	17.0	12.5	15.0
23	8.5	4.5	6.5	10.5	6.5	8.5	---	---	e13.0	17.5	13.0	14.5
24	6.5	3.5	4.5	11.5	6.5	9.0	---	---	e13.5	16.5	12.0	14.5
25	6.5	2.5	4.0	12.0	8.0	9.5	---	---	e14.0	18.0	12.5	15.5
26	6.0	2.0	4.0	11.0	8.0	9.5	---	---	e14.5	18.5	13.0	16.0
27	4.5	2.5	3.5	12.5	8.5	10.0	---	---	e14.5	16.0	12.0	14.0
28	6.5	4.0	5.5	11.5	9.5	10.5	---	---	e15.0	15.0	10.5	13.0
29	6.5	4.5	6.0	12.5	10.0	11.0	---	---	e15.0	16.5	10.5	14.0
30	8.5	5.5	6.5	14.0	10.5	12.0	---	---	---	16.0	12.0	14.0
31	8.5	5.5	7.0	13.5	10.0	11.5	---	---	---	16.5	11.0	14.0
MONTH	15.5	2.0	7.5	14.0	4.0	9.0	---	---	e12.2	---	---	e14.2
APRIL 1988				MAY 1988			JUNE 1988			JULY 1988		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	11.0	14.5	16.0	13.0	14.5	22.5	18.0	20.0	25.0	19.5	22.5
2	18.5	12.0	15.5	18.0	12.5	15.5	23.5	18.0	21.0	26.0	20.5	23.5
3	16.5	12.0	14.5	18.5	14.5	16.5	23.0	18.5	20.5	25.5	21.0	23.5
4	17.5	12.5	15.0	18.0	13.5	15.5	20.5	17.0	18.5	23.5	19.0	21.5
5	19.0	13.0	16.0	16.0	13.0	14.5	19.0	15.5	17.5	23.0	18.0	21.0
6	19.5	14.0	16.5	16.0	12.5	14.0	17.0	13.5	15.5	23.5	18.5	21.0
7	20.0	15.0	17.0	16.0	12.0	14.5	18.0	14.0	16.0	25.5	19.0	22.5
8	18.0	13.5	15.5	18.0	14.0	16.0	19.0	14.0	16.5	25.0	20.5	22.5
9	18.5	13.0	16.0	19.5	16.0	18.0	20.5	15.5	18.0	26.0	21.0	23.5
10	20.5	14.5	17.5	21.5	17.0	19.5	21.5	17.0	19.5	26.5	22.0	24.0
11	21.5	16.0	19.0	24.0	19.0	21.5	22.0	17.5	20.0	26.0	21.0	23.5
12	20.5	16.5	18.5	23.5	18.5	21.0	23.5	17.5	20.5	25.0	21.0	23.0
13	18.0	15.0	16.5	21.5	17.5	20.0	24.0	19.0	21.5	24.5	19.5	22.0
14	16.0	13.0	14.5	23.0	17.5	20.5	24.5	19.5	22.0	24.5	19.5	22.5
15	16.0	13.5	14.5	23.5	18.0	21.5	23.5	19.5	21.5	24.5	18.0	21.5
16	15.0	13.5	14.0	21.0	18.5	19.5	22.5	18.5	20.5	25.5	16.5	21.0
17	17.5	13.0	15.5	21.0	17.0	19.0	22.5	18.0	20.5	25.0	20.0	22.5
18	18.0	13.5	16.0	22.0	16.5	19.5	23.5	19.0	21.0	27.0	18.0	23.0
19	16.0	13.5	14.5	23.0	19.0	21.0	25.0	19.0	22.0	28.5	20.5	24.0
20	16.0	12.0	14.5	25.0	18.0	22.5	23.0	19.0	21.0	26.0	20.5	22.5
21	17.5	14.0	16.0	26.0	20.5	23.5	22.5	18.0	20.0	---	---	e22.5
22	16.0	12.5	15.0	24.0	21.0	22.5	23.0	18.5	21.0	---	---	e22.5
23	16.0	11.5	14.5	24.5	20.0	22.0	23.0	19.0	21.0	---	---	e22.5
24	17.5	13.5	16.0	24.0	19.0	21.5	23.0	18.5	21.0	---	---	e22.5
25	18.0	14.5	16.5	22.5	18.5	20.5	21.5	18.0	19.5	---	---	e23.0
26	19.5	15.5	18.0	21.5	17.5	19.5	22.5	17.5	20.0	---	---	e23.0
27	20.0	17.0	18.5	22.5	17.5	20.0	22.5	18.5	20.5	---	---	e23.0
28	19.0	16.0	18.0	20.5	16.5	18.5	22.0	17.5	20.0	---	---	e23.0
29	19.0	16.0	17.5	18.5	15.5	17.0	21.5	17.5	19.5	---	---	e23.0
30	17.0	14.0	15.5	19.5	15.0	17.5	22.5	17.0	20.0	---	---	e23.0
31	---	---	---	21.5	16.0	18.5	---	---	---	---	---	e22.5
MONTH	21.5	11.0	16.0	26.0	12.0	18.9	25.0	13.5	19.9	---	---	e22.6

e Estimated

Table 1. Water-quality records at continuing-record sites--*Continued*11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CA--*Continued*

WATER TEMPERATURE (°C)

DAY	AUGUST 1988			SEPTEMBER 1988		
	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	e22.5	26.5	20.0	23.5
2	---	---	e22.5	26.0	19.5	23.0
3	---	---	e22.5	27.0	19.5	23.5
4	---	---	e22.5	27.0	20.5	24.0
5	---	---	e22.0	28.0	20.5	24.5
6	---	---	e22.0	26.5	20.0	23.0
7	---	---	e21.5	24.0	19.5	21.5
8	---	---	e20.5	22.5	17.5	20.0
9	---	---	e20.5	23.0	15.5	20.0
10	23.0	18.5	21.0	22.5	18.0	20.5
11	22.5	18.5	20.5	23.0	18.5	20.5
12	21.5	17.5	20.0	22.5	17.5	20.0
13	21.5	17.0	19.5	22.5	17.0	18.5
14	21.0	17.0	19.0	23.0	17.5	20.5
15	22.5	16.5	19.5	22.5	18.0	20.0
16	23.0	17.0	20.5	23.0	16.5	19.5
17	24.0	15.5	20.5	21.5	16.0	18.0
18	24.0	16.5	21.0	21.0	15.0	17.5
19	24.0	18.0	21.5	20.0	14.5	17.0
20	24.0	18.0	21.0	19.5	15.0	17.0
21	22.5	18.0	20.5	20.0	15.0	17.5
22	23.5	18.5	21.0	20.5	15.0	18.0
23	23.5	19.0	21.0	21.0	15.5	18.0
24	24.0	18.5	21.5	21.0	15.5	17.5
25	25.0	19.0	22.0	18.5	14.5	16.0
26	25.5	19.5	23.0	19.0	13.5	16.5
27	25.0	19.5	22.5	19.5	14.5	17.0
28	25.0	19.5	22.0	---	---	e18.0
29	24.5	19.0	22.0	23.0	16.0	19.0
30	25.0	19.5	22.5	23.5	16.5	20.0
31	26.5	20.0	23.5	---	---	---
MONTH	---	---	e21.4	---	---	e19.6

e Estimated

Table 2. Water-quality records at ground-water sites

[Water-quality data in this table are separated into four groups--physical properties, major constituents, and nutrients; trace elements; pesticides and volatile organic compounds; and stable isotopes]

PHYSICAL PROPERTIES, MAJOR CONSTITUENTS, AND NUTRIENTS									
WELL NO.	SITE IDENTIFICATION NO.	DATE	TIME	DEPTH OF WELL, TOTAL (FT)	ELEV. OF LAND SURFACE DATUM (FT ABOVE SEA LEVEL)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE, WATER (°C)	HARD-NESS, (MG/L AS CaCO3)
020S026E04D01M	361328119101501	07-30-87	0950	180	325	1010	7.6	19.0	370
020S026E03N01M	361250119090801	07-30-87	1130	360	335	480	7.8	23.0	88
020S024E22C01M	361003119212501	07-28-87	1145	236	270	244	9.2	21.5	7
020S024E02B01M	361327119200801	07-28-87	1010	702	294	171	8.9	20.0	37
019S027E19F01M	361551119054501	08-05-87	0915	450	374	1680	7.7	21.0	570
019S025E32P02M	361336119172601	07-28-87	1315	182	305	603	7.7	20.5	280
019S023E34P02M	361338119275501	07-28-87	1530	208	255	328	7.6	20.0	140
019S023E01A03M	361844119251501	07-28-87	1700	510	281	961	7.4	19.0	370
019S021E15R01M	361620119402001	07-29-87	1815	94	232	635	7.9	20.0	97
018S026E26P02M	361940119073001	08-04-87	1615	196	412	801	7.6	22.0	300
018S026E02J01M	362325119070501	08-04-87	1300	104	415	154	7.9	19.5	67
018S024E19M01M	362047119250301	07-29-87	1045	400	283	144	8.7	23.5	7
018S022E21P01M	362036119353901	07-29-87	1630	240	251	500	7.6	21.0	170
018S022E08F02M	362259119363401	07-23-87	1215	364	258	283	8.0	20.0	120
018S020E34L01M	361905119472901	07-22-87	1315	232	225	306	9.1	20.5	10
018S020E29R01M	361942119491001	07-22-87	1415	40	220	163	6.8	19.5	52
017S027E31N03M	362402119054301	08-04-87	1000	170	427	562	7.7	21.0	210
017S025E21D01M	362624119163301	07-29-87	1215	330	333	672	7.9	22.0	190
017S025E03C01M	362909119150901	07-29-87	1330	88	345	263	7.9	21.5	110
017S019E22N01M	362552119540501	07-22-87	1545	200	210	770	8.6	20.0	15
017S019E05A01M	362908119553201	08-03-87	1530	510	210	622	8.0	22.0	110
016S024E26M01M	363029119202001	07-21-87	1100	120	330	766	7.6	21.0	330
016S024E07A01M	363335119234801	07-09-87	1530	290	336	477	7.8	22.0	200
016S022E10H01M	363317119332901	07-21-87	1000	120	318	964	7.5	19.0	420
016S022E09B01M	363340119345801	08-05-87	1245	320	310	152	8.1	20.5	39
016S020E35M01M	362948119461901	07-21-87	1400	438	240	216	9.4	23.0	510
016S020E27M02M	363032119472101	07-21-87	1530	200	240	262	8.2	20.5	48
016S018E15D01M	363245120002001	07-08-87	1430	380	195	295	8.0	23.0	57
015S025E17G01M	363730119162801	07-10-87	0915	85	476	810	7.4	20.5	380
015S025E08N01M	363804119170201	07-20-87	1640	128	460	1030	7.2	20.0	470
015S023E13F01M	363744119251801	07-09-87	1315	215	369	608	7.4	21.0	270
015S023E07C01M	363852119305201	07-09-87	1040	150	352	323	7.0	19.5	86
015S021E10Q01M	363807119401701	07-09-87	0900	240	307	331	7.8	22.5	110
015S021E03E01M	363940119404901	07-08-87	1045	115	311	424	7.5	20.5	200
015S019E35D01M	363552119523201	07-08-87	1300	240	239	705	7.8	21.0	180
015S019E29H01M	363553119550601	07-08-87	0900	237	230	708	7.8	22.5	230
015S017E23D01M	363704120053401	07-07-87	1500	492	187	1330	7.8	23.5	79
015S017E05F01M	363918120083101	07-07-87	1200	255	182	2220	7.4	20.5	480
015S014E02 MDS-26.5	363902120242567	04-01-87	1625	26	211	23400	7.6	19.5	3800
015S014E02 MCS-28.1	363902120242564	04-01-87	1415	28	211	21800	7.6	20.0	3900
015S014E02 MBS-28	363902120242561	04-01-87	1400	28	211	22400	7.6	22.5	2600
		09-01-88	0805	28	211	22900	7.5	19.5	4500
015S014E02 MA-50	363915120242002	06-30-87	1100	51	211	9240	7.6	20.0	2800
015S014E02 M5-50	363906120244622	06-09-87	1145	51	211	7960	7.6	23.0	2100
		07-21-88	0800	51	211	10500	7.8	20.0	2200
015S014E02 M5-40	363906120244623	07-01-87	1350	39	211	7480	8.0	22.0	3200
		07-21-88	1030	39	211	7410	7.7	27.0	2300
015S014E02 M5-30	363906120244624	06-09-87	1730	31	211	12600	8.0	21.0	2000
		07-21-88	0900	31	211	14600	7.9	21.0	2000
015S014E02 M5-20	363906120244625	06-09-87	1430	21	211	9930	7.9	20.0	2200
		07-21-88	1230	21	211	10400	7.7	27.0	1700
015S014E02 M4-50	363906120244619	06-10-87	1100	51	211	8930	7.6	24.5	2800
		07-20-88	1230	51	211	11700	7.5	27.0	3000
015S014E02 M4-30	363906120244620	06-10-87	1430	31	211	16200	7.9	24.0	3100
		07-20-88	1300	31	211	18000	7.8	23.5	2800
015S014E02 M4-20	363906120244621	06-10-87	1145	21	211	19000	7.8	23.0	2800
		07-22-88	0900	21	211	19900	7.7	25.5	3400
015S014E02 M1-50	363906120244614	06-11-87	1630	51	211	9500	7.5	26.0	3000
015S014E02 M1-40	363906120244615	07-01-87	1145	41	211	14700	7.8	22.0	2700
015S014E02 M1-30	363906120244616	06-11-87	1330	31	211	13000	7.8	22.0	2700
015S014E02 M1-20	363906120244617	06-11-87	1230	21	211	8440	7.9	22.0	2200
		07-20-88	0930	21	211	9730	7.6	24.5	1900
015S014E02 M1-10	363906120244618	06-11-87	1115	11	211	9900	7.5	21.5	2200
		07-20-88	0800	11	211	10100	7.4	20.5	1600
015S014E01 MF-29	363902120242569	10-22-87	0830	30	211	9470	7.6	20.0	2000

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	CALCIUM, DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY, CARBON- ATE IT-FLD MG/L AS CACO3	SULFATE, DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
020S026E04D01M	92	33	70	29	6.0	372	51	63	0.2
020S026E03N01M	17	11	66	61	2.3	156	22	49	0.3
020S024E22C01M	2.5	0.09	51	94	0.20	108	10	7.4	0.3
020S024E02B01M	14	0.40	25	59	1.0	76	6.1	4.6	0.2
019S027E19F01M	120	64	100	28	4.0	182	32	370	0.2
019S025E32P02M	86	15	13	9	1.4	244	14	24	0.1
019S023E34P02M	49	4.4	13	17	0.50	148	12	3.7	0.2
019S023E01A03M	130	9.7	49	23	1.3	298	75	94	0.1
019S021E15R01M	28	6.4	110	71	0.60	318	32	9.4	0.7
018S026E26P02M	69	31	58	29	3.5	282	49	55	0.2
018S026E02J01M	17	6.0	5.9	16	1.0	66	4.7	5.8	0.2
018S024E19M01M	2.7	0.04	28	89	0.40	67	4.5	4.6	0.3
018S022E21P01M	57	5.6	40	34	1.4	196	31	23	0.2
018S022E08F02M	37	6.5	14	20	2.1	124	9.8	4.4	0.2
018S020E34L01M	2.6	0.80	75	94	0.30	163	10	5.1	1.2
018S020E29R01M	14	4.0	7.9	23	5.0	55	11	6.7	0.1
017S027E31N03M	48	21	32	25	4.6	166	22	56	0.2
017S025E21D01M	44	19	65	42	3.0	195	30	70	0.4
017S025E03C01M	21	15	12	18	0.70	138	7.2	3.8	0.2
017S019E22N01M	6.0	0.10	170	96	0.30	213	37	110	1.3
017S019E05A01M	42	0.51	80	62	1.3	78	49	110	0.3
016S024E26M01M	89	25	37	20	3.2	161	120	11	0.1
016S024E07A01M	50	17	25	22	2.6	190	24	27	0.1
016S022E10H01M	110	35	61	24	5.2	342	110	30	0.1
016S022E09B01M	11	2.7	16	46	1.9	59	4.5	5.1	0.2
016S020E35M01M	7.0	120	37	14	0.80	266	13	16	0.2
016S020E27M02M	17	1.4	36	60	2.8	91	7.9	4.2	0.3
016S018E15D01M	20	1.7	34	55	3.0	70	18	34	0.2
015S025E17G01M	98	33	34	16	2.8	224	140	29	<0.1
015S025E08N01M	120	41	51	19	3.7	209	220	46	0.2
015S023E13F01M	67	25	33	21	3.0	220	83	10	0.2
015S023E07C01M	23	7.0	9	18	1.7	66	23	3.1	<0.1
015S021E10Q01M	31	6.7	26	34	3.9	116	19	21	0.2
015S021E03E01M	46	20	16	15	2.8	444	12	3.0	0.1
015S019E35D01M	61	7.3	74	45	9.5	197	55	62	<0.1
015S019E29H01M	68	14	55	33	11	182	35	81	0.1
015S017E23D01M	29	1.4	240	85	8.2	190	34	280	0.3
015S017E05F01M	150	25	190	45	16	392	130	400	<0.1
015S014E02 MDS-26.5	530	610	4500	72	3.9	199	6800	5400	<0.1
015S014E02 MCS-28.1	540	610	4000	69	3.6	178	5900	4700	<0.1
015S014E02 MBS-28	480	350	3900	76	3.4	175	6200	4900	<0.1
	580	730	5000	71	3.6	189	6800	4800	<0.1
015S014E02 MA-50	530	350	1300	51	1.8	100	9300	140	0.3
015S014E02 M5-50	470	220	3700	79	2.2	110	7100	460	0.1
	250	390	2100	67	1.1	80	6100	380	0.1
015S014E02 M5-40	360	570	1200	45	1.3	80	1500	190	0.1
	450	280	1200	53	1.3	92	3800	460	0.1
015S014E02 M5-30	410	230	2400	73	1.5	95	8500	290	0.1
	140	400	3400	79	2.3	94	8600	380	<0.1
015S014E02 M5-20	450	250	2300	70	3.1	149	5200	840	0.1
	300	230	2000	72	2.5	143	4600	750	<0.1
015S014E02 M4-50	460	410	1900	59	1.7	163	6500	300	0.1
	420	470	2300	63	1.9	152	6900	370	<0.1
015S014E02 M4-30	370	540	4200	74	2.8	140	6700	910	0.1
	390	440	3900	75	3.0	133	10000	690	<0.1
015S014E02 M4-20	410	430	5100	80	9.0	241	9800	1900	0.1
	460	540	5300	77	5.0	230	11000	1800	0.1
015S014E02 M1-50	490	440	1700	55	2.0	e108	4800	1000	0.1
015S014E02 M1-40	520	350	3300	72	1.7	--	3700	1000	0.2
015S014E02 M1-30	360	430	3300	73	2.0	142	8700	150	0.1
015S014E02 M1-20	360	310	2000	67	2.6	--	5300	180	0.1
	290	280	1900	69	2.4	132	5500	260	<0.1
015S014E02 M1-10	440	260	2200	69	2.6	358	5100	590	0.1
	170	290	2000	73	1.8	316	4900	520	<0.1
015S014E01 MF-29	370	260	1900	67	2.9	134	4700	600	0.2

e Estimated

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	BROMIDE, DIS- SOLVED (MG/L AS BR)	IODIDE, DIS- SOLVED (MG/L AS I)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE, DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC, TOTAL (MG/L AS C)	CARBON, ORGANIC, DIS- SOLVED (MG/L AS C)
020S026E04D01M	0.03	<0.001	59	674	<0.01	17	0.02	0.3	--
020S026E03N01M	0.08	0.072	20	291	<0.01	2.0	0.01	<0.1	--
020S024E22C01M	0.02	0.004	13	160	<0.01	2.4	0.02	<0.1	--
020S024E02B01M	0.02	0.001	15	116	<0.01	0.81	0.01	<0.1	--
019S027E19F01M	0.79	0.074	41	906	<0.01	14	<0.01	0.2	--
019S025E32P02M	0.04	0.003	29	383	<0.01	12	<0.01	<0.1	--
019S023E34P02M	0.02	0.001	30	223	<0.01	4.7	<0.01	<0.1	--
019S023E01A03M	0.07	0.044	27	599	0.17	7.1	<0.01	1.6	--
019S021E15R01M	<0.01	0.049	23	407	0.06	0.91	0.22	1.3	--
018S026E26P02M	0.12	0.009	44	498	<0.01	4.2	0.04	<0.1	--
018S026E02J01M	0.01	0.003	26	107	<0.01	<0.10	0.04	0.2	--
018S024E19M01M	<0.01	0.013	16	98	<0.01	0.29	0.01	<0.1	--
018S022E21P01M	0.05	0.009	54	345	0.01	3.2	0.01	0.8	--
018S022E08F02M	0.02	0.001	55	212	<0.01	1.8	0.02	0.3	--
018S020E34L01M	<0.01	0.031	20	215	<0.01	<0.10	0.39	1.2	--
018S020E29R01M	0.02	0.005	16	103	<0.01	1.0	0.02	0.6	--
017S027E31N03M	0.07	0.009	47	346	<0.01	3.4	0.02	0.2	--
017S025E21D01M	0.14	0.068	49	428	<0.01	6.8	<0.01	<0.1	--
017S025E03C01M	0.02	0.003	34	182	<0.01	1.1	0.02	0.1	--
017S019E22N01M	0.28	0.064	23	476	<0.01	<0.10	0.05	1.2	--
017S019E05A01M	0.20	0.046	30	366	0.11	1.2	<0.01	0.2	--
016S024E26M01M	0.11	0.004	62	582	<0.01	31	0.05	0.4	--
016S024E07A01M	0.08	0.006	62	349	<0.01	6.1	0.03	<0.1	--
016S022E10H01M	0.49	0.003	52	663	<0.01	12	0.04	0.5	--
016S022E09B01M	0.02	<0.001	28	113	<0.01	1.7	0.01	<0.1	--
016S020E35M01M	0.06	0.013	32	392	0.02	1.5	0.02	0.1	--
016S020E27M02M	0.02	0.001	44	196	<0.01	6.2	0.03	0.2	--
016S018E15D01M	0.06	0.015	38	192	<0.01	0.22	0.03	<0.1	--
015S025E17G01M	0.12	0.011	58	614	<0.01	19	0.05	0.5	--
015S025E08N01M	1.7	0.004	51	741	<0.01	18	0.05	0.5	--
015S023E13F01M	0.08	0.005	62	458	<0.01	9.6	0.04	0.2	--
015S023E07C01M	0.15	0.001	34	169	<0.01	6.4	0.02	0.2	--
015S021E10Q01M	0.06	0.001	36	223	<0.01	2.1	0.02	<0.1	--
015S021E03E01M	0.03	0.017	39	413	<0.01	1.6	0.15	0.2	--
015S019E35D01M	0.18	0.001	55	471	<0.01	6.4	0.02	0.1	--
015S019E29H01M	0.18	0.005	54	463	<0.01	7.9	0.01	<0.1	--
015S017E23D01M	0.85	0.200	65	779	0.03	1.1	0.05	0.2	--
015S017E05F01M	1.1	0.050	60	1240	<0.01	6.9	0.01	1.3	--
015S014E02 MDS-26.5	--	--	34	19000	0.68	210	--	--	16
015S014E02 MCS-28.1	--	--	34	16900	0.58	230	--	--	13
015S014E02 MBS-28	--	--	33	17000	0.41	230	--	--	14
	26	--	35	19100	0.73	220	--	--	15
015S014E02 MA-50	--	--	32	11900	0.20	46	--	--	1.6
015S014E02 M5-50	--	--	43	12200	0.04	23	--	--	3.3
	1.6	--	36	9400	0.01	17	--	--	2.5
015S014E02 M5-40	--	--	33	4020	0.02	24	--	--	2.8
	2.0	--	34	6420	0.02	29	--	--	2.5
015S014E02 M5-30	--	--	28	12000	<0.01	4.3	--	--	3.7
	1.7	--	28	13100	0.03	23	--	--	3.3
015S014E02 M5-20	--	--	42	9460	0.05	60	--	--	5.6
	3.4	--	42	8230	0.05	45	--	--	4.1
015S014E02 M4-50	--	--	53	9820	0.01	17	--	--	2.8
	1.6	--	52	10700	<0.01	16	--	--	2.5
015S014E02 M4-30	--	--	26	13100	0.13	47	--	--	4.7
	3.3	--	26	15700	0.07	26	--	--	3.8
015S014E02 M4-20	--	--	26	18200	0.56	76	--	--	11
	9.0	--	24	19600	0.12	67	--	--	8.8
015S014E02 M1-50	--	--	46	8840	<0.01	64	--	--	3.1
015S014E02 M1-40	--	--	44	--	0.07	9.5	--	--	4.0
015S014E02 M1-30	--	--	34	13100	0.02	7.4	--	--	4.4
015S014E02 M1-20	--	--	34	--	0.01	8.1	--	--	5.0
	0.96	--	34	8390	0.02	7.5	--	--	9.2
015S014E02 M1-10	--	--	62	8950	0.01	15	--	--	9.1
	1.9	--	63	8220	<0.01	15	--	--	7.4
015S014E01 MF-29	--	--	54	8260	<0.01	63	--	--	4.3

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	SITE IDENTIFICATION NO.	DATE	TIME	DEPTH OF WELL, TOTAL (FT)	ELEV. OF LAND SURFACE DATUM (FT ABOVE SEA LEVEL)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE, WATER (°C)	HARD-NESS, (MG/L AS CaCO3)
014S024E31G01M	364019119235401	06-24-87	1430	196	410	321	7.7	19.0	110
014S022E14J01M	364246119321801	06-24-87	1630	75	373	66	7.1	18.5	27
014S020E34G01M	364024119464201	06-25-87	1430	124	277	898	7.6	20.0	310
014S020E32L02M	364007119490201	06-26-87	0845	348	265	684	7.5	20.0	300
014S018E02G01M	364435119582701	07-27-87	1430	292	250	673	7.5	21.5	270
014S016E36B01M	364036120103901	07-07-87	0930	446	175	1930	8.3	23.0	37
014S016E09A03M	364356120132201	07-06-87	1400	250	174	2520	8.1	22.5	95
013S023E28R01M	364552119275401	06-25-87	0930	74	440	194	7.4	19.0	72
013S023E19G01M	364721119302901	06-25-87	1130	178	435	--	--	--	150
013S022E33R01M	364512119342601	08-05-87	1600	150	375	248	7.8	20.0	140
013S021E16M03M	364804119414801	06-24-87	0845	360	355	265	7.9	22.0	86
013S021E01G01M	364959119375201	06-23-87	1515	120	400	613	7.7	23.0	250
013S019E17H02M	364807119551001	06-23-87	1200	145	282	575	7.5	21.0	240
013S019E12K01M	364856119510201	06-23-87	0915	430	310	273	7.8	23.0	96
013S017E09L01M	364851120073701	06-22-87	1300	311	210	115	8.0	18.0	24
013S017E01P01M	364921120042301	06-17-87	1300	120	211	155	7.9	18.0	59
012S022E14F01M	365329119321701	06-18-87	1530	72	535	628	7.7	22.0	270
012S020E32M02M	365040119490701	06-18-87	0845	300	338	153	7.5	19.5	48
012S020E01N01M	365438119443301	06-18-87	1300	140	340	547	7.5	22.0	200
012S018E34D01M	365100119595301	06-17-87	1115	416	270	385	7.5	22.5	120
012S018E01P02M	365439119573301	06-17-87	0830	144	285	365	7.5	21.5	110
012S016E25M01M	365130120105401	06-17-87	1600	164	200	685	7.9	21.0	270
012S016E24P01M	365210120102301	06-19-87	0815	504	205	490	7.4	20.5	170
012S013E35N45M	365018120312645	07-12-88	1100	90	187	5200	7.3	26.0	2000
012S013E35N44M	365018120312644	07-11-88	1330	52	187	10000	7.5	25.0	3800
012S013E35N43M	365018120312643	07-12-88	1200	36	187	10600	7.7	26.5	3400
012S013E35N42M	365018120312642	07-11-88	1530	21	187	5740	7.4	25.5	2600
012S013E35N41M	365018120312641	07-12-88	1430	11	187	5600	7.4	24.5	2300
012S013E35N40M	365018120312640	07-13-88	1030	52	187	8660	7.7	23.5	3400
012S013E35N38M	365018120312638	07-12-88	1630	21	187	12000	7.6	24.0	2300
012S013E35N37M	365018120312637	07-12-88	1730	12	187	8780	7.4	20.5	1700
012S013E35N36M	365018120312636	07-13-88	1230	37	187	11800	7.8	22.0	3600
012S013E35N35M	365018120312635	07-13-88	1430	51	187	8320	7.8	24.5	3400
012S013E35N34M	365018120312634	07-13-88	1700	38	187	11500	7.7	23.0	3600
012S013E35N31M	365018120312631	07-19-88	0830	51	187	7400	7.6	21.5	2700
012S013E35N30M	365018120312630	07-19-88	1130	34	187	11500	7.6	22.0	3700
012S013E35N29M	365018120312629	07-19-88	1300	21	187	12400	7.5	26.5	4000
012S013E35N28M	365018120312628	07-19-88	1000	12	187	11000	7.6	19.5	3300
012S013E35M33M	365018120312633	07-14-88	1100	22	187	11900	7.8	21.0	2400
012S013E35 FYR-B1	365018120312632	07-13-88	1615	12	187	9540	7.6	21.0	1900
012S013E31A48M	365102120344748	09-03-87	1100	12	185	41300	7.9	--	3200
012S013E31A47M	365102120344747	07-08-87	1315	25	185	15100	8.3	21.0	2600
012S013E31A46M	365102120344746	07-08-87	1300	32	185	14700	8.7	21.5	2800
012S013E31A45M	365102120344745	07-08-87	1500	52	185	10600	7.6	21.0	2600
012S013E31A44M	365102120344744	09-03-87	1000	12	186	39400	7.8	--	3700
012S013E31A42M	365102120344742	07-30-87	1200	30	186	17600	7.9	21.5	3200
		09-03-87	1030	30	186	17800	8.0	21.5	3400
012S013E31A41M	365102120344741	07-09-87	1030	52	186	12800	8.0	22.0	2400
012S013E31A40M	365102120344740	09-02-87	1700	12	187	33600	7.7	--	2600
012S013E31A39M	365102120344739	09-02-87	1300	22	187	25100	7.9	19.5	2900
012S013E31A38M	365102120344738	09-02-87	1345	34	187	17500	7.8	21.0	2800
012S013E31A37M	365102120344737	07-10-87	1000	52	187	12800	7.7	22.0	2900
012S013E31A36M	365102120344736	09-01-87	1600	12	188	29700	7.9	22.0	2900
012S013E31A35M	365102120344735	09-01-87	1115	19	188	19900	8.0	21.0	1600
012S013E31A34M	365102120344734	09-01-87	1145	26	188	18500	8.0	23.0	2800
012S013E31A33M	365102120344733	09-02-87	0930	34	188	18100	7.9	21.0	2900
012S013E31A32M	365102120344732	07-09-87	1500	52	188	12700	8.0	21.0	2600
012S013E31A31M	365102120344731	07-29-87	1330	12	188	30500	7.9	22.5	2700
012S013E31A30M	365102120344730	07-29-87	1245	22	188	33600	8.2	20.5	3600
012S013E31A29M	365102120344729	07-29-87	1315	34	188	21900	8.2	21.0	3300
012S013E31A28M	365102120344728	07-29-87	1500	52	188	14100	8.1	22.0	2700
011S019E15D01M	365844119532601	06-16-87	1545	257	360	255	7.7	23.5	70
011S017E10E01M	365936120062901	06-16-87	0810	600	250	195	7.7	22.5	50
011S017E03A01M	370039120053101	06-16-87	1300	180	265	210	7.5	23.0	55
011S015E22C01M	365757120190601	06-15-87	1400	510	168	335	7.9	22.0	98

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	CALCIUM, DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L AS CACO3)	SULFATE, DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
014S024E31G01M	26	11	19	27	1.3	76	50	7.1	0.2
014S022E14J01M	4.3	3.9	2.9	18	1.1	29	3.0	1.1	<0.1
014S020E34G01M	73	32	68	32	3.9	288	57	44	0.1
014S020E32L02M	67	33	29	17	7.5	240	26	56	0.2
014S018E02G01M	59	29	28	18	10	220	21	66	0.2
014S016E36B01M	13	0.96	390	95	4.2	294	21	450	0.8
014S016E09A03M	33	3.0	460	91	4.2	80	15	720	0.2
013S023E28R01M	9.1	12	11	25	1.2	66	13	3.5	<0.1
013S023E19G01M	34	16	86	55	2.3	--	41	22	0.6
013S022E33R01M	18	24	19	22	2.1	116	34	5.6	0.2
013S021E16M03M	18	10	19	32	2.0	102	9.5	6.5	0.1
013S021E01G01M	44	34	31	21	2.2	233	23	32	0.1
013S019E17H02M	52	26	35	24	6.3	276	28	6.7	0.1
013S019E12K01M	22	10	15	25	3.4	115	8.0	7.0	0.1
013S017E09L01M	6.6	1.9	14	54	1.0	52	2.4	2.6	0.2
013S017E01P01M	14	5.8	9.7	26	1.4	79	1.9	2.3	0.1
012S022E14F01M	52	35	32	20	2.7	250	48	23	0.2
012S020E32M02M	11	4.9	12	34	2.3	65	3.8	4.8	0.2
012S020E01N01M	52	17	36	28	3.2	161	41	26	0.2
012S018E34D01M	29	12	27	32	3.5	98	8.4	45	0.1
012S018E01P02M	28	9.3	30	36	5.2	105	13	28	0.1
012S016E25M01M	69	23	45	26	4.2	264	28	36	0.1
012S016E24P01M	45	15	36	30	4.1	187	33	19	0.1
012S013E35N45M	320	280	550	38	3.8	132	2800	250	0.2
012S013E35N44M	650	520	1400	45	2.8	86	3400	1000	0.1
012S013E35N43M	580	470	1600	51	2.6	112	3900	1500	0.1
012S013E35N42M	580	280	550	31	2.8	136	2600	490	0.1
012S013E35N41M	550	220	580	36	4.3	330	2400	640	0.2
012S013E35N40M	600	470	1200	43	2.7	95	4000	920	0.1
012S013E35N38M	410	320	2200	67	2.8	154	4200	1300	0.6
012S013E35N37M	350	210	1500	65	4.2	310	4100	440	0.4
012S013E35N36M	560	530	1900	54	2.6	100	4500	1200	<0.1
012S013E35N35M	570	490	1100	41	2.2	100	3900	540	<0.1
012S013E35N34M	550	540	1900	53	1.9	95	4900	1200	<0.1
012S013E35N31M	500	360	1100	47	1.9	99	3900	350	0.1
012S013E35N30M	590	530	2000	54	2.3	94	4500	1100	<0.1
012S013E35N29M	630	590	1800	49	1.9	87	4500	1200	0.1
012S013E35N28M	560	470	1700	53	3.3	90	4200	1100	0.1
012S013E35M33M	370	350	2100	66	2.8	150	4900	1400	<0.1
012S013E35 FYR-B1	350	250	1800	67	4.1	250	4500	810	0.2
012S013E31A48M	370	560	12000	89	24	--	13000	10000	0.3
012S013E31A47M	280	460	6800	85	5.2	--	13000	1500	0.1
012S013E31A46M	310	490	4900	79	4.3	--	9500	1300	0.1
012S013E31A45M	340	420	2800	70	4.7	--	6900	770	0.2
012S013E31A44M	440	630	11000	87	16	--	12000	9400	0.3
012S013E31A42M	370	560	4200	74	5.2	--	9300	920	0.1
	370	590	4100	73	4.4	--	10000	940	<0.1
012S013E31A41M	300	400	2600	70	3.6	--	6900	480	0.2
012S013E31A40M	420	380	9600	89	18	--	9400	6900	0.2
012S013E31A39M	310	520	6000	82	5.7	--	14000	1800	0.1
012S013E31A38M	320	490	4400	77	4.4	--	11000	850	0.1
012S013E31A37M	390	460	3400	72	6.8	--	7200	610	0.1
012S013E31A36M	310	520	7200	84	14	--	15000	3200	0.2
012S013E31A35M	160	280	5300	88	3.6	--	11000	1000	0.1
012S013E31A34M	320	490	4600	78	3.8	--	11000	940	0.1
012S013E31A33M	330	500	4600	78	4.2	--	11000	890	0.1
012S013E31A32M	320	440	2700	69	3.9	--	7100	650	0.2
012S013E31A31M	560	320	8600	87	9.2	--	6700	7200	0.1
012S013E31A30M	310	680	10000	86	6.5	--	13000	5200	0.2
012S013E31A29M	330	590	5700	79	6.3	--	9600	2200	0.1
012S013E31A28M	330	450	2900	70	4.5	--	7800	630	0.2
011S019E15D01M	18	6.1	23	40	3.3	90	3.2	16	0.2
011S017E10E01M	13	4.3	17	41	2.8	57	3.9	18	0.2
011S017E03A01M	14	4.9	17	39	2.7	50	3.9	16	0.3
011S015E22C01M	28	6.8	31	40	2.2	12	6.4	27	0.2

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	BROMIDE, DIS- SOLVED (MG/L AS BR)	IODIDE, DIS- SOLVED (MG/L AS I)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE, DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC, TOTAL (MG/L AS C)	CARBON, ORGANIC, DIS- SOLVED (MG/L AS C)
014S024E31G01M	0.050	0.002	44	237	<0.01	7.2	0.06	0.3	--
014S022E14J01M	<0.010	0.001	19	54	<0.01	0.29	0.10	0.3	--
014S020E34G01M	0.27	0.007	57	633	<0.01	28	0.02	1.2	--
014S020E32L02M	0.14	0.005	65	468	<0.01	9.0	0.02	--	--
014S018E02G01M	0.17	0.004	78	452	<0.01	6.3	0.02	0.3	--
014S016E36B01M	1.5	0.580	61	1120	<0.01	<0.10	0.06	1.8	--
014S016E09A03M	2.6	0.480	53	1340	<0.01	<0.10	0.05	1.0	--
013S023E28R01M	0.017	0.001	36	141	<0.01	3.5	0.04	0.3	--
013S023E19G01M	0.15	0.003	49	--	<0.01	3.1	0.04	0.4	--
013S022E33R01M	0.17	<0.001	43	242	<0.01	5.8	0.11	<0.1	--
013S021E16M03M	0.029	0.001	47	194	<0.01	4.6	0.05	<0.1	--
013S021E01G01M	0.10	0.002	35	378	<0.01	8.2	0.07	0.4	--
013S019E17H02M	0.013	0.002	73	403	<0.01	2.3	0.03	0.4	--
013S019E12K01M	0.031	0.002	54	199	<0.01	2.3	0.03	<0.1	--
013S017E09L01M	<0.010	0.001	67	127	<0.01	<0.10	0.03	--	--
013S017E01P01M	<0.010	0.022	66	149	<0.01	<0.10	0.06	0.7	--
012S022E14F01M	0.12	0.003	54	416	<0.01	4.0	0.13	1.2	--
012S020E32M02M	0.014	0.004	50	132	<0.01	0.81	0.14	0.1	--
012S020E01N01M	0.12	0.001	54	376	<0.01	11	0.18	0.6	--
012S018E34D01M	0.16	0.001	73	275	<0.01	3.9	0.03	0.2	--
012S018E01P02M	0.084	0.002	77	285	<0.01	6.8	0.13	0.4	--
012S016E25M01M	0.15	0.001	77	472	<0.01	6.8	0.03	0.5	--
012S016E24P01M	0.059	0.001	74	354	<0.01	3.3	0.05	0.3	--
012S013E35N45M	--	--	35	4370	0.06	11	--	--	1.2
012S013E35N44M	--	--	30	8180	<0.01	250	--	--	2.2
012S013E35N43M	--	--	35	8450	<0.01	63	--	--	2.7
012S013E35N42M	--	--	35	4730	<0.01	24	--	--	4.4
012S013E35N41M	--	--	45	4750	0.01	24	--	--	8.1
012S013E35N40M	4.4	--	31	8100	<0.01	180	--	--	2.2
012S013E35N38M	--	--	33	8620	0.05	9.2	--	--	5.7
012S013E35N37M	--	--	38	6950	<0.01	25	--	--	6.5
012S013E35N36M	--	--	33	9600	<0.01	180	--	--	3.6
012S013E35N35M	--	--	29	7190	<0.01	110	--	--	1.3
012S013E35N34M	5.6	--	32	10000	<0.01	180	--	--	3.4
012S013E35N31M	2.0	--	29	6650	<0.01	75	--	--	1.1
012S013E35N30M	5.2	--	34	9630	<0.01	180	--	--	2.7
012S013E35N29M	5.5	--	32	9720	<0.01	200	--	--	2.7
012S013E35N28M	5.0	--	32	8980	<0.01	190	--	--	2.8
012S013E35M33M	5.3	--	33	9760	0.01	110	--	--	6.6
012S013E35 FYR-B1	3.0	--	38	8100	0.02	39	--	--	7.9
012S013E31A48M	--	--	11	37600	0.02	300	--	--	41
012S013E31A47M	--	--	18	22700	0.56	100	--	--	3.7
012S013E31A46M	--	--	17	17000	0.08	83	--	--	3.5
012S013E31A45M	--	--	34	11600	0.25	48	--	--	1.8
012S013E31A44M	--	--	11	35400	1.3	360	--	--	51
012S013E31A42M	--	--	15	15900	0.05	81	--	--	4.4
	--	--	16	16500	0.05	82	--	--	1.8
012S013E31A41M	--	--	37	11100	0.21	53	--	--	1.9
012S013E31A40M	--	--	16	28300	5.0	310	--	--	0.6
012S013E31A39M	--	--	23	23500	0.31	160	--	--	3.2
012S013E31A38M	--	--	20	17600	0.06	82	--	--	2.5
012S013E31A37M	--	--	34	12500	0.71	58	--	--	3.3
012S013E31A36M	--	--	17	27700	0.04	270	--	--	6.4
012S013E31A35M	--	--	27	18300	0.45	100	--	--	2.4
012S013E31A34M	--	--	31	17900	0.13	96	--	--	3.2
012S013E31A33M	--	--	20	19300	0.13	410	--	--	2.1
012S013E31A32M	--	--	38	11600	0.40	58	--	--	1.7
012S013E31A31M	--	--	20	24300	1.9	140	--	--	58
012S013E31A30M	--	--	16	31400	1.1	460	--	--	16
012S013E31A29M	--	--	20	19600	0.62	230	--	--	6.0
012S013E31A28M	--	--	40	12700	0.55	91	--	--	3.0
011S019E15D01M	0.071	0.001	81	219	<0.01	3.0	0.02	0.4	--
011S017E10E01M	0.049	0.001	72	176	<0.01	2.3	0.04	<0.1	--
011S017E03A01M	0.069	0.001	80	198	<0.01	6.3	0.05	0.3	--
011S015E22C01M	0.072	0.037	43	162	<0.01	2.2	<0.01	0.1	--

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	SITE IDENTIFICATION NO.	DATE	TIME	DEPTH OF WELL, TOTAL (FT)	ELEV. OF LAND SURFACE DATUM (FT ABOVE SEA LEVEL)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)
010S018E20Q01M	370224120012501	06-05-87	1115	500	323	252	7.4	18.5
010S018E10G01M	370435119592701	06-05-87	0915	141	334	118	7.2	18.0
010S016E21R01M	370235120131101	06-03-87	1500	341	224	418	7.5	21.5
010S014E09P02M	370409120265201	06-04-87	1240	360	148	705	7.6	19.0
009S017E26G01	370717120044301	06-03-87	1315	416	333	303	7.5	22.0
009S017E24K01M	370757120033801	06-03-87	1120	172	343	244	7.5	22.0
009S016E31F01M	370631120160201	08-06-87	0930	450	230	644	7.6	20.5
009S013E15A01M	370924120315001	06-04-87	0845	618	125	393	8.4	22.5
009S013E06R01M	371030120345601	06-04-87	1025	285	113	466	7.7	21.5
008S016E28F01M	371232120133201	06-02-87	1145	460	260	291	7.3	22.0
008S016E25D01M	371243120104201	06-02-87	1010	1020	283	386	7.9	23.0
008S014E18D01M	371430120291001	08-06-87	1130	86	153	547	7.9	19.0
008S014E16M01M	371401120270101	07-20-87	1245	438	170	367	7.6	20.5
008S012E14B01M	371435120372601	06-01-87	1600	244	110	395	7.7	21.5
008S012E01A01M	371622120355901	06-04-87	1615	90	125	360	7.7	21.0
007S015E36C01M	371702120165201	06-02-87	1630	436	257	370	7.5	20.5
007S013E30C01M	371818120351801	05-21-87	1100	110	135	357	--	19.5
007S013E22Q01M	371813120313701	05-13-87	0800	242	155	454	7.9	19.0
007S011E13R01M	371914120421701	05-13-87	0930	180	115	255	8.0	22.0
007S011E10L01M	372013120450601	06-01-87	1300	100	105	503	7.8	20.5
006S014E32D01M	372232120275501	05-21-87	1300	144	187	191	7.9	19.5
006S010E14D01M	372455120505401	05-22-87	1030	115	91.0	919	8.0	20.5
006S010E12D01M	372547120494601	05-14-87	1100	360	97.0	242	8.0	21.5
005S011E05L01M	373132120470701	05-20-87	1530	115	125	438	8.1	19.0
005S009E35P01M	372704120565401	05-22-87	0900	75	66.0	1040	--	18.0
005S009E17Q02M	372948121000801	05-13-87	1400	435	59.0	4500	7.7	21.5
004S012E17E01M	373520120403601	05-20-87	1330	450	245	192	--	22.5
004S010E22R01M	373358120510201	05-19-87	1630	105	115	603	8.0	19.5
004S010E12J01M	373605120484201	05-14-87	0800	435	138	317	8.4	23.0
003S013E30P01M	373822120345501	05-20-87	1120	117	150	260	7.8	19.0
003S013E29K01M	373831120333501	05-14-87	1300	440	240	1300	7.2	22.0
003S011E31G01M	373753120474601	05-19-87	1300	142	151	700	7.8	19.5
003S011E23B01M	373950120432501	05-20-87	0930	370	185	220	7.8	20.5
003S009E15N02M	374008120581901	05-13-87	1515	244	94.0	540	7.8	23.0
003S009E03N02M	374148120581601	05-19-87	0930	110	104	530	8.1	19.5
002S010E20M01M	374449120535801	05-19-87	1115	145	135	300	8.0	20.0
002S010E01Q01M	374710120490901	05-12-87	1300	260	140	195	8.0	19.5
002S008E35M01M	374307121040101	05-18-87	1445	100	75.0	890	--	19.0
002S008E34C01M	374324121044101	05-12-87	1030	296	75.0	549	7.9	20.0

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	HARD- NESS, TOTAL (MG/L AS CACO3)	CALCIUM, DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY, CARBON- ATE IT-FLD MG/L AS CACO3	SULFATE, DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
010S018E20Q01M	71	18	6.2	22	40	2.2	84	4.9	23
010S018E10G01M	29	7.0	2.8	13	48	1.4	54	3.1	3.1
010S016E21R01M	160	44	13	25	25	2.5	176	8.6	19
010S014E09P02M	270	84	14	46	27	4.7	254	15	64
009S017E26G01M	62	16	5.3	18	38	1.7	69	10	15
009S017E24K01M	85	21	7.9	14	26	1.1	78	4.4	14
009S016E31F01M	230	61	19	46	30	1.8	210	20	54
009S013E15A01M	25	6.8	2.0	79	86	1.9	169	8.4	29
009S013E06R01M	170	37	19	38	33	0.50	204	22	19
008S016E28F01M	100	24	10	20	29	3.2	112	20	12
008S016E25D01M	81	26	3.9	54	58	3.5	138	41	26
008S014E18D01M	200	47	21	44	32	2.3	197	52	28
008S014E16M01M	140	35	12	28	30	4.4	163	17	17
008S012E14B01M	140	36	12	33	33	2.8	171	30	17
008S012E01A01M	160	42	13	16	18	1.9	167	13	6.4
007S015E36C01M	130	31	13	26	29	3.8	143	27	20
007S013E30C01M	150	38	14	17	19	3.2	--	<5.0	8.0
007S013E22Q01M	170	41	17	23	22	6.2	208	10	3.2
007S011E13R01M	46	13	3.2	39	63	3.2	116	7.6	10
007S011E10L01M	190	54	12	36	29	7.3	--	28	16
006S014E32D01M	54	13	5.2	20	43	2.9	--	<5.0	5.0
006S010E14D01M	300	80	23	110	44	3.6	--	63	63
006S010E12D01M	41	11	3.2	31	60	3.3	77	4.0	19
005S011E05L01M	190	45	18	35	29	1.1	--	14	9.0
005S009E35P01M	270	69	23	210	63	1.7	--	61	230
005S009E17Q02M	680	210	36	570	64	8.4	148	74	1200
004S012E17E01M	51	11	5.7	17	39	5.0	--	<5.0	8.0
004S010E22R01M	210	54	19	54	35	2.8	--	24	20
004S010E12J01M	8	2.3	0.60	61	91	4.4	103	<0.20	34
003S013E30P01M	93	19	11	18	28	6.7	--	<5.0	13
003S013E29K01M	380	95	33	81	31	19	85	1.6	380
003S011E31G01M	160	34	19	100	57	2.2	--	30	96
003S011E23B01M	80	16	9.7	13	25	3.2	--	<5.0	13
003S009E15N02M	220	61	16	32	24	4.2	244	14	10
003S009E03N02M	230	51	24	28	21	2.8	--	41	4.8
002S010E20M01M	120	27	12	16	22	3.4	--	20	9.0
002S010E01Q01M	79	16	9.4	7.1	16	2.9	79	3.6	6.7
002S008E35M01M	360	84	36	72	30	6.0	--	91	40
002S008E34C01M	210	51	20	32	24	6.9	195	12	43

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE, DIS- SOLVED (MG/L AS BR)	IODIDE, DIS- SOLVED (MG/L AS I)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE, DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC, TOTAL (MG/L AS C)
010S018E20Q01M	0.2	0.07	0.004	82	221	<0.01	2.5	0.04	<0.1
010S018E10G01M	0.4	<0.01	0.002	41	107	<0.01	0.48	0.16	<0.1
010S016E21R01M	0.1	0.07	0.002	70	313	<0.01	5.5	0.03	1.6
010S014E09P02M	<0.1	0.13	0.004	67	479	<0.01	7.0	<0.01	1.7
009S017E26G01M	0.2	<0.01	<0.001	67	188	<0.01	2.9	0.04	<0.1
009S017E24K01M	0.2	0.06	0.001	70	205	<0.01	5.7	0.03	0.6
009S016E31F01M	0.2	0.13	0.007	53	406	<0.01	5.4	0.03	<0.1
009S013E15A01M	0.3	0.08	0.037	31	260	0.01	<0.10	0.04	0.1
009S013E06R01M	0.2	0.06	0.006	50	320	<0.01	2.5	0.02	<0.1
008S016E28F01M	0.2	0.04	0.006	62	228	0.03	2.0	0.05	0.4
008S016E25D01M	0.3	0.11	0.029	38	277	<0.01	<0.10	0.02	0.1
008S014E18D01M	0.2	0.09	0.009	63	382	<0.01	1.2	0.03	0.2
008S014E16M01M	0.2	0.06	0.003	43	265	<0.01	2.1	0.02	0.3
008S012E14B01M	0.2	0.07	0.007	57	298	<0.01	1.4	0.03	<0.1
008S012E01A01M	0.2	0.04	0.002	62	266	<0.01	2.4	0.03	<0.1
007S015E36C01M	0.3	0.06	0.015	56	267	0.02	0.79	0.03	<0.1
007S013E30C01M	0.2	0.04	0.002	62	--	<0.01	3.8	0.05	<0.1
007S013E22Q01M	<0.1	0.02	0.001	62	294	<0.01	1.3	0.01	0.1
007S011E13R01M	0.2	0.04	0.020	43	191	<0.01	0.33	0.05	<0.1
007S011E10L01M	0.2	0.08	0.048	46	355	<0.01	8.2	0.03	0.8
006S014E32D01M	0.2	0.04	<0.001	52	--	<0.01	2.1	0.07	<0.1
006S010E14D01M	0.3	0.19	0.065	46	649	0.02	10	0.05	4.4
006S010E12D01M	0.1	0.05	0.034	37	160	<0.01	1.1	0.04	3.6
005S011E05L01M	0.2	0.03	0.009	70	326	<0.01	1.6	0.07	0.8
005S009E35P01M	0.2	0.8	0.040	42	--	<0.01	24	0.09	1.7
005S009E17Q02M	0.1	5.2	1.2	56	2260	0.07	2.4	0.01	0.2
004S012E17E01M	0.3	<0.01	0.001	78	--	<0.01	3.1	0.03	0.4
004S010E22R01M	0.2	0.05	<0.001	54	489	<0.01	16	0.02	0.8
004S010E12J01M	0.3	0.08	0.096	63	--	<0.01	<0.10	0.19	<0.1
003S013E30P01M	0.1	0.06	<0.001	75	--	<0.01	3.0	0.10	0.3
003S013E29K01M	0.1	0.84	0.560	74	743	<0.01	<0.10	0.01	0.2
003S011E31G01M	0.2	0.34	0.170	55	473	0.02	3.2	0.02	<0.1
003S011E23B01M	0.2	0.05	<0.006	80	--	<0.01	2.7	0.07	0.3
003S009E15N02M	<0.1	0.07	0.005	48	354	<0.01	4.8	0.01	<0.1
003S009E03N02M	0.2	0.03	0.001	64	380	<0.01	8.8	0.02	0.4
002S010E20M01M	<0.1	0.02	<0.001	44	224	<0.01	6.4	0.16	<0.1
002S010E01Q01M	<0.1	0.03	0.001	56	159	<0.01	2.1	0.02	<0.1
002S008E35M01M	0.2	0.14	0.005	57	640	<0.01	8.6	0.05	1.1
002S008E34C01M	<0.1	0.16	0.003	60	362	<0.01	4.2	0.02	0.2

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	SITE IDENTIFICATION NO.	DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT ABOVE (SEA LEVEL)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE, WATER (°C)
DRAIN 015S014E02-1 M	363915120242001	04-16-87	1500	205	9880	7.3	17.0
		05-07-87	0930	205	10700	7.5	17.5
		07-31-87	0815	205	7020	7.2	21.0
		10-20-87	1730	205	10600	7.2	22.0
		10-21-87	1530	205	11300	7.2	22.0
		10-22-87	1130	205	11300	7.1	21.0
		11-05-87	1645	205	12100	7.3	21.5
		11-04-87	1500	205	12100	7.3	21.5
		11-13-87	1130	205	12900	7.2	20.5
		11-24-87	1615	205	13900	7.4	19.0
		01-24-88	1345	205	13000	7.3	17.5
		02-03-88	0930	205	13300	7.3	16.0
		02-25-88	1545	205	10500	7.1	16.5
		03-25-88	1100	205	10800	7.1	17.5
		04-27-88	1530	205	7470	6.7	23.0
		05-23-88	1500	205	7170	7.1	22.5
		09-20-88	1030	205	14500	7.2	21.5
DRAIN 012S013E35-3 M	365018120312652	03-15-88	1330	186	9220	7.3	17.0
		04-28-88	1000	186	10500	7.2	21.0
		05-24-88	1000	186	10200	7.4	17.5
		06-22-88	1230	186	11000	7.0	20.5
		07-14-88	1400	186	10700	7.0	21.5
		08-10-88	1030	186	10500	7.4	21.0
		09-07-88	1500	186	11000	7.3	22.0
DRAIN 012S013E35-2 M	365018120312651	03-15-88	1145	186	8140	7.2	16.0
		04-28-88	0830	186	9040	6.9	18.5
		05-24-88	0900	186	9330	7.3	17.0
		06-22-88	1100	186	8440	6.7	20.5
		07-14-88	1230	186	9210	6.9	21.5
		08-10-88	0830	186	8980	7.2	21.5
		09-07-88	1300	186	9720	7.1	23.0
DRAIN 012S013E35-1 M	365018120312627	08-27-87	1430	186	8350	7.0	21.0
		03-15-88	1530	186	8300	7.3	17.0
		04-28-88	1200	186	9000	7.1	21.5
		05-24-88	1100	186	8520	7.4	18.5
		06-22-88	1400	186	9420	7.1	25.0
		07-14-88	1500	186	9260	7.1	21.5
		08-10-88	1145	186	8960	7.5	22.0
		09-08-88	0930	186	9180	7.3	21.5

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	HARD- NESS, TOTAL (MG/L AS CACO3)	CALCIUM, DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY, CARBON- ATE IT-FLD MG/L AS CACO3	SULFATE, DIS- SOLVED (MG/L AS SO4)
DRAIN 015S014E02-1 M	2200	550	200	1600	61	3.2	222	3700
	2300	560	210	1900	65	3.4	243	3800
	1800	470	160	1500	64	3.2	221	360
	2200	500	220	2200	69	5.8	289	4300
	1800	340	230	2100	72	5.6	--	4300
	2200	490	230	2400	71	5.5	246	4400
	2000	430	230	2300	71	5.5	267	5000
	1900	390	230	2200	71	5.6	266	5000
	2000	380	250	2300	72	5.7	272	4900
	2400	490	290	2600	70	6.2	275	5000
	2400	510	270	2500	69	4.7	232	4000
	2300	480	260	2200	68	4.1	242	4200
	2100	490	210	1800	65	4.0	221	4200
	2200	520	230	2000	66	3.2	218	4100
	1800	460	170	1300	60	3.4	205	3600
	1700	430	160	1200	60	3.3	199	3500
	2200	450	270	2700	72	5.5	331	5500
DRAIN 012S013E35-3 M	2300	440	300	1700	61	4.1	150	4400
	2400	470	300	1900	63	3.9	135	4400
	1900	410	210	1800	67	3.9	136	4400
	3200	640	400	1600	52	3.5	125	4300
	2500	420	350	1800	61	4.0	140	4400
	2200	350	330	1800	64	4.2	117	4400
	2300	350	340	1900	64	4.2	140	4400
DRAIN 012S013E35-2 M	2200	450	260	1400	58	4.4	150	3800
	2200	470	260	1500	59	4.0	160	3700
	2100	450	240	1600	62	4.0	148	3900
	2100	440	240	1600	62	3.8	135	3600
	2400	460	300	1400	56	4.0	155	3800
	2300	420	310	1400	57	4.2	138	3400
	2400	370	350	1600	60	4.3	165	3900
DRAIN 012S013E35-1 M	1800	380	200	1400	63	4.2	--	3500
	2100	410	250	1400	60	3.8	154	3900
	2100	450	240	1500	61	3.8	140	3800
	1900	410	210	1400	62	3.7	144	3800
	2600	530	320	1400	54	3.4	125	3800
	2100	410	270	1500	60	3.6	145	4000
	--	--	--	1600	--	4.0	117	4000
	1900	350	260	1500	63	3.9	145	3900

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE, DIS- SOLVED (MG/L AS BR)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE, DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3, DIS- SOLVED (MG/L AS N)	CARBON, ORGANIC, DIS- SOLVED (MG/L AS C)
DRAIN 015S014E02-1 M	1400	0.2	--	54	8060	0.01	92	7.0
	1200	0.3	--	52	8330	0.25	100	8.2
	870	0.3	--	53	3880	<0.01	72	7.2
	1300	0.4	--	55	9070	0.04	67	13
	1200	0.4	--	54	--	0.04	68	13
	1400	0.4	--	54	9440	0.03	67	13
	1500	0.3	--	52	10100	0.03	88	12
	1500	0.3	--	52	9950	0.03	88	12
	1800	0.3	--	54	10300	0.04	100	12
	2000	0.2	--	51	10700	0.02	24	14
	2200	0.2	--	52	9780	0.06	20	--
	2200	0.2	--	50	10200	0.08	140	10
	760	0.1	--	--	8010	0.03	90	7.0
	1300	0.2	--	50	8840	<0.01	110	7.6
	620	0.2	--	48	6510	<0.01	40	4.5
	460	0.3	--	45	6080	<0.01	35	4.7
	1700	0.1	--	14	11300	<0.01	100	10
DRAIN 012S013E35-3 M	1100	0.1	--	33	8660	<0.01	130	4.7
	1300	0.1	--	34	9080	<0.01	130	4.3
	1200	0.2	--	33	8740	<0.01	130	4.4
	1100	0.3	--	35	8900	<0.01	130	4.0
	1100	0.1	4.9	35	8750	<0.01	120	4.6
	1100	0.2	5.0	37	8690	<0.01	130	5.0
	1100	0.2	--	39	8820	<0.01	130	3.6
DRAIN 012S013E35-2 M	900	0.2	--	36	7230	0.01	61	5.6
	1100	0.2	--	35	7480	<0.01	67	4.8
	940	0.3	--	34	7670	0.01	89	4.6
	960	0.3	--	37	7300	<0.01	73	4.7
	990	0.1	4.1	37	7450	0.01	78	4.6
	920	0.2	3.9	39	6920	<0.01	73	5.3
	1100	0.2	--	42	7780	<0.01	68	4.9
DRAIN 012S013E35-1 M	--	0.3	--	40	--	<0.01	--	4.3
	720	0.2	--	34	7190	<0.01	82	4.1
	920	0.2	--	35	7440	<0.01	89	4.1
	730	0.2	--	34	7040	<0.01	80	4.2
	840	0.3	--	36	7340	<0.01	72	3.6
	880	0.1	3.7	36	7550	<0.01	78	4.1
	840	0.2	3.6	37	--	<0.01	89	5.0
	950	0.2	--	40	7490	<0.01	86	3.9

Table 2. Water-quality records at ground-water sites--Continued

STABLE ISOTOPES

WELL NO.	SITE IDENTIFICATION NO.	DATE	DEPTH OF WELL, TOTAL (FT)	ELEV. OF LAND SURFACE DATUM (FT) ABOVE (SEA LEVEL)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	TRITIUM IN WATER MOLE-CULES (TU)
020S026E04D01M	361328119101501	07-30-87	180	325	-76.0	-9.8	34.0
020S026E03N01M	361250119090801	07-30-87	360	335	-64.0	-8.8	1.5
020S024E22C01M	361003119212501	07-28-87	236	270	-92.5	-12.6	2.6
020S024E02B01M	361327119200801	07-28-87	702	294	-88.0	-12.2	<0.8
019S027E19F01	361551119054501	08-05-87	450	374	-67.0	-8.6	14.5
019S025E32P02M	361336119172601	07-28-87	182	305	-89.5	-12.3	21.1
019S023E34P02M	361338119275501	07-28-87	208	255	-88.0	-12.0	27.6
019S023E01A03M	361844119251501	07-28-87	510	281	-84.5	-11.3	22.1
019S021E15R01M	361620119402001	07-29-87	94	232	-93.0	-12.8	16.0
018S026E26P02M	361940119073001	08-04-87	196	412	-73.5	-10.0	17.7
018S026E02J01M	362325119070501	08-04-87	104	415	-87.5	-11.9	10.4
018S024E19M01M	362047119250301	07-29-87	400	283	-87.0	-12.2	1.2
018S022E21F01M	362036119353901	07-29-87	240	251	-93.0	-12.6	2.1
018S022E08F02M	362259119363401	07-23-87	364	258	-98.5	-13.5	23.2
018S020E34L01M	361905119472901	07-22-87	232	225	-93.5	-13.0	10.3
018S020E29R01M	361942119491001	07-22-87	40	220	-92.5	-12.6	17.0
017S027E31N03M	362402119054301	08-04-87	170	427	-80.0	-10.8	26.6
017S025E21D01M	362624119163301	07-29-87	330	333	-62.5	-8.4	<0.8
017S025E03C01M	362909119150901	07-29-87	88	345	-90.0	-12.6	16.8
017S019E22N01M	362552119540501	07-22-87	200	210	-93.5	-12.6	44.6
017S019E05A01M	362908119553201	08-03-87	510	210	-95.0	-12.9	1.3
016S024E26M01M	363029119202001	07-21-87	120	330	-88.5	-11.9	31.3
016S024E07A01M	363335119234801	07-09-87	290	336	-71.0	-9.4	13.5
016S022E10H01M	363317119332901	07-21-87	120	318	-94.0	-12.7	31.5
016S022E09B01M	363340119345801	08-05-87	320	310	-99.0	-13.6	<0.8
016S020E35M01M	362948119461901	07-21-87	438	240	-100.5	-13.6	--
016S020E27M02M	363032119472101	07-21-87	200	240	-97.5	-13.6	28.1
016S018E15D01M	363245120002001	07-08-87	380	195	-97.5	-13.2	<0.8
015S025E17G01M	363730119162801	07-10-87	85	476	-74.0	-9.5	21.7
015S025E08N01M	363804119170201	07-20-87	128	460	-67.5	-8.8	14.6
015S023E13F01M	363744119251801	07-09-87	215	369	-85.0	-11.6	21.7
015S023E07C01M	363852119305201	07-09-87	150	352	-95.5	-13.2	30.1
015S021E10Q01M	363807119401701	07-09-87	240	307	-100.0	-13.6	<0.8
015S021E03E01M	363940119404901	07-08-87	115	311	-93.5	-12.9	20.0
015S019E35D01M	363522119523201	07-08-87	240	239	-93.0	-12.4	3.8
015S019E29H01M	363553119550601	07-08-87	237	230	-84.0	-11.0	1.8
015S017E23D01M	363704120053401	07-07-87	492	187	-76.0	-10.0	<0.8
015S017E05F01M	363918120083101	07-07-87	255	182	-71.0	-9.4	9.1
015S014E02 MDS-26.5	363902120242567	04-01-87	26	211	-54.5	-5.1	<0.8
015S014E02 MCS-28.1	363902120242564	04-01-87	28	211	-55.5	-5.5	2.2
015S014E02 MBS-28	363902120242561	04-01-87	28	211	-56.0	-5.6	1.0
		09-01-88	28	211	-55.0	-5.0	<0.8
015S014E02 MA-50	363915120242002	06-30-87	51	211	-57.0	-6.8	1.5
015S014E02 M5-50	363906120244622	06-09-87	51	211	-61.0	-7.6	11.6
		07-21-88	51	211	-63.0	-8.0	25.1
015S014E02 M5-40	363906120244623	07-01-87	39	211	-61.5	-8.1	31.9
		07-21-88	39	211	-64.0	-8.1	26.5
015S014E02 M5-30	363906120244624	06-09-87	31	211	-63.0	-7.8	15.9
		07-21-88	31	211	-62.5	-7.7	19.6
015S014E02 M5-20	363906120244625	06-09-87	21	211	-59.5	-7.5	11.0
		07-21-88	21	211	-62.0	-7.5	10.7
015S014E02 M4-50	363906120244619	06-10-87	51	211	-61.0	-7.4	0.9
		07-20-88	51	211	-62.5	-7.6	<0.8
015S014E02 M4-30	363906120244620	06-10-87	31	211	--	--	<0.8
		07-20-88	31	211	-61.5	-7.4	0.9
015S014E02 M4-20	363906120244621	06-10-87	21	211	-56.5	-6.2	6.8
		07-22-88	21	211	-57.5	-6.4	7.2
015S014E02 M1-50	363906120244614	06-11-87	51	211	-57.5	-6.5	--
015S014E02 M1-40	363906120244615	07-01-87	41	211	-60.0	-7.2	1.1
015S014E02 M1-30	363906120244616	06-11-87	31	211	-61.0	-7.3	<0.8
015S014E02 M1-20	363906120244617	06-11-87	21	211	-63.0	-8.2	5.5
		07-20-88	21	211	-67.0	-8.2	7.3

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	SITE IDENTIFICATION NO.	DATE	DEPTH OF WELL, TOTAL (FT)	ELEV. OF LAND SURFACE DATUM (FT ABOVE SEA LEVEL)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	TRITIUM IN WATER MOLECULES (TU)
015S014E02 M1-10	363906120244618	06-11-87	11	211	-67.5	-8.8	12.2
		07-20-88	11	211	-66.0	-8.6	11.1
015S014E01 MF-29	363902120242569	10-22-87	30	211	-63.0	-7.6	3.3
014S024E31G01M	364019119235401	06-24-87	196	410	-88.0	-12.0	25.6
014S022E14J01M	364246119321801	06-24-87	75	373	-95.0	-13.2	10.4
014S020E34G01M	364024119464201	06-25-87	124	277	-91.5	-12.3	46.2
014S020E32L02M	364007119490201	06-26-87	348	265	-82.5	-11.0	15.0
014S018E02G01M	364435119582701	07-27-87	292	250	-71.0	-9.5	<0.8
014S016E36B01M	364036120103901	07-07-87	446	175	-69.0	-9.3	<0.8
014S016E09A03M	364356120132201	07-06-87	250	174	-72.0	-9.5	<0.8
013S023E28R01M	364552119275401	06-25-87	74	440	-92.0	-12.7	11.5
013S023E19G01M	364721119302901	06-25-87	178	435	-56.5	-7.2	<0.8
013S022E33R01M	364512119342601	08-05-87	150	375	-95.0	-12.8	43.3
013S021E16M03M	364804119414801	06-24-87	360	355	-85.0	-11.5	21.2
013S021E01G01M	364959119375201	06-23-87	120	400	-59.0	-8.0	--
013S019E17H02M	364807119551001	06-23-87	145	282	-90.5	-12.1	22.3
013S019E12K01M	364856119510201	06-23-87	430	310	-72.0	-9.6	5.0
013S017E09L01M	364851120073701	06-22-87	311	210	-93.0	-12.7	15.2
013S017E01P01M	364921120042301	06-17-87	120	211	-92.0	-12.6	--
012S022E14F01M	365329119321701	06-18-87	72	535	-58.5	-7.8	5.5
012S020E32M02M	365040119490701	06-18-87	300	338	-83.5	-11.0	11.2
012S020E01N01M	365438119443301	06-18-87	140	340	-58.0	-7.6	8.3
012S018E34D01M	365100119595301	06-17-87	416	270	-75.0	-10.0	3.8
012S016E25M01M	365130120105401	06-17-87	164	200	-68.0	-9.5	2.1
012S016E24P01M	365210120102301	06-19-87	504	205	-72.5	-10.1	24.9
012S013E35N45M	365018120312645	07-12-88	90	187	-55.0	-6.6	<0.8
012S013E35N44M	365018120312644	07-11-88	52	187	-53.0	-5.2	2.5
012S013E35N43M	365018120312643	07-12-88	36	187	-61.0	-7.4	9.0
012S013E35N42M	365018120312642	07-11-88	21	187	-66.0	-8.8	21.6
012S013E35N41M	365018120312641	07-12-88	11	187	-64.0	-8.3	26.8
012S013E35N40M	365018120312640	07-13-88	52	187	-57.0	-6.0	<0.8
012S013E35N38M	365018120312638	07-12-88	21	187	-59.5	-6.7	8.2
012S013E35N37M	365018120312637	07-12-88	12	187	-68.0	-9.0	16.4
012S013E35N36M	365018120312636	07-13-88	37	187	-56.5	-6.2	7.6
012S013E35N35M	365018120312635	07-13-88	51	187	-60.0	-6.6	<0.8
012S013E35N34M	365018120312634	07-13-88	38	187	-58.0	-6.2	6.7
012S013E35N31M	365018120312631	07-19-88	51	187	-61.0	-6.8	--
012S013E35N30M	365018120312630	07-19-88	34	187	-56.0	-6.0	6.1
012S013E35N29M	365018120312629	07-19-88	21	187	-56.0	-5.8	4.9
012S013E35N28M	365018120312628	07-19-88	12	187	-57.5	-6.0	5.4
012S013E35M33M	365018120312633	07-14-88	22	187	-65.5	-7.9	26.2
012S013E35 FYR-B1	365018120312632	07-13-88	12	187	-67.0	-8.6	22.0
012S013E31A48M	365102120344748	09-03-87	12	185	-40.5	-3.0	9.4
012S013E31A47M	365102120344747	07-08-87	25	185	-42.0	-3.0	<0.8
012S013E31A46M	365102120344746	07-08-87	32	185	-45.5	-3.6	<0.8
012S013E31A45M	365102120344745	07-08-87	52	185	-47.0	-4.1	<0.8
		09-03-87	30	186	-46.0	-4.0	<0.8
012S013E31A44M	365102120344744	09-03-87	12	186	-39.5	-2.7	9.1
012S013E31A42M	365102120344742	07-30-87	30	186	-43.5	-3.3	<0.8
012S013E31A41M	365102120344741	07-09-87	52	186	-48.0	-4.7	<0.8
012S013E31A40M	365102120344740	09-02-87	12	187	-47.0	-3.8	3.0
012S013E31A39M	365102120344739	09-02-87	22	187	-41.0	-2.9	<0.8
012S013E31A38M	365102120344738	09-02-87	34	187	-46.4	-4.2	<0.8
012S013E31A37M	365102120344737	07-10-87	52	187	-50.5	-4.8	<0.8
012S013E31A36M	365102120344736	09-01-87	12	188	-39.5	-2.4	1.3
012S013E31A35M	365102120344735	09-01-87	19	188	-47.0	-4.2	<0.8
012S013E31A34M	365102120344734	09-01-87	26	188	-47.5	-4.3	<0.8
012S013E31A33M	365102120344733	09-02-87	34	188	-45.5	-4.2	1.4
012S013E31A32M	365102120344732	07-09-87	52	188	-50.0	-5.0	1.0
012S013E31A31M	365102120344731	07-29-87	12	188	-40.0	-2.6	19.1
012S013E31A30M	365102120344730	07-29-87	22	188	-48.0	-4.8	<0.8
012S013E31A29M	365102120344729	07-29-87	34	188	-45.5	-4.0	1.2
012S013E31A28M	365102120344728	07-29-87	52	188	-39.0	-2.0	<0.8
012S018E01P02M	365439119573301	06-17-87	144	285	-57.5	-7.6	4.5
011S019E15D01M	365844119532601	06-16-87	257	360	-56.5	-7.5	<0.8
011S017E10E01M	365936120062901	06-16-87	600	250	-69.5	-9.6	<0.8
011S017E03A01M	370039120053101	06-16-87	180	265	-60.5	-8.0	<0.8
011S015E22C01M	365757120190601	06-15-87	510	168	-62.0	-8.2	2.2

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	SITE IDENTIFICATION NO.	DATE	DEPTH OF WELL, TOTAL (FT)	ELEV. OF LAND SURFACE DATUM (FT ABOVE SEA LEVEL)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	TRITIUM IN WATER MOLECULES (TU)
010S018E20Q01M	370224120012501	06-05-87	500	323	-64.5	-8.6	<0.8
010S018E10G01M	370435119592701	06-05-87	141	334	-92.0	-12.6	16.3
010S016E21R01M	370235120131101	06-03-87	341	224	-76.0	-10.0	16.9
010S014E09P02M	370409120265201	06-04-87	360	148	-72.5	-9.8	10.1
009S017E26G01M	370717120044301	06-03-87	416	333	-62.0	-8.2	7.0
009S017E24K01M	370757120033801	06-03-87	172	343	-56.5	-7.5	1.1
009S016E31F01M	370631120160201	08-06-87	450	230	-67.0	-9.2	4.6
009S013E15A01M	370924120315001	06-04-87	618	125	-77.0	-10.4	<0.8
009S013E06R01M	371030120345601	06-04-87	285	113	-64.0	-8.7	1.2
008S016E28F01M	371232120133201	06-02-87	460	260	-59.0	-8.0	<0.8
008S016E25D01M	371243120104201	06-02-87	1020	283	-65.5	-8.6	<0.8
008S014E18D01M	371430120291001	08-06-87	86	153	-57.4	-7.7	4.9
008S014E16M01M	371401120270101	07-20-87	438	170	-59.5	-8.2	49.5
008S012E14B01M	371435120372601	06-01-87	244	110	-60.5	-8.2	2.4
008S012E01A01M	371622120355901	06-04-87	90	125	-64.0	-8.6	1.4
007S015E36C01M	371702120165201	06-02-87	436	257	-72.0	-9.7	20.8
007S013E30C01M	371818120351801	05-21-87	110	135	-71.0	-9.5	4.6
007S013E22Q01M	371813120313701	05-13-87	242	155	-86.0	-11.7	53.9
007S011E13R01M	371914120421701	05-13-87	180	115	-59.5	-8.2	2.0
007S011E10L01M	372013120450601	06-01-87	100	105	-81.5	-11.2	34.4
006S014E32D01M	372232120275501	05-21-87	144	187	-80.5	-10.6	6.0
006S010E14D01M	372455120505401	05-22-87	115	91.0	-78.5	-10.6	28.8
006S010E12D01M	372547120494601	05-14-87	360	97.0	-82.0	-11.2	4.1
005S011E05L01M	373132120470701	05-20-87	115	125	-80.5	-10.8	41.4
005S009E35P01M	372704120565401	05-22-87	75	66.0	-77.0	-10.2	28.0
005S009E17Q02M	372948121000801	05-13-87	435	59.0	-75.5	-10.0	6.2
004S012E17E01M	373520120403601	05-20-87	450	245	-65.0	-8.6	<0.8
004S010E22R01M	373358120510201	05-19-87	105	115	-83.5	-11.4	40.8
004S010E12J01M	373605120484201	05-14-87	435	138	-76.5	-10.4	<0.8
003S013E30P01M	373822120345501	05-20-87	117	150	-64.5	-8.4	<0.8
003S013E29K01M	373831120333501	05-14-87	440	240	-67.5	-9.2	<0.8
003S011E31G01M	373753120474601	05-19-87	142	151	-77.5	-10.4	11.0
003S011E23B01M	373950120432501	05-20-87	370	185	-49.0	-6.4	--
003S009E15N02M	374008120581901	05-13-87	244	94.0	-68.5	-9.3	16.9
003S009E03N02M	374148120581601	05-19-87	110	104	-84.5	-11.4	14.8
002S010E20M01M	374449120535801	05-19-87	145	135	-83.5	-11.6	25.2
002S010E01Q01M	374710120490901	05-12-87	260	140	-87.0	-11.9	3.4
002S008E35M01M	374307121040101	05-18-87	100	75.0	-85.5	-11.4	13.6
002S008E34C01M	374324121044101	05-12-87	296	75.0	-78.0	-10.6	1.4

WELL NO.	SITE IDENTIFICATION NO.	DATE	DEPTH OF WELL, TOTAL (FT)	ELEV. OF LAND SURFACE DATUM (FT ABOVE SEA LEVEL)	C-13 / C-12 STABLE ISOTOPE RATIO PER MIL
015S014E10A11M	363847120253307	08-25-88	180	223	-16.00

WELL NO.	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	N-15 / N-14 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL	CARBON 14 PERCENT MODERN
015S014E10A11M	-60.0	31.20	-7.4	-15.10	11.7

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	SITE IDENTIFICATION NO.	DATE	ELEV. OF LAND SURFACE DATUM (FT ABOVE SEA LEVEL)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	TRITIUM IN WATER MOLE- CULES (TU)
DRAIN 015S014E02-1 M	363915120242001	04-16-87	205	-66.0	-8.2	--
		05-07-87	205	-63.5	-7.9	--
		07-31-87	205	-66.9	-8.3	--
		10-20-87	205	-63.5	-7.7	11.3
		10-21-87	205	-63.0	-7.6	9.9
		10-22-87	205	-62.5	-7.6	9.0
		11-05-87	205	-63.0	-7.4	--
		11-04-87	205	-63.5	-7.5	7.1
		11-13-87	205	-62.5	-7.4	--
		11-24-87	205	-62.0	-7.1	--
		01-24-88	205	-64.5	-7.4	--
		02-03-88	205	-65.4	-7.4	--
		02-25-88	205	-65.5	-7.9	--
		03-25-88	205	-65.9	-7.9	--
		04-27-88	205	-67.5	-8.5	8.6
		05-23-88	205	-67.9	-8.7	7.3
		09-20-88	205	-60.5	-7.0	7.5
DRAIN 012S013E35-3 M	365018120312652	03-15-88	186	-63.0	-7.4	11.9
		04-28-88	186	-63.0	-7.2	9.8
		05-24-88	186	-56.4	-7.2	10.8
		06-22-88	186	-62.5	-7.2	10.2
		07-14-88	186	-63.0	-7.3	12.3
		08-10-88	186	-63.5	-7.0	11.2
		09-07-88	186	-64.0	-7.2	11.5
DRAIN 012S013E35-2 M	365018120312651	03-15-88	186	-66.0	-8.1	17.3
		04-28-88	186	-65.5	-8.0	16.3
		05-24-88	186	-64.9	-7.9	17.0
		06-22-88	186	-67.0	-8.0	13.9
		07-14-88	186	-64.5	-7.9	14.4
		08-10-88	186	-64.0	-8.0	15.4
		09-07-88	186	-65.0	-7.9	14.4
DRAIN 012S013E35-1 M	365018120312627	08-27-87	186	-69.0	-8.4	--
		03-15-88	186	-65.5	-8.2	15.4
		04-28-88	186	-66.5	-8.2	11.9
		05-24-88	186	-68.0	-8.2	13.7
		06-22-88	186	-67.5	-8.2	13.3
		07-14-88	186	-67.0	-8.2	13.4
		08-10-88	186	-64.5	-8.2	13.1
		09-08-88	186	-65.5	-8.2	13.2

Table 2. Water-quality records at ground-water sites--Continued

PESTICIDES AND VOLATILE ORGANIC COMPOUNDS								
WELL NO.	SITE IDENTIFICATION NO.	DATE	DI-CHLORO-BROMO-METHANE, TOTAL (UG/L)	CARBON-TETRA-CHLO-RIDE, TOTAL (UG/L)	1,2-DI-CHLORO-ETHANE, TOTAL (UG/L)	BROMO-FORM, TOTAL (UG/L)	CHLORO-DI-BROMO-METHANE, TOTAL (UG/L)	CHLORO-FORM, TOTAL (UG/L)
015S021E03E01M	363940119404901	07-08-87	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
015S017E05F01M	363918120083101	07-07-87	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
015S014E02 M5-20	363906120244625	07-21-88	--	--	--	--	--	--
014S022E14J01M	364246119321801	06-24-87	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
014S020E34G01M	364024119464201	06-25-87	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
014S018E02G01M	364435119582701	07-27-87	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
014S016E09A03M	364356120132201	07-06-87	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
013S023E28R01M	364552119275401	06-25-87	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
013S021E01G01M	364959119375201	06-23-87	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
013S019E17H02M	364807119551001	06-23-87	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
013S017E01P01M	364921120042301	06-17-87	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
012S016E25M01M	365130120105401	06-17-87	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
012S013E35N45M	365018120312645	07-12-88	--	--	--	--	--	--
012S013E35N44M	365018120312644	07-11-88	--	--	--	--	--	--
012S013E35N43M	365018120312643	07-12-88	--	--	--	--	--	--
012S013E35N42M	365018120312642	07-11-88	--	--	--	--	--	--
012S013E35N41M	365018120312641	07-12-88	--	--	--	--	--	--
012S013E35N40M	365018120312640	07-13-88	--	--	--	--	--	--
012S013E35N38M	365018120312638	07-12-88	--	--	--	--	--	--
012S013E35N37M	365018120312637	07-12-88	--	--	--	--	--	--
012S013E35N36M	365018120312636	07-13-88	--	--	--	--	--	--
012S013E35N35M	365018120312635	07-13-88	--	--	--	--	--	--
012S013E35N34M	365018120312634	07-13-88	--	--	--	--	--	--
012S013E35N31M	365018120312631	07-19-88	--	--	--	--	--	--
012S013E35N30M	365018120312630	07-19-88	--	--	--	--	--	--
012S013E35N29M	365018120312629	07-19-88	--	--	--	--	--	--
012S013E35N28M	365018120312628	07-19-88	--	--	--	--	--	--
012S013E35M33M	365018120312633	07-14-88	--	--	--	--	--	--
012S013E35 FYR-B1	365018120312632	07-13-88	--	--	--	--	--	--

Table 2. Water-quality records at ground-water sites--*Continued*

WELL NO.	TOLUENE, TOTAL (UG/L)	BENZENE, TOTAL (UG/L)	CHLORO- BENZENE, TOTAL (UG/L)	CHLORO- ETHANE, TOTAL (UG/L)	ETHYL- BENZENE, TOTAL (UG/L)	METHYL- BROMIDE, TOTAL (UG/L)	METHYL- CHLO- RIDE, TOTAL (UG/L)	METHYL- ENE CHLO- RIDE, TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE, TOTAL (UG/L)
015S021E03E01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
015S017E05F01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
015S014E02 M5-20	--	--	--	--	--	--	--	--	--
014S022E14J01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
014S020E34G01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
014S018E02G01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
014S016E09A03M	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
013S023E28R01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
013S021E01G01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.30
013S019E17H02M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
013S017E01P01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
012S016E25M01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
012S013E35N45M	--	--	--	--	--	--	--	--	--
012S013E35N44M	--	--	--	--	--	--	--	--	--
012S013E35N43M	--	--	--	--	--	--	--	--	--
012S013E35N42M	--	--	--	--	--	--	--	--	--
012S013E35N41M	--	--	--	--	--	--	--	--	--
012S013E35N40M	--	--	--	--	--	--	--	--	--
012S013E35N38M	--	--	--	--	--	--	--	--	--
012S013E35N37M	--	--	--	--	--	--	--	--	--
012S013E35N36M	--	--	--	--	--	--	--	--	--
012S013E35N35M	--	--	--	--	--	--	--	--	--
012S013E35N34M	--	--	--	--	--	--	--	--	--
012S013E35N31M	--	--	--	--	--	--	--	--	--
012S013E35N30M	--	--	--	--	--	--	--	--	--
012S013E35N29M	--	--	--	--	--	--	--	--	--
012S013E35N28M	--	--	--	--	--	--	--	--	--
012S013E35M33M	--	--	--	--	--	--	--	--	--
012S013E35 FYR-B1	--	--	--	--	--	--	--	--	--

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	TRI- CHLORO- FLUORO- METHANE, TOTAL (UG/L)	1,1-DI- CHLORO- ETHANE, TOTAL (UG/L)	1,1-DI- CHLORO- ETHYL- ENE, TOTAL (UG/L)	1,1,1- TRI- CHLORO- ETHANE, TOTAL (UG/L)	1,1,2- TRI- CHLORO- ETHANE, TOTAL (UG/L)	1,1,2,2 TETRA- CHLORO- ETHANE, TOTAL (UG/L)	1,2-DI- CHLORO- BENZENE, TOTAL (UG/L)	1,2-DI- CHLORO- PROPANE, TOTAL (UG/L)	1,2- TRANS DI CHLORO- ETHENE, TOTAL (UG/L)
015S021E03E01M	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
015S017E05F01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
015S014E02 M5-20	--	--	--	--	--	--	--	--	--
014S022E14J01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
014S020E34G01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	6.4	<0.20
014S018E02G01M	<0.20	<0.20	<0.20	<0.20	0.40	<0.20	<0.20	0.40	<0.20
014S016E09A03M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
013S023E28R01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
013S021E01G01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
013S019E17H02M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
013S017E01P01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
012S016E25M01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
012S013E35N45M	--	--	--	--	--	--	--	--	--
012S013E35N44M	--	--	--	--	--	--	--	--	--
012S013E35N43M	--	--	--	--	--	--	--	--	--
012S013E35N42M	--	--	--	--	--	--	--	--	--
012S013E35N41M	--	--	--	--	--	--	--	--	--
012S013E35N40M	--	--	--	--	--	--	--	--	--
012S013E35N38M	--	--	--	--	--	--	--	--	--
012S013E35N37M	--	--	--	--	--	--	--	--	--
012S013E35N36M	--	--	--	--	--	--	--	--	--
012S013E35N35M	--	--	--	--	--	--	--	--	--
012S013E35N34M	--	--	--	--	--	--	--	--	--
012S013E35N31M	--	--	--	--	--	--	--	--	--
012S013E35N30M	--	--	--	--	--	--	--	--	--
012S013E35N29M	--	--	--	--	--	--	--	--	--
012S013E35N28M	--	--	--	--	--	--	--	--	--
012S013E35M33M	--	--	--	--	--	--	--	--	--
012S013E35 FYR-B1	--	--	--	--	--	--	--	--	--

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	1,3-DI- CHLORO- PROPENE, TOTAL (UG/L)	1,3-DI- CHLORO- BENZENE, TOTAL (UG/L)	1,4-DI- CHLORO- BENZENE, TOTAL (UG/L)	2- CHLORO- ETHYL- VINYL- ETHER, TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE, TOTAL (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE, TOTAL (UG/L)	CIS 1,3-DI- CHLORO- PROPENE, TOTAL (UG/L)	DI- SYSTON, TOTAL (UG/L)	PHORATE, TOTAL (UG/L)
015S021E03E01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.01	<0.01
015S017E05F01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.01	<0.01
015S014E02 M5-20	--	--	--	--	--	--	--	<0.01	<0.01
014S022E14J01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.01	<0.01
014S020E34G01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.01	<0.01
014S018E02G01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.01	<0.01
014S016E09A03M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.01	<0.01
013S023E28R01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.01	<0.01
013S021E01G01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.01	<0.01
013S019E17H02M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.01	<0.01
013S017E01P01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.01	<0.01
012S016E25M01M	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.01	<0.01
012S013E35N45M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35N44M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35N43M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35N42M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35N41M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35N40M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35N38M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35N37M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35N36M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35N35M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35N34M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35N31M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35N30M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35N29M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35N28M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35M33M	--	--	--	--	--	--	--	<0.01	<0.01
012S013E35 FYR-B1	--	--	--	--	--	--	--	<0.01	<0.01

Table 2. Water-quality records at ground-water sites--*Continued*

WELL NO.	PRO- PAZINE, TOTAL (UG/L)	TRI- FLURA- LIN, TOTAL RECOVER (UG/L)	DEF, TOTAL (UG/L)	METHO- MYL, TOTAL (UG/L)	PROPHAM, TOTAL (UG/L)	SIME- TRYNE, TOTAL (UG/L)	SIMA- ZINE, TOTAL (UG/L)	PROME- TONE, TOTAL (UG/L)	PROME- TRYNE, TOTAL (UG/L)
015S021E03E01M	<0.10	<0.10	<0.01	<2.0	<2.0	<0.1	0.20	<0.1	<0.1
015S017E05F01M	<0.10	<0.10	<0.01	<2.0	<2.0	<0.1	<0.10	<0.1	<0.1
015S014E02 M5-20	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
014S022E14J01M	<0.10	<0.10	<0.01	<2.0	<2.0	<0.1	0.10	<0.1	<0.1
014S020E34G01M	<0.10	<0.10	--	<2.0	<2.0	<0.1	<0.10	<0.1	<0.1
014S018E02G01M	<0.10	<0.10	<0.01	<2.0	<2.0	<0.1	<0.10	<0.1	<0.1
014S016E09A03M	<0.10	<0.10	<0.01	<2.0	<2.0	<0.1	<0.10	<0.1	<0.1
013S023E28R01M	<0.10	<0.10	<0.01	<2.0	<2.0	<0.1	0.40	<0.1	<0.1
013S021E01G01M	<0.10	<0.10	<0.01	<2.0	<2.0	<0.1	0.10	<0.1	<0.1
013S019E17H02M	<0.10	<0.10	<0.01	<2.0	<2.0	<0.1	<0.10	<0.1	<0.1
013S017E01P01M	<0.10	<0.10	<0.01	<2.0	<2.0	<0.1	<0.10	<0.1	<0.1
012S016E25M01M	<0.10	<0.10	<0.01	<2.0	<2.0	<0.1	<0.10	<0.1	<0.1
012S013E35N45M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35N44M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35N43M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35N42M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35N41M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35N40M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35N39M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35N37M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35N36M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35N35M	<0.10	<0.10	--	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35N34M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35N31M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35N30M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35N29M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35N28M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35M33M	<0.10	<0.10	<0.01	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1
012S013E35 FYR-B1	<0.10	<0.10	--	<0.5	<0.5	<0.1	<0.10	<0.1	<0.1

Table 2. Water-quality records at ground-water sites--*Continued*

WELL NO.	1,2-DIBROMO ETHYL- ENE, TOTAL (UG/L)	VINYL CHLO- RIDE, TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	GUTHION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)
015S021E03E01M	<0.2	<0.20	<0.2	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
015S017E05F01M	<0.2	<0.20	<0.2	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
015S014E02 M5-20	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
014S022E14J01M	<0.2	<0.20	<0.2	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
014S020E34G01M	<0.2	<0.20	<0.2	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
014S018E02G01M	<0.2	<0.20	<0.2	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
014S016E09A03M	<0.2	<0.20	<0.2	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
013S023E28R01M	<0.2	<0.20	<0.2	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
013S021E01G01M	<0.2	<0.20	<0.2	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
013S019E17H02M	<0.2	<0.20	<0.2	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
013S017E01P01M	<0.2	<0.20	<0.2	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
012S016E25M01M	<0.2	<0.20	<0.2	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01
012S013E35N45M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35N44M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35N43M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35N42M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35N41M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35N40M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35N38M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35N37M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35N36M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35N35M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35N34M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35N31M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35N30M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35N29M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35N28M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35M33M	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
012S013E35 FYR-B1	--	--	--	<0.01	<0.01	<0.01	<0.01	--	<0.01

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	ATRA- ZINE, TOTAL (UG/L)	PICLO- RAM (TOR- DON) TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T, TOTAL (UG/L)	SEVIN, TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	STYRENE, TOTAL (UG/L)
015S021E03E01M	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.2
015S017E05F01M	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.2
015S014E02 M5-20	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
014S022E14J01M	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.2
014S020E34G01M	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.2
014S018E02G01M	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.2
014S016E09A03M	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.2
013S023E28R01M	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.2
013S021E01G01M	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.2
013S019E17H02M	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.2
013S017E01P01M	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.2
012S016E25M01M	<0.10	<0.01	<0.01	<0.01	<2.0	<0.01	<0.01	<0.01	<0.2
012S013E35N45M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35N44M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35N43M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35N42M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35N41M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35N40M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35N38M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35N37M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35N36M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35N35M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35N34M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35N31M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35N30M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35N29M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35N28M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35M33M	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--
012S013E35 FYR-B1	<0.10	--	--	--	<0.50	--	<0.01	<0.01	--

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	ALA- CHLOR TOTAL RECOVER (UG/L)	XYLENE, WATER WHOLE TOT REC (UG/L)	CYAN- AZINE, TOTAL (UG/L)	DICAMBA, (MED- IBEN) (BAN- VEL D) TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	AME- TRYNE, TOTAL (UG/L)	METRI- BUZIN WATER WHOLE TOT REC (UG/L)	METOLA- CHLOR WATER WHOLE TOT REC (UG/L)	DIBROMO CHLORO- PROPANE, WATER WHOLE TOT REC (UG/L)
015S021E03E01M	<0.10	<0.2	<0.10	<0.01	<0.01	<0.10	<0.1	<0.1	<1.0
015S017E05F01M	<0.10	<0.2	<0.10	<0.01	<0.01	<0.10	<0.1	<0.1	<1.0
015S014E02 M5-20	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
014S022E14J01M	<0.10	<0.2	<0.10	<0.01	<0.01	<0.10	<0.1	<0.1	<1.0
014S020E34G01M	<0.10	<0.2	<0.10	<0.01	<0.01	<0.10	<0.1	<0.1	<1.0
014S018E02G01M	<0.10	<0.2	<0.10	<0.01	<0.01	<0.10	<0.1	<0.1	<1.0
014S016E09A03M	<0.10	<0.2	<0.10	<0.01	<0.01	<0.10	<0.1	<0.1	<1.0
013S023E28R01M	<0.10	<0.2	<0.10	<0.01	<0.01	<0.10	<0.1	<0.1	<1.0
013S021E01G01M	<0.10	<0.2	<0.10	<0.01	<0.01	<0.10	<0.1	<0.1	<1.0
013S019E17H02M	<0.10	<0.2	<0.10	<0.01	<0.01	<0.10	<0.1	<0.1	<1.0
C13S017E01P01M	<0.10	<0.2	<0.10	<0.01	<0.01	<0.10	<0.1	<0.1	<1.0
012S016E25M01M	<0.10	<0.2	<0.10	<0.01	<0.01	<0.10	<0.1	<0.1	<1.0
012S013E35N45M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35N44M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35N43M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35N42M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35N41M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35N40M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35N38M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35N37M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35N36M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35N35M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35N34M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35N31M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35N30M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35N29M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35N28M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35M33M	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--
012S013E35 FYR-B1	<0.10	--	<0.10	--	--	<0.10	<0.1	<0.1	--

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	SITE IDENTIFICATION NO.	DATE	DI- SYSTON, TOTAL (UG/L)	PHORATE, TOTAL (UG/L)	PRO- PAZINE, TOTAL (UG/L)	TRI- FLURA- LIN, TOTAL RECOVER (UG/L)	DEF, TOTAL (UG/L)	METHO- MYL, TOTAL (UG/L)	PROPHAM, TOTAL (UG/L)
DRAIN 012S013E35-3 M	365018120312652	07-14-88	<0.01	<0.01	<0.10	<0.10	<0.01	<0.5	<0.5
DRAIN 012S013E35-2 M	365018120312651	07-14-88	<0.01	<0.01	<0.10	<0.10	--	<0.5	<0.5
DRAIN 012S013E35-1 M	365018120312627	07-14-88	<0.01	<0.01	<0.10	<0.10	<0.01	<0.5	<0.5

WELL NO.	SIME- TRYNE, TOTAL (UG/L)	SIMA- ZINE, TOTAL (UG/L)	PROME- TONE, TOTAL (UG/L)	PROME- TRYNE, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)
DRAIN 012S013E35-3 M	<0.1	<0.10	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
DRAIN 012S013E35-2 M	<0.1	<0.10	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
DRAIN 012S013E35-1 M	<0.1	<0.10	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01

WELL NO.	ATRA- ZINE, TOTAL (UG/L)	SEVIN, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	ALA- CHLOR TOTAL RECOVER (UG/L)	CYAN- AZINE, TOTAL (UG/L)	AME- TRYNE, TOTAL (UG/L)	METRI- BUZIN WATER WHOLE TOT REC (UG/L)	METOLA- CHLOR WATER WHOLE TOT REC (UG/L)
DRAIN 012S013E35-3 M	<0.10	<0.50	<0.01	<0.01	<0.10	<0.10	<0.10	<0.1	<0.1
DRAIN 012S013E35-2 M	<0.10	<0.50	<0.01	<0.01	<0.10	<0.10	<0.10	<0.1	<0.1
DRAIN 012S013E35-1 M	<0.10	<0.50	<0.01	<0.01	<0.10	<0.10	<0.10	<0.1	<0.1

Table 2. Water-quality records at ground-water sites--Continued

TRACE ELEMENTS							
WELL NO.	SITE IDENTIFICATION NO.	DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)
020S026E04D01M	361328119101501	07-30-87	<10	2	220	120	<1
020S026E03N01M	361250119090801	07-30-87	<10	5	56	120	<1
020S024E22C01M	361003119212501	07-28-87	<10	11	3	70	<1
020S024E02B01M	361327119200801	07-28-87	40	2	<100	30	<1
019S027E19F01M	361551119054501	08-05-87	<10	1	690	60	<1
019S025E32P02M	361336119172601	07-28-87	<10	1	140	20	<1
019S023E34P02M	361338119275501	07-28-87	<10	1	39	10	<1
019S023E01A03M	361844119251501	07-28-87	<10	<1	180	30	<1
019S021E15R01M	361620119402001	07-29-87	<10	47	59	370	<1
018S026E26P02M	361940119073001	08-04-87	<10	4	150	70	<1
018S026E02J01M	362325119070501	08-04-87	<10	3	26	20	<1
018S024E19M01M	362047119250301	07-29-87	20	8	<2	20	<1
018S022E21P01M	362036119353901	07-29-87	<10	8	43	50	<1
018S022E08F02M	362259119363401	07-23-87	<10	8	<100	20	<1
018S020E34L01M	361905119472901	07-22-87	130	9	<100	450	<1
018S020E29R01M	361942119491001	07-22-87	50	<1	42	30	<1
017S027E31N03M	362402119054301	08-04-87	<10	3	110	<10	<1
017S025E21D01M	362624119163301	07-29-87	<10	5	140	130	<1
017S025E03C01M	362909119150901	07-29-87	<10	4	62	20	<1
017S019E22N01M	362552119540501	07-22-87	30	41	11	750	<1
017S019E05A01M	362908119553201	08-03-87	<10	9	37	200	<1
016S024E26M01M	363029119202001	07-21-87	<10	5	94	40	<1
016S024E07A01M	363335119234801	07-09-87	40	2	94	30	<1
016S022E10H01M	363317119332901	07-21-87	10	1	160	40	<1
016S022E09B01M	363340119345801	08-05-87	<10	3	12	<10	<1
016S020E35M01M	362948119461901	07-21-87	50	13	2	50	<1
016S020E27M02M	363032119472101	07-21-87	20	3	11	30	<1
016S018E15D01M	363245120002001	07-08-87	<10	5	23	20	<1
015S025E17G01M	363730119162801	07-10-87	<10	<1	78	20	<1
015S025E08N01M	363804119170201	07-20-87	40	<1	180	20	<1
015S023E13F01M	363744119251801	07-09-87	10	2	120	30	<1
015S023E07C01M	363852119305201	07-09-87	<10	<1	14	10	<1
015S021E10Q01M	363807119401701	07-09-87	<10	2	32	10	<1
015S021E03E01M	363940119404901	07-08-87	<10	1	33	20	<1
015S019E35D01M	363522119523201	07-08-87	<10	1	64	70	<1
015S019E29H01M	363553119550601	07-08-87	<10	3	78	60	<1
015S017E23D01M	363704120053401	07-07-87	<10	11	74	820	<1
015S017E05F01M	363918120083101	07-07-87	<10	3	200	1200	<1
015S014E02 MDS-26.5	363902120242567	04-01-87	<10	--	100	32000	--
015S014E02 MCS-28.1	363902120242564	04-01-87	20	--	100	29000	--
015S014E02 MBS-28	363902120242561	04-01-87	10	--	<100	29000	--
		09-01-88	20	--	--	29000	--
015S014E02 MA-50	363915120242002	06-30-87	10	2	<100	27000	--
015S014E02 M5-50	363906120244622	06-09-87	<10	--	<100	17000	--
		07-21-88	10	--	--	15000	--
015S014E02 M5-40	363906120244623	07-01-87	<10	2	<100	12000	--
		07-21-88	<10	--	--	11000	--
015S014E02 M5-30	363906120244624	06-09-87	<10	3	<100	24000	--
		07-21-88	10	--	--	22000	--
015S014E02 M5-20	363906120244625	06-09-87	10	4	<100	16000	--
		07-21-88	20	--	--	13000	--
015S014E02 M4-50	363906120244619	06-10-87	10	3	<100	17000	--
		07-20-88	20	--	--	17000	--
015S014E02 M4-30	363906120244620	06-10-87	10	4	<100	28000	--
		07-20-88	20	--	--	25000	--
015S014E02 M4-20	363906120244621	06-10-87	10	5	<100	39000	--
		07-22-88	20	--	--	37000	--
015S014E02 M1-50	363906120244614	06-11-87	20	2	<100	15000	--
015S014E02 M1-40	363906120244615	07-01-87	20	3	<100	11000	--
015S014E02 M1-30	363906120244616	06-11-87	<10	4	<100	27000	--
015S014E02 M1-20	363906120244617	06-11-87	10	4	<100	16000	--
		07-20-88	20	--	--	14000	--
015S014E02 M1-10	363906120244618	06-11-87	10	4	<100	15000	--
		07-20-88	<10	--	--	12000	--
015S014E01 MF-29	363902120242569	10-22-87	<10	--	<100	13000	--

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
020S026E04D01M	4	--	<1	4	6	<5	13	<1
020S026E03N01M	4	--	<1	1	<3	<5	<6	<1
020S024E22C01M	1	--	<1	1	60	<5	<6	1
020S024E02B01M	<1	--	1	<1	20	<5	<10	<10
019S027E19F01M	2	--	<1	2	5	<5	8	<1
019S025E32P02M	2	--	<1	<1	<3	<5	11	<1
019S023E34P02M	2	--	<1	1	<3	<5	7	<1
019S023E01A03M	<1	--	<1	1	<3	<5	16	46
019S021E15R01M	2	--	<1	1	4	<5	<4	140
018S026E26P02M	<1	--	<1	2	6	<5	13	1
018S026E02J01M	<1	--	<1	1	<3	<5	4	<1
018S024E19M01M	4	--	<1	<1	<3	<5	<6	<1
018S022E21P01M	3	--	<1	<1	<3	<5	11	1
018S022E08F02M	<1	--	<1	<1	<10	<5	<10	<10
018S020E34L01M	<1	--	<1	20	50	<5	<10	10
018S020E29R01M	<1	--	2	<1	280	<5	<4	71
017S027E31N03M	<1	--	<1	1	<3	<5	8	<1
017S025E21D01M	<1	--	1	<1	<3	<5	<6	<1
017S025E03C01M	2	--	<1	<1	<3	<5	<6	2
017S019E22N01M	<1	--	<1	<1	8	<5	<4	4
017S019E05A01M	<1	--	<1	2	<3	<5	9	14
016S024E26M01M	<1	--	1	6	<3	<5	12	1
016S024E07A01M	2	--	<1	<1	3	<5	<4	<1
016S022E10H01M	<1	--	1	9	<3	<5	17	1
016S022E09B01M	1	--	<1	<1	<3	<5	<4	<1
016S020E35M01M	<1	--	<1	<1	3	<5	4	<1
016S020E27M02M	<1	--	1	9	<3	<5	9	<1
016S018E15D01M	2	--	<1	<1	6	<5	<4	9
015S025E17G01M	<1	--	<1	<1	<3	<5	6	<1
015S025E08N01M	<1	--	<1	<1	<3	<5	22	<1
015S023E13F01M	2	--	<1	1	5	<5	<4	1
015S023E07C01M	<1	--	<1	<1	7	<5	<4	<1
015S021E10Q01M	3	--	<1	<1	<3	<5	<4	2
015S021E03E01M	3	--	<1	<1	<3	<5	<4	<1
015S019E35D01M	3	--	<1	<1	<3	<5	15	<1
015S019E29H01M	2	--	<1	<1	<3	<5	14	<1
015S017E23D01M	2	--	<1	1	10	<5	32	100
015S017E05F01M	5	--	<1	3	<10	<5	40	<10
015S014E02 MDS-26.5	20	<1	--	--	60	--	300	30
015S014E02 MCS-28.1	20	<1	--	--	80	--	290	30
015S014E02 MBS-28	20	<1	--	--	60	--	280	30
	30	--	--	--	60	--	320	30
015S014E02 MA-50	50	<1	--	--	40	--	330	20
015S014E02 M5-50	<1	<1	--	--	60	--	260	20
	10	--	--	--	40	--	300	20
015S014E02 M5-40	<1	<2	--	--	50	--	230	20
	20	--	--	--	40	--	230	20
015S014E02 M5-30	<1	<1	--	--	60	--	360	20
	20	--	--	--	60	--	250	20
015S014E02 M5-20	5	<1	--	--	50	--	200	20
	10	--	--	--	40	--	200	40
015S014E02 M4-50	20	<1	--	--	30	--	350	30
	20	--	--	--	50	--	350	30
015S014E02 M4-30	8	<1	--	--	60	--	330	20
	20	--	--	--	70	--	300	30
015S014E02 M4-20	<1	<1	--	--	70	--	190	70
	6	--	--	--	80	--	220	80
015S014E02 M1-50	40	<1	--	--	50	--	350	<10
015S014E02 M1-40	5	<1	--	--	70	--	360	20
015S014E02 M1-30	<1	<1	--	--	60	--	250	20
015S014E02 M1-20	<1	<1	--	--	50	--	190	20
	8	--	--	--	50	--	180	30
015S014E02 M1-10	<1	<1	--	--	40	--	280	20
	9	--	--	--	40	--	320	30
015S014E01 MF-29	40	<1	--	--	50	--	240	20

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	MERCURY, DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
020S026E04D01M	0.3	<2	1	<1	<1	530	19	260
020S026E03N01M	<0.1	2	<1	1	<1	200	68	<3
020S024E22C01M	<0.1	<2	1	<1	<1	44	54	23
020S024E02B01M	<0.1	<5	<1	<1	<1	170	25	<10
019S027E19F01M	<0.1	4	<1	<1	<1	1200	26	93
019S025E32P02M	--	<2	<1	<1	<1	630	7	25
019S023E34P02M	0.1	<2	<1	1	<1	350	11	57
019S023E01A03M	0.1	<2	2	<1	<1	1600	3	260
019S021E15R01M	0.3	38	<1	<1	<1	190	43	4
018S026E26P02M	0.1	5	<1	<1	<1	390	24	6
018S026E02J01M	<0.1	<2	1	<1	<1	86	28	57
018S024E19M01M	<0.1	<2	<1	<1	<1	24	64	<3
018S022E21P01M	<0.1	<2	<1	3	<1	570	37	25
018S022E08F02M	<0.1	2	<1	1	<1	300	38	<10
018S020E34L01M	<0.1	14	<1	1	<1	20	6	<10
018S020E29R01M	<0.1	1	4	<1	<1	100	1	14
017S027E31N03M	<0.1	1	<1	<1	<1	290	28	<3
017S025E21D01M	<0.1	<2	<1	<1	<1	400	85	<3
017S025E03C01M	<0.1	<2	<1	<1	<1	280	61	28
017S019E22N01M	0.1	3	3	<1	<1	43	2	<3
017S019E05A01M	<0.1	5	<1	<1	<1	310	14	<3
016S024E26M01M	0.2	<1	2	<1	<1	430	35	200
016S024E07A01M	<0.1	<1	<1	<1	<1	300	38	11
016S022E10H01M	0.1	<1	2	<1	<1	850	10	30
016S022E09B01M	<0.1	1	<1	<1	<1	96	24	14
016S020E35M01M	0.2	2	<1	<1	<1	34	91	<3
016S020E27M02M	0.1	3	3	<1	<1	110	20	26
016S018E15D01M	<0.1	<1	3	<1	<1	160	16	32
015S025E17G01M	<0.1	<1	<1	<1	<1	580	21	150
015S025E08N01M	0.6	<1	<1	<1	<1	850	19	9
015S023E13F01M	<0.1	<1	<1	<1	<1	390	35	12
015S023E07C01M	<0.1	<1	<1	<1	<1	170	3	11
015S021E10Q01M	<0.1	<1	3	<1	<1	280	11	11
015S021E03E01M	<0.1	<1	<1	<1	<1	310	13	53
015S019E35D01M	<0.1	<1	<1	--	<1	500	<25	58
015S019E29H01M	0.1	<1	1	1	<1	490	<25	82
015S017E23D01M	0.2	13	2	<1	<1	250	<10	3
015S017E05F01M	<0.1	8	<1	1	<1	1500	<10	120
015S014E02 MDS-26.5	--	160	8	4100	--	--	<60	--
015S014E02 MCS-28.1	--	140	6	3800	--	--	<60	--
015S014E02 MBS-28	--	130	7	3900	--	--	<60	--
	--	78	7	4600	--	--	93	--
015S014E02 MA-50	--	74	1	300	--	--	17	--
015S014E02 M5-50	--	140	<1	200	--	--	23	--
	--	150	3	110	--	--	20	--
015S014E02 M5-40	--	87	2	200	--	--	18	--
	--	76	4	170	--	--	17	--
015S014E02 M5-30	--	110	<1	520	--	--	16	--
	--	160	2	240	--	--	25	--
015S014E02 M5-20	--	67	1	820	--	--	35	--
	--	64	4	500	--	--	33	--
015S014E02 M4-50	--	72	1	330	--	--	13	--
	--	80	2	340	--	--	20	--
015S014E02 M4-30	--	120	<1	190	--	--	22	--
	--	160	3	970	--	--	33	--
015S014E02 M4-20	--	74	5	4100	--	--	28	--
	--	100	5	3100	--	--	80	--
015S014E02 M1-50	--	130	6	1000	--	--	21	--
015S014E02 M1-40	--	170	1	260	--	--	45	--
015S014E02 M1-30	--	150	3	220	--	--	11	--
015S014E02 M1-20	--	83	<1	11	--	--	10	--
	--	76	3	25	--	--	11	--
015S014E02 M1-10	--	31	5	310	--	--	16	--
	--	30	8	27	--	--	20	--
015S014E01 MF-29	--	120	9	570	--	--	18	--

Table 2. Water-quality records at ground-water sites--*Continued*

WELL NO	SITE IDENTIFICATION NO.	DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM, DIS- SOLVED (UG/L AS CD)
014S024E31G01M	364019119235401	06-24-87	<10	2	35	30	<1
014S022E14J01M	364246119321801	06-24-87	20	<1	5	10	<1
014S020E34G01M	364024119464201	06-25-87	<10	--	120	80	<1
014S020E32L02M	364007119490201	06-26-87	<10	3	100	30	<1
014S018E02G01M	364435119582701	07-27-87	<10	2	84	20	<1
014S016E36B01M	364036120103901	07-07-87	<10	3	55	2100	<1
014S016E09A03M	364356120132201	07-06-87	<10	7	200	320	<1
013S023E28R01M	364552119275401	06-25-87	<10	1	14	<10	<1
013S023E19G01M	364721119302901	06-25-87	<10	2	91	<10	<1
013S022E33R01M	364512119342601	08-05-87	<10	2	50	20	<1
013S021E16M03M	364804119414801	06-24-87	<10	--	63	20	<1
013S021E01G01M	364959119375201	06-23-87	<10	<1	100	10	<1
013S019E17H02M	364807119551001	06-23-87	<10	2	71	30	<1
013S019E12K01M	364856119510201	06-23-87	20	2	30	30	<1
013S017E09L01M	364851120073701	06-22-87	<10	5	7	30	<1
013S017E01P01M	364921120042301	06-17-87	<10	30	16	30	<1
012S022E14F01M	365329119321701	06-18-87	10	2	58	30	<1
012S020E32M02M	365040119490701	06-18-87	20	3	13	30	<1
012S020E01N01M	365438119443301	06-18-87	20	2	170	30	<1
012S018E34D01M	365100119595301	06-17-87	<10	1	80	40	<1
012S018E01P02M	365439119573301	06-17-87	20	1	86	60	<1
012S016E25M01M	365130120105401	06-17-87	10	1	160	30	<1
012S016E24P01M	365210120102301	06-19-87	<10	1	170	40	<1
012S013E35N45M	365018120312645	07-12-88	10	--	--	4400	--
012S013E35N44M	365018120312644	07-11-88	10	--	--	13000	--
012S013E35N43M	365018120312643	07-12-88	20	--	--	15000	--
012S013E35N42M	365018120312642	07-11-88	<10	--	--	610	--
012S013E35N41M	365018120312641	07-12-88	<10	--	--	6200	--
012S013E35N40M	365018120312640	07-13-88	10	--	--	13000	--
012S013E35N38M	365018120312638	07-12-88	10	--	--	20000	--
012S013E35N37M	365018120312637	07-12-88	10	--	--	8200	--
012S013E35N36M	365018120312636	07-13-88	20	--	--	18000	--
012S013E35N35M	365018120312635	07-13-88	10	--	--	13000	--
012S013E35N34M	365018120312634	07-13-88	<10	--	--	18000	--
012S013E35N31M	365018120312631	07-19-88	20	--	--	11000	--
012S013E35N30M	365018120312630	07-19-88	<10	--	--	18000	--
012S013E35N29M	365018120312629	07-19-88	10	--	--	18000	--
012S013E35N28M	365018120312628	07-19-88	<10	--	--	17000	--
012S013E35M33M	365018120312633	07-14-88	10	--	--	23000	--
012S013E35 FYR-B1	365018120312632	07-13-88	10	--	--	18000	--
012S013E31A48M	365102120344748	09-03-87	30	9	<100	83000	--
012S013E31A47M	365102120344747	07-08-87	20	3	<100	61000	--
012S013E31A46M	365102120344746	07-08-87	20	2	<100	49000	--
012S013E31A45M	365102120344745	07-08-87	20	2	<100	25000	--
012S013E31A44M	365102120344744	09-03-87	20	7	100	85000	--
012S013E31A42M	365102120344742	07-30-87	20	2	200	43000	--
		09-03-87	<10	3	<100	43000	--
012S013E31A41M	365102120344741	07-09-87	130	2	<100	26000	--
012S013E31A40M	365102120344740	09-02-87	30	6	200	56000	--
012S013E31A39M	365102120344739	09-02-87	10	6	<100	58000	--
012S013E31A38M	365102120344738	09-02-87	10	3	100	43000	--
012S013E31A37M	365102120344737	07-10-87	20	3	200	26000	--
012S013E31A36M	365102120344736	09-01-87	20	6	100	66000	--
012S013E31A35M	365102120344735	09-01-87	10	6	200	48000	--
012S013E31A34M	365102120344734	09-01-87	20	6	200	44000	--
012S013E31A33M	365102120344733	09-02-87	10	4	200	42000	--
012S013E31A32M	365102120344732	07-09-87	30	2	<100	26000	--
012S013E31A31M	365102120344731	07-29-87	<10	3	300	56000	--
012S013E31A30M	365102120344730	07-29-87	20	4	200	6800	--
012S013E31A29M	365102120344729	07-29-87	20	3	<100	42000	--
012S013E31A28M	365102120344728	07-29-87	70	2	100	26000	--
011S019E15D01M	365844119532601	06-16-87	<10	1	79	20	1
011S017E10E01M	365936120062901	06-16-87	<10	1	52	30	<1
011S017E03A01M	370039120053101	06-16-87	<10	2	53	20	<1
011S015E22C01M	365757120190601	06-15-87	<10	2	85	20	<1

Table 2. Water-quality records at ground-water sites--*Continued*

WELL NO.	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
014S024E31G01M	<1	--	1	<1	<3	17	6	<1
014S022E14J01M	3	--	<1	<1	12	<5	4	<1
014S020E34G01M	<1	--	1	1	<3	<5	11	<1
014S020E32L02M	3	--	<1	1	6	<5	14	<1
014S018E02G01M	3	--	<1	1	22	<5	22	4
014S016E36B01M	4	--	<1	<1	10	<5	20	9
014S016E09A03M	2	--	<1	<1	20	<5	10	60
013S023E28R01M	<1	--	1	<1	<3	<5	4	1
013S023E19G01M	2	--	<1	8	6	<5	6	1
013S022E33R01M	1	--	<1	<1	<3	<5	<4	<1
013S021E16M03M	<1	--	--	--	<3	--	5	<1
013S021E01G01M	2	--	<1	<1	<3	<5	8	<1
013S019E17H02M	<1	--	<1	3	6	<5	15	<1
013S019E12K01M	<1	--	1	<1	<3	<5	8	<1
013S017E09L01M	<1	--	2	<1	5	11	12	1
013S017E01P01M	6	--	<1	1	42	<5	12	5
012S022E14F01M	1	--	<1	<1	3	<5	10	<1
012S020E32M02M	<1	--	3	1	<3	<5	<4	<1
012S020E01N01M	1	--	<1	<1	3	<5	7	<1
012S018E34D01M	7	--	<1	<1	4	<5	10	<1
012S018E01P02M	<1	--	<1	2	6	<5	10	1
012S016E25M01M	2	--	<1	2	4	<5	23	<1
012S016E24P01M	4	--	<1	2	<3	<5	14	<1
012S013E35N45M	3	--	--	--	40	--	260	490
012S013E35N44M	80	--	--	--	50	--	460	20
012S013E35N43M	30	--	--	--	40	--	340	20
012S013E35N42M	5	--	--	--	30	--	240	30
012S013E35N41M	80	--	--	--	5	--	340	120
012S013E35N40M	70	--	--	--	140	--	400	20
012S013E35N38M	30	--	--	--	50	--	270	20
012S013E35N37M	20	--	--	--	30	--	300	80
012S013E35N36M	40	--	--	--	40	--	360	20
012S013E35N35M	80	--	--	--	30	--	380	20
012S013E35N34M	40	--	--	--	40	--	370	20
012S013E35N31M	90	--	--	--	40	--	350	20
012S013E35N30M	50	--	--	--	50	--	340	20
012S013E35N29M	50	--	--	--	50	--	350	20
012S013E35N28M	50	--	--	--	50	--	320	20
012S013E35M33M	4	--	--	--	40	--	260	20
012S013E35 FYR-B1	3	--	--	--	40	--	260	70
012S013E31A48M	2	<1	--	--	140	--	220	200
012S013E31A47M	--	1	--	--	80	--	390	50
012S013E31A46M	--	<1	--	--	70	--	480	30
012S013E31A45M	20	<1	--	--	70	--	460	90
012S013E31A44M	<1	<1	--	--	120	--	240	250
012S013E31A42M	140	4	--	--	70	--	550	50
	90	<1	--	--	60	--	530	20
012S013E31A41M	210	36	--	--	120	--	470	40
012S013E31A40M	2	<1	--	--	120	--	200	80
012S013E31A39M	60	42	--	--	80	--	360	40
012S013E31A38M	50	2	--	--	60	--	520	30
012S013E31A37M	100	2	--	--	100	--	530	290
012S013E31A36M	20	<10	--	--	90	--	270	60
012S013E31A35M	200	<1	--	--	60	--	260	30
012S013E31A34M	240	<1	--	--	60	--	420	40
012S013E31A33M	70	<1	--	--	60	--	510	40
012S013E31A32M	190	<1	--	--	70	--	550	40
012S013E31A31M	<1	<1	--	--	80	--	340	70
012S013E31A30M	20	<1	--	--	110	--	420	70
012S013E31A29M	--	58	--	--	70	--	580	50
012S013E31A28M	160	1	--	--	80	--	530	120
011S019E15D01M	4	--	<1	1	<3	<5	5	1
011S017E10E01M	8	--	1	1	23	<5	<4	5
011S017E03A01M	4	--	<1	<1	7	<5	6	<1
011S015E22C01M	3	--	2	1	<3	<5	7	<1

Table 2. Water-quality records at ground-water sites--*Continued*

WELL NO.	MERCURY, DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
014S024E31G01M	<0.1	<2	<1	<1	<1	160	49	4
014S022E14J01M	<0.1	<2	1	<1	1	31	4	8
014S020E34G01M	--	--	<1	<1	<1	670	20	23
014S020E32L02M	<0.1	<1	<1	<1	<1	460	24	10
014S018E02G01M	<0.1	<2	<1	<1	<1	460	11	4
014S016E36B01M	0.3	<1	5	<1	<1	190	<10	<3
014S016E09A03M	<0.1	2	<1	<1	<1	480	<1	20
013S023E28R01M	<0.1	<2	<1	<1	<1	58	<1	8
013S023E19G01M	<0.1	4	<1	1	<1	300	56	20
013S022E33R01M	<0.1	<1	<1	<1	<1	100	28	44
013S021E16M03M	<0.1	--	--	--	--	140	28	10
013S021E01G01M	0.1	<1	<1	<1	<1	270	21	48
013S019E17H02M	<0.1	<1	1	<1	<1	480	12	58
013S019E12K01M	<0.1	<5	<1	<1	1	190	13	4
013S017E09L01M	<0.1	22	<1	<1	<1	52	35	<3
013S017E01P01M	<0.1	<10	<1	<1	<1	140	8	24
012S022E14F01M	<0.1	<4	2	<1	<1	220	45	130
012S020E32M02M	<0.1	<1	<1	<1	<1	100	13	5
012S020E01N01M	<0.1	<1	1	<1	<1	380	15	35
012S018E34D01M	<0.1	<1	<1	<1	<1	260	18	5
012S018E01P02M	<0.1	<2	<1	<1	<1	270	13	65
012S016E25M01M	<0.1	<1	<1	<1	<1	600	11	31
012S016E24P01M	<0.1	<1	<1	<1	<1	400	17	7
012S013E35N45M	--	34	7	400	--	--	6	--
012S013E35N44M	--	92	3	920	--	--	32	--
012S013E35N43M	--	84	1	270	--	--	49	--
012S013E35N42M	--	26	6	47	--	--	14	--
012S013E35N41M	--	10	12	15	--	--	19	--
012S013E35N40M	--	96	10	830	--	--	27	--
012S013E35N38M	--	34	3	720	--	--	37	--
012S013E35N37M	--	17	11	100	--	--	12	--
012S013E35N36M	--	130	4	790	--	--	39	--
012S013E35N35M	--	88	<1	700	--	--	22	--
012S013E35N34M	--	140	2	880	--	--	40	--
012S013E35N31M	--	84	3	680	--	--	15	--
012S013E35N30M	--	120	<1	770	--	--	37	--
012S013E35N29M	--	110	4	820	--	--	39	--
012S013E35N28M	--	96	4	870	--	--	35	--
012S013E35M33M	--	62	6	280	--	--	40	--
012S013E35 FYR-B1	--	24	15	210	--	--	26	--
012S013E31A48M	0.1	140	9	13000	--	--	240	--
012S013E31A47M	<0.1	790	<1	3000	--	--	25	--
012S013E31A46M	<0.1	350	<1	2000	--	--	13	--
012S013E31A45M	<0.1	140	<1	4300	--	--	27	--
012S013E31A44M	0.2	170	7	13000	--	--	230	--
012S013E31A42M	0.9	300	<1	3000	--	--	20	--
	0.2	320	<1	2600	--	--	14	--
012S013E31A41M	<0.1	160	<1	5200	--	--	30	--
012S013E31A40M	0.2	230	2	12000	--	--	140	--
012S013E31A39M	0.3	640	<1	2200	--	--	37	--
012S013E31A38M	0.2	350	<1	2200	--	--	19	--
012S013E31A37M	<0.1	170	5	2400	--	--	30	--
012S013E31A36M	0.1	370	2	5500	--	--	56	--
012S013E31A35M	0.2	580	<1	2600	--	--	20	--
012S013E31A34M	0.1	410	<1	3000	--	--	20	--
012S013E31A33M	0.1	360	<1	3000	--	--	15	--
012S013E31A32M	<0.1	210	<1	4100	--	--	30	--
012S013F31A31M	<0.1	49	4	10000	--	--	160	--
012S013E31A30M	2.3	360	<1	9300	--	--	100	--
012S013E31A29M	<0.1	280	<1	4700	--	--	30	--
012S013E31A28M	<0.1	170	4	4500	--	--	30	--
011S019E15D01M	<0.1	<1	<1	<1	<1	170	26	120
011S017E10E01M	<0.1	<1	<1	<1	<1	120	30	6
011S017E03A01M	<0.1	<1	1	<1	<1	140	23	98
011S015E22C01M	<0.1	9	<1	<1	<1	240	36	<3

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	SITE IDENTIFICATION NO.	DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM, DIS- SOLVED (UG/L AS CD)
010S018E20Q01M	370224120012501	06-05-87	<10	1	110	30	<1
010S018E10G01M	370435119592701	06-05-87	40	2	41	20	<1
010S016E21R01M	370235120131101	06-03-87	<10	1	180	40	<1
010S014E09P02M	370409120265201	06-04-87	<10	3	350	20	1
009S017E26G01M	370717120044301	06-03-87	<10	8	63	20	<1
009S017E24K01M	370757120033801	06-03-87	<10	2	96	20	<1
009S016E31F01M	370631120160201	08-06-87	<10	1	190	30	<1
009S013E15A01M	370924120315001	06-04-87	<10	44	55	70	<1
009S013E06R01M	371030120345601	06-04-87	<10	8	110	20	<1
008S016E28F01M	371232120133201	06-02-87	<10	8	180	20	<1
008S016E25D01M	371243120104201	06-02-87	<10	1	43	160	<1
008S014E18D01M	371430120291001	08-06-87	<10	8	220	30	<1
008S014E16M01M	371401120270101	07-20-87	30	6	210	20	<1
008S012E14B01M	371435120372601	06-01-87	<10	8	97	30	<1
008S012E01A01M	371622120355901	06-04-87	<10	4	96	30	<1
007S015E36C01M	371702120165201	06-02-87	<10	7	160	20	<1
007S013E30C01M	371818120351801	05-21-87	20	7	140	20	<1
007S013E22Q01M	371813120313701	05-13-87	<10	2	220	20	<1
007S011E13R01M	371914120421701	05-13-87	<10	9	51	40	<1
007S011E10L01M	372013120450601	06-01-87	<10	2	150	50	<1
006S014E32D01M	372232120275501	05-21-87	<10	2	100	<10	<1
006S010E14D01M	372455120505401	05-22-87	<10	4	330	130	<1
006S010E12D01M	372547120494601	05-14-87	<10	6	47	40	<1
005S011E05L01M	373132120470701	05-20-87	30	3	94	50	<1
005S009E35P01M	372704120565401	05-22-87	40	2	140	180	<1
005S009E17Q02M	372948121000801	05-13-87	<10	7	300	620	<1
004S012E17E01M	373520120403601	05-20-87	<10	4	99	40	<1
004S010E22R01M	373358120510201	05-19-87	20	4	150	60	<1
004S010E12J01M	373605120484201	05-14-87	<10	5	22	210	<1
003S013E30P01M	373822120345501	05-20-87	<10	3	290	30	<1
003S013E29K01M	373831120333501	05-14-87	<10	9	2300	100	1
003S011E31G01M	373753120474601	05-19-87	100	5	240	130	<1
003S011E23B01M	373950120432501	05-20-87	20	4	75	50	<1
003S009E15N02M	374008120581901	05-13-87	<10	2	110	80	<1
003S009E03N02M	374148120581601	05-19-87	<10	9	140	50	<1
002S010E20M01M	374449120535801	05-19-87	<10	2	66	20	<1
002S010E01Q01M	374710120490901	05-12-87	<10	1	56	20	<1
002S008E35M01M	374307121040101	05-18-87	10	6	190	130	<1
002S008E34C01M	374324121044101	05-12-87	<10	5	120	70	<1

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY, DIS- SOLVED (UG/L AS HG)
010S018E20Q01M	7	<1	<1	<3	<5	4	<1	<0.1
010S018E10G01M	6	<1	<1	19	<5	<4	<1	<0.1
010S016E21R01M	8	<1	2	7	<5	9	<1	<0.1
010S014E09P02M	9	<1	<1	<3	<5	19	<1	<0.1
009S017E26G01M	7	<1	1	46	<5	8	<1	0.6
009S017E24K01M	9	<1	1	6	<5	6	<1	<0.1
009S016E31F01M	2	<1	1	31	<5	4	5	<0.1
009S013E15A01M	5	<1	<1	<3	<5	<4	6	<0.1
009S013E06R01M	20	<1	1	<3	<5	6	1	<0.1
008S016E28F01M	6	<1	1	49	<5*	5	1	<0.1
008S016E25D01M	5	<1	1	5	<5	7	36	0.2
008S014E18D01M	5	<1	<1	3	<5	<4	<1	0.1
008S014E16M01M	3	<1	<1	4	12	7	2	0.3
008S012E14B01M	9	<1	<1	<3	<5	14	<1	<0.1
008S012E01A01M	9	<1	1	<3	<5	7	<1	<0.1
007S015E36C01M	8	<1	<1	12	<5	7	<1	0.5
007S013E30C01M	<1	<1	<1	<3	<5	12	<1	<0.1
007S013E22Q01M	<1	<1	<1	10	<5	5	1	<0.1
007S011E13R01M	<1	<1	1	6	<5	8	<1	<0.1
007S011E10L01M	10	<1	3	8	<5	11	<1	<0.1
006S014E32D01M	<1	<1	<1	4	25	8	<1	<0.1
006S010E14D01M	<1	<1	9	4	<5	13	24	<0.1
006S010E12D01M	<1	<1	<1	5	<5	4	5	<0.1
005S011E05L01M	3	<1	4	6	<5	17	<1	<0.1
005S009E35P01M	<1	<1	2	<3	<5	17	<1	0.1
005S009E17Q02M	<1	<1	<1	20	<5	30	630	0.1
004S012E17E01M	6	<1	1	<3	<5	8	<1	<0.1
004S010E22R01M	2	<1	1	<3	<5	18	1	<0.1
004S010E12J01M	<1	<1	6	12	<5	<4	25	0.1
003S013E30P01M	3	<1	3	4	<5	9	1	<0.1
003S013E29K01M	<1	<1	<1	1300	<5	18	1700	0.2
003S011E31G01M	<1	<1	<1	110	<5	5	420	<0.1
003S011E23B01M	4	<1	1	<11	<6	14	20	<0.1
003S009E15N02M	<1	<1	<1	5	<5	10	5	<0.1
003S009E03N02M	2	<1	5	6	<5	15	<1	<0.1
002S010E20M01M	<1	<1	1	8	<5	5	3	<0.1
002S010E01Q01M	1	<1	1	<3	<5	<4	<1	<0.1
002S008E35M01M	2	<1	3	<3	<5	9	<1	<0.1
002S008E34C01M	3	<1	1	6	<5	10	5	<0.1

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
010S018E20Q01M	7	<1	<1	<1	180	20	<3
010S018E10G01M	<2	<1	<1	<1	61	15	<3
010S016E21R01M	4	<1	<1	<1	380	24	7
010S014E09P02M	2	<1	<1	<1	650	17	10
009S017E26G01M	8	<1	<1	<1	150	15	85
009S017E24K01M	2	<1	<1	<1	200	24	17
009S016E31F01M	<1	<1	<1	<1	500	13	28
009S013E15A01M	9	<1	<1	<1	56	95	19
009S013E06R01M	2	<1	<1	<1	360	50	<3
008S016E28F01M	5	<1	<1	1	250	11	<3
008S016E25D01M	9	1	<1	<1	240	1	<3
008S014E18D01M	<1	<1	<1	1	410	46	<3
008S014E16M01M	<1	<1	<1	<1	410	21	6
008S012E14B01M	7	<1	<1	<1	360	22	<3
008S012E01A01M	<1	<1	<1	<1	420	28	49
007S015E36C01M	10	<1	<1	<1	260	18	7
007S013E30C01M	<1	2	<1	<1	440	27	95
007S013E22Q01M	<1	<1	<1	<1	460	20	8
007S011E13R01M	2	<1	<1	<1	140	<20	43
007S011E10L01M	<2	<1	<1	<1	540	14	19
006S014E32D01M	<1	1	<1	<1	160	15	11
006S010E14D01M	<2	<1	<1	<1	840	16	64
006S010E12D01M	5	24	<1	<1	120	<35	7
005S011E05L01M	4	<1	<1	<1	530	18	290
005S009E35P01M	7	<1	<1	<1	1000	15	46
005S009E17Q02M	15	<1	<1	<1	3000	20	10
004S012E17E01M	3	<1	<1	<1	160	25	4
004S010E22R01M	19	<1	<1	<1	620	35	5
004S010E12J01M	2	<1	<1	<1	35	<100	<3
003S013E30P01M	<1	<1	<1	<1	230	18	32
003S013E29K01M	2	<1	<1	<1	1300	<600	11
003S011E31G01M	8	<1	<1	<1	480	<10	13
003S011E23B01M	<1	<1	<1	<1	190	24	12
003S009E15N02M	<1	<1	<1	<1	880	24	10
003S009E03N02M	<1	<1	<1	<1	640	32	12
002S010E20M01M	<1	<1	<1	<1	370	<10	38
002S010E01Q01M	<1	<1	<1	<1	200	<30	5
002S008E35M01M	2	<1	<1	<1	970	30	11
002S008E34C01M	<1	1	<1	<1	570	34	21

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	SITE IDENTIFICATION NO.	DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)
DRAIN 015S014E02-1 M	363915120242001	04-16-87	<10	<1	<100	11000	5	<1
		05-07-87	10	1	<100	14000	7	<1
		07-31-87	<10	2	<100	11000	7	<1
		10-20-87	10	--	<100	17000	20	<1
		10-21-87	<10	--	<100	16000	20	<1
		10-22-87	<10	--	<100	17000	20	<1
		11-05-87	10	--	200	19000	20	<1
		11-04-87	10	--	<100	19000	20	<1
		11-13-87	20	--	200	20000	20	<1
		11-24-87	10	--	--	21000	20	<1
		01-24-88	<10	--	--	17000	10	<1
		02-03-88	<10	--	200	17000	10	<1
		02-25-88	<10	--	100	13000	10	<1
		03-25-88	<10	--	100	13000	10	<1
		04-27-88	<10	--	<100	9100	10	<1
		05-23-88	<10	--	<100	8700	10	6
		09-20-88	10	--	<100	22000	20	5
DRAIN 012S013E35-3 M	365018120312652	03-15-88	<10	--	<100	17000	30	5
		04-28-88	20	--	<100	17000	30	<1
		05-24-88	<10	--	<100	20000	30	15
		06-22-88	10	--	<100	170000	30	9
		07-14-88	10	--	--	17000	30	--
		08-10-88	20	--	<100	17000	30	<1
		09-07-88	<10	--	<100	19000	30	13
DRAIN 012S013E35-2 M	365018120312651	03-15-88	10	--	<100	14000	20	<1
		04-28-88	<10	--	<100	14000	20	<1
		05-24-88	<10	--	<100	14000	20	10
		06-22-88	10	--	<100	12000	20	3
		07-14-88	10	--	--	13000	20	--
		08-10-88	20	--	<100	13000	20	<1
		09-07-88	<10	--	<100	15000	20	8
DRAIN 012S013E35-1 M	365018120312627	08-27-87	20	1	<100	13000	5	<1
		03-15-88	<10	--	<100	14000	20	<1
		04-28-88	<10	--	<100	14000	20	<1
		05-24-88	10	--	<100	13000	20	11
		06-22-88	20	--	<100	13000	20	7
		07-14-88	10	--	--	14000	20	--
		08-10-88	20	--	<100	14000	20	<1
		09-08-88	10	--	<100	15000	20	7

Table 2. Water-quality records at ground-water sites--Continued

WELL NO.	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM, DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY, DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
DRAIN 015S014E02-1 M	60	250	20	0.1	39	3	860	60
	50	360	10	2.5	34	4	820	34
	40	230	10	0.1	--	3	860	29
	50	360	20	--	26	6	710	31
	40	370	20	--	23	1	760	20
	50	360	20	--	27	6	850	19
	50	360	20	--	23	7	900	32
	50	360	10	--	23	8	780	30
	50	350	20	--	25	6	980	39
	--	320	30	--	31	9	1300	41
	--	260	20	1.2	38	8	1400	48
	50	320	--	--	40	2	1500	47
	60	280	20	--	35	5	1200	37
	40	270	20	--	41	6	850	38
	30	250	20	--	33	5	310	19
	30	230	10	--	29	5	190	17
	30	350	10	--	32	10	920	65
DRAIN 012S013E35-3 M	40	290	20	--	57	<1	540	33
	40	290	20	--	78	4	540	45
	50	280	10	--	59	3	430	32
	60	270	10	--	50	8	440	42
	40	270	20	--	59	8	600	31
	50	280	10	--	59	2	530	29
	40	240	20	--	55	2	700	30
DRAIN 012S013E35-2 M	40	280	20	--	31	4	80	37
	40	280	30	--	38	6	300	34
	40	260	10	--	35	4	320	39
	40	250	10	--	26	10	240	27
	40	260	20	--	33	6	310	34
	40	270	10	--	39	7	230	34
	30	230	20	--	35	2	390	35
DRAIN 012S013E35-1 M	40	240	20	0.5	61	3	420	17
	40	250	10	--	62	1	380	33
	30	240	20	--	69	5	380	30
	40	230	10	--	59	4	280	29
	40	230	10	--	51	7	270	27
	30	240	20	--	56	3	380	33
	40	240	10	--	60	7	410	31
	30	220	20	--	53	4	420	31