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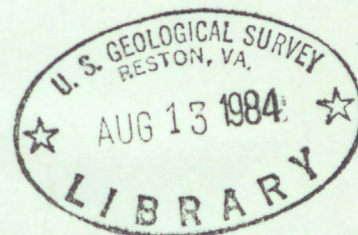
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METEOROLOGICAL, WATER-TEMPERATURE, AND DISCHARGE DATA FOR THE  
MATTOLE RIVER BASIN, HUMBOLDT COUNTY, CALIFORNIA

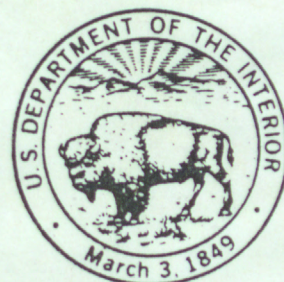
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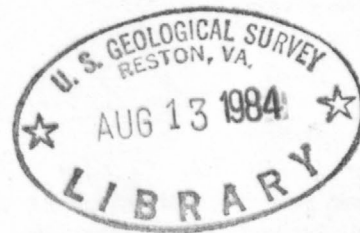
METEOROLOGICAL, WATER-TEMPERATURE, AND DISCHARGE DATA FOR THE  
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By Richard D. Noble and Alan P. Jackman

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Geological Survey

Water Resources Division, Western Region

U.S. GEOLOGICAL SURVEY

Menlo Park, CA 94023

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Summary Notes

Abstract (200 words)

This study was made to overcome a major difficulty in the testing of river-temperature models--the lack of adequate precise synoptic data for river basins. Synoptic meteorologic, water-temperature, and discharge data for the Mattole River basin in northern California during the period June 10 to June 30, 1978. The variables monitored were water temperature in the main channel and major tributaries, wind velocity, wet-bulb and dry-bulb air temperature, total incoming shortwave radiation, discharge, and average velocity and axial dispersal in the main channel. This report describes the experimental design, instrumentation and procedures followed to insure the best possible information. A detailed set of data which can be used in testing river-temperature models.

Keywords: Synoptic & Data

Meteorological data, Water temperature, Mathematical modeling, Wind velocity, Air temperature, Radiation

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significant figures; however, in TABLES the metric equivalents are shown only to the number of significant figures consistent with the values for U.S. customary.

U.S. customary units	Multiply by	Metric units	Page
ft (foot)	$3.048 \times 10^{-1}$	m (meter)	
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7. Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California-----			follows text
qt/min (quart per minute)	.9464	L/min (liter per min)	
yd (yard)	$9.144 \times 10^{-1}$	m (meter)	

## CONVERSION FACTORS

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Factors for converting U.S. customary units to metric units are shown to four significant figures; however, in the text the metric equivalents are shown only to the number of significant figures consistent with the values for the U.S. customary.

<i>U.S. customary unit</i>	<i>Multiply by</i>	<i>Metric units</i>
ft (foot)	$3.048 \times 10^{-1}$	m (meter)
ft <sup>3</sup> /s (cubic foot per second)	$2.832 \times 10^{-2}$	m <sup>3</sup> /s (cubic meter per second)
in (inch)	$2.540 \times 10^1$	mm (millimeter)
gal (gallon)	3.785	L (liter)
mi (mile)	1.609	km (kilometer)
mi/h (mile per hour)	1.609	km/h (kilometer per hour)
mi <sup>2</sup> (square mile)	2.590	km <sup>2</sup> (square kilometer)
qt/min (quart per minute)	.9464	L/min (liter per minute)
yd (yard)	$9.144 \times 10^{-1}$	m (meter)



METEOROLOGICAL, WATER-TEMPERATURE, AND DISCHARGE DATA FOR THE MATTOLE RIVER  
BASIN, HUMBOLDT COUNTY, CALIFORNIA

By Richard D. Noble and Alan P. Jackman

ABSTRACT

This study was made to overcome a major difficulty in the testing of the validity of river-temperature models--the lack of adequate precise synoptic data for an entire river basin. Synoptic meteorologic, water-temperature, and discharge data were obtained in the Mattole River basin in northern California during the period June 10 through August 31, 1975. The variables monitored were water temperature in the main channel and major tributaries, wind velocity, wet-bulb and dry-bulb air temperature, total hemispherical incoming radiation, total incoming shortwave radiation, discharge in the main channel and major tributaries, and average velocity and axial dispersion coefficients in the main channel. This report describes the experimental design and the instrumentation and procedures followed to insure the best possible information, and it presents a detailed set of data which can be used in testing river-temperature models.

## INTRODUCTION

The natural water temperature of a river may be defined as the temperature which would occur in the absence of any man-made alterations. Alterations can include riparian vegetation removal, impoundments, heated discharges to the stream, channelization, and withdrawal of water for irrigation and its return to the stream.

Mathematical models which would accurately predict the natural water temperature of rivers and streams have been sought for many years. Such models would be based on measured meteorological and flow conditions. The major problem in determining the validity of models is the lack of sufficient synoptic meteorologic, flow, and water temperature data for an entire river basin. This study was made to obtain the necessary synoptic data over a 3-month period. The data collected include water temperature and discharge in the main channel and major tributaries, average flow velocity and axial dispersion coefficients in the main channel, average channel width, total incoming radiation, total incoming short-wave radiation, wet-bulb and dry-bulb air temperature, and wind velocity.

This report describes the river basin and the equipment and techniques used in the study, and discusses the accuracy of the results obtained.

The authors gratefully acknowledge financial support from the Committee on Research, University of California, Davis, and the loan of wet-bulb and dry-bulb thermometry equipment from the Division of Environmental Studies, University of California, Davis. The authors also wish to acknowledge helpful discussions with Nobuhiro Yotsukura, Harvey Jobson, and Vance Kennedy of the U.S. Geological Survey.

The Mattole River gaging station on the Mattole River near Petrolia commonly ranges from 50 to 100 ft<sup>3</sup>/s (1.4 to 2.8 m<sup>3</sup>/s) during the summer, while during the winter flows of about 5,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s) are not uncommon. The maximum recorded flow is 90,400 ft<sup>3</sup>/s (2,561 m<sup>3</sup>/s), and the minimum is 20 ft<sup>3</sup>/s (0.56 m<sup>3</sup>/s) (California Department of Water Resources, 1973). Flood peaks associated with winter storms commonly die away within a few days. Summer low flows diminish slowly with time until the rains begin in late fall.

During summer the mouth of the river is blocked by a sand bar and a large lagoon is formed. The ponded water is not typical of rivers in general, and its temperature characteristics are not typical of the free-flowing parts of the Mattole River. The downstream end of the reach of river studied is at the U.S. Geological Survey gaging station near Petrolia, approximately 60 river mi (96.5 km) from the source.

The study during June through August, 1976, was made in seven reaches of the Mattole River which are described briefly in the following paragraphs. Geographic names used are shown in figure 1. In general, all the property along the river is owned privately. Therefore, owner permission was required to establish sites. This fact, road accessibility, and minimizing vandalism were the major considerations in selecting sites for temperature- and weather monitoring stations.



## MATTOLE RIVER BASIN

The Mattole River basin (fig. 1) is in northwestern California, approximately 40 mi (64.4 km) south of Eureka in southern Humboldt County. The mouth of the river is about 10 mi (16.1 km) south of Cape Mendocino, the westernmost point in the conterminous United States.

The Mattole River basin was chosen for this study because it lacks permanent man-made alterations to the streamflow, while it is small enough to provide good accessibility but large enough to have appreciable flow in several major tributaries. The basin has an area of 304 mi<sup>2</sup> (788 km<sup>2</sup>); it is from 4 to 12 mi (6.4 to 19.3 km) wide and approximately 36 mi (58 km) long. The altitude of the land surface increases from sea level at the river mouth to 4,087 ft (1,246 m) at King's Peak on the divide at the southwest side of the basin. The main stem of the Mattole River is approximately 68 mi (109 km) long; in an upstream direction it rises gradually from sea level to 50 ft (15.2 m) at Petrolia, 350 ft (107 m) at Honeydew, 700 ft (213 m) at Ettersburg, about 1,000 ft (305 m) near Whitethorn, to 1,350 ft (412 m) near its source.

The river starts on the eastern side of the range in which King's Peak is situated, and within 3 mi (4.8 km) of the Pacific Ocean. It flows generally north-northeast to Honeydew where it turns west-northwest for the final 20-mi (32.2-km) reach to the ocean. The main river is joined by 74 tributaries, of which 6 are considered major for the purpose of this study.

The river is perennial but is characterized by large variation in discharge during the year because precipitation occurs almost exclusively from October to March. Mean annual precipitation is about 100 in (254 cm). Flow at the U.S. Geological Survey station on the Mattole River near Petrolia commonly ranges from 50 to 100 ft<sup>3</sup>/s (1.4 to 2.8 m<sup>3</sup>/s) during the summer, while during the winter flows of about 5,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s) are not uncommon. The maximum recorded flow is 90,400 ft<sup>3</sup>/s (2,561 m<sup>3</sup>/s), and the minimum is 20 ft<sup>3</sup>/s (0.56 m<sup>3</sup>/s) (California Department of Water Resources, 1973). Flood peaks associated with winter storms commonly die away within a few days. Summer low flows diminish slowly with time until the rains begin in late fall.

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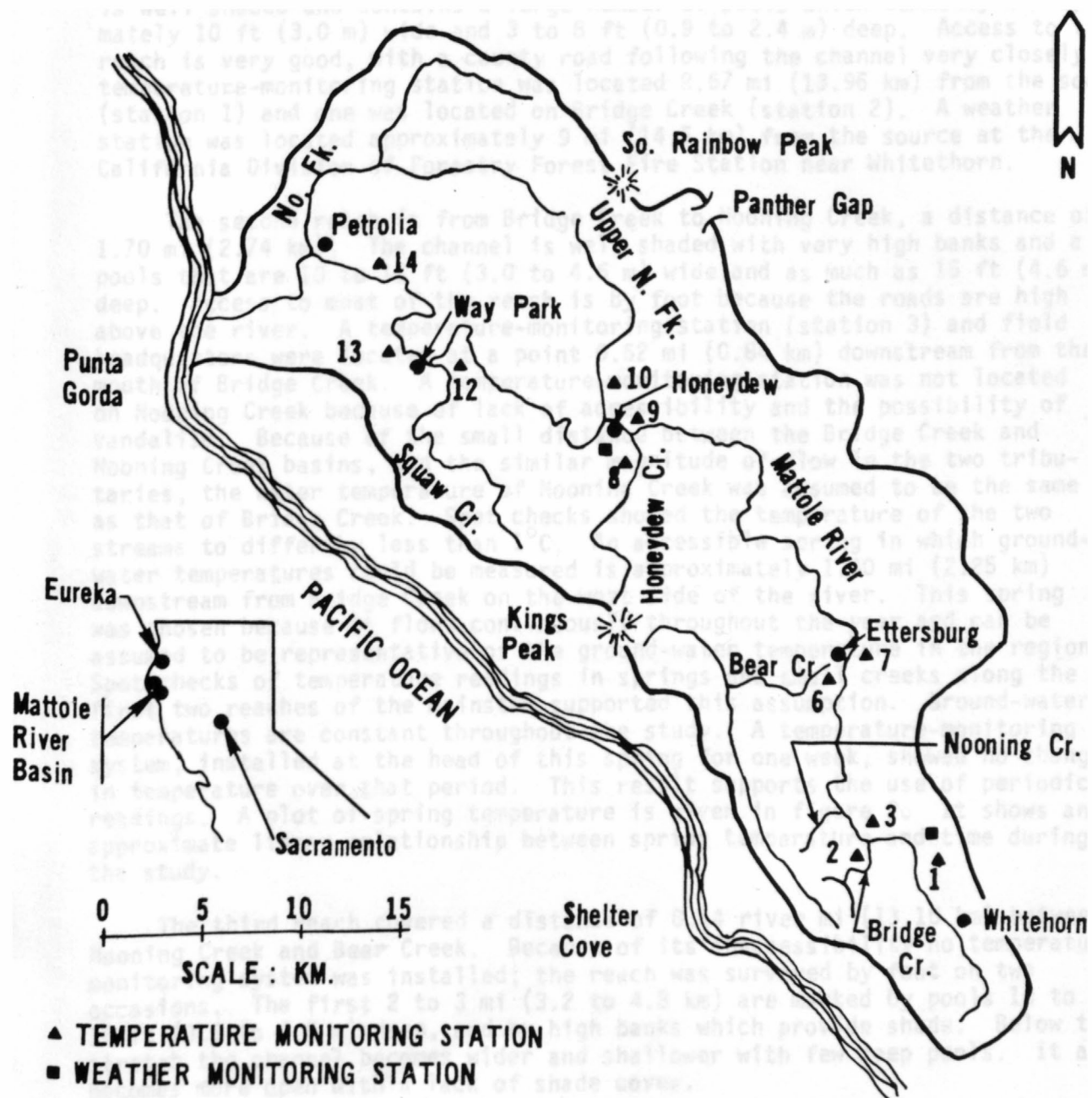


Figure 1. Mattole River Basin



The river rises from springs in a meadow. The first reach is from the source to Bridge Creek, a distance of 10.47 river mi (16.85 km). The channel is well shaded and contains a large number of pools which commonly are approximately 10 ft (3.0 m) wide and 3 to 8 ft (0.9 to 2.4 m) deep. Access to the reach is very good, with a county road following the channel very closely. A temperature-monitoring station was located 8.67 mi (13.96 km) from the source (station 1) and one was located on Bridge Creek (station 2). A weather station was located approximately 9 mi (14.5 km) from the source at the California Division of Forestry Forest Fire Station near Whitethorn.

The second reach is from Bridge Creek to Noonung Creek, a distance of 1.70 mi (2.74 km). The channel is well shaded with very high banks and a few pools that are 10 to 15 ft (3.0 to 4.6 m) wide and as much as 15 ft (4.6 m) deep. Access to most of the reach is by foot because the roads are high above the river. A temperature-monitoring station (station 3) and field headquarters were located at a point 0.52 mi (0.84 km) downstream from the mouth of Bridge Creek. A temperature-monitoring station was not located on Noonung Creek because of lack of accessibility and the possibility of vandalism. Because of the small distance between the Bridge Creek and Noonung Creek basins, and the similar magnitude of flow in the two tributaries, the water temperature of Noonung Creek was assumed to be the same as that of Bridge Creek. Spot checks showed the temperature of the two streams to differ by less than 1°C. An accessible spring in which ground-water temperatures could be measured is approximately 1.40 mi (2.25 km) downstream from Bridge Creek on the west side of the river. This spring was chosen because it flows continuously throughout the year and can be assumed to be representative of the ground-water temperature in the region. Spot checks of temperature readings in springs and small creeks along the first two reaches of the mainstem supported this assumption. Ground-water temperatures are constant throughout the study. A temperature-monitoring system, installed at the head of this spring for one week, showed no change in temperature over that period. This result supports the use of periodic readings. A plot of spring temperature is given in figure 2. It shows an approximate linear relationship between spring temperature and time during the study.

The third reach covered a distance of 8.14 river mi (13.10 km) between Noonung Creek and Bear Creek. Because of its inaccessibility no temperature-monitoring system was installed; the reach was surveyed by foot on two occasions. The first 2 to 3 mi (3.2 to 4.8 km) are marked by pools 10 to 15 ft (3.0 to 4.6 m) deep, and by high banks which provide shade. Below this stretch the channel becomes wider and shallower with few deep pools. It also becomes more open with a lack of shade cover.

The fourth reach, between Bear Creek and Honeydew Creek, covers 17.82 river mi (28.68 km). Accessibility is limited to parts of the river near Bear Creek at Ettersburg and at Honeydew Creek near Honeydew. No attempts were made to cover this reach by foot because of the time required. An aerial reconnaissance was undertaken in late August 1975. The channel is very wide with no shade cover. The river is very shallow. Temperature-monitoring stations were located on Bear Creek (station 6), 0.09 mi (0.14 km) downstream from Bear Creek (station 7), and on Honeydew Creek at the U.S. Geological Survey gaging station (station 8).

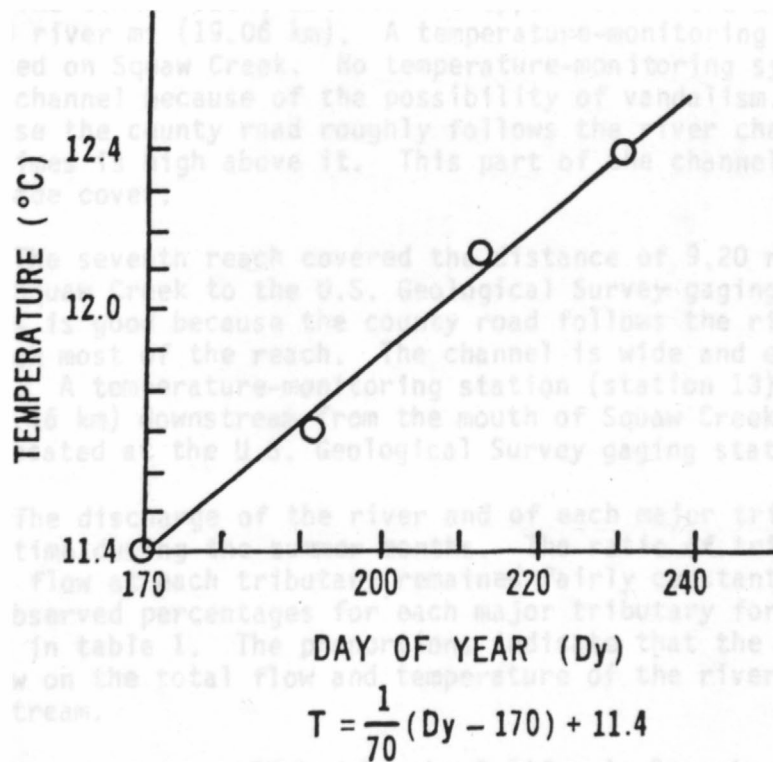


Figure 2. Spring Temperature vs. Day of Year



The fifth reach, between Honeydew Creek and Upper North Fork, covered 1.14 river mi (1.84 km). The channel was very exposed and the river was very shallow. Accessibility was very good because the county road begins to follow the river at this point and continues to do so out to the ocean. A temperature-monitoring system was located 0.71 river mi (1.14 km) downstream from Honeydew Creek (station 9), and one was located on the Upper North Fork (station 10). A weather-monitoring station was located at the California Division of Forestry Forest Fire Station at Honeydew.

The sixth reach, between the Upper North Fork and Squaw Creek, covers 11.84 river mi (19.06 km). A temperature-monitoring system (station 12) was located on Squaw Creek. No temperature-monitoring system was placed on the main channel because of the possibility of vandalism. Accessibility is good because the county road roughly follows the river channel, although the road sometimes is high above it. This part of the channel is also very wide with no shade cover.

The seventh reach covered the distance of 9.20 river mi (14.81 km) from Squaw Creek to the U.S. Geological Survey gaging station at Petrolia. Access is good because the county road follows the river channel very closely through most of the reach. The channel is wide and exposed with very few pools. A temperature-monitoring station (station 13) was located 1.53 river mi (2.46 km) downstream from the mouth of Squaw Creek, and one (station 14) was located at the U.S. Geological Survey gaging station at Petrolia.

The discharge of the river and of each major tributary diminished slowly with time during the summer months. The ratio of tributary flow to total river flow at each tributary remained fairly constant throughout the period. The observed percentages for each major tributary for August 6, 1975, are shown in table 1. The proportions indicate that the effect of a tributary inflow on the total flow and temperature of the river tends to diminish downstream.

Two reports published by the California Department of Water Resources (1973, 1974) contain a great deal of hydrologic information about the area, and a book (Raphael, 1974) describes the history of the area.

**TABLE 1.--Proportion of discharge in tributaries, as percent of total discharge**

Tributary	Discharge (ft <sup>3</sup> /s)		Proportion of discharge (percent)
	Tributary	Main stem above junction	
Bridge Creek	1.69	2.76	38.0
Nooning Creek	1.44	4.45	24.4
Bear Creek	6.05	12.65	32.4
Honeydew Creek	6.55	21.45	23.4
Upper North Fork	7.43	28.00	21.0
Squaw Creek	5.82	41.13	12.4

## EXPERIMENTAL APPARATUS AND PROCEDURES

### Streamflow Measurements

Streamflow was determined by two different methods, the choice being dependent upon channel shape. Most tributaries have very narrow channels with considerable turbulence caused by flow over large rocks. In all tributaries it was possible to find sites where mixing occurs quite rapidly; at those sites the dye-dilution technique was used. On the other hand, finding good sites for current-meter measurements was practically impossible, even in the largest tributaries. On the main stem, the channel width was generally too large to permit rapid mixing. Suitable sites for dye-discharge measurement exist in the main stem only above Bridge Creek and in the vicinity of Ettersburg. At other locations, current-meter measurements were used. Because the maximum depth in suitable reaches was typically 1.5 ft (45.7 cm) or less, it was necessary to use a pygmy meter.

Current-meter determinations were made using the methods outlined by the U.S. Geological Survey (unpublished data, 1969). Because the river is shallow with occasional deep pools, all measurements were made at 0.6 of the total depth. At most sites the bottom consisted of sand and small gravel with a few larger rocks.

Dye-dilution measurements followed methods described by the U.S. Geological Survey (unpublished data, 1965). Rhodamine WT dye was first diluted appropriately in an 8-qt (7.56-L) mariotte bottle. The discharge rate of the mariotte bottle was set at approximately 1 qt/min (0.95 L/min). This gives a total delivery time of about 8 min for the mariotte bottle. In most instances the dye collection was made about 150 to 300 ft (45.7 to 91.4 m) below the injection point to insure adequate lateral mixing. The travel time through such reaches was generally 1 to 3 min, and in all instances the plateau concentration was achieved at the collection site before dye injection was terminated. Two samples were collected to check reproducibility. A sample was also collected from the mariotte bottle. The samples were collected in glass jars and returned to the field headquarters for analysis using a Turner Model 111 fluorometer.<sup>1</sup> Mariotte bottle samples were diluted using pipettes and volumetric flasks before analysis. Background fluorescence was not detectable in any surface waters within the Mattole River basin.

<sup>1</sup>The use of brand names in this report is for identification purposes only and does not imply endorsement by the U.S. Geological Survey.



Table 2 lists the discharge at various locations on various dates.

TABLE 2.--Discharge data for main stem and tributaries  
of the Mattole River

[C, current-meter technique; D, dye-dilution technique]

Location	Discharge		Day	Date [1975]
	ft <sup>3</sup> /s	m <sup>3</sup> /s x 10 <sup>2</sup>		
Bridge Creek	3.08	8.73	163 D	June 12
	2.44	6.91	184 D	July 03
	2.42	6.86	198 D	17
	1.62	4.59	205 D	24
	1.65	4.68	216 D	Aug. 04
	1.56	4.42	232 D	20
Mattole River, 10.99 mi (17.69 km) from source	10.08	28.57	184 C	July 03
	6.36	18.02	198 C	17
	3.40	9.64	232 D	Aug. 20
Nooning Creek	1.33	3.77	232 D	Aug. 20
Bear Creek	21.72	61.55	164 C	June 13
	12.73	36.08	184 C	July 03
	5.24	14.85	216 C	Aug. 04
	4.99	14.14	234 D	22
Mattole River, 20.40 mi (32.84 km) from source	57.71	163.54	164 C	June 13
	40.90	115.90	176 C	25
	35.66	101.06	184 C	July 03
	31.60	89.55	198 D	17
	15.84	44.89	216 C	Aug. 04
	14.50	41.09	234 C	22
Honeydew Creek	20.98	59.45	164 C	June 13
	18.80	53.28	168 C	17
	14.59	41.35	185 C	July 04
	10.30	29.19	197 C	16
	7.98	22.61	207 D	26
	4.80	13.60	215 D	Aug. 03
	5.85	16.58	234 D	22
	5.22	14.79	237 D	25
Mattole River, 38.84 mi (62.52 km) from source	69.39	196.64	184 C	July 03
	45.52	129.00	200 C	19
	30.46	86.32	215 C	Aug. 03
	27.40	77.65	237 C	25

TABLE 2.--Discharge data for main stem and tributaries  
of the Mattole River--Continued

Location	Discharge		Day	Date [1975]
	ft <sup>3</sup> /s	m <sup>3</sup> /s x 10 <sup>2</sup>		
Upper North Fork	17.59	49.85	164 C	June 13
	10.02	28.40	185 C	July 04
	8.37	23.72	215 D	Aug. 03
	5.87	16.63	235 D	23
Squaw Creek	20.77	58.86	164 C	June 13
	11.06	31.34	185 C	July 04
	8.07	22.87	200 D	19
	4.80	13.60	215 D	Aug. 03
	5.30	15.02	233 D	21
Mattole River, 51.36 m (82.68 km) from source	89.58	253.86	185 C	July 04
	71.98	203.98	200 C	19
	60.12	170.37	206 C	25
	44.41	125.85	215 C	Aug. 03
	33.10	93.80	237 C	25
Mattole River, 60.31 mi (97.08 km) from source	157.00	444.92	168 C	June 17
	95.00	269.22	197 C	July 16
	38.10	107.97	237 C	Aug. 25

## TIME-OF-TRAVEL MEASUREMENT

Time-of-travel measurements were conducted periodically following the procedure outlined by the U.S. Geological Survey (unpublished data, 1970). A graph permits estimation of the amount of 20 percent Rhodamine-WT solution which must be dumped in a given reach. The dye was dumped in a rapidly moving section at the beginning of a reach of length  $L_R$ . A Turner Model 111 fluorometer was used to measure dye concentration ( $C_d$ ), at the end point of the reach, as a function of time. A plot of dye concentration,  $C_d$ , versus time,  $t$ , was then prepared. The average time of travel,  $t_t$ , is the first absolute moment ( $\mu_1$ ), and the axial dispersion coefficient,  $D$ , is related to the second central moment ( $\mu_2$ ), of the curve of dye concentration versus time (Suzuke and Smith, 1971), as follows:

$$t_t = \frac{\int_0^{\infty} t C_d(t) dt}{\int_0^{\infty} C_d(t) dt} = \mu_1 \quad (1)$$

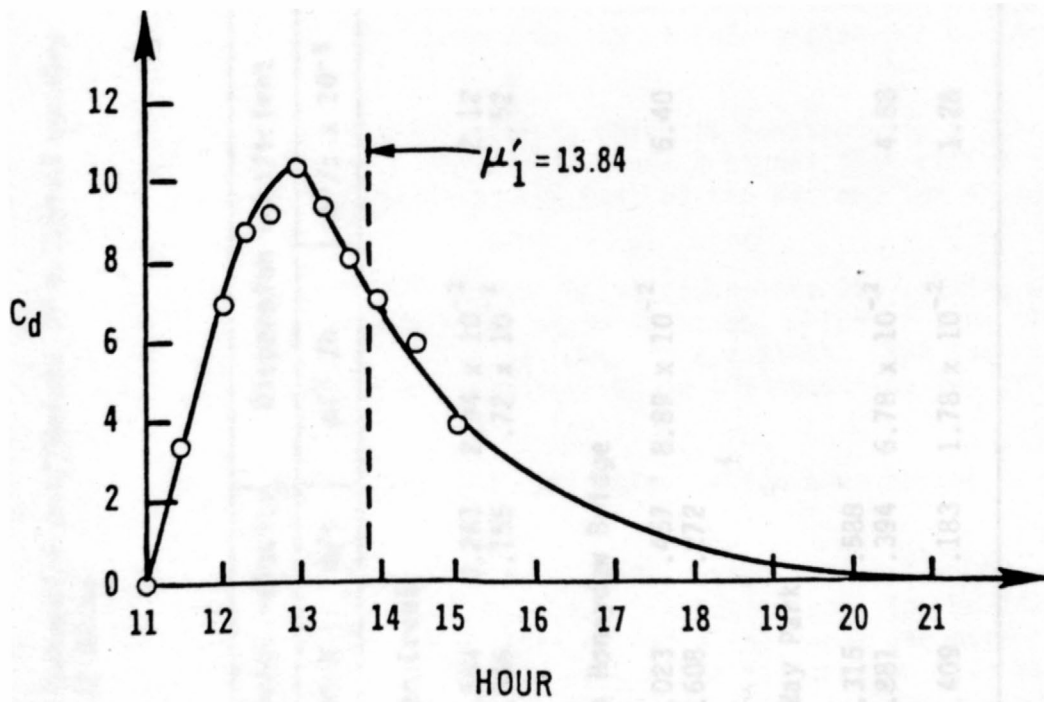
and

$$D = \frac{L_R^2}{2t_t^3} \frac{\int_0^{\infty} (t-t_t)^2 C_d(t) dt}{\int_0^{\infty} C_d(t) dt} = \frac{v^3 \mu_2}{2L_R} \quad (2)$$

An exponential tail was fitted to each curve because time was not available for collecting sufficient data for a complete curve. This fit was done using two data points after the dye concentration had dropped to approximately 30 percent of the peak concentration. Figure 3 represents a typical curve.

The integrations were performed using a third-order Simpson's rule approximation. The results are presented as average velocities and axial dispersion coefficients in table 3. The time of travel calculated by equation 1 differs slightly from the method recommended by Kilpatrick and others (1970), which utilizes the time to the arrival of the peak dye concentration. The differences would be less than 5 percent in most cases.





Flourometer Reading vs. Hour

8/30/75

Honeydew Bridge to Hadley's Cafe

Distance = 5.76 Miles (9.27 Km.) =  $L_R$

$$\mu_2 = 2.9532 = \frac{2 \times L_R \times D}{v^3}$$

$$v = \frac{L_R}{\tau_t} = 0.416 \text{ Mi./Hr.} = 0.186 \text{ M./Sec}$$

$$D = 1.28 \times 10^5 \text{ Cm.}^2/\text{Sec.}$$

Figure 3. Flourometer Reading vs. Time From Dye Injection

TABLE 3.--Average width and velocity, and dispersion coefficient of selected reaches in the Mattole River

Date (1975)	Day	Length		Average width		Average velocity		Dispersion coefficient	
		mi	km	ft	m	mi/h	m/s	mi <sup>2</sup> /h	cm <sup>2</sup> /s x 10 <sup>-5</sup>
Nooning Creek to Bear Creek									
May 23	143	8.14	13.10			0.584	0.261	2.94 x 10 <sup>-2</sup>	2.12
June 23	174					.346	.155	.72 x 10 <sup>-2</sup>	.52
Aug. 18	231			30.34	9.25				
Ettersburg Bridge to Honeydew Bridge									
May 22	142	16.86	27.14			1.023	.457	8.89 x 10 <sup>-2</sup>	6.40
June 22	173					.608	.272		
Aug. 18	231			41.89	12.77				
Honeydew Bridge to Way Park									
May 22	142	13.61	21.91			1.315	.588		
June 21	172					.881	.394	6.78 x 10 <sup>-2</sup>	4.88
Aug. 18	231			64.32	19.61				
Aug. 30	242					.409	.183	1.78 x 10 <sup>-2</sup>	1.28

## TEMPERATURE-MONITORING SYSTEM

Figure 4 is a schematic flow sheet which depicts the major components of the temperature-monitoring system. A detailed description of the theory and design of the circuitry is discussed elsewhere (Jackman and others, 1977). The sequence of events for the recording of information for one data point is as follows.

The XR-2340CN is a timing device which is continuously connected to the power supply. At 1-hour intervals it sends a signal that closes two relay switches, which provide power to the rest of the system, for approximately 14 seconds.

The closure of the main power relays causes the 555<sub>1</sub> timing element to send a signal of approximately 4-second duration, which in turn closes two other relay switches; one supplies power to a cassette tape recorder, and the second places a reference register  $R_R$  in the measuring leg of a resistance bridge.

The output voltage from the resistance bridge then passes to 741<sub>1</sub> where it is amplified.

The amplified signal passes to the 741<sub>2</sub> which integrates the signal until it reaches the threshold voltage of the Schmidt trigger in the 74121 which then sends a short pulse which short circuits the input and output of the 741<sub>2</sub>, causing the output to fall to zero. The integration then begins again. This sequence generates a saw-tooth wave form which is recorded on the cassette tape.

The expiration of the 551<sub>1</sub> timer signal activates the 555<sub>2</sub> timer to send a signal of approximately 4 seconds. The procedure is analogous to that of the 551<sub>1</sub> sequence, except that now the thermistor,  $R_T$ , is inserted in the resistance bridge instead of the reference resistor,  $R_R$ .

Therefore, for every temperature observation, two frequency signals are generated and recorded on cassette tape.





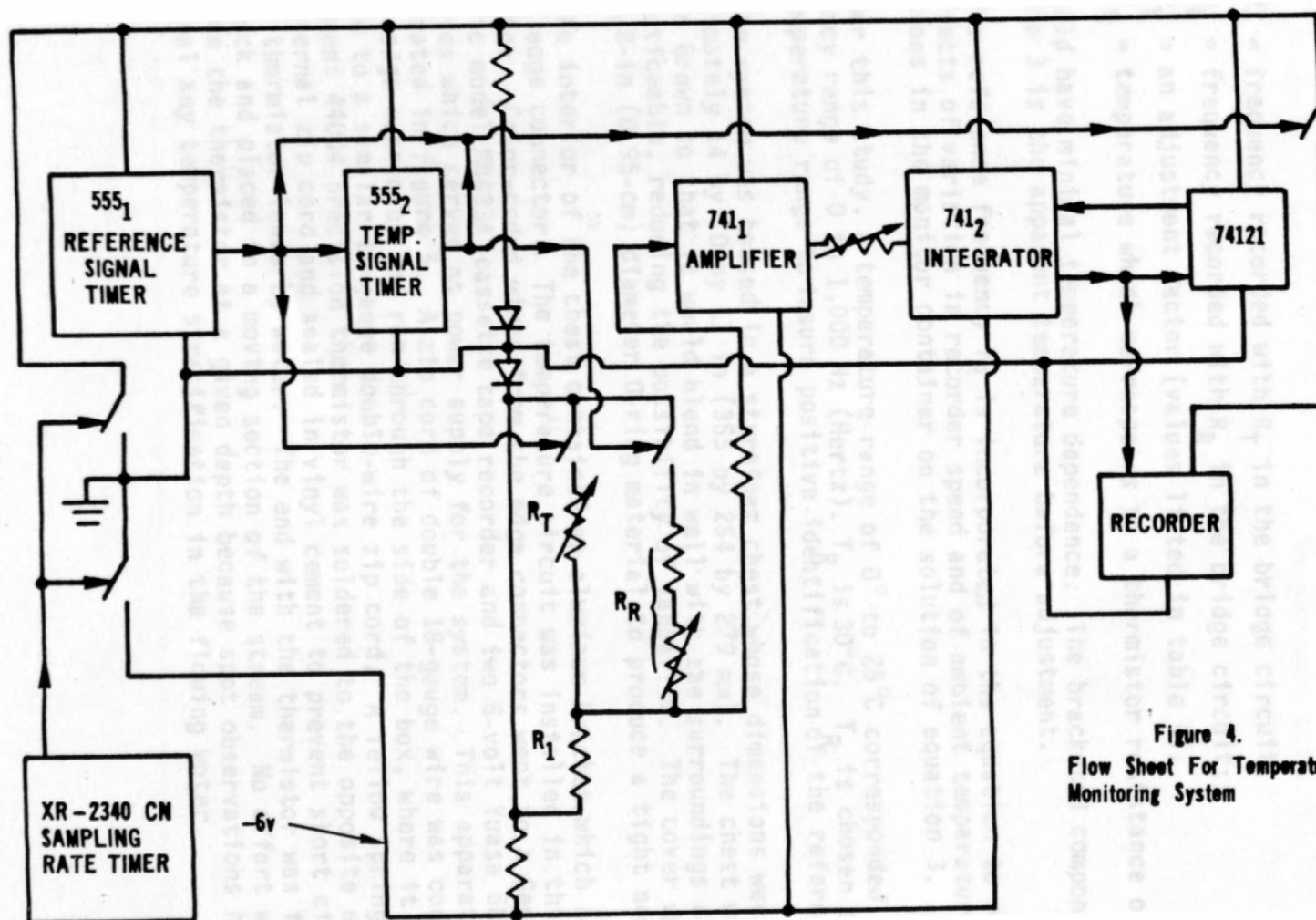


Figure 4.  
Flow Sheet For Temperature  
Monitoring System

The temperature, in degrees Celsius, is then found as follows:

$$T = \left[ \frac{f_T}{f_R} \times T_R \right] + C_L \quad (3)$$

where

$f_T$  = frequency recorded with  $R_T$  in the bridge circuit;

$f_R$  = frequency recorded with  $R_R$  in the bridge circuit;

$C_L$  = an adjustment factor (values listed in table 4).

$T_R$  = temperature which corresponds to a thermistor resistance of  $R_R$ .

$R_R$  should have minimal temperature dependence. The bracketed component of equation 3 is the apparent temperature before adjustment.

The reference frequency  $f_R$  is incorporated in the equation to eliminate any effects of variation in recorder speed and of ambient temperature conditions in the monitor container on the solution of equation 3.

For this study, a temperature range of 0° to 25°C corresponded to a frequency range of 0 to 1,000 Hz (Hertz).  $T_R$  is 30°C.  $T_R$  is chosen outside the temperature range to insure positive identification of the reference signal.

The system was housed in a styrofoam chest whose dimensions were approximately 14 by 10 by 11 in (355 by 254 by 279 mm). The chest was painted brown so that it would blend in well with the surroundings and be less noticeable, reducing the possibility of vandalism. The cover was fitted with 3/8-in (0.95-cm) diameter O-ring material to produce a tight seal.

The interior of the chest contained an aluminum bracket which secured a 22-pin edge connector. The temperature circuit was installed in this edge connector. Color-coded wires from the edge connectors went to a General Electric model M8433A cassette tape recorder and two 6-volt Yuasa 6N6-1B batteries which served as power supply for the system. This apparatus is illustrated in figure 5. A zip cord of double 18-gauge wire was connected to the edge connector and run through the side of the box, where it was spliced to a similar 18-gauge double-wire zip cord. A Yellow Springs Instrument 44004 precision thermistor was soldered to the opposite end of the internal zip cord and sealed in vinyl cement to prevent short circuiting of the thermistor leads by water. The end with the thermistor was fastened to a rock and placed in a moving section of the stream. No effort was made to place the thermistor at a given depth because spot observations had failed to reveal any temperature stratification in the flowing water.

TABLE 4.--Values for temperature-addition adjustment<sup>1</sup> for representative values of apparent temperature

Apparent temperature (°C)	Temperature addition (°C) .
0	--
1	0.15
2	.20
3	.28
4	.33
5	.35
6	.38
7	.40
8	.40
9	.40
10	.38
11	.35
12	.33
13	.30
14	.28
15	.23
16	.20
17	.18
18	.15
19	.13
20	.10
21	.05
22	.05
23	.03
24	.03
25	0
26	-.05
27	-.08
28	-.18
29	-.25
30	-.35

<sup>1</sup>C<sub>L</sub> in equation 3.



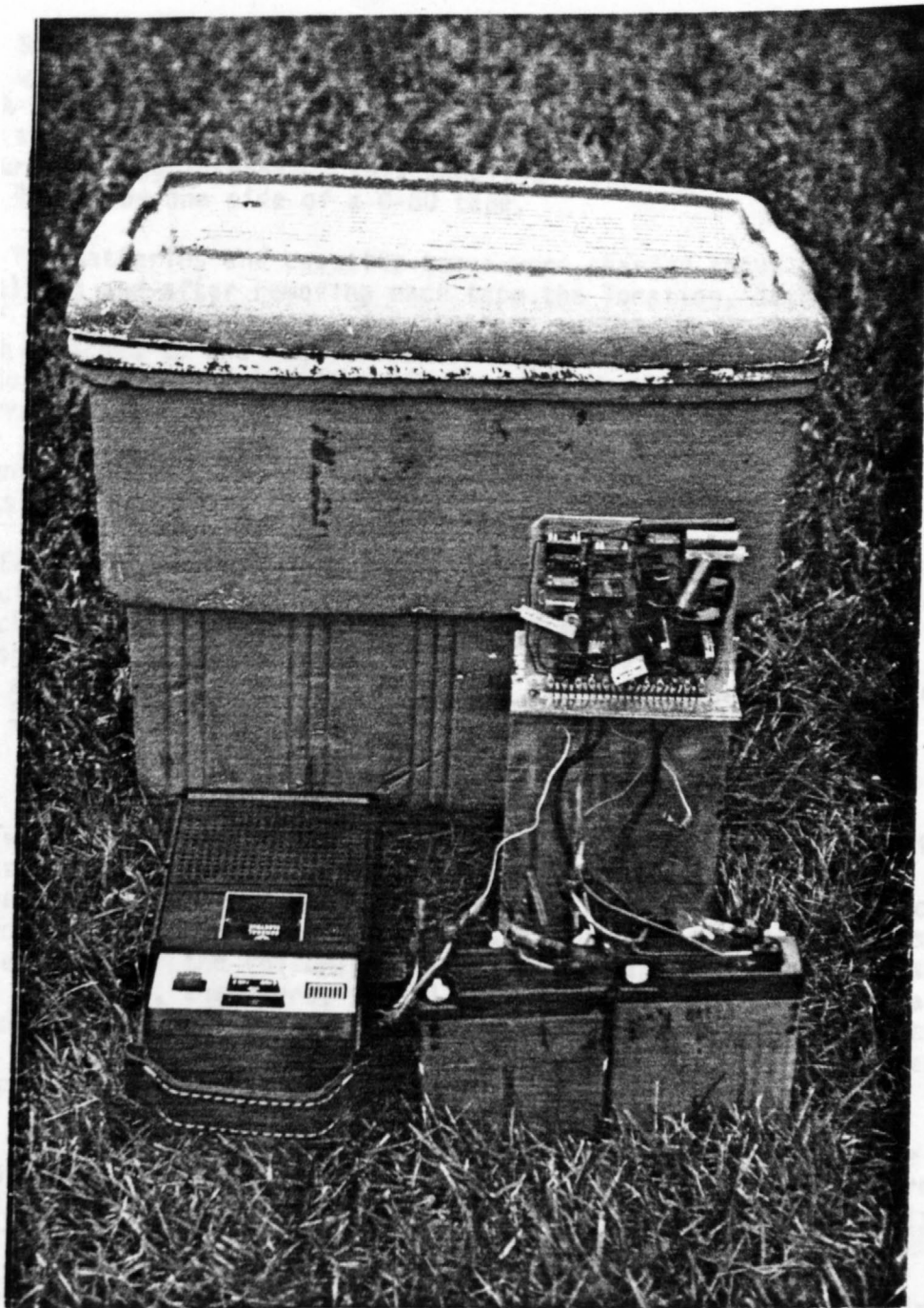


Figure 4. Photograph of Temperature-Monitoring System

Scotch brand C-60 cassette tapes with 30 min of playing time on each side were used. Longer tapes (120-min duration) were tried, but they had insufficient mechanical strength and became fouled in the recorder frequently. With each timer set for 4 seconds, 8 seconds of tape was consumed each hour for a 1-hour sampling interval. This sampling frequency permits operation for just over 9 days on one side of a C-60 tape.

The batteries and cassette tapes were changed about every 6 days. Before installing and after removing each tape the location, date, time, and measured water temperature were recorded by voice on the tape. A normally closed switch attached to the edge connector allowed the observer to reset the temperature circuit and immediately to record the first data point. This allowed observation of the operation of the system and assured proper operation of the power system. However, proper operation of the recording device and timing elements could only be ascertained after the raw data had been placed on data sheets.

Each completed tape was played on a cassette recorder whose output was connected to a Hewlett-Packard 5223L frequency counter. The numerical value of each frequency signal was written on a specially designed data sheet. Each data sheet also contained the location, the day and time of starting and stopping, and measured water temperatures. All temperature data are included in table 5 (presented following text).

#### WEATHER-MONITORING STATION

Two meteorological stations were set up at the California Division of Forestry Forest Fire Stations in the Mattole River basin, one near Whitethorn and one at Honeydew. (Two stations were utilized so that spatial changes in meteorological variables through the basin could be detected.) These two sites were selected for the following reasons. They are located at opposite ends of the basin and, therefore, should give good representation of changes in meteorology through the basin. They both have easy access and electrical power. And at each site an enclosure for storing recording equipment minimized possibility of vandalism.

A meteorological station was originally installed at the grade school in Petrolia but this was moved to Honeydew because the climate at Petrolia reflects conditions along the coast and usually does not accurately reflect weather conditions more typical of the basin.

Observations at each station included wet-bulb and dry-bulb air temperature, total hemispherical incoming radiation, and wind velocity. Total incoming hemispherical shortwave radiation was also monitored at the Honeydew station.

Each station had a Honeywell Elektronik 15, 8-channel strip-chart recorder with an Omega CJ thermocouple cold-junction compensation unit. This recorder was used to measure wet-bulb and dry-bulb air temperature and total hemispherical incoming radiation.

A Hewlett-Packard model 7100B potentiometer was used at the Honeydew station to record total hemispherical short-wave radiation and wind velocity. Originally, total hemispherical short-wave radiation was recorded on the Honeywell unit, but this proved unsatisfactory because at night that instrument recorded negative readings due to the low impedance of the pyranometer. A Hewlett-Packard 680 strip chart recorder was used to measure wind velocity. A wind-intensity transmitter (U.S. Navy Bureau of Ships S18-T-3314-215) was used at each station to measure wind velocity. Each instrument was placed approximately 6.6 ft (2 m) above ground level. This device works by closing a switch for each knot of wind movement. The output of this device at each station was connected in series to a Yuasa 12N5.5-4B 12-volt battery and an even marker on a strip-chart recorder. The average wind velocity was determined by multiplying the number of switch closures per inch and by the chart speed of the recorder.

During the month of June the output of the transmitter was connected to a circuit which counted the number of switch closures and converted it to an analog signal to be placed on the strip chart. This did not work well because the counting circuit tends to overcount the switch closures (as a result of bouncing of the contact points at each closure). This bouncing thus caused considerable overestimation of the wind velocity. The June wind data must therefore be regarded as questionable.

Wet-bulb and dry-bulb air temperatures were measured with copper-constantan thermocouple wire housed in the apparatus shown in figure 6. The apparatus functioned in the following manner. A reservoir (1) was filled with distilled water through the top and a rubber stopper was placed in the opening. A small opening in the bottom of the reservoir allows water to flow into a basin (2) until it covers the opening. This basin provides a constant head for water that passes through tygon tubing to the wet-bulb thermocouple. The end of the tygon tubing is packed with cotton. The cotton extends out of the tubing and the wet-bulb wick is partly over the extended cotton and partly over the tubing. This is shown in cutaway view "A" with the cotton shown in black and the wick as dotted lines. The damp cotton keeps the wick moist. The thermocouple for the wet-bulb temperature is secured between the wick and the tubing. To the right of the wet-bulb wick in "A" is a copper tube through which the leads for the dry-bulb thermocouple pass. The dry-bulb thermocouple is placed below the wet-bulb thermocouple because the air flow is upward. The air flow is provided by a small fan (3) which draws air up past the thermocouples, through a plastic pipe perpendicular to the ground, and exhausts it below the fan.

The entire apparatus is secured to a 1-in (25.4-mm) steel pipe at a level approximately 66 ft (2 m) above ground level.

The wet-bulb and dry-bulb air temperatures obtained from this apparatus agree well with check values determined with a Bendix Model 566 psychrometer.

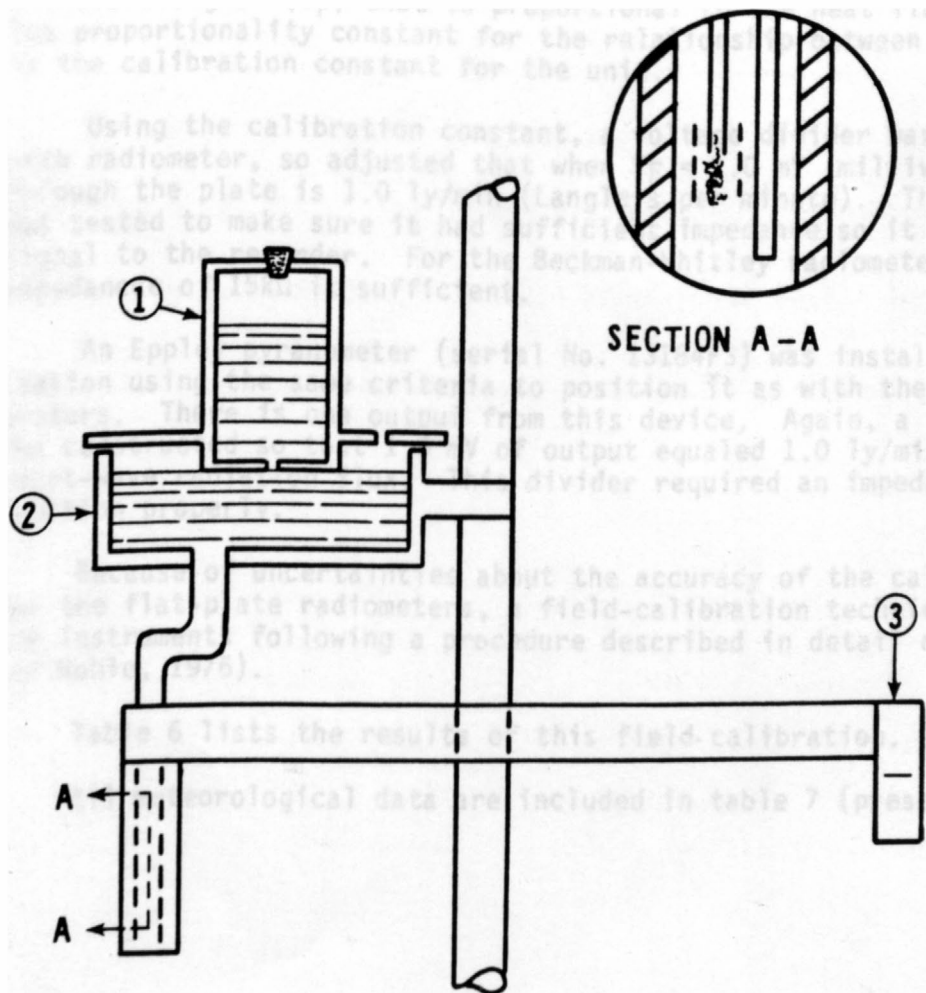


Figure 6. Wet And Dry-Bulb Temperature Measuring Apparatus



A Beckman-Whitley total hemispherical radiometer was installed at each station (serial No. 240 at Whitethorn, serial No. 321 at Honeydew). In positioning each radiometer, care was taken to insure that the instrument was not shaded by trees or buildings, and that it was precisely levelled.

There are two outputs from each radiometer. One is a millivolt signal ( $V_p$ ) corresponding to the flat-plate temperature  $T_p$ , and the second is a millivolt signal ( $V_F$ ) that is proportional to the heat flux through the plate. The proportionality constant for the relationship between  $V_F$  and the heat flux is the calibration constant for the unit.

Using the calibration constant, a voltage divider was constructed for each radiometer, so adjusted that when  $V_F = 1.0$  mV (millivolts) the flux through the plate is  $1.0$  ly/min (Langley's per minute). The voltage divider was tested to make sure it had sufficient impedance so it would not reduce the signal to the recorder. For the Beckman-Whitley radiometers, a total impedance of  $15k\Omega$  is sufficient.

An Eppley pyranometer (serial No. 13184F3) was installed at the Honeydew station using the same criteria to position it as with the flat-plate radiometers. There is one output from this device. Again, a voltage divider was constructed so that  $1.0$  mV of output equaled  $1.0$  ly/min of total incoming short-wave radiation flux. This divider required an impedance of  $80k\Omega$  to function properly.

Because of uncertainties about the accuracy of the calibration constants for the flat-plate radiometers, a field-calibration technique was used for the instruments following a procedure described in detail elsewhere (Jackman and Noble, 1976).

Table 6 lists the results of this field calibration.

All meteorological data are included in table 7 (presented following text).

TABLE 6.--Field calibrations of radiometers

Instrument	ERROR AND New calibration constant
B-W 240	258.2 W/(m <sup>2</sup> - mV) [0.370 ly/(min - mV)]
B-W 321	473.8 W/(m <sup>2</sup> - mV) [0.679 ly/(min - mV)]
Eppley 13184F3	130.5 W/(m <sup>2</sup> - mV) [0.187 ly/(min - mV)]

The effect on the circuit output of large swings in ambient temperature was also investigated. A circuit was placed in a closed container of ice for 2 hours and the full-scale response was recorded. Then the circuit was placed in a furnace at 60°C for 2 hours and the full-scale response was recorded. The full-scale response decreased 0.2°C from the first experiment to the second. Ambient conditions are therefore considered to have an insignificant effect on the circuit.

Thermistor drift and water penetration into the vinyl coating surrounding the thermistor could cause problems. Therefore, the resistance of each thermistor at 0°C was measured on May 14, 1975, and again on September 1, 1975. In most cases, the effect of the change in resistance corresponded to a temperature change of 0.1°C or less. An exception was the thermistor at temperature-monitoring station 14, which showed an increase in resistance that resulted in an underestimation of water temperature by 0.4°C.

The overall accuracy of the temperature monitors is estimated at ±0.2°C. However, the sensitivity is better than 0.05°C and the accuracy of temperature differences (that is, daily maximum minus daily minimum) is ±0.2°C.

The next quantity to consider is the water discharge. The methods outlined previously give results which are accurate only to ±15 percent because of the relatively poor stream-gaging conditions that prevailed throughout the basin during the period of this study.

The surface area or the average width of each reach cannot be described accurately because of the lack of data and the large variability of the channel along the channel. Errors in surface area as high as 20 percent are expected.

The time of travel can be in error as much as ±10 percent because of the fact that there is some dye loss due to absorption and sunlight exposure that could alter the resulting curve relating dye concentration to time.

## DATA REDUCTION

A Cogitronics D-112 H/SC optical character reader was used to aid in reducing data. This device will read written numerals, plus and minus signs, and some letters, and will place them on magnetic tape for immediate use by computer. All meteorological and water-temperature data were placed on magnetic tape in this manner to save the lengthy process of converting all the written data to cards manually.

## ERROR ANALYSIS

The data contain a number of observational errors. The first variable to consider is the water temperature. The theoretical assumption which underlies the temperature-monitoring system is a linear relation between the frequency output of the system and the actual water temperature. In fact, there is some nonlinearity in the system. Table 4 displays a correction factor which is added to the calculated water temperature to account for this nonlinearity. There is some difference in the correction factor for each circuit but this difference was checked and found to be less than  $0.2^{\circ}\text{C}$ .

The effect on the circuit output of large swings in ambient temperature was also investigated. A circuit was placed in a closed container of ice for 2 hours and the full-scale response was recorded. Then the circuit was placed in a furnace at  $60^{\circ}\text{C}$  for 2 hours and the full-scale response was recorded. The full-scale response decreased  $0.2^{\circ}\text{C}$  from the first experiment to the second. Ambient conditions are therefore considered to have an insignificant effect on the circuit.

Thermistor drift and water penetration into the vinyl coating surrounding the thermistor could cause problems. Therefore, the resistance of each thermistor at  $0^{\circ}\text{C}$  was measured on May 14, 1975, and again on September 17, 1975. In most cases, the effect of the change in resistance corresponded to a temperature change of  $0.1^{\circ}\text{C}$  or less. An exception was the thermistor for temperature-monitoring station 14, which showed an increase in resistance equivalent to an underestimation of water temperature by  $0.4^{\circ}\text{C}$ .

The overall accuracy of the temperature monitors is estimated at  $\pm 0.5^{\circ}\text{C}$ . However, the sensitivity is better than  $0.05^{\circ}\text{C}$  and the accuracy of temperature differences (that is, daily maximum minus daily minimum) is  $\pm 0.2^{\circ}\text{C}$ .

The next quantity to consider is the water discharge. The methods outlined previously give results which are accurate only to  $\pm 15$  percent because of the relatively poor stream-gaging conditions that prevailed throughout the basin during the period of this study.

The surface area or the average width of each reach cannot be described accurately because of the lack of data and the large variability of the width along the channel. Errors in surface area as high as 20 percent can be expected.

The time of travel can be in error as much as  $\pm 10$  percent because of the fact that there is some dye loss due to absorption and sunlight exposure which could alter the resulting curve relating dye concentration to time.

The calculated dispersion coefficients are also subject to the errors mentioned above for time of travel. Because the calculation of the dispersion coefficient is more sensitive to the shape of the dye concentration curve, the error may be as great as  $\pm 20$  percent. The Peclet number  $N_{PE}$ , defined as

$$N_{PE} = \frac{L_R V}{D} \quad (4)$$

where  $L_R$  = reach length, and  $D$  = dispersion coefficient, gives a ratio of convective to dispersive effects.  $N_{PE}$  varied from 100 to 400 for each reach below Noonung Creek, indicating that dispersive effects are negligible for this study.

As mentioned previously, two weather stations were located in the basin. Assumption of relatively constant meteorological conditions throughout several reaches is believed valid for the portion of the basin from the source to Honeydew. This is because the river runs generally north throughout this section and is shielded from the ocean climate by the range in which King's Peak is situated. At Honeydew the river turns west and heads toward the ocean, and below Honeydew the air temperature is generally lower and coastal fog sometimes moves up the river channel as far as Honeydew. Thus the meteorological data at Honeydew may not accurately reflect local conditions between Honeydew and Petrolia, and the error between actual meteorological conditions and the Honeydew station data increases as one moves toward Petrolia. The most abrupt change occurs at Shinanigan Ridge, approximately 2 mi (3.22 km) upstream of Petrolia because this ridge tends to block the flow of marine air up into the Mattole River valley.

All meteorologic data were measured approximately 0.25 mi (0.4 km) from the river, and there may be a small difference between the observed values and the values that would have been observed directly above the water surface.

As for the individual meteorological variables monitored, the total incoming radiation,  $Q_T$ , is the largest contributor to the total heat-exchange term. Accurate evaluation is therefore necessary for a good correlation between calculated and observed water temperature. It is recommended that the data collected at the Whitethorn station be used for the entire basin because there are apparent discrepancies between the day and night values of the atmospheric longwave radiation at the Honeydew station. The atmospheric longwave radiation is calculated as the difference between the total incoming radiation and the incoming shortwave radiation; as a result, a 0.1-ly/min overestimation of total incoming radiation would result in an apparent 0.1-ly/min overestimation of the atmospheric longwave radiation. Atmospheric longwave radiation should be fairly constant from day to night. Typical day and night atmospheric longwave radiation values were 0.55 ly/min and 0.35 ly/min at Honeydew and 0.50 ly/min and 0.45 ly/min at Whitethorn. Spot checks of night atmospheric longwave radiation have been made using the following equation (Idso and Jackson, 1969):

$$Q_{LW} = \sigma(T_k)^4 \{1 - 0.261 \exp [-7.77 \times 10^{-4} (273 - T_k)^2]\} \quad (5)$$

where  $T_k$  is the air temperature in degrees Kelvin. These checks more closely correlate with the Whitethorn readings than the Honeydew readings.



The absolute accuracy of Beckman-Whitley flat-plate radiometers has never been established. The shading technique mentioned previously provides a means for improving the accuracy of the calibration constant for the radiometer because the calibration constant is checked over a range of fluxes as opposed to the single calibration point which the manufacturers use. A question arises as to whether the flat plate responds differently to shortwave and longwave radiation. If it does, as some workers believe, then one calibration constant cannot accurately calculate the total incoming radiation. This problem has yet to be resolved and, therefore, the absolute accuracy of the data collected with these instruments remains in doubt. A 10-percent error in the estimation of the total incoming radiation, a probable upper limit for the calibrated radiometers used here, can result in errors as high as 15 percent in the estimation of the total net heat-exchange term during the peak solar intensity.

The wind patterns were different at each station. At Whitethorn the wind would typically pick up towards noon, continue as a slight breeze through the afternoon, and subside at sunset. The evening and morning hours were usually quite calm. At Honeydew, the wind would start in the morning hours, increase toward early afternoon, and then subside in late evening. For the months of July and August wind velocities would reach 1 to 3 mi/h (0.4 to 1.2 m/s) at Whitethorn while at Honeydew they would reach 6 to 7 mi/h (2.7 to 3.1 m/s). As mentioned previously, the wind velocity data for June are severely over-estimated due to the use of a faulty counting scheme.

The humidity was typically slightly higher at Honeydew as compared to Whitethorn due to the influence of air coming in from the coast. This was especially true during the evening hours. During daylight hours, the air temperatures were very similar at both stations.

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The dominance of accumulation over convection reduces the importance of errors in travel time or in average velocity, which are among the less accurate determinations. This consideration emphasizes the need for accurate observation of temperature and time; these are the most precise of the data summarized here.

The right-hand side of equation 5 consists of the dispersion term and the surface heat-flux term. Dispersion can generally be ignored as small with respect to convection. As noted above, Peclet numbers were typically over 100, indicating that errors due to neglecting dispersion will be negligibly small.

## DISCUSSION

The simultaneous water-temperature, hydrologic, and meteorological data presented here can serve as a basis for studying water-temperature models for an entire river basin or for simple stream reaches within a basin. One such study based on these data has been presented elsewhere (Noble, 1976). In using the data for such purposes, it is important to consider the implications which an error in a particular observation will have on the model results.

The starting point for many water-temperature modeling studies will be the differential equation for the transport of thermal energy. Assuming that there exist no vertical temperature gradients, a very good assumption for the Mattole River, the equation may be written as (Chen, 1971; and Jobson and Yotsukura, 1972)

$$\frac{\partial T}{\partial t} + v_x \frac{\partial T}{\partial x} + v_y \frac{\partial T}{\partial y} = \frac{H}{\rho C_p d} + \text{dispersion} \quad (6)$$

where  $T$  is water temperature,  $x$  the downstream spatial coordinate,  $y$  the lateral spatial coordinate,  $v_x$  the downstream (axial) velocity,  $v_y$  the lateral velocity,  $H$  the net heat flux<sup>x</sup> entering the system at the air-water<sup>y</sup> interface,  $\rho$  the water density,  $C_p$  the specific heat of water, and  $d$  the local depth of water.

The left-hand side of equation 6 consists of an accumulation term and two convection terms. In the case of these data the accumulation term is dominant. Diurnal temperature cycles are relatively large due to the shallow nature of the river. At the same time, both axial velocity and axial temperature gradient are very small. The time-of-travel studies showed that velocities of 0.5 mi/h (0.80 km/h) or less prevailed except during the part of the study period before July. Similarly, average axial temperature gradients are no more than a few tenths of a degree Celsius per mile from Nooning Creek downstream. Thus, contributions from the convective term,  $v_x \frac{\partial T}{\partial x}$ , are typically 0.1°C/h or less. The absolute value of the accumulation term,  $\frac{\partial T}{\partial t}$ , ranges from 0° to more than 1°C/h.

The dominance of accumulation over convection reduces the importance of errors in travel time or in average velocity, which are among the less accurate determinations. This consideration emphasizes the need for accurate observation of temperature and time; these are the most precise of the data summarized here.

The right-hand side of equation 6 consists of the dispersion term and the surface heat-flux term. Dispersion can generally be ignored as small with respect to convection. As noted above, Peclet numbers were typically over 100, indicating that errors due to neglecting dispersion will be negligibly small.

The surface heat-flux term is of considerable importance. It must be remembered that most model calculations will require solution for the

temperature as a function of position and time, with surface heat flux as the driving force. Thus, errors here will propagate in the solution. During daylight hours the dominant contribution to the net heat flux is the incoming radiation. As discussed above, considerable effort was made to avoid errors in this measurement, and the resulting data may be considered to be unusually accurate field radiation data. Nevertheless, the values for incoming radiation may be in error by as much as 10 percent, which can introduce very significant errors in the model temperatures. Further, this error can be increased if one attempts to determine daytime incoming longwave radiation as the difference between the total hemispherical radiation and the shortwave hemispherical radiation. While at first glance there is very little difference between the total hemispherical radiation measured at Whitethorn and that measured at Honeydew, there are large differences in the longwave radiation variations, night-to-day, indicating that the Whitethorn total hemispherical radiation data are probably more accurate.

Several other details concerning radiation calculations are worth noting. An important consideration is the shading of the stream channel by physiographic features and riparian vegetation. In spite of the rugged terrain, there is probably little shading downstream from Bear Creek due to the wide stream channel and previous heavy logging activity. Between Bear Creek and Nooning Creek the shading may be very substantial. Computational methods for dealing with shading appear to be poorly developed. One method has been discussed by Noble (1976). The second consideration arises from the very shallow nature of the stream channel. Within very clear water such as characterized the Mattole during the period of data collection, it is possible that a significant amount of radiation can penetrate to the sand or gravel streambed, be reflected, and emerge without absorption. Noble (1976) found no evidence that this introduces significant errors, but data users should be aware of this possibility.

A third consideration, which is minor, is reflection of shortwave radiation from the water surface. The heat-flux term which appears on the right-hand side of equation 6 contains three additional terms. The outgoing long-wave radiation is well described by the Stefan-Boltzmann Law and there are no problems particular to the Mattole here. The heat fluxes due to evaporation and convection are much more difficult to describe. Because the only data provided are wind velocity and wet-bulb and dry-bulb temperatures, the user is constrained to employ a mass-transfer approach to the evaporation estimate and a Bowen-ratio approach to the convection estimate (see Jobson and Yotsukura, 1972). Little is known about the accuracy of the mass-transfer approach to evaporation over streams. Further, the wind and temperature data, rather than being collected at 6.6 ft (2 m) over the water surface, were collected some distance away from the stream channel. Fortunately, with the exception of the area near the mouth of the Mattole River, the characteristic summer winds within the basin are quite light. It is reasonable to expect that errors in mass-transfer evaporation and convection estimates will have relatively minor impact on calculations made using this data.

Another possible contribution to the right-hand side of equation 6 would be rainfall advection. During the period of this study, only four light rain showers occurred. These occurred on June 23, 0.24 in (6.10 mm); July 15, 0.04 in (1.01 mm); August 18, 0.11 in (2.79 mm); and August 27, 0.29 in (5.08 mm). None of these storms produced a significant increase in river stage or discharge.

make the data collected in this basin unusually suitable for use in calibrating stream-temperature models. The data reported here are of high accuracy and span a sufficient period of time to permit modeling of not only individual reaches, but also of the basin as a whole. The temperature of ground water, believed to be representative of the river sources, is also presented.



The Mattole River basin, with a reasonably short main river stem and a number of large tributaries distributed along it, serves as a compact model for river-basin temperature studies. A generally well-exposed stream channel, light winds, and absence of significant rainfall make the data collected in this basin unusually suitable for use in calibrating stream-temperature models. The data reported here are of high accuracy and span a sufficient period of time to permit modeling of not only individual reaches, but also of the basin as a whole. The temperature of ground water, believed to be representative of the river sources, is also presented.

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TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975

[Temperature in degrees Celsius. Stars denote missing data]

STATION 1--8.67 MILES DOWNSTREAM FROM HEADWATERS													
DATE	HOURLY DATA BEGINNING AT 1:00 A.M.												
6/12	****	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	19.5	20.3	20.1	20.0	19.9	19.7	19.8	19.1	19.6	
6/13	18.4	18.0	18.1	17.4	17.1	16.9	16.5	16.4	16.2	16.5	16.7	17.3	
	17.8	18.6	19.4	20.0	20.4	20.8	20.9	20.9	20.8	20.3	20.1	19.7	
6/14	19.4	19.0	18.8	18.4	17.8	17.5	17.2	17.2	16.8	16.8	17.7	18.2	
	19.0	19.7	20.3	20.6	21.0	20.8	20.9	20.1	19.7	19.4	19.0	18.7	
6/15	18.3	18.4	17.6	17.7	17.0	16.7	16.3	16.1	16.1	16.3	16.7	17.4	
	18.2	19.0	19.7	20.3	21.3	21.3	20.9	20.5	20.6	19.8	19.4	18.9	
6/16	18.5	18.1	17.7	17.3	16.9	16.6	16.3	16.6	16.2	16.7	16.6	17.5	
	17.9	18.5	19.1	19.8	20.3	20.2	19.7	19.3	19.4	18.5	18.2	17.7	
6/17	17.4	17.0	16.6	16.3	16.0	16.1	15.6	15.5	15.3	15.2	15.5	16.2	
	16.6	17.2	18.0	18.4	18.9	18.6	18.1	17.6	17.3	16.9	16.6	16.3	
6/18	16.0	16.2	15.5	15.2	14.7	14.4	14.1	13.9	13.9	14.2	14.9	15.4	
	15.8	16.6	17.4	18.0	18.4	18.3	17.9	17.5	17.2	16.9	16.6	16.7	
6/19	16.1	16.3	15.5	15.2	14.9	14.7	14.5	14.4	14.5	14.8	15.1	16.0	
	16.4	17.1	18.0	18.5	19.2	19.2	18.9	18.6	18.3	17.9	17.6	17.3	
6/20	17.0	16.7	16.4	16.6	16.1	16.4	15.9	16.1	15.8	16.1	16.3	17.2	
	17.6	18.8	19.6	20.1	20.7	20.6	20.3	19.5	19.1	19.1	18.9	18.3	
6/21	18.0	17.4	17.1	16.7	16.3	15.8	15.4	15.2	15.3	15.5	16.3	17.3	
	17.5	18.2	18.9	19.7	20.1	20.0	19.5	19.1	18.6	18.2	17.9	17.5	
6/22	17.2	17.0	16.7	16.5	16.3	15.6	15.4	15.2	15.3	15.6	16.2	17.0	
	17.8	18.5	18.7	19.1	19.0	19.0	18.7	18.3	17.8	17.4	17.1	16.9	
6/23	16.6	16.3	16.0	15.6	15.3	15.3	15.1	14.8	14.9	14.8	15.0	15.0	
	15.1	15.4	15.8	16.2	16.3	16.2	16.2	16.0	15.8	****	****	****	
6/24	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
6/25	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	17.0	17.5	17.6	17.5	17.3	16.9	16.8	16.6	16.1	
6/26	15.8	15.7	15.6	14.7	14.1	13.7	13.3	****	****	13.7	14.7	15.4	
	15.7	16.5	17.1	17.8	18.3	17.7	17.4	16.9	16.7	16.3	16.3	15.6	
6/27	15.4	15.0	14.7	14.4	14.1	14.4	13.5	13.3	13.8	14.0	14.3	15.3	
	15.8	16.6	17.2	17.8	18.3	18.0	17.6	17.3	16.9	16.7	16.2	16.2	
6/28	15.7	15.9	15.2	14.8	14.4	14.1	14.5	14.1	13.8	14.5	15.3	15.7	
	16.1	16.8	17.6	18.2	18.6	18.7	18.2	17.9	17.4	17.0	16.6	16.3	
6/29	16.0	15.8	16.2	15.0	14.7	14.3	14.1	14.6	13.8	14.2	14.9	15.6	
	15.8	16.7	17.5	18.2	18.7	18.9	18.5	18.3	17.9	17.9	17.1	16.7	
6/30	16.3	16.0	15.8	15.5	15.6	15.3	14.9	15.3	15.0	14.9	15.6	15.9	
	15.7	16.2	16.9	17.5	18.0	18.2	18.0	17.8	17.4	17.1	16.7	16.3	
7/ 1	15.9	15.5	15.4	15.5	14.6	14.4	14.1	13.7	13.9	13.6	13.9	14.3	
	14.9	15.5	16.2	16.8	17.3	17.7	17.6	17.3	17.2	16.7	17.0	16.0	
7/ 2	15.5	15.3	15.0	15.1	14.6	14.2	13.9	13.6	13.7	13.7	13.9	15.5	
	16.0	16.7	17.8	18.9	18.5	18.7	18.0	17.7	17.2	17.3	17.6	16.6	
7/ 3	17.2	16.1	16.7	15.7	16.2	15.6	16.7	15.2	15.7	15.3	15.8	16.7	
	17.1	17.8	18.5	19.2	20.2	19.8	20.5	18.7	18.3	17.9	18.6	17.2	
7/ 4	18.4	16.5	17.2	16.3	16.1	16.9	15.8	16.0	15.6	15.6	16.4	16.8	
	17.2	17.9	18.2	18.1	18.5	18.0	18.7	17.5	18.4	17.1	17.7	16.5	
7/ 5	16.4	15.9	15.5	15.2	15.0	15.6	14.9	15.0	14.6	14.7	15.4	16.2	
	16.6	17.2	17.0	18.4	18.9	19.0	18.8	18.6	18.2	18.2	17.7	17.6	
7/ 6	17.2	16.7	16.4	15.8	15.5	15.3	13.2	12.8	15.7	16.1	15.7	16.6	
	17.5	18.1	19.2	20.0	20.1	20.2	19.9	19.6	19.2	19.1	19.3	18.2	
7/ 7	18.1	17.4	17.5	17.0	17.5	16.3	16.5	15.8	16.6	15.9	17.0	17.7	
	18.3	18.5	20.0	20.0	20.7	20.7	20.3	19.9	19.4	19.0	18.6	18.1	
7/ 8	17.7	17.3	17.0	16.6	16.4	16.1	16.1	15.6	15.9	15.9	17.3	17.9	
	18.4	18.8	19.8	20.5	21.1	21.3	21.1	20.8	20.4	20.0	19.4	19.1	

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1100 A.M.												
7/ 9	18.7	18.3	18.1	17.8	17.4	17.1	16.9	16.7	16.7	17.1	17.6	18.3	
	19.1	19.9	21.4	22.2	22.2	22.3	22.0	21.7	21.2	20.6	20.1	19.7	
7/10	19.3	18.9	18.6	18.3	18.1	17.8	17.7	17.6	17.6	17.8	18.4	19.3	
	19.8	20.4	21.3	21.9	22.6	22.8	22.3	21.8	21.5	21.0	20.6	20.0	
7/11	19.6	19.2	18.9	18.6	18.4	18.2	18.1	18.1	18.0	18.2	18.7	19.8	
	19.9	20.6	21.6	22.4	22.9	23.1	22.6	22.2	21.8	21.2	20.8	20.1	
7/12	19.6	19.1	18.7	18.3	18.0	17.6	17.3	17.2	17.1	17.6	18.0	19.3	
	19.5	20.3	21.1	21.7	22.1	22.1	21.9	21.5	21.0	20.4	19.9	19.9	
7/13	19.2	18.8	18.3	17.8	17.4	17.1	16.9	16.7	16.8	17.2	17.6	18.4	
	19.1	19.9	20.9	21.5	21.9	22.2	22.0	21.4	21.0	20.6	20.1	19.7	
7/14	19.2	18.8	18.3	17.8	17.4	17.2	16.9	16.7	16.6	17.3	17.8	18.9	
	18.8	19.6	20.2	20.3	20.9	20.6	20.6	20.3	20.1	19.8	19.6	19.3	
7/15	19.0	18.8	18.6	18.4	18.2	17.9	17.8	17.7	17.8	18.0	18.1	18.3	
	18.5	18.7	18.8	18.8	18.9	18.9	18.8	18.6	18.5	18.3	18.1	18.0	
7/16	17.8	17.6	17.3	17.1	16.9	16.6	16.4	16.4	16.5	16.8	17.4	18.3	
	19.0	19.6	20.5	21.1	21.5	21.6	21.4	21.0	20.6	20.3	19.8	19.4	
7/17	19.0	18.6	18.2	17.9	17.5	17.2	17.0	16.8	16.8	17.1	17.8	18.8	
	19.1	19.8	20.8	21.5	22.0	22.4	22.1	21.8	21.4	21.0	20.6	20.2	
7/18	20.0	19.5	19.0	18.6	18.2	17.9	17.6	17.5	17.5	17.9	18.5	19.7	
	19.9	20.7	21.7	22.2	23.0	22.6	22.3	21.8	21.3	20.8	20.4	19.9	
7/19	19.5	19.2	18.7	18.4	18.1	17.7	17.4	17.1	17.1	17.4	18.1	19.4	
	20.0	20.5	21.3	22.0	22.3	22.3	22.2	21.8	21.3	20.8	20.3	20.0	
7/20	19.7	19.3	19.0	18.7	18.4	18.1	18.0	17.9	18.0	18.2	18.8	19.5	
	20.3	21.0	21.8	22.5	23.0	23.3	23.1	22.8	22.4	22.0	21.4	21.2	
7/21	20.8	20.4	20.1	19.7	19.3	18.9	18.6	18.4	18.3	18.6	19.4	20.3	
	20.6	21.4	22.4	22.9	23.4	23.3	23.0	22.6	22.3	21.8	21.4	21.0	
7/22	20.5	20.2	19.8	19.4	19.0	18.6	18.1	17.9	17.8	18.2	18.9	20.1	
	20.4	21.3	22.6	23.2	23.8	23.7	23.4	23.3	23.0	22.6	22.2	21.7	
7/23	21.2	20.8	20.4	20.0	19.5	19.0	18.5	18.2	18.1	18.3	19.0	19.9	
	20.6	21.6	22.6	23.4	24.0	24.1	24.0	23.8	23.4	23.0	22.5	22.0	
7/24	21.7	21.1	20.6	20.1	19.7	19.3	18.8	18.4	18.3	18.5	19.1	19.8	
	20.9	21.8	22.7	23.5	24.4	24.4	23.7	23.4	23.1	22.6	22.1	21.6	
7/25	21.2	20.8	20.3	19.8	19.4	18.9	18.6	18.3	18.2	18.7	19.5	19.5	
	20.4	21.5	22.9	23.1	23.9	24.2	24.1	24.0	23.3	23.0	22.5	22.1	
7/26	21.6	21.2	20.7	20.4	19.9	19.5	19.2	19.0	18.6	18.7	17.3	19.9	
	20.9	21.6	22.4	23.3	23.9	24.2	23.9	24.0	23.7	23.1	22.9	22.5	
7/27	22.1	21.6	21.4	20.8	20.4	20.1	19.7	19.5	19.3	19.5	20.0	20.7	
	21.5	22.3	23.1	23.7	24.2	24.3	24.2	24.0	23.5	22.9	22.4	21.9	
7/28	21.4	21.0	20.6	20.1	19.8	19.5	19.2	18.9	18.9	19.2	19.7	20.4	
	21.1	21.7	22.7	23.5	24.2	24.3	23.9	23.5	23.2	22.7	22.3	22.0	
7/29	22.0	21.6	21.0	20.7	20.4	20.0	19.6	19.4	19.3	19.3	19.5	20.0	
	20.5	21.1	21.6	22.0	22.3	22.4	21.9	21.3	20.7	20.1	19.3	19.3	
7/30	19.0	18.5	18.3	17.9	17.6	17.2	16.9	17.9	16.8	17.1	17.5	18.3	
	19.1	19.9	20.5	21.2	21.7	21.6	21.2	20.7	20.3	19.8	19.4	18.9	
7/31	18.6	18.2	17.8	17.5	17.1	16.8	16.5	16.1	16.1	16.4	16.9	17.4	
	18.4	19.0	19.7	20.6	21.4	21.9	21.7	21.5	21.0	20.7	20.1	19.6	
8/ 1	19.3	19.0	18.6	18.2	17.9	17.5	17.0	16.7	16.7	16.9	17.3	18.0	
	18.9	19.7	20.2	21.3	22.1	22.3	22.3	22.1	21.9	21.6	21.1	20.8	
8/ 2	20.4	20.0	19.9	19.1	18.9	18.5	18.2	17.9	17.9	17.9	18.2	18.7	
	19.7	20.6	20.9	21.9	22.8	23.3	23.4	23.2	22.7	22.1	21.6	21.1	
8/ 3	20.6	20.3	19.8	19.4	19.0	18.7	18.3	18.1	18.0	17.9	18.3	19.0	
	20.0	20.6	21.3	22.1	22.9	23.3	23.4	23.2	23.0	22.5	22.3	21.7	
8/ 4	21.2	20.8	20.4	19.9	19.6	19.2	18.7	18.3	18.2	18.3	18.7	18.9	
	19.7	20.6	20.9	21.6	22.5	23.3	23.3	23.3	22.8	22.4	21.9	21.3	



County, California, 1970-Continued

DATE      HOURLY DATA BEGINNING AT 1:00 A.M.

DATE	HOURLY DATA BEGINNING AT 1800 A.M.											
8/ 5	20.8	20.4	19.9	19.5	19.1	18.8	18.3	18.0	17.7	17.7	17.9	18.4
	19.3	20.2	21.1	21.5	22.3	23.0	22.7	22.4	22.1	21.5	21.0	20.5
8/ 6	19.9	19.4	18.9	18.5	18.2	17.6	17.6	17.3	17.0	16.9	17.0	18.4
	17.9	18.6	19.2	20.3	21.0	21.2	20.8	20.4	19.9	19.4	19.0	18.7
8/ 7	18.2	17.8	17.4	16.8	16.8	16.1	16.3	15.7	15.6	15.8	16.2	17.0
	17.4	18.7	19.3	20.3	20.7	21.3	21.4	20.7	20.4	20.1	19.4	19.0
8/ 8	18.3	18.0	17.8	17.4	17.3	16.9	16.5	16.7	16.7	17.0	16.9	17.9
	18.8	19.2	20.0	20.7	21.4	21.9	21.9	22.0	21.2	20.8	20.3	19.8
8/ 9	19.3	18.8	18.3	17.9	17.6	17.3	17.1	16.8	16.8	17.0	17.3	18.2
	19.3	19.9	20.2	21.1	21.9	22.1	22.1	21.9	21.7	21.3	20.8	20.2
8/10	19.7	19.2	18.6	18.4	18.0	17.8	17.3	17.2	17.2	17.3	17.6	18.2
	19.0	19.8	20.1	20.7	21.6	22.6	22.1	22.3	21.9	21.5	21.0	20.4
8/11	20.5	19.5	19.0	18.7	17.7	18.2	17.8	17.5	17.6	17.6	17.7	18.4
	19.4	19.8	20.8	21.6	22.2	22.6	22.1	22.4	22.0	21.4	21.1	20.5
8/12	19.9	19.4	19.0	18.9	18.6	18.3	18.1	17.7	17.5	17.7	17.8	18.3
	19.1	20.0	20.7	21.1	21.4	21.2	21.1	20.8	20.4	20.0	19.6	19.1
8/13	18.7	18.5	17.9	17.3	16.9	16.6	16.2	15.9	15.7	15.8	16.2	16.7
	17.4	18.1	19.0	19.9	20.7	21.0	21.1	21.1	20.8	20.4	20.1	19.5
8/14	18.9	18.5	18.2	17.6	17.2	16.8	16.3	16.2	16.4	16.4	16.4	17.2
	18.2	18.5	19.1	20.2	21.2	21.6	21.3	21.1	21.0	20.7	20.3	19.7
8/15	19.3	18.7	18.2	17.6	17.4	16.9	16.9	16.6	16.7	16.7	16.5	17.2
	17.7	18.5	19.3	20.2	20.9	21.4	21.2	21.4	21.2	20.7	20.2	19.8
8/16	19.4	18.9	18.4	18.0	17.7	17.4	17.2	16.9	16.7	16.8	17.2	18.1
	18.8	19.5	20.2	20.1	20.7	21.4	21.4	21.4	21.3	20.8	20.5	19.6
8/17	19.4	19.2	18.8	18.5	18.3	18.1	17.7	17.6	17.5	18.0	18.1	18.2
	18.3	18.4	19.2	****	****	****	****	****	****	****	****	****
8/18	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
8/19	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
8/20	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
8/21	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
8/22	****	****	****	****	****	****	****	****	****	****	****	17.7
	18.5	19.1	19.5	20.3	20.8	21.5	21.8	21.6	21.0	20.6	20.0	19.7
8/23	19.2	18.7	18.4	18.0	17.7	17.5	17.2	17.0	17.1	17.2	17.5	18.0
	18.6	18.8	19.7	20.5	21.0	21.3	21.4	21.5	21.2	20.8	20.5	20.0
8/24	19.6	19.4	19.0	18.5	18.2	18.0	17.9	17.8	17.7	17.7	18.1	18.5
	19.1	19.9	20.8	21.6	21.9	22.2	22.2	22.0	21.8	21.3	20.7	20.0
8/25	19.4	19.2	18.8	18.0	17.8	17.5	17.1	16.9	16.8	17.0	17.4	****
	****	18.9	19.2	20.1	20.7	21.1	21.3	21.1	20.9	20.8	20.4	19.6
8/26	19.1	18.7	18.4	18.3	17.6	17.1	16.7	16.6	16.5	16.6	16.9	17.1
	17.6	18.1	18.3	18.4	18.4	18.5	18.7	18.1	17.9	17.5	17.5	17.1
8/27	16.9	16.9	16.5	16.5	16.3	16.2	16.1	15.9	16.2	16.2	16.3	16.5
	16.8	17.1	17.5	17.5	17.7	17.4	17.7	17.0	16.6	16.7	15.6	18.3
8/28	19.9	21.2	17.0	20.8	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

STATION 2--BRIDGE CREEK

DATE HOURLY DATA BEGINNING AT 1100 A.M.

DATE	HOURLY DATA BEGINNING AT 1100 A.M.												
6/10	****	****	****	****	****	****	****	****	****	****	****	****	****
6/11	17.5	17.2	16.8	16.4	16.1	15.7	15.6	15.7	17.1	18.6	17.5	18.8	
6/12	20.4	21.3	21.7	21.7	21.4	20.9	19.6	17.6	16.9	16.6	16.5	****	
6/13	****	****	****	****	****	****	****	****	****	****	****	****	
6/14	****	****	****	****	****	****	****	****	****	****	****	****	
6/15	****	****	****	****	****	****	****	****	****	****	****	****	
6/16	****	****	****	****	****	****	****	****	****	****	****	****	
6/17	****	****	****	****	****	****	****	****	****	****	****	****	
6/18	****	****	****	****	****	****	****	****	****	****	****	****	
6/19	****	****	****	****	****	****	****	****	****	****	****	****	
6/20	****	****	****	****	****	****	****	****	****	****	****	****	
6/21	16.7	16.2	15.9	15.5	15.2	14.8	14.6	14.7	14.9	15.4	16.3	17.5	
6/22	19.2	****	****	****	****	****	****	****	****	****	****	****	
6/23	****	****	****	****	****	****	****	****	****	****	****	****	
6/24	****	****	****	****	****	****	****	****	****	****	****	****	
6/25	****	****	****	****	****	****	****	****	****	****	****	****	
6/26	14.8	14.6	14.3	13.4	13.7	13.5	13.2	13.6	13.7	14.2	15.0	16.1	
6/27	17.7	18.8	18.7	19.1	18.8	****	****	****	****	****	****	****	
6/28	14.2	15.1	16.3	16.5	15.8	15.1	14.8	14.6	14.4	14.3	14.3	14.4	
6/29	17.5	18.6	18.6	18.8	18.7	18.1	17.4	17.0	16.6	16.3	15.8	15.4	
6/30	14.7	14.3	13.9	13.6	13.4	13.2	13.4	13.7	14.2	14.9	16.0	****	
7/ 1	****	****	****	****	****	****	****	****	****	****	****	****	
7/ 2	****	****	****	****	****	****	****	****	****	****	****	****	
7/ 3	15.6	15.6	15.4	15.2	15.1	15.0	14.9	15.1	14.8	15.0	15.4	16.2	
7/ 4	16.4	16.3	16.1	15.9	16.7	****	15.5	15.4	15.4	15.5	15.7	16.3	
7/ 5	17.3	18.7	19.3	19.0	18.4	18.1	17.9	17.5	17.1	16.7	16.4	16.0	
7/ 6	15.8	15.4	15.1	14.9	14.7	14.5	14.3	14.1	14.2	****	****	****	
	16.0	15.7	15.4	15.3	15.0	14.7	14.8	14.6	14.9	16.3	16.5	16.7	
	19.1	20.0	20.6	20.7	20.6	20.1	19.6	18.8	18.5	18.9	18.4	17.6	

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.											
7/ 7	15.3	13.5	16.5	16.2	16.0	15.7	15.4	15.1	15.2	15.3	15.6	16.2
	17.0	18.2	****	****	****	****	****	****	****	****	****	****
7/ 8	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	19.8	19.3	18.9	18.4
7/ 9	18.1	17.8	17.4	17.1	16.8	16.6	16.5	16.6	16.8	17.1	17.9	19.0
	20.7	21.9	22.5	22.7	22.4	21.9	21.2	20.7	20.3	19.8	19.4	18.9
7/10	18.5	18.2	17.9	17.7	17.6	17.4	17.4	17.4	17.5	17.8	18.4	19.7
	21.3	22.3	22.9	22.8	22.7	22.0	21.3	20.8	20.3	20.0	19.9	19.2
7/11	19.0	18.8	18.5	18.3	18.1	17.9	17.8	17.8	17.8	18.1	18.7	19.7
	21.3	22.4	23.0	22.9	22.6	22.0	21.3	20.6	20.0	19.6	19.2	18.8
7/12	18.5	18.1	17.8	17.5	17.2	17.0	16.8	16.9	17.1	17.4	18.2	19.4
	20.9	21.7	22.3	22.0	21.7	20.9	20.2	19.5	19.1	18.7	18.5	18.2
7/13	17.9	17.7	17.6	17.1	16.8	16.6	16.4	16.5	16.7	17.2	18.0	19.2
	20.8	21.7	22.1	21.8	21.4	20.6	19.8	****	****	****	****	****
7/14	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/15	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/16	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/17	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/18	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/19	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/20	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/21	****	****	****	****	****	****	****	17.8	18.1	18.5	19.1	20.1
	21.3	22.2	22.9	23.1	22.7	22.0	21.3	20.7	20.4	20.1	19.8	19.4
7/22	19.2	18.9	18.6	19.1	18.0	17.8	17.6	17.6	17.8	18.3	19.0	20.1
	21.3	22.3	23.0	23.2	22.8	22.2	21.7	21.3	20.9	20.5	20.2	19.8
7/23	19.4	19.2	18.9	18.6	18.2	18.0	17.8	17.8	18.1	18.7	19.8	21.2
	22.8	23.7	23.4	23.4	22.9	22.3	21.8	21.4	21.0	20.6	20.2	19.9
7/24	19.6	19.2	18.9	18.6	18.4	18.2	18.3	19.1	18.5	19.0	19.9	20.9
	22.1	23.0	23.5	23.5	23.0	22.2	21.5	21.1	20.7	20.3	20.0	19.7
7/25	19.3	19.1	18.7	18.5	18.2	18.8	17.5	17.9	18.3	18.9	19.6	20.6
	22.4	23.3	23.7	23.9	23.5	22.7	22.1	21.7	21.2	20.9	20.5	20.2
7/26	19.9	19.6	19.3	19.0	18.9	18.6	18.4	18.5	18.7	19.1	****	20.8
	22.3	23.2	23.8	24.0	23.7	23.2	22.6	22.1	21.7	21.3	21.1	20.8
7/27	20.6	20.3	20.0	19.7	19.5	19.3	19.1	19.1	19.2	****	20.2	21.0
	22.5	23.7	24.5	24.4	24.1	23.5	22.7	22.4	21.7	21.3	20.9	20.5
7/28	20.3	20.0	19.7	19.5	19.2	19.0	18.8	18.8	19.0	19.5	20.0	20.9
	22.4	23.4	24.0	23.9	23.5	23.0	22.3	21.7	21.4	21.1	20.9	20.8
7/29	20.5	20.2	19.9	19.7	19.4	19.1	18.9	18.7	18.7	18.7	23.7	20.3
	21.0	21.8	22.3	22.0	21.6	21.2	20.0	19.5	19.1	18.8	18.5	18.5
7/30	18.2	18.1	17.7	17.4	17.2	17.0	16.8	16.8	17.0	17.3	17.8	18.6
	20.0	20.8	21.3	21.3	20.9	20.0	19.2	18.7	18.4	18.2	17.9	17.6
7/31	17.4	17.1	17.0	16.7	16.4	16.2	16.0	16.1	16.5	17.0	17.7	18.7
	20.2	21.2	21.6	21.6	21.2	20.5	19.8	19.4	19.0	18.6	18.3	18.1
8/ 1	17.8	17.6	17.3	17.1	16.8	16.7	16.5	16.6	17.0	17.5	18.4	19.5
	21.0	22.0	21.9	22.0	21.6	21.1	20.6	20.1	19.7	19.4	19.1	18.8
8/ 2	18.6	18.4	18.2	17.9	17.8	17.5	17.3	17.5	18.0	18.5	19.2	20.3
	21.8	23.0	23.1	23.1	22.5	21.7	21.6	20.8	20.2	19.7	19.4	19.1

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 11:00 A.M.												
8/ 3	18.9	18.7	18.4	18.2	18.0	17.8	17.7	17.9	18.3	18.8	****	****	****
8/ 4	****	****	****	****	****	****	****	****	****	****	****	****	****
8/ 5	19.3	18.9	18.7	18.4	18.1	17.9	17.7	17.7	17.9	18.3	18.8	19.8	19.8
8/ 6	21.1	22.3	22.9	23.3	23.1	21.8	21.0	20.4	20.0	19.6	19.3	19.0	19.0
8/ 7	18.7	18.3	18.1	17.8	17.6	17.4	17.0	17.2	17.5	17.8	18.3	17.6	17.6
8/ 8	20.1	20.9	21.3	21.1	20.8	19.9	19.1	18.5	18.1	17.9	17.8	17.2	18.2
8/ 9	17.4	17.2	17.0	16.8	16.5	16.3	16.1	16.2	16.4	16.7	17.2	17.5	17.5
8/10	19.4	20.4	20.8	20.8	20.5	19.7	18.9	18.3	18.0	17.8	17.6	17.7	18.6
8/11	17.3	17.2	17.0	16.9	16.8	16.7	16.6	16.5	16.8	17.2	17.7	17.6	18.6
8/12	19.8	20.8	21.4	21.7	21.4	20.6	19.7	19.2	18.8	18.5	18.3	18.0	19.1
8/13	17.8	17.6	17.4	17.2	17.0	16.8	16.6	16.6	16.9	17.4	18.1	19.1	19.1
8/14	20.4	21.4	22.1	22.2	21.8	21.0	20.2	19.8	19.5	19.1	18.8	18.5	19.5
8/15	18.3	18.1	17.9	17.7	17.5	17.3	17.1	17.2	17.5	17.8	18.8	20.7	20.7
8/16	20.7	21.5	22.2	22.3	21.8	21.1	20.4	20.0	19.7	19.3	19.0	18.8	18.8
8/17	18.5	18.3	18.1	17.8	17.6	17.5	17.3	17.3	17.6	18.1	18.8	19.7	19.7
8/18	20.9	21.9	22.4	22.5	22.2	21.4	20.6	20.1	19.7	19.5	19.2	19.0	19.0
8/19	18.8	18.6	18.4	18.2	18.0	17.9	17.7	17.6	17.9	18.4	19.1	20.0	20.0
8/20	21.1	21.6	22.0	22.0	21.4	20.5	19.8	19.6	****	****	18.5	18.2	18.2
8/21	18.0	17.8	17.6	17.4	17.2	16.9	16.7	16.6	16.9	17.4	18.1	18.1	18.1
8/22	20.3	21.4	21.8	22.0	21.7	21.1	20.7	19.6	19.1	18.8	18.4	18.2	18.2
8/23	19.0	21.7	17.5	17.3	17.1	16.9	16.8	16.7	17.0	17.4	18.1	19.0	19.0
8/24	20.3	21.7	21.9	21.9	21.6	20.8	19.9	19.4	19.1	18.8	18.4	18.2	18.2
8/25	18.0	17.7	17.4	17.2	17.1	16.9	16.7	16.7	17.0	17.4	18.0	19.0	19.0
8/26	20.2	21.4	22.9	21.8	21.4	20.6	19.8	****	****	18.4	18.1	17.8	17.8
8/27	17.6	17.4	17.3	17.1	17.0	17.0	16.8	16.8	17.0	17.4	17.8	19.0	19.0
8/28	20.3	21.5	21.9	21.8	21.2	20.6	19.9	19.4	19.2	18.9	18.6	18.4	18.4
8/29	18.2	18.1	18.1	18.0	17.9	17.8	17.8	17.8	18.0	18.3	18.6	18.7	18.7
8/30	18.6	18.5	18.4	18.4	18.3	18.2	18.1	18.0	17.9	17.7	17.5	17.4	17.4
8/31	17.4	17.3	17.3	17.2	17.2	17.1	17.1	17.0	17.2	17.5	17.8	18.5	18.5
8/32	19.0	19.1	19.3	19.6	19.7	19.1	18.5	18.0	17.7	17.5	17.2	17.0	17.0
8/33	16.8	16.6	16.4	16.2	16.0	15.9	15.8	16.0	16.3	16.6	17.1	18.0	18.0
8/34	19.2	20.1	20.4	20.8	20.1	19.4	18.7	18.2	18.0	17.7	17.5	17.1	17.1
8/35	16.9	16.8	16.6	16.4	16.3	16.2	16.2	16.3	16.5	16.9	17.6	18.6	18.6
8/36	19.9	20.8	21.3	21.2	20.7	19.9	19.2	18.8	18.9	19.0	18.0	17.8	17.8
8/37	17.6	17.5	17.4	17.2	17.0	16.9	16.8	16.9	****	17.6	18.2	19.1	19.1
8/38	20.3	21.2	21.5	21.4	20.8	19.8	19.3	18.6	18.3	18.8	18.0	17.6	17.6
8/39	17.4	17.3	17.2	17.3	17.3	17.3	17.2	17.2	17.3	17.4	17.8	18.7	18.7
8/40	20.0	21.0	21.4	21.7	21.3	20.7	19.9	19.4	19.0	18.6	18.3	18.0	18.0
8/41	17.8	17.6	17.4	17.3	17.2	17.1	16.9	16.9	17.0	17.4	17.9	18.6	18.6
8/42	19.6	20.6	21.3	21.6	21.5	20.8	20.1	19.5	19.2	19.0	18.7	18.4	18.4
8/43	18.3	18.1	17.9	17.8	17.7	17.5	17.3	17.3	17.4	17.7	18.2	18.8	18.8
8/44	19.7	21.2	22.1	22.4	22.3	21.7	21.0	20.3	19.8	19.2	18.9	18.5	18.5
8/45	18.2	18.0	17.8	17.5	17.3	17.1	16.9	16.7	16.8	17.0	17.5	18.2	18.2
8/46	19.0	20.5	21.4	21.8	21.9	21.3	20.4	19.8	19.3	18.8	18.5	18.1	18.1
8/47	17.9	17.7	17.5	17.3	17.2	17.0	16.8	16.7	16.7	17.0	17.3	17.6	17.6
8/48	18.2	19.3	20.3	19.5	18.9	18.7	18.4	18.0	17.6	17.4	17.4	17.3	17.3
8/49	17.2	17.2	17.1	17.0	17.0	16.9	16.9	16.9	17.0	17.0	17.1	17.4	17.4
8/50	17.6	17.7	18.0	18.3	18.3	18.0	17.6	17.3	17.1	16.8	16.7	16.6	16.6
8/51	16.5	16.5	16.3	16.1	16.0	16.0	16.0	15.8	15.7	16.0	16.2	16.4	16.4
8/52	16.8	17.2	18.1	18.8	19.4	19.0	18.2	17.5	17.1	16.7	16.5	16.2	16.2
8/53	15.8	15.7	15.4	15.3	15.1	14.9	14.8	14.6	14.6	14.6	14.8	15.3	15.3
8/54	16.0	16.9	18.0	18.7	19.1	18.9	18.0	17.3	16.9	16.6	16.2	15.9	15.9



TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1976--Continued

(Temperature in degrees Celsius. Stars denote missing data)

STATION 3--10.99 MILES DOWNSTREAM FROM HEADWATERS

DATE	HOURLY DATA BEGINNING AT 1000 A.M.												
6/10	****	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	25.8	21.1	20.8	20.4	19.9	
6/11	19.3	18.7	18.3	17.9	17.5	17.1	16.6	16.9	21.6	16.6	17.7	12.0	
	19.6	20.3	20.9	21.2	21.1	21.1	20.9	21.4	20.2	22.1	19.3	18.8	
6/12	19.0	17.7	17.3	16.8	16.7	15.9	15.6	15.4	15.4	15.7	16.4	17.4	
	19.0	19.9	21.6	20.7	21.4	21.3	21.3	21.1	20.9	20.6	20.2	22.2	
6/13	19.1	18.6	18.2	17.7	17.3	17.0	16.7	16.6	16.7	17.1	17.6	19.3	
	20.8	20.6	21.5	21.5	21.8	21.9	22.5	24.6	21.3	21.0	20.7	20.1	
6/14	19.6	19.1	18.7	18.2	17.8	19.0	17.2	17.1	17.1	17.1	17.4	18.7	
	20.2	21.0	21.6	21.9	21.7	21.8	21.5	22.1	20.9	20.6	20.1	21.7	
6/15	19.2	18.8	18.3	17.8	17.4	17.0	16.6	16.4	16.4	16.6	17.3	18.2	
	19.7	20.6	21.3	23.0	22.0	21.9	21.7	21.4	21.1	20.7	20.2	19.9	
6/16	19.1	18.6	18.0	17.5	17.1	16.8	16.3	16.1	15.6	16.4	17.0	18.3	
	19.2	20.0	20.6	20.5	20.7	20.5	20.1	19.2	19.3	18.9	18.5	18.2	
6/17	17.6	17.2	16.8	16.5	16.1	15.7	15.4	15.3	15.3	15.5	16.1	17.6	
	18.0	18.8	19.2	20.8	19.0	18.7	****	****	****	****	****	****	
6/18	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
6/19	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
6/20	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	19.8	19.4	19.1	18.5	
6/21	18.2	17.8	17.2	16.7	16.3	15.9	15.5	15.3	15.3	15.4	16.0	17.1	
	****	****	****	****	****	****	****	****	****	****	****	****	
6/22	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
6/23	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
6/24	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
6/25	****	****	****	****	****	****	****	****	****	12.8	13.4	14.5	
	15.7	16.5	17.3	17.4	17.2	17.8	17.9	17.4	17.3	17.1	16.4	16.4	
6/26	16.1	15.7	15.3	14.9	14.5	14.1	13.9	13.7	13.7	13.9	14.7	16.2	
	16.6	17.3	17.8	18.3	19.1	18.0	17.7	17.4	17.0	16.7	16.5	16.2	
6/27	16.0	15.6	15.3	14.8	14.3	14.1	13.8	13.6	13.6	13.7	14.3	15.4	
	16.5	17.5	18.0	17.8	18.4	18.1	18.0	17.7	17.4	17.1	16.8	16.5	
6/28	16.2	15.8	15.4	15.0	14.6	14.3	14.0	13.8	13.8	14.1	14.7	16.0	
	17.1	17.7	18.3	18.9	18.6	18.5	18.4	18.2	17.8	17.5	17.2	17.0	
6/29	16.6	16.2	15.8	15.4	14.9	14.5	14.2	14.0	13.9	14.2	14.8	16.0	
	17.3	18.1	18.6	18.7	18.6	18.7	18.7	18.4	18.1	17.8	17.5	17.2	
6/30	16.9	16.6	16.3	16.0	15.6	15.2	15.0	14.9	14.8	14.8	15.2	16.0	
	17.0	17.3	18.0	18.3	18.1	18.1	17.9	17.7	17.4	17.0	16.7	16.4	
7/ 1	16.2	15.8	15.5	15.1	14.5	14.3	14.0	13.8	13.7	13.9	14.4	15.3	
	16.3	16.3	17.3	17.5	17.3	17.3	17.1	17.0	16.7	16.4	16.3	16.0	
7/ 2	15.8	15.5	15.2	14.8	14.4	14.1	13.8	13.7	13.7	****	14.3	15.4	
	16.7	17.8	18.5	18.3	18.1	18.1	18.0	17.9	17.5	17.3	17.2	16.9	
7/ 3	16.5	16.5	16.5	16.3	15.9	15.6	15.4	14.9	15.3	15.3	16.1	17.0	
	18.0	18.4	18.7	18.9	18.3	19.1	19.3	19.2	18.9	18.9	18.3	18.0	
7/ 4	17.6	17.8	17.5	17.1	16.7	16.6	16.5	16.6	16.7	16.1	16.9	17.8	
	18.5	18.4	18.7	19.1	18.3	18.3	18.0	18.0	18.0	17.7	17.2	16.9	
7/ 5	17.0	16.7	16.1	15.7	15.8	15.5	15.0	14.8	15.1	15.8	16.0	16.9	
	17.8	18.2	18.3	18.3	18.6	19.5	20.2	19.7	19.0	18.6	18.7	18.2	
7/ 6	18.0	17.6	17.2	17.4	18.7	18.1	15.5	15.8	15.7	15.9	16.4	17.4	
	18.5	18.9	19.1	19.4	19.5	20.0	19.9	19.7	19.5	19.2	19.0	18.7	

DATE	HOURLY DATA BEGINNING AT 1100 A.M.											
7/ 7	18.4	18.0	18.0	17.7	17.0	16.5	16.6	16.3	16.0	16.4	17.4	18.3
	19.1	19.5	19.7	19.8	20.1	20.3	20.2	20.1	19.9	19.7	19.3	18.9
7/ 8	18.9	18.5	18.2	17.7	17.8	17.2	16.6	16.7	16.6	16.5	17.1	18.4
	18.6	19.5	19.7	19.8	19.9	20.2	20.9	21.0	20.9	20.9	18.7	19.0
7/ 9	20.3	21.1	21.8	22.0	22.1	22.2	22.0	21.8	21.4	21.0	20.6	19.9
	19.6	19.2	19.0	18.7	18.5	18.3	18.1	18.0	18.1	18.6	19.6	20.8
7/10	21.7	22.3	22.5	22.5	22.4	22.9	22.0	21.7	21.2	20.6	20.2	19.9
	19.6	19.3	19.2	18.8	18.7	18.5	18.4	18.4	19.0	19.9	21.1	22.0
7/11	22.7	22.8	22.6	22.5	22.5	22.4	22.0	21.6	21.5	20.9	20.5	19.8
	19.4	19.4	18.7	18.3	18.0	17.7	17.7	17.7	18.2	18.7	19.7	20.6
7/12	21.3	21.8	21.6	21.2	21.0	20.8	20.5	20.2	19.9	19.6	19.3	19.0
	18.7	18.4	18.0	17.7	18.1	17.3	17.3	17.3	17.7	18.6	19.6	20.7
7/13	21.3	21.5	21.2	21.1	20.9	20.6	20.6	20.6	20.4	20.1	19.8	19.5
	19.7	18.8	18.5	18.2	17.9	17.7	17.6	17.5	17.4	17.6	18.0	18.9
7/14	19.6	19.7	19.9	20.1	20.2	20.2	20.1	19.9	19.7	19.5	19.3	19.1
	18.9	18.8	18.6	18.4	18.3	18.1	17.7	17.3	17.4	18.0	18.7	18.9
7/15	18.8	18.8	18.7	18.6	18.4	18.3	18.3	18.2	18.0	17.6	17.4	17.2
	16.9	16.7	16.5	16.3	16.4	16.7	17.3	18.3	19.5	20.6	21.3	21.3
7/16	18.9	18.8	18.6	18.4	18.3	18.1	17.7	17.3	17.4	18.0	18.7	18.9
	18.8	18.8	18.7	18.6	18.4	18.3	18.3	18.2	18.0	17.6	17.4	17.2
7/17	16.9	16.7	16.5	16.3	16.4	16.7	17.3	18.3	19.5	20.6	21.3	21.3
	18.9	18.8	18.6	18.4	18.3	18.1	17.7	17.3	17.4	18.0	18.7	18.9
7/18	18.8	18.8	18.7	18.6	18.4	18.3	18.3	18.2	18.0	17.6	17.4	17.2
	16.9	16.7	16.5	16.3	16.4	16.7	17.3	18.3	19.5	20.6	21.3	21.3
7/19	18.9	18.8	18.6	18.4	18.3	18.1	17.7	17.3	17.4	18.0	18.7	18.9
	18.8	18.8	18.7	18.6	18.4	18.3	18.3	18.2	18.0	17.6	17.4	17.2
7/20	16.9	16.7	16.5	16.3	16.4	16.7	17.3	18.3	19.5	20.6	21.3	21.3
	18.9	18.8	18.6	18.4	18.3	18.1	17.7	17.3	17.4	18.0	18.7	18.9
7/21	18.8	18.8	18.7	18.6	18.4	18.3	18.3	18.2	18.0	17.6	17.4	17.2
	16.9	16.7	16.5	16.3	16.4	16.7	17.3	18.3	19.5	20.6	21.3	21.3
7/22	18.9	18.8	18.6	18.4	18.3	18.1	17.7	17.3	17.4	18.0	18.7	18.9
	18.8	18.8	18.7	18.6	18.4	18.3	18.3	18.2	18.0	17.6	17.4	17.2
7/23	16.9	16.7	16.5	16.3	16.4	16.7	17.3	18.3	19.5	20.6	21.3	21.3
	18.9	18.8	18.6	18.4	18.3	18.1	17.7	17.3	17.4	18.0	18.7	18.9
7/24	18.8	18.8	18.7	18.6	18.4	18.3	18.3	18.2	18.0	17.6	17.4	17.2
	16.9	16.7	16.5	16.3	16.4	16.7	17.3	18.3	19.5	20.6	21.3	21.3
7/25	18.9	18.8	18.6	18.4	18.3	18.1	17.7	17.3	17.4	18.0	18.7	18.9
	18.8	18.8	18.7	18.6	18.4	18.3	18.3	18.2	18.0	17.6	17.4	17.2
7/26	16.9	16.7	16.5	16.3	16.4	16.7	17.3	18.3	19.5	20.6	21.3	21.3
	18.9	18.8	18.6	18.4	18.3	18.1	17.7	17.3	17.4	18.0	18.7	18.9
7/27	18.8	18.8	18.7	18.6	18.4	18.3	18.3	18.2	18.0	17.6	17.4	17.2
	16.9	16.7	16.5	16.3	16.4	16.7	17.3	18.3	19.5	20.6	21.3	21.3
7/28	18.9	18.8	18.6	18.4	18.3	18.1	17.7	17.3	17.4	18.0	18.7	18.9
	18.8	18.8	18.7	18.6	18.4	18.3	18.3	18.2	18.0	17.6	17.4	17.2
7/29	16.9	16.7	16.5	16.3	16.4	16.7	17.3	18.3	19.5	20.6	21.3	21.3
	18.9	18.8	18.6	18.4	18.3	18.1	17.7	17.3	17.4	18.0	18.7	18.9
7/30	18.8	18.8	18.7	18.6	18.4	18.3	18.3	18.2	18.0	17.6	17.4	17.2
	16.9	16.7	16.5	16.3	16.4	16.7	17.3	18.3	19.5	20.6	21.3	21.3
7/31	18.9	18.8	18.6	18.4	18.3	18.1	17.7	17.3	17.4	18.0	18.7	18.9
	18.8	18.8	18.7	18.6	18.4	18.3	18.3	18.2	18.0	17.6	17.4	17.2
8/ 1	16.9	16.7	16.5	16.3	16.4	16.7	17.3	18.3	19.5	20.6	21.3	21.3
	18.9	18.8	18.6	18.4	18.3	18.1	17.7	17.3	17.4	18.0	18.7	18.9
8/ 2	18.8	18.8	18.7	18.6	18.4	18.3	18.3	18.2	18.0	17.6	17.4	17.2
	16.9	16.7	16.5	16.3	16.4	16.7	17.3	18.3	19.5	20.6	21.3	21.3

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1100 A.M.												
8/ 3	****	****	****	****	****	****	****	****	****	****	****	****	****
8/ 4	****	****	****	****	****	****	****	****	****	****	****	****	****
8/ 5	****	****	****	****	****	****	****	****	****	****	****	****	****
8/ 6	22.0	22.9	22.8	22.0	21.6	21.1	20.7	20.4	20.1	19.9	19.6	19.3	19.0
8/ 7	19.0	18.6	18.2	18.1	17.8	17.6	17.6	17.8	17.8	18.3	19.1	19.8	20.6
8/ 8	20.6	20.9	20.6	20.1	19.6	19.2	18.9	18.6	18.5	18.4	18.1	17.9	17.8
8/ 9	17.8	17.6	17.3	17.0	16.9	16.7	16.6	16.6	16.7	17.0	17.9	19.2	20.4
8/10	20.4	20.8	20.8	19.9	19.5	19.1	18.9	18.6	18.3	18.2	18.1	18.0	17.9
8/11	17.9	17.7	17.5	17.3	17.2	17.1	16.9	16.9	17.0	17.3	17.9	19.1	20.6
8/12	20.6	21.5	21.8	21.4	20.6	20.3	20.1	19.6	19.6	19.2	18.9	18.6	18.4
8/13	18.4	18.2	18.0	17.8	17.5	17.2	17.0	17.1	17.3	17.5	18.9	20.1	21.4
8/14	21.4	22.2	22.2	21.6	21.1	20.8	20.8	20.3	20.0	19.6	19.3	19.1	18.9
8/15	18.9	18.7	18.5	18.2	18.0	17.8	17.6	17.5	17.6	17.9	18.6	19.9	21.3
8/16	21.3	22.1	22.3	21.8	21.2	20.9	20.6	20.4	20.2	19.9	19.6	19.3	19.1
8/17	19.1	18.9	18.6	18.4	18.0	17.8	17.6	17.6	17.7	18.0	18.7	20.1	21.6
8/18	21.6	22.4	22.5	22.2	21.6	21.3	20.9	20.6	20.3	20.0	19.8	19.5	19.3
8/19	19.3	19.1	18.9	18.7	18.4	18.2	18.0	17.8	18.0	18.2	19.0	20.2	21.7
8/20	21.7	22.7	22.4	21.5	20.7	20.4	20.3	20.2	20.0	19.5	19.2	19.1	18.8
8/21	18.8	18.6	18.2	18.1	17.8	17.6	17.3	17.1	16.9	16.7	16.9	17.3	18.2
8/22	18.2	19.7	21.3	22.1	21.9	21.1	20.6	20.4	20.1	19.9	19.6	19.2	19.0
8/23	19.0	18.7	18.4	18.2	17.9	17.6	17.3	17.1	17.0	17.0	17.0	17.2	18.0
8/24	18.0	19.5	21.1	22.1	21.9	21.3	20.6	20.3	20.0	19.7	19.8	19.6	19.5
8/25	19.0	18.8	18.5	18.3	18.0	17.7	17.4	17.2	17.0	16.9	16.9	17.1	17.7
8/26	17.7	19.1	20.7	21.8	21.6	21.2	20.1	20.6	20.2	20.5	20.4	20.2	20.7
8/27	19.7	19.1	18.6	18.3	18.1	17.9	17.7	17.6	17.8	18.2	19.0	20.2	22.3
8/28	22.3	23.4	22.2	21.8	21.2	21.0	20.8	20.4	20.6	20.6	20.6	20.4	20.4
8/29	20.1	20.4	20.1	19.9	19.8	19.7	19.3	18.8	18.6	18.7	19.1	19.1	19.3
8/30	19.3	19.5	19.4	19.4	19.1	18.8	18.8	18.6	18.5	18.4	18.3	18.2	18.1
8/31	18.1	18.1	17.9	17.9	17.8	17.7	17.6	18.1	17.7	18.2	18.6	19.9	19.7
9/ 1	19.7	19.8	19.7	19.5	19.2	19.0	18.8	18.6	18.4	18.2	18.1	17.8	17.5
9/ 2	17.5	17.5	17.3	17.0	16.8	16.7	16.7	16.8	17.0	17.4	18.6	20.0	20.7
9/ 3	20.7	20.8	20.6	20.1	19.8	19.5	19.2	19.1	19.1	18.6	18.3	18.2	18.0
9/ 4	18.0	17.7	17.6	17.4	17.3	17.1	17.1	17.1	17.2	17.5	18.5	19.9	21.0
9/ 5	21.0	21.3	21.2	20.8	20.4	20.2	19.9	19.8	19.6	19.3	19.1	19.1	18.9
9/ 6	18.9	18.7	18.5	18.3	18.1	17.9	17.8	17.6	17.7	17.9	18.6	19.7	21.0
9/ 7	21.0	21.7	21.5	21.2	20.9	20.4	20.0	19.8	19.7	19.6	19.9	19.7	19.5
9/ 8	18.6	18.4	18.2	18.1	18.2	18.1	17.8	17.8	17.7	17.6	18.6	20.1	21.4
9/ 9	21.4	21.7	21.4	21.2	20.9	20.9	20.6	20.2	20.1	19.6	19.6	18.9	18.7
9/10	19.1	18.9	18.2	18.3	18.3	17.9	17.7	17.7	17.7	17.9	18.4	19.7	21.4
9/11	21.4	21.6	21.2	21.0	20.8	20.8	20.8	20.2	19.8	19.6	19.4	19.6	19.5
9/12	19.5	19.1	18.7	18.5	18.3	18.1	18.0	18.1	18.3	19.1	20.6	21.9	22.5
9/13	22.5	22.1	22.3	21.6	21.5	21.3	21.0	20.1	20.1	19.8	19.7	19.4	19.0
9/14	19.0	18.5	18.5	18.2	17.8	17.7	17.6	17.5	17.8	17.9	19.5	21.1	22.1
9/15	22.1	21.7	20.9	21.0	21.1	20.8	20.6	20.3	20.0	19.6	19.3	19.0	18.7
9/16	18.7	18.4	18.3	18.0	17.7	17.5	17.3	17.2	17.3	17.5	18.2	19.8	20.9
9/17	20.9	20.7	20.1	19.3	19.2	18.9	18.5	18.4	18.5	18.4	18.1	18.4	18.1
9/18	18.1	17.7	18.1	17.7	17.7	17.9	17.4	17.6	17.2	17.4	17.7	18.1	18.1
9/19	18.1	18.4	18.4	18.2	18.2	18.0	18.1	17.8	17.6	17.5	17.4	16.9	17.1
9/20	17.1	17.0	16.6	16.6	16.5	16.5	16.4	16.3	16.7	17.4	18.4	19.4	19.5
9/21	19.5	19.0	18.8	18.6	18.5	18.3	17.9	17.6	17.3	16.8	16.5	16.3	16.3
9/22	16.0	16.2	15.9	15.9	15.6	15.5	15.2	15.4	16.0	17.0	17.9	18.5	18.7
9/23	18.7	18.4	18.2	18.3	18.2	17.7	17.7	17.5	17.2	16.9	16.7	16.6	16.6

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.												
8/ 3	****	****	****	****	****	****	****	****	****	****	****	****	****
8/ 4	****	****	****	****	****	****	****	****	****	****	****	****	****
8/ 5	****	****	****	****	****	****	****	****	****	****	****	****	****
8/ 6	22.0	22.9	22.8	22.0	21.6	21.1	20.7	20.4	20.1	19.9	19.6	19.3	19.0
8/ 7	19.0	18.6	18.2	18.1	17.8	17.6	17.6	17.8	17.8	18.3	19.1	19.8	20.6
8/ 8	20.6	20.9	20.6	20.1	19.6	19.2	18.9	18.6	18.5	18.4	18.1	17.9	17.8
8/ 9	17.8	17.6	17.3	17.0	16.9	16.7	16.6	16.6	16.7	17.0	17.9	19.2	20.4
8/10	20.4	20.8	20.8	19.9	19.5	19.1	18.9	18.6	18.3	18.2	18.1	18.0	17.9
8/11	17.9	17.7	17.5	17.3	17.2	17.1	16.9	16.9	17.0	17.3	17.9	19.1	20.6
8/12	20.6	21.5	21.8	21.4	20.6	20.3	20.1	****	19.6	19.2	18.9	18.6	18.4
8/13	18.4	18.2	18.0	17.8	17.5	17.2	17.0	17.1	17.3	17.5	18.9	20.1	21.4
8/14	21.4	22.2	22.2	21.6	21.1	20.8	20.8	20.3	20.0	19.6	19.3	19.1	18.9
8/15	18.9	18.7	18.5	18.2	18.0	17.8	17.6	17.5	17.6	17.9	18.6	19.9	21.3
8/16	21.3	22.1	22.3	21.8	21.2	20.9	20.6	20.4	20.2	19.9	19.6	19.3	19.1
8/17	19.1	18.9	18.6	18.4	18.0	17.8	17.6	17.6	17.7	18.0	18.7	20.1	21.6
8/18	21.6	22.4	22.5	22.2	21.6	21.3	20.9	20.6	20.3	20.0	19.8	19.5	19.3
8/19	19.3	19.1	18.9	18.7	18.4	18.2	18.0	17.8	18.0	18.2	19.0	20.2	21.7
8/20	21.7	22.7	22.4	21.5	20.7	20.4	20.3	20.2	20.0	19.5	19.2	19.1	18.8
8/21	18.8	18.6	18.2	18.1	17.8	17.6	17.3	17.1	16.9	16.7	16.9	17.3	18.2
8/22	18.2	19.7	21.3	22.1	21.9	21.1	20.6	20.4	20.1	19.9	19.6	19.2	19.0
8/23	19.0	18.7	18.4	18.2	17.9	17.6	17.3	17.1	17.0	17.0	17.0	17.2	18.0
8/24	18.0	18.5	21.1	22.1	21.9	21.3	20.6	20.3	20.0	19.7	19.8	19.6	19.4
8/25	19.0	18.8	18.5	18.3	18.0	17.7	17.4	17.2	17.0	16.9	16.9	17.1	17.7
8/26	17.7	19.1	20.7	21.8	21.6	21.2	20.1	20.6	20.2	20.5	20.4	20.2	20.7
8/27	19.7	19.1	18.6	18.3	18.1	17.9	17.7	17.6	17.8	18.2	19.0	20.2	22.3
8/28	22.3	23.4	22.2	21.8	21.2	21.0	20.8	20.4	20.6	20.6	20.6	20.4	20.4
8/29	20.1	20.4	20.1	19.9	19.8	19.7	19.3	18.8	18.6	18.7	19.1	19.1	19.3
8/30	19.3	19.5	19.4	19.4	19.1	18.8	18.8	18.6	18.5	18.4	18.3	18.2	18.1
8/31	18.1	18.1	17.9	17.9	17.8	17.7	17.6	18.1	17.7	18.2	18.6	19.9	19.7
9/ 1	19.7	19.8	19.7	19.5	19.2	19.0	18.8	18.6	18.4	18.2	18.1	17.8	17.5
9/ 2	17.5	17.5	17.3	17.0	16.8	16.7	16.7	16.8	17.0	17.4	18.6	20.0	20.7
9/ 3	20.7	20.8	20.6	20.1	19.8	19.5	19.2	19.1	19.1	18.6	18.3	18.2	18.0
9/ 4	18.0	17.7	17.6	17.4	17.3	17.1	17.1	17.1	17.2	17.5	18.5	19.9	21.0
9/ 5	21.0	21.3	21.2	20.8	20.4	20.2	19.9	19.8	19.6	19.3	19.1	19.1	18.9
9/ 6	18.9	18.7	18.5	18.3	18.1	17.9	17.8	17.6	17.7	17.9	18.6	19.7	21.0
9/ 7	21.0	21.7	21.5	21.2	20.9	20.4	20.0	19.8	19.7	19.6	19.9	19.7	18.6
9/ 8	18.6	18.4	18.2	18.1	18.2	18.1	17.8	17.8	17.7	17.6	18.6	20.1	21.4
9/ 9	21.4	21.7	21.4	21.2	20.9	20.9	20.6	20.2	20.1	19.6	19.6	18.9	18.9
9/10	19.1	18.9	18.2	18.3	18.3	17.9	17.7	17.7	17.7	17.9	18.4	19.7	21.4
9/11	21.4	21.6	21.2	21.0	20.8	20.8	20.8	20.2	19.8	19.6	19.4	19.6	19.5
9/12	19.5	19.1	18.7	18.5	18.3	18.1	18.0	18.1	18.3	19.1	20.6	21.9	22.5
9/13	22.5	22.1	22.3	21.6	21.5	21.3	21.0	20.1	20.1	19.8	19.7	19.4	19.0
9/14	19.0	18.5	18.5	18.2	17.8	17.7	17.6	17.5	17.8	17.9	19.5	21.1	22.1
9/15	22.1	21.7	20.9	21.0	21.1	20.8	20.6	20.3	20.0	19.6	19.3	19.0	18.7
9/16	18.7	18.4	18.3	18.0	17.7	17.5	17.3	17.2	17.3	17.5	18.2	19.8	20.9
9/17	20.9	20.7	20.1	19.3	19.2	18.9	18.5	18.4	18.5	18.4	18.1	18.4	18.1
9/18	18.1	17.7	18.1	17.7	17.7	17.9	17.4	17.6	17.2	17.4	17.7	18.1	18.1
9/19	18.1	18.4	18.4	18.2	18.2	18.0	18.1	17.8	17.6	17.5	17.4	16.9	16.9
9/20	17.1	17.0	16.6	16.6	16.5	16.5	16.4	16.3	16.7	17.4	18.4	19.4	19.5
9/21	19.5	19.0	18.8	18.6	18.5	18.3	17.9	17.6	17.3	16.8	16.5	16.3	16.3
9/22	18.0	16.2	15.9	15.9	15.6	15.5	15.2	15.4	16.0	17.0	17.9	18.5	18.7
9/23	18.7	18.4	18.2	18.3	18.2	17.7	17.7	17.5	17.2	16.9	16.7	16.6	16.6



[Temperature in degrees Celsius. Stars denote missing data]

## DATE HOURLY DATA BEGINNING AT 1100 A.M.

6/11	20.5	21.5	22.5	17.8	21.9	23.1	22.6	21.9	21.1	20.4	19.9	19.3
6/12	19.0	18.5	18.2	17.8	17.5	17.2	16.9	16.7	16.9	17.3	18.3	19.5
	20.7	21.6	22.5	23.1	23.3	23.2	23.3	22.2	21.4	20.8	20.3	19.9
6/13	19.6	19.1	18.8	18.5	18.1	17.8	17.6	17.5	17.7	18.4	19.4	20.6
	21.8	22.8	23.9	24.0	23.9	23.6	23.0	22.4	21.8	21.2	20.7	20.2
6/14	19.8	19.5	19.2	18.8	18.5	18.2	18.0	18.0	18.2	18.5	19.9	20.6
	21.7	22.7	23.5	23.9	24.2	24.2	23.5	22.7	21.9	21.1	20.6	20.1
6/15	20.0	19.2	18.8	18.4	18.2	17.9	17.8	17.7	17.9	18.4	19.4	20.7
	21.8	22.9	23.8	24.4	24.4	24.0	23.3	22.3	21.4	20.7	20.1	19.6
6/16	19.1	18.8	18.4	18.0	17.6	17.3	17.1	16.9	17.0	17.6	18.6	19.7
	20.8	20.6	21.4	23.0	23.0	22.5	21.6	20.6	19.7	18.9	18.2	17.9
6/17	17.6	17.3	17.0	16.8	16.6	16.4	16.2	16.1	16.2	16.5	17.1	18.2
	19.4	20.5	21.2	21.5	21.5	21.1	20.6	19.5	18.5	17.8	17.3	17.0
6/18	16.8	16.5	16.2	15.9	15.6	15.4	15.1	14.9	15.4	15.8	16.7	17.8
	18.4	19.1	19.6	20.1	20.4	20.6	20.4	20.1	19.7	19.2	18.7	18.2
6/19	17.8	17.5	17.2	16.9	16.6	16.3	16.0	15.7	15.4	15.1	14.8	14.5
	18.9	19.4	19.9	20.4	20.9	21.4	21.9	22.4	22.9	23.4	23.9	24.4
6/20	19.9	20.4	20.9	21.4	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4
	20.9	21.4	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4
6/21	17.5	17.2	16.8	16.4	16.2	15.9	15.6	15.5	15.8	16.6	17.8	19.1
	20.3	21.5	22.2	22.5	22.6	22.0	21.1	20.0	19.2	18.8	18.2	17.9
6/22	17.5	17.1	17.0	16.4	16.1	15.8	15.5	15.6	16.0	16.9	18.3	19.3
	20.5	22.0	21.5	15.6	19.8	21.1	20.8	20.5	21.8	19.7	18.5	18.0
6/23	17.5	17.2	16.9	16.6	16.3	16.5	15.9	15.5	15.3	15.2	15.4	15.9
	15.9	16.7	16.9	16.9	17.1	17.5	17.5	17.3	17.1	16.9	16.5	16.3
6/24	16.4	16.5	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
6/25	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
6/26	17.7	17.0	19.0	18.2	17.7	18.4	16.9	16.9	17.0	16.0	16.3	17.5
	18.9	20.7	20.6	22.7	21.2	21.4	20.7	19.9	19.0	18.8	17.9	17.2
6/27	17.0	16.8	16.6	16.4	16.0	15.7	15.5	15.3	15.4	15.3	15.5	16.5
	17.8	18.9	19.7	20.3	20.7	20.8	20.3	19.9	19.0	18.2	18.1	17.5
6/28	17.2	16.7	16.2	15.7	15.5	15.4	15.0	14.8	14.8	15.5	16.8	17.8
	19.4	20.5	21.0	21.5	21.7	21.6	20.8	19.8	18.9	18.2	17.4	17.2
6/29	17.0	16.3	15.9	16.1	15.8	15.2	15.1	14.7	15.1	16.1	17.4	18.9
	19.8	20.7	21.9	22.1	22.3	21.4	20.9	19.6	18.7	18.2	17.6	17.6
6/30	17.2	16.7	16.1	16.3	15.8	15.6	15.2	15.3	15.9	16.8	18.2	19.4
	20.5	21.4	22.1	20.6	20.4	20.3	19.3	18.5	17.7	17.2	16.9	16.6
7/ 1	16.3	15.7	15.3	15.1	14.6	14.4	14.4	14.8	15.7	16.8	18.0	19.1
	20.0	20.1	20.3	20.2	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
7/ 2	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
7/ 3	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
7/ 4	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
7/ 5	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
7/ 6	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
7/ 7	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.											
7/ 8	****	****	****	****	****	****	****	****	****	****	****	****
7/ 9	****	****	****	****	****	****	****	****	****	****	****	****
7/10	****	****	****	****	****	****	****	****	****	****	****	****
7/11	21.6	21.1	20.7	20.6	20.6	19.8	20.3	19.9	20.4	21.0	22.2	23.5
7/12	24.6	25.3	26.1	26.3	25.5	24.8	24.0	22.8	22.2	21.9	21.3	21.1
7/13	21.1	20.7	20.0	19.4	18.7	18.6	18.4	18.6	19.3	20.2	21.1	22.6
7/14	23.9	24.4	25.0	25.0	24.2	24.3	23.2	22.3	21.3	20.5	20.2	19.7
7/15	19.8	19.8	19.7	19.5	18.8	19.1	18.3	18.1	18.7	19.5	20.6	22.1
7/16	23.3	24.5	24.9	24.8	24.5	23.9	22.9	22.0	21.7	21.2	20.7	20.3
7/17	19.9	19.5	19.4	19.2	18.8	18.4	18.5	18.6	18.9	****	20.5	21.6
7/18	22.3	22.3	22.0	22.5	22.4	22.8	22.5	22.0	21.5	21.1	20.7	20.5
7/19	20.3	20.2	20.1	20.1	20.0	20.0	19.8	19.9	20.2	20.5	20.7	20.8
7/20	20.9	21.1	21.4	21.8	21.8	21.5	21.3	21.2	21.1	20.9	20.7	20.5
7/21	20.3	20.1	19.9	19.7	19.5	19.4	19.1	18.8	18.7	18.5	18.4	18.4
7/22	18.3	18.5	18.8	19.4	20.4	21.7	23.0	23.8	24.1	24.2	24.2	24.3
7/23	23.5	22.7	21.8	21.2	20.7	20.3	19.9	19.6	19.3	19.0	18.7	18.5
7/24	18.4	18.5	19.2	20.3	21.8	23.1	24.0	24.5	24.5	24.5	24.3	23.6
7/25	22.8	22.0	21.5	21.1	20.6	20.3	20.0	19.8	19.5	19.2	19.1	19.0
7/26	19.3	20.4	21.6	22.9	24.1	24.0	23.2	23.3	24.6	24.7	23.4	22.6
7/27	21.9	21.5	21.2	20.9	20.6	20.3	20.0	19.8	19.5	19.5	19.6	20.2
7/28	21.2	21.1	23.9	24.6	25.0	24.9	24.7	24.5	24.0	23.2	22.5	21.8
7/29	21.4	20.9	20.8	20.5	20.2	19.9	19.6	19.5	19.6	20.0	21.1	22.3
7/30	23.5	24.2	24.7	23.5	23.5	23.7	23.9	23.8	23.2	22.7	22.1	21.7
7/31	21.3	21.0	20.6	20.3	20.1	19.4	19.6	19.9	20.6	21.8	23.1	****
8/ 1	****	24.6	25.5	25.2	24.8	24.8	24.2	23.3	22.3	21.6	21.3	20.9
8/ 2	20.5	20.2	19.8	19.5	19.3	19.2	18.9	18.8	19.3	20.0	21.1	22.4
8/ 3	23.6	24.8	25.6	26.1	26.0	25.5	24.9	24.2	23.5	22.7	22.1	21.5
8/ 4	20.9	20.6	20.4	20.0	19.7	19.4	19.1	19.0	19.2	20.0	21.2	22.6
8/ 5	23.9	25.1	26.1	26.5	26.3	25.8	25.4	24.4	23.5	22.8	22.2	21.6
8/ 6	21.1	21.0	20.4	20.0	19.7	19.4	19.4	19.1	19.3	19.9	21.1	22.5
8/ 7	24.3	25.1	26.0	26.3	26.2	25.5	24.7	23.7	22.6	22.1	21.7	21.3
8/ 8	20.9	20.5	20.3	20.0	19.5	19.1	19.1	18.9	19.1	19.8	21.2	22.6
8/ 9	24.2	25.3	26.2	26.7	26.8	26.3	25.3	24.6	23.7	22.9	22.3	22.0
8/10	21.5	21.2	20.9	20.4	20.1	19.7	19.6	19.5	20.5	21.0	21.5	23.0
8/11	24.5	25.8	26.8	27.2	27.2	26.8	26.2	25.4	24.6	23.9	23.4	22.8
8/12	22.4	21.9	21.6	21.5	21.5	21.1	20.8	20.9	20.8	21.1	22.2	23.7
8/13	25.7	26.8	27.5	27.5	27.1	26.5	25.7	24.8	24.1	23.6	23.1	22.7
8/14	22.4	22.0	21.7	21.5	21.3	21.1	20.9	21.1	22.4	23.8	25.3	26.6
8/15	27.6	27.8	27.9	27.5	26.7	26.0	25.0	24.2	23.5	23.1	22.8	22.5
8/16	22.2	21.8	21.4	21.1	20.9	20.7	20.5	20.6	21.0	22.0	23.2	24.3
8/17	25.1	25.5	25.4	25.0	24.2	23.3	22.4	21.7	21.2	20.9	20.6	20.3
8/18	20.1	19.9	19.6	19.3	19.2	19.0	18.9	19.1	19.8	20.8	22.2	23.4
8/19	24.3	25.1	25.1	24.8	24.1	23.3	22.4	21.6	21.1	20.6	20.3	20.0
8/20	19.7	19.5	19.2	18.9	18.7	18.4	18.4	18.5	19.2	20.5	22.0	23.7
8/21	25.0	25.6	26.0	25.9	25.3	24.4	23.6	22.8	22.1	21.6	21.1	20.7
8/22	20.4	20.0	19.7	19.3	19.1	18.9	18.7	18.9	19.4	20.6	22.2	23.4
8/23	22.6	25.9	26.3	26.3	25.8	25.2	24.5	23.7	22.9	22.3	21.9	21.4
8/24	21.1	20.7	20.4	20.1	19.9	19.7	19.5	19.6	20.0	21.0	22.3	23.8
8/25	25.1	26.1	26.6	26.7	26.4	25.6	24.8	23.9	23.1	22.6	22.1	21.7
8/26	21.3	21.0	20.7	20.4	20.1	19.8	19.7	19.6	19.9	20.7	22.1	23.8
8/27	25.3	26.6	26.8	27.0	26.8	26.2	25.4	24.7	23.9	23.2	22.6	22.1

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1100 A.M.												
8/ 4	21.8	21.4	21.1	20.7	20.4	20.2	19.9	19.9	20.1	20.6	21.8	****	
	22.8	22.5	21.9	21.6	22.0	20.9	20.3	20.6	21.5	21.4	21.0	20.6	
8/ 5	20.3	20.0	19.7	19.4	19.2	18.9	18.7	18.6	18.6	19.0	19.9	20.9	
	22.2	23.5	24.2	24.6	24.6	24.2	23.5	22.7	21.8	21.1	20.5	20.1	
8/ 6	19.9	19.6	19.3	19.0	18.8	18.4	18.2	18.0	18.2	18.5	19.2	20.0	
	21.1	22.3	23.0	****	23.5	22.5	21.9	21.0	20.2	19.4	19.2	19.0	
8/ 7	18.8	18.6	18.3	18.1	17.8	17.7	17.5	17.6	18.0	18.9	19.9	21.0	
	22.2	22.9	23.3	23.3	23.0	22.4	21.8	21.0	20.2	19.8	19.6	19.4	
8/ 8	19.1	18.9	18.7	18.5	18.4	18.3	18.1	18.0	18.2	18.7	19.6	20.7	
	21.9	23.1	24.0	24.4	24.4	24.1	23.5	22.7	21.9	21.1	20.7	20.3	
8/ 9	19.9	19.6	19.3	19.0	18.7	18.4	18.2	18.0	18.1	18.3	18.9	20.9	
	21.8	21.3	20.4	19.6	19.2	19.2	21.9	22.5	22.0	21.5	21.0	20.7	
8/10	20.3	20.0	19.7	19.4	19.2	19.0	18.7	18.5	18.5	18.6	19.1	20.1	
	21.3	22.5	23.2	23.1	23.0	23.0	23.7	23.4	22.9	22.2	21.6	20.6	
8/11	20.8	20.5	20.2	19.9	19.6	19.4	19.1	18.9	18.7	18.8	19.0	19.6	
	20.6	21.8	22.5	22.7	22.8	22.1	22.6	23.0	23.5	23.0	22.7	22.2	
8/12	21.7	21.3	21.1	20.9	20.6	20.4	20.1	19.9	19.6	19.4	19.5	19.8	
	20.5	21.7	23.0	23.4	22.7	22.1	22.5	22.9	23.2	23.0	22.3	21.7	
8/13	21.2	20.8	19.5	18.9	18.8	18.6	18.5	18.9	19.8	20.9	22.1	23.0	
	23.3	23.1	22.8	22.7	22.8	22.9	22.3	21.6	21.0	20.7	20.4	20.0	
8/14	19.7	19.5	19.3	19.1	18.8	18.7	18.5	18.6	19.0	19.8	20.9	22.1	
	22.9	23.2	22.5	22.1	22.3	22.6	22.5	21.8	21.1	20.7	20.3	20.1	
8/15	19.8	19.5	19.2	19.2	19.0	18.7	18.4	18.3	18.4	19.0	19.9	21.1	
	22.3	22.9	22.9	22.6	22.6	22.8	22.7	22.7	21.6	21.1	20.8	20.4	
8/16	20.0	19.7	19.5	19.3	19.1	18.8	18.6	18.4	18.3	18.5	18.8	19.4	
	****	22.6	23.2	23.8	23.9	23.9	23.5	22.8	22.1	21.4	21.0	20.6	
8/17	20.3	20.1	20.0	19.8	19.6	19.5	19.4	19.3	19.3	19.4	19.7	20.0	
	20.2	20.2	20.2	20.2	20.2	20.0	20.0	19.8	19.5	19.4	19.4	19.3	
8/18	19.1	19.0	19.0	18.9	18.8	18.7	18.7	18.7	18.6	18.6	18.6	18.6	
	****	21.5	22.1	22.5	23.4	22.6	21.7	21.2	20.6	20.1	19.7	19.3	
8/19	19.0	18.8	18.5	18.2	18.1	17.8	17.7	17.5	17.3	17.3	17.6	18.2	
	19.0	20.0	21.0	21.8	22.6	22.8	22.5	22.1	21.4	20.7	20.1	19.7	
8/20	19.3	19.0	18.8	18.6	18.4	18.2	18.0	17.8	17.6	17.7	17.9	18.4	
	19.4	20.5	21.7	22.6	23.0	23.2	23.0	22.3	21.7	21.1	20.6	20.2	
8/21	19.8	19.6	19.3	19.1	18.8	18.6	18.5	18.3	18.2	18.2	18.7	19.5	
	20.6	21.7	22.7	23.3	23.6	23.5	23.1	22.3	21.5	21.0	20.6	20.1	
8/22	19.8	19.5	19.2	18.9	18.8	18.7	18.6	18.5	18.5	18.7	19.2	20.2	
	21.6	22.6	23.3	23.5	23.5	23.3	22.6	21.9	21.2	20.7	20.2	19.9	
8/23	19.6	19.3	19.0	18.8	18.6	18.4	18.4	18.3	18.4	18.8	19.6	20.6	
	21.6	22.4	22.9	23.2	23.3	23.0	22.4	21.9	21.4	20.9	20.6	20.4	
8/24	20.2	19.9	19.7	19.4	19.2	19.0	18.8	18.7	18.9	19.5	20.4	21.5	
	22.6	23.6	24.3	24.5	24.3	23.8	23.0	22.2	21.5	20.9	20.5	20.2	
8/25	19.8	19.4	19.1	18.8	18.5	18.3	18.0	17.9	18.1	18.7	19.7	20.8	
	22.0	23.0	23.6	23.9	23.7	23.2	22.5	21.9	21.3	20.8	20.4	20.0	
8/26	19.6	19.2	19.0	18.8	18.6	18.3	18.2	18.1	18.3	18.9	19.9	21.0	
	22.0	22.5	22.7	22.5	22.1	21.5	20.9	20.3	19.8	19.6	19.4	19.2	
8/27	19.1	19.0	18.9	18.8	18.7	18.6	18.5	18.6	18.7	18.9	19.2	19.7	
	20.2	20.7	20.9	20.9	20.6	20.0	19.5	19.2	19.0	18.8	18.7	18.4	
8/28	18.2	18.2	18.1	17.8	17.6	17.2	16.9	16.8	17.0	17.3	17.6	17.9	
	18.1	19.7	20.7	19.8	19.2	18.6	18.1	17.6	17.4	17.3	17.2	17.1	
8/29	16.9	16.8	16.7	16.6	16.5	16.5	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

STATION 7--20.40 MILES DOWNSTREAM FROM HEADWATERS

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.												
6/11	****	****	****	****	****	****	****	****	17.9	19.0	20.3	21.5	
	22.9	23.4	24.2	24.4	24.3	23.7	23.0	22.2	21.3	20.7	20.7	22.6	
6/12	19.1	18.8	18.4	18.0	18.6	20.5	17.2	15.6	17.8	18.9	20.2	21.6	
	22.8	23.9	25.3	24.9	24.7	24.0	23.3	22.6	21.9	21.2	20.7	20.2	
6/13	19.8	19.5	19.1	18.7	18.8	20.4	18.1	18.2	18.8	19.9	21.1	22.5	
	23.7	24.4	25.1	25.2	25.4	25.3	23.7	22.7	22.0	21.4	21.0	20.5	
6/14	22.0	18.5	19.4	19.1	18.8	19.1	18.4	18.6	19.3	20.5	21.9	22.6	
	23.8	24.5	25.4	25.2	25.1	24.5	23.6	22.7	22.0	21.4	20.9	20.5	
6/15	20.1	19.7	19.3	19.0	18.8	18.5	18.4	18.5	18.9	19.9	21.1	22.3	
	23.3	24.2	25.0	25.2	25.0	24.3	23.3	22.5	21.9	21.1	20.4	19.9	
6/16	19.6	19.1	18.8	18.4	18.1	17.8	17.5	17.6	18.0	18.9	20.1	21.2	
	22.1	23.2	24.5	24.1	23.3	22.4	21.4	20.5	21.2	19.8	18.4	18.0	
6/17	17.6	17.4	17.2	17.1	16.9	16.8	16.6	16.6	16.8	17.3	18.2	19.4	
	20.4	21.3	21.9	22.5	22.4	21.1	20.0	19.3	18.5	17.9	17.4	17.1	
6/18	17.1	17.0	16.4	16.1	15.8	15.6	15.5	15.5	16.1	16.9	18.1	19.3	
	20.3	21.2	21.9	22.2	21.9	21.1	20.3	19.5	18.7	18.1	17.8	18.2	
6/19	17.0	16.7	16.9	20.7	16.2	16.3	16.1	16.3	16.6	17.5	18.7	20.0	
	21.1	21.9	22.5	22.7	22.5	21.8	21.3	20.5	19.7	19.0	18.5	18.1	
6/20	17.8	17.5	17.2	16.8	16.6	16.4	16.4	16.5	17.1	18.2	19.4	20.6	
	21.7	22.6	23.2	23.5	23.2	22.5	21.6	20.7	20.0	19.6	18.8	18.3	
6/21	18.0	17.5	17.2	16.8	16.5	16.2	16.0	16.0	16.6	17.7	19.1	20.2	
	21.3	22.3	22.9	23.2	23.8	21.9	20.9	20.1	19.3	19.1	18.4	18.0	
6/22	17.6	17.3	17.0	16.6	16.2	16.1	15.9	16.1	16.7	18.0	19.3	20.5	
	21.2	21.9	21.7	21.3	21.0	20.4	19.5	18.9	18.3	19.1	17.5	17.2	
6/23	17.0	16.6	16.3	16.0	15.8	15.6	15.7	16.0	16.6	17.0	18.5	16.7	
	17.5	18.0	18.5	18.2	18.0	17.8	17.2	17.1	****	****	****	****	
6/24	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
6/25	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	21.7	****	****	****	****	****	****	****	
6/26	16.2	****	****	****	****	****	****	****	****	17.6	18.1	19.4	
	20.5	21.6	21.5	21.7	21.3	20.2	19.4	18.4	18.2	18.0	17.3	17.5	
6/27	16.6	16.2	16.6	16.2	15.9	15.9	16.1	15.5	16.3	17.1	18.5	19.3	
	20.3	20.9	21.4	21.5	21.2	20.3	19.3	18.2	17.9	17.9	17.2	16.9	
6/28	16.6	17.0	16.4	16.3	15.9	16.2	16.0	15.8	15.7	16.1	15.8	15.7	
	15.8	15.6	15.7	****	****	****	****	****	****	****	****	****	
6/29	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
6/30	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
7/ 1	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	16.5	16.7	16.8	16.8	16.8	16.8	
7/ 2	16.7	16.8	16.7	16.6	16.6	16.5	16.5	16.4	16.3	16.3	16.2	16.2	
	16.2	16.3	16.3	16.4	16.6	16.7	16.9	17.0	17.1	17.1	17.2	17.1	
7/ 3	17.2	17.1	17.1	17.0	16.9	16.9	16.8	17.0	16.8	16.7	16.7	16.6	
	16.7	16.7	16.7	16.8	16.9	17.1	17.3	17.5	17.5	17.6	17.7	17.8	
7/ 4	17.7	17.8	17.7	17.7	17.5	17.4	17.4	17.3	17.2	17.1	17.1	17.1	
	17.0	17.0	17.1	17.1	17.1	17.3	17.4	17.5	17.5	17.6	17.7	17.6	
7/ 5	17.7	17.6	17.5	17.4	17.4	17.3	17.2	17.3	17.3	17.1	17.0	17.0	
	16.9	16.9	16.9	16.9	17.1	17.2	17.3	17.5	17.6	17.7	17.8	17.9	
7/ 6	17.9	17.9	17.9	17.8	17.7	17.8	17.6	17.5	17.4	17.3	17.2	17.2	
	17.2	17.2	17.2	17.3	17.4	17.7	18.0	18.1	18.2	18.3	18.3	18.4	
7/ 7	18.3	18.4	18.4	18.3	18.2	18.1	18.0	17.8	17.8	17.6	17.6	17.4	
	17.5	17.5	17.5	17.7	17.8	18.1	18.4	18.5	18.6	18.6	18.6	18.5	



TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1100 A.M.											
8/ 4	23.3	23.0	22.7	22.3	21.9	21.6	21.2	20.9	20.8	20.8	21.0	21.7
	22.0	22.5	23.2	23.8	24.5	25.4	24.7	24.3	24.0	23.6	23.2	23.1
8/ 5	22.8	22.5	22.2	22.3	21.8	21.4	21.2	21.2	21.3	21.1	21.3	21.9
	22.5	22.9	23.3	23.8	24.0	23.8	23.7	23.7	23.5	23.3	23.1	22.7
8/ 6	22.3	21.9	21.5	21.1	20.6	20.4	20.7	20.1	19.9	19.9	20.2	20.5
	21.1	21.3	***	***	22.1	22.2	22.1	21.9	21.8	21.7	21.3	21.0
8/ 7	20.6	20.1	19.7	19.5	19.2	18.9	18.6	18.4	18.5	18.6	18.8	19.2
	19.6	20.1	20.7	21.2	21.5	21.6	21.5	21.4	21.3	21.3	21.1	20.8
8/ 8	20.5	20.2	19.9	19.7	19.4	19.2	19.0	18.9	18.9	19.1	19.3	19.7
	20.3	20.8	21.5	22.1	22.6	22.8	22.9	22.7	22.7	22.6	22.4	22.1
8/ 9	21.8	21.5	21.2	21.0	20.6	20.2	19.9	19.6	19.6	19.7	***	20.4
	21.0	21.6	22.2	22.8	23.2	23.4	23.5	23.3	23.2	23.1	22.7	22.4
8/10	22.2	21.9	21.6	21.3	21.0	20.6	20.3	20.1	20.0	20.2	20.4	20.6
	21.0	21.7	22.3	22.8	23.2	23.1	23.7	23.3	23.3	23.1	22.9	22.6
8/11	22.4	22.1	21.8	21.4	21.1	20.8	20.5	20.4	20.4	20.5	20.8	***
	***	***	***	***	22.3	22.9	22.5	***	***	***	***	***
8/12	***	***	***	***	***	***	***	***	***	***	***	***
	***	***	23.5	23.7	23.7	23.6	23.2	22.5	21.2	21.0	20.8	***
8/13	***	***	***	***	***	***	***	21.1	21.3	21.8	21.8	22.4
	23.0	23.2	23.4	23.2	23.4	23.8	23.2	23.3	21.3	20.1	20.1	20.0
8/14	***	***	***	***	***	***	***	***	***	***	***	***
	21.0	21.5	21.6	***	23.3	23.3	23.2	***	***	***	***	***
8/15	20.1	20.1	20.1	20.8	21.1	21.1	21.0	21.1	21.1	21.3	21.6	22.4
	22.6	22.8	22.9	22.8	22.8	22.9	***	***	***	***	***	***
8/16	***	***	***	***	***	***	***	20.4	20.4	20.4	20.7	20.8
	***	21.1	21.4	21.5	21.7	22.2	22.5	22.4	22.5	22.6	22.5	22.4
8/17	22.7	22.5	22.9	21.6	21.4	21.1	21.2	21.5	21.3	21.2	21.2	21.0
	19.6	17.6	21.1	21.1	20.9	20.8	20.8	20.9	20.9	21.0	21.0	20.9
8/18	20.4	20.3	20.1	20.0	20.0	19.9	19.6	19.5	19.5	19.6	19.4	20.1
	20.3	20.8	21.0	21.3	21.7	21.9	22.2	22.3	22.4	22.0	21.9	21.8
8/19	21.6	21.3	21.0	20.7	20.5	20.0	19.8	19.3	19.1	18.9	18.9	19.0
	19.3	20.0	20.3	20.6	21.3	21.7	21.9	22.0	21.9	21.9	22.2	22.5
8/20	21.4	21.2	20.9	20.6	20.4	20.2	19.8	19.5	19.3	19.2	19.2	19.5
	19.9	20.4	19.3	17.8	21.6	22.1	22.4	22.4	22.4	22.3	22.5	22.4
8/21	21.9	21.8	21.6	21.2	21.0	20.7	20.4	20.2	20.1	20.0	20.1	20.2
	20.4	20.9	21.4	22.0	22.3	22.5	22.7	22.8	23.0	22.8	22.7	22.6
8/22	22.4	22.1	21.8	21.5	19.7	17.5	20.7	20.4	20.3	20.3	20.4	20.5
	21.7	21.7	22.5	22.8	22.7	22.8	22.8	22.5	22.6	22.5	22.3	22.1
8/23	21.9	21.6	21.4	21.1	20.8	20.5	20.3	20.0	19.9	20.1	20.4	20.9
	21.5	21.4	22.0	22.1	22.4	22.3	22.3	22.5	22.6	22.6	22.5	22.3
8/24	22.0	21.8	21.7	21.5	21.1	21.0	20.8	20.5	20.6	20.9	21.1	21.4
	22.3	23.4	23.8	24.0	23.4	23.3	23.2	23.7	23.0	22.8	22.6	22.4
8/25	21.9	21.7	21.5	21.0	20.7	20.3	20.1	20.1	20.2	20.3	20.5	21.4
	22.2	23.0	22.9	22.6	22.6	22.6	22.6	22.4	22.2	22.0	21.8	21.6
8/26	21.4	21.2	20.8	20.6	20.3	20.1	20.1	20.4	20.6	20.8	21.0	21.2
	21.3	21.6	21.7	21.6	21.6	21.6	21.5	21.4	21.3	21.1	20.9	20.8
8/27	20.6	20.3	20.1	19.9	19.8	19.8	19.7	19.7	19.7	20.0	20.1	20.2
	20.1	20.2	20.2	20.3	20.3	20.4	20.4	20.3	20.1	19.9	19.7	19.5
8/28	19.3	19.1	18.9	18.7	18.5	18.3	18.5	18.7	19.0	19.4	19.6	20.1
	20.5	21.0	21.3	21.4	21.3	20.9	20.8	20.7	20.5	20.3	19.9	19.7
8/29	19.3	19.1	18.8	18.4	18.1	17.9	17.7	17.5	17.7	18.0	18.3	18.8
	18.9	19.6	19.9	20.3	20.4	20.4	20.7	20.7	20.5	20.2	20.0	19.7
8/30	19.4	19.2	18.9	18.6	18.2	18.0	17.8	17.6	17.6	18.0	18.3	18.8
	***	***	***	***	***	***	***	***	***	***	***	***

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

STATION 8--HONEYDEW CREEK

DATE	HOURLY DATA BEGINNING AT 1100 A.M.											
7/11	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	24.8	23.8	22.7	21.7	20.2	19.1	18.4	17.9
7/12	17.5	17.1	16.7	16.4	16.1	15.9	15.7	15.8	16.4	17.7	19.4	21.0
	22.4	23.3	23.8	24.0	23.7	22.9	21.9	20.6	19.3	18.4	18.0	17.5
7/13	17.2	16.9	16.6	16.4	16.2	16.0	15.8	15.8	15.9	17.2	19.0	20.9
	21.9	23.3	23.7	24.0	24.2	23.5	22.6	21.4	19.9	18.9	18.3	17.8
7/14	17.4	17.0	16.7	16.5	16.4	16.7	16.7	16.2	16.2	17.3	18.7	21.1
	21.7	23.0	22.8	22.4	22.1	21.6	20.8	19.9	19.1	18.6	18.3	18.1
7/15	17.9	17.8	17.7	17.5	17.4	17.4	17.3	17.4	17.9	18.2	18.6	19.2
	19.9	20.8	21.2	21.0	20.3	19.8	19.3	18.8	18.3	17.8	17.5	17.1
7/16	16.9	16.7	16.4	16.2	16.0	15.8	15.8	16.0	17.1	18.7	20.5	22.1
	23.4	24.1	24.4	24.3	23.7	22.7	21.5	20.3	19.3	18.5	18.0	17.5
7/17	17.1	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/18	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/19	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/20	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/21	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/22	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/23	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/24	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/25	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/26	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/27	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	26.2	25.5	24.5	23.3	22.2	21.6	21.1	20.4
7/28	20.2	20.0	19.7	19.4	19.2	19.1	19.0	19.1	19.5	20.9	22.6	24.5
	25.5	26.2	26.3	26.5	25.8	24.9	23.8	22.9	22.0	21.6	20.9	20.6
7/29	20.2	19.7	19.2	18.9	18.5	18.5	18.2	18.1	19.4	20.0	20.7	21.8
	22.7	23.5	23.8	23.5	22.8	22.1	20.8	19.6	18.8	****	****	****
7/30	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/31	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
8/ 1	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
8/ 2	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
8/ 3	****	****	****	****	****	****	****	****	****	****	****	****
	25.2	25.9	26.7	26.9	26.2	25.1	24.2	23.4	22.1	21.6	21.6	21.1
8/ 4	21.0	20.9	20.5	20.4	****	****	18.7	18.8	19.2	20.0	21.7	23.2
	24.5	25.3	25.7	25.8	25.5	24.8	23.9	22.9	21.8	20.9	20.4	19.9
8/ 5	19.4	19.2	19.1	19.0	18.4	18.3	18.0	17.8	17.9	18.9	20.8	22.3
	23.6	24.5	24.9	25.2	24.8	24.0	23.1	21.8	20.7	19.9	19.4	19.0
8/ 6	18.7	18.2	18.0	17.7	17.5	17.3	17.3	17.5	18.0	18.5	19.9	21.3
	22.5	23.1	23.8	23.3	22.8	22.1	21.3	20.0	19.8	18.7	18.2	18.0

TABLE 3.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1100 A.M.												
8/ 7	17.7	17.6	17.4	17.3	17.1	16.9	16.6	16.5	16.8	17.0	19.5	21.1	
	22.5	23.7	24.2	24.1	24.0	23.3	22.3	21.0	19.9	19.4	19.0	18.7	
8/ 8	18.4	18.3	18.1	17.9	17.7	17.5	17.4	17.3	17.5	18.4	20.2	21.8	
	23.2	24.2	24.7	24.9	24.6	24.0	23.4	22.4	21.1	20.5	19.8	19.4	
8/ 9	19.0	18.6	18.2	18.0	17.8	17.6	17.4	17.2	17.4	18.1	19.8	21.6	
	23.0	24.2	24.4	24.5	24.0	23.3	22.3	21.4	20.5	19.9	19.4	19.0	
8/10	18.7	18.4	18.1	17.9	17.8	17.6	17.5	17.4	17.7	18.7	20.5	22.0	
	23.7	23.9	24.4	24.4	24.1	23.4	22.6	21.6	20.8	20.7	19.7	19.3	
8/11	19.1	18.7	18.4	18.2	18.0	17.8	17.6	17.6	17.8	18.6	20.4	22.0	
	23.0	23.8	24.3	24.4	24.2	23.4	22.7	21.7	20.8	19.9	19.5	19.1	
8/12	18.8	18.5	18.3	18.1	17.9	17.7	17.6	17.5	17.7	18.2	19.9	21.3	
	22.5	23.3	23.7	23.8	23.3	22.4	21.5	20.6	19.8	19.2	18.7	18.3	
8/13	18.1	17.7	17.8	17.8	17.7	17.6	17.5	17.5	17.4	17.9	19.3	21.0	
	22.3	23.1	23.7	23.9	23.7	23.1	22.2	21.2	20.4	19.7	19.2	18.9	
8/14	18.4	18.1	17.8	17.6	17.4	17.3	17.1	17.0	17.1	17.8	19.4	21.1	
	22.5	23.4	23.7	24.0	23.7	23.1	22.3	21.7	20.3	19.6	19.1	18.7	
8/15	18.3	18.0	17.8	17.6	17.4	17.2	17.0	16.9	17.0	17.5	19.2	20.8	
	22.0	22.9	23.3	23.7	23.5	23.0	22.0	21.2	20.3	19.6	19.2	18.8	
8/16	18.4	18.1	17.9	17.6	17.4	17.3	17.2	17.0	17.0	17.6	19.0	20.7	
	21.9	22.9	****	****	****	****	22.2	21.3	20.5	20.0	19.6	19.3	
8/17	19.1	18.9	18.8	18.5	18.5	18.6	18.5	18.7	18.8	19.5	20.1	20.1	
	20.2	21.1	22.1	21.8	21.6	21.4	21.1	20.2	19.4	19.1	19.0	18.9	
8/18	18.8	18.7	18.5	18.4	18.4	18.4	18.3	18.5	18.6	19.0	20.2	21.2	
	22.4	23.1	23.7	24.0	23.6	22.6	21.7	20.5	19.6	19.0	18.7	18.4	
8/19	18.2	17.7	17.2	17.2	17.1	16.9	16.7	16.9	16.8	17.5	19.7	21.0	
	22.4	23.4	23.6	23.8	23.3	22.7	21.7	20.7	20.0	19.0	18.6	18.0	
8/20	17.4	16.7	16.5	16.1	15.6	15.1	14.7	14.6	14.5	13.7	14.3	17.7	
	19.1	22.5	24.1	24.1	23.8	23.1	22.3	21.7	20.8	20.2	19.7	19.4	
8/21	19.2	18.9	18.5	18.3	18.1	17.9	17.7	17.9	18.0	18.5	19.9	21.4	
	22.8	23.8	24.3	24.4	24.0	23.2	22.7	21.3	20.6	19.9	19.6	19.2	
8/22	18.8	18.7	18.4	18.0	18.0	18.0	17.5	17.4	17.4	18.1	19.5	21.1	
	23.2	24.1	24.3	24.4	24.4	24.7	22.5	21.6	20.5	19.9	19.7	19.2	
8/23	18.9	18.6	18.4	18.0	18.1	18.1	17.7	18.3	18.0	18.6	19.8	21.0	
	22.7	23.8	23.9	24.1	23.8	23.4	22.2	21.3	20.8	20.7	20.2	19.5	
8/24	19.3	19.1	19.0	18.9	18.5	18.3	18.1	18.3	18.3	19.1	21.0	22.7	
	23.8	24.7	25.1	25.1	24.7	23.8	22.7	21.7	21.0	20.4	19.7	19.3	
8/25	19.1	18.6	18.2	17.9	17.7	17.4	17.2	17.1	17.3	18.2	19.8	21.6	
	23.0	23.9	24.3	24.4	24.0	23.3	22.4	21.4	20.7	20.2	20.0	19.1	
8/26	18.7	18.6	18.1	18.1	18.2	17.9	17.5	17.5	17.6	18.1	19.4	21.5	
	22.0	23.1	23.3	23.1	23.0	22.5	21.4	20.8	20.0	19.6	19.2	18.7	
8/27	18.8	18.5	18.4	18.3	18.2	18.3	18.1	17.8	18.2	18.5	19.6	21.0	
	19.8	19.7	19.6	19.5	19.8	20.7	20.7	20.6	20.4	20.2	19.8	19.7	
8/28	19.7	19.7	19.4	19.3	19.1	18.9	18.6	18.6	18.4	19.0	19.5	20.3	
	20.6	22.0	23.2	23.3	22.8	22.2	21.1	20.2	19.4	18.7	18.3	17.9	
8/29	17.5	17.2	17.2	17.0	16.7	16.3	16.2	16.1	16.1	16.8	18.4	19.9	
	21.0	21.8	22.4	22.9	22.7	22.0	21.1	20.1	19.2	18.8	18.3	18.0	
8/30	17.5	17.2	16.8	16.7	16.9	16.6	16.2	16.0	15.9	16.7	18.2	****	
	****	****	****	****	****	****	****	****	****	****	****	****	

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

STATION 9--38.84 MILES DOWNSTREAM FROM HEADWATERS

DATE HOURLY DATA BEGINNING AT 1:00 A.M.

6/23	****	****	****	****	****	****	****	****	****	****	****	****
6/24	18.5	17.7	17.1	16.9	16.9	16.8	16.7	16.7	17.4	18.0	18.0	18.3
	18.7	19.5	20.4	20.6	20.3	19.6	19.1	18.2	17.5	17.0	16.8	16.6
6/25	16.4	16.2	16.1	15.8	15.6	15.4	15.3	15.3	16.2	17.4	18.7	20.1
	21.4	22.4	22.8	23.0	22.8	22.2	21.5	21.0	19.2	18.5	18.0	17.6
6/26	17.3	17.3	17.4	16.8	17.0	16.4	16.3	16.4	17.4	17.7	18.8	20.1
	21.4	22.5	23.0	23.2	22.9	22.3	21.3	20.2	19.0	18.1	17.6	17.1
6/27	16.8	16.5	16.2	16.0	15.7	15.6	15.4	15.7	16.4	17.5	18.6	19.7
	21.0	22.1	22.9	23.3	23.2	22.7	21.8	20.7	19.6	18.6	17.9	17.4
6/28	17.0	16.6	16.3	16.0	15.8	15.5	15.4	15.7	16.5	17.6	18.8	20.1
	21.5	22.6	23.3	23.6	23.6	23.3	22.4	21.1	19.8	18.7	18.0	17.6
6/29	17.2	16.8	16.4	16.1	15.8	15.5	15.4	15.5	16.2	17.3	18.5	19.8
	21.4	22.5	23.7	23.6	23.5	23.0	22.1	20.9	19.7	18.6	18.1	17.6
6/30	17.7	17.0	16.7	16.5	16.7	16.0	15.9	15.9	16.5	17.1	18.5	19.4
	19.9	21.3	22.5	22.9	22.8	22.4	21.7	20.5	19.3	18.2	17.6	17.2
7/ 1	16.8	16.5	16.2	15.8	15.5	15.3	15.1	15.6	15.9	16.8	17.5	18.6
	19.8	20.9	22.4	22.9	22.9	22.5	21.6	20.5	19.4	18.4	17.8	17.4
7/ 2	17.0	16.6	16.2	15.9	15.6	15.7	15.5	15.7	16.7	17.8	18.8	20.5
	22.0	23.2	24.3	24.3	24.0	23.5	22.6	21.1	20.0	19.1	18.2	17.8
7/ 3	17.6	17.4	17.2	16.9	17.1	17.4	16.5	16.7	17.3	18.5	20.1	21.8
	22.4	23.6	24.5	24.6	24.8	24.5	23.7	22.6	21.1	20.0	19.1	18.5
7/ 4	17.5	17.8	17.4	17.1	16.9	16.6	16.4	16.6	16.9	18.1	19.2	21.1
	22.7	24.0	24.6	25.0	23.8	23.0	22.8	20.9	20.1	19.2	18.9	18.2
7/ 5	17.8	17.6	17.3	16.9	17.5	16.6	16.3	16.5	17.0	18.1	19.4	20.8
	22.2	23.5	24.6	25.3	25.4	25.3	24.6	17.3	19.3	21.0	20.1	19.6
7/ 6	19.9	19.8	19.4	19.0	18.8	18.7	17.7	17.1	17.7	18.7	20.0	21.3
	22.7	24.0	24.9	25.3	25.4	25.1	24.4	23.4	22.3	21.3	20.5	19.8
7/ 7	19.4	19.0	19.1	19.1	18.5	18.5	18.5	18.3	18.6	19.2	20.5	22.1
	21.9	23.5	24.5	25.2	25.2	24.9	24.3	23.4	22.3	21.2	20.6	20.4
7/ 8	20.0	20.0	19.1	18.8	18.9	17.6	17.3	17.7	17.8	18.8	20.0	21.4
	****	****	****	****	****	****	****	****	****	****	****	****
7/ 9	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/10	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/11	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	26.6	26.1	25.2	24.1	22.8	21.7	20.9	20.3
7/12	19.9	19.4	19.0	18.7	18.3	18.1	18.0	18.7	19.1	20.1	21.2	22.3
	23.5	24.8	25.3	25.7	25.4	24.9	23.9	22.7	21.5	20.6	20.1	19.8
7/13	19.2	18.9	18.7	18.3	18.2	17.9	17.7	18.1	19.0	20.1	21.3	22.5
	23.7	24.7	25.2	25.6	25.9	25.5	24.8	23.8	22.3	21.2	20.6	20.2
7/14	19.7	19.2	18.9	18.6	18.4	18.2	18.0	18.4	19.3	20.2	21.2	22.0
	22.9	22.9	23.5	23.9	24.1	23.9	23.2	22.4	21.5	21.0	20.5	20.2
7/15	19.9	19.8	19.7	19.5	19.4	19.3	19.2	19.3	19.7	20.2	20.5	21.0
	21.6	22.5	23.5	23.8	23.1	22.4	21.7	21.2	20.6	20.2	19.8	19.4
7/16	19.5	18.9	18.6	18.3	18.1	18.0	17.9	18.3	19.1	20.0	21.2	22.4
	23.9	24.9	25.7	26.0	25.9	25.4	24.5	23.4	22.2	21.3	20.7	20.2
7/17	19.7	19.3	18.9	18.6	18.3	18.1	17.9	17.9	18.7	20.0	21.1	22.5
	23.8	24.9	25.6	26.1	26.7	25.8	25.1	24.2	23.2	22.2	21.4	20.9
7/18	20.3	19.9	19.6	19.2	19.0	18.8	18.6	18.6	19.3	20.3	21.5	22.8
	23.9	24.9	25.6	25.8	25.8	25.4	24.7	23.8	22.7	21.8	21.2	20.8
7/19	20.5	20.2	19.9	19.6	19.4	19.1	18.9	19.0	19.7	20.6	21.8	23.0
	24.1	25.0	25.7	26.2	26.5	25.8	25.2	24.4	23.4	22.4	21.6	21.1



TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.												
7/20	20.6	20.3	19.9	19.6	19.4	19.2	19.0	19.2	19.9	20.9	22.1	23.2	
	24.6	25.7	26.6	27.2	27.1	26.6	25.9	24.9	23.9	22.9	22.1	21.6	
7/21	21.2	20.7	20.3	19.9	19.6	19.3	19.1	19.7	19.8	20.7	21.8	23.1	
	24.3	25.3	26.1	26.6	29.1	28.5	25.4	24.6	23.8	22.9	21.9	21.5	
7/22	21.1	20.9	20.8	20.6	19.9	19.3	18.8	19.0	19.8	20.8	22.0	23.5	
	24.9	26.0	26.8	27.2	27.4	27.1	26.4	25.4	24.5	23.5	22.7	18.4	
7/23	19.3	21.0	20.6	20.2	19.8	19.5	19.3	19.3	19.9	20.8	22.1	23.5	
	24.8	26.0	27.1	27.6	27.6	27.4	26.6	25.5	24.3	23.3	22.6	22.0	
7/24	21.5	21.0	20.5	20.2	19.9	19.6	19.4	19.4	19.9	20.8	22.1	23.6	
	24.9	26.0	26.8	27.4	27.6	27.4	26.6	25.5	24.4	23.3	22.4	21.7	
7/25	21.2	20.8	20.5	20.0	19.8	19.6	19.3	19.3	19.8	20.8	22.1	23.4	
	24.7	25.9	26.8	27.3	27.6	27.3	26.7	25.9	25.0	24.1	23.3	22.6	
7/26	22.0	21.5	21.1	20.6	20.3	19.9	19.8	19.6	20.0	20.9	22.1	23.4	
	24.9	25.9	26.9	27.6	27.9	27.9	27.5	26.5	25.5	24.5	23.6	22.9	
7/27	22.3	21.9	21.4	21.1	20.8	20.4	20.1	20.1	20.4	21.2	22.2	23.5	
	24.6	26.5	27.3	27.7	27.7	26.4	25.4	24.4	23.4	22.7	22.3	21.8	
7/28	21.3	21.0	20.6	20.3	20.0	19.9	19.8	19.8	20.5	22.3	23.5	24.7	
	25.8	26.6	27.3	27.5	27.3	26.4	25.5	24.5	23.7	22.8	22.1	21.5	
7/29	20.9	20.1	19.6	19.2	18.9	18.7	18.9	19.3	19.8	20.5	21.5	22.5	
	23.5	24.3	24.7	24.4	23.5	22.6	21.6	20.1	19.1	18.5	18.1	18.1	
7/30	18.2	18.1	18.0	17.8	17.7	17.8	18.2	19.5	20.7	21.8	22.9	23.9	
	24.6	24.9	24.8	24.3	23.5	22.4	21.5	20.7	20.1	19.7	19.2	18.9	
7/31	18.5	18.2	18.0	17.8	18.7	****	****	****	****	****	****	****	
	****	24.8	25.7	26.4	26.5	26.2	25.5	24.9	21.5	20.6	20.2	19.8	
8/ 1	19.5	19.2	18.9	18.7	18.4	18.3	19.0	20.0	21.2	22.6	23.9	25.1	
	25.9	26.5	26.8	26.8	25.3	24.5	23.8	22.9	22.2	21.6	21.2	20.8	
8/ 2	20.8	20.1	19.8	19.5	19.2	19.1	19.1	19.5	20.5	21.7	24.0	25.2	
	26.1	26.7	27.0	27.0	26.7	25.9	25.0	24.7	23.6	22.7	22.0	21.5	
8/ 3	21.1	20.7	20.4	20.1	19.7	19.5	19.7	19.0	19.0	19.1	19.5	20.6	
	21.7	26.0	26.8	27.4	27.3	26.8	25.8	24.9	23.9	22.8	21.9	21.3	
8/ 4	20.8	20.4	19.9	19.6	19.2	19.0	18.8	18.9	19.6	20.7	21.9	23.3	
	24.7	25.8	26.6	27.1	27.0	26.5	25.7	24.8	23.8	22.8	22.0	21.4	
8/ 5	20.8	20.4	20.0	19.7	19.3	19.1	18.9	18.9	19.5	20.5	21.8	23.1	
	24.3	25.3	26.0	26.3	26.3	25.7	24.6	23.3	22.2	21.3	20.6	20.1	
8/ 6	19.8	19.5	19.2	18.8	18.5	18.3	18.2	18.3	18.7	19.6	20.8	21.8	
	22.9	23.9	24.7	24.3	****	23.4	22.6	21.5	20.3	19.4	18.8	18.4	
8/ 7	18.2	18.1	18.0	17.8	17.6	17.4	17.2	17.4	18.1	19.3	20.6	21.9	
	23.2	24.3	25.0	25.3	25.3	24.9	23.9	22.8	21.8	20.9	20.3	20.0	
8/ 8	19.6	19.4	20.0	19.7	18.5	18.3	18.2	18.5	19.3	20.4	21.7	23.0	
	24.2	25.1	25.7	26.1	26.0	25.9	25.0	23.5	22.6	21.7	21.0	20.6	
8/ 9	20.2	19.8	19.3	19.0	18.7	18.5	18.3	18.5	19.3	20.4	21.7	23.1	
	24.3	25.2	26.0	26.2	26.3	25.7	24.9	23.9	22.9	22.1	21.4	20.8	
8/10	20.3	19.9	19.6	19.3	19.1	18.9	18.7	18.6	19.3	20.3	21.6	22.9	
	24.1	24.9	25.6	26.0	26.0	25.6	24.8	24.1	23.2	22.4	21.6	21.1	
8/11	20.6	20.1	19.8	19.5	19.2	18.9	18.7	18.8	19.4	20.6	21.9	23.2	
	24.4	25.3	26.0	26.4	26.4	25.9	25.0	24.0	23.0	22.0	21.1	20.5	
8/12	20.0	19.7	19.4	19.1	18.8	18.6	18.4	18.5	19.2	20.2	21.3	22.5	
	23.6	24.6	25.2	25.1	24.8	24.0	23.1	22.2	21.2	20.4	19.7	19.3	
8/13	19.1	18.9	18.7	18.6	18.4	18.4	18.8	18.6	19.3	20.2	21.4	22.9	
	24.4	24.9	25.4	25.5	25.2	24.4	23.5	22.5	21.7	21.0	20.5	19.9	
8/14	19.7	19.0	18.7	18.4	18.2	18.0	17.9	18.3	19.2	20.5	22.0	23.3	
	24.4	25.1	25.5	25.6	25.7	24.4	23.6	22.5	21.7	21.0	20.3	19.8	
8/15	19.3	19.0	18.7	18.4	18.1	17.9	17.8	18.2	19.2	20.5	21.9	23.0	
	24.2	25.0	25.3	25.2	24.9	24.1	23.3	22.3	21.6	20.9	20.4	19.8	

[illegible]

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

STATION 10--UPPER NORTH FORK

DATE HOURLY DATA BEGINNING AT 1100 A.M.

7/15	****	****	****	****	****	****	****	****	****	****	****	****	****
7/16	17.7	17.5	17.3	17.2	17.1	16.9	16.9	17.1	17.1	17.7	21.5	23.4	18.0
7/17	24.9	26.0	26.4	26.3	26.0	25.0	23.9	21.6	19.6	18.8	18.4	18.1	18.1
7/18	17.8	17.4	17.2	16.9	16.7	16.5	16.4	16.6	17.4	18.9	20.7	22.6	18.8
7/19	24.2	25.5	26.2	26.1	25.8	24.9	23.4	21.7	20.5	19.7	19.2	18.8	18.8
7/20	18.5	18.1	17.8	17.5	17.2	17.1	17.0	17.0	17.8	19.1	20.8	22.5	22.5
7/21	23.8	24.9	25.5	25.7	25.4	24.8	23.6	21.9	20.6	19.8	19.4	19.2	19.2
7/22	18.9	18.7	18.4	18.2	18.0	17.8	17.7	17.7	18.2	19.5	21.0	22.7	22.7
7/23	24.0	25.0	25.7	26.2	26.0	25.1	24.0	22.2	21.0	20.1	19.6	19.3	19.3
7/24	19.1	18.8	18.5	18.2	18.0	17.9	17.7	17.7	18.4	19.6	20.9	22.7	22.7
7/25	24.2	25.4	26.3	26.7	26.6	25.8	24.7	19.0	19.2	20.7	20.3	19.9	19.9
7/26	19.5	19.1	18.8	18.5	18.2	17.9	17.7	17.6	18.0	19.1	20.8	22.5	22.5
7/27	24.0	25.1	26.1	26.8	26.6	25.2	23.8	21.9	20.4	20.0	20.0	19.7	19.7
7/28	19.1	18.7	18.9	18.1	17.9	17.7	17.5	17.6	18.5	20.0	21.7	23.6	23.6
7/29	25.1	26.1	26.7	27.0	26.6	25.8	24.9	22.9	21.7	20.9	20.4	19.9	19.9
7/30	19.6	19.1	18.9	18.5	18.2	17.9	17.7	17.6	18.5	19.9	22.0	23.8	23.8
7/31	25.3	26.5	27.5	27.6	27.4	26.5	25.2	23.2	21.7	21.0	20.4	19.9	19.9
8/ 1	19.5	19.2	18.9	18.6	18.4	18.2	18.0	18.0	18.7	20.0	21.9	23.8	23.8
8/ 2	25.4	26.6	27.1	27.1	26.9	26.3	25.0	23.0	21.5	20.6	20.1	19.7	19.7
8/ 3	19.3	19.0	18.8	18.6	18.3	18.0	18.0	18.0	18.6	20.0	21.7	23.6	23.6
8/ 4	25.2	26.3	26.9	27.2	27.2	26.6	25.5	24.0	22.3	21.5	20.9	20.4	20.4
8/ 5	20.0	19.7	19.3	19.1	18.9	18.6	18.4	18.4	18.8	20.0	21.7	23.8	23.8
8/ 6	25.4	26.5	27.2	27.5	27.4	26.9	26.1	24.6	22.8	21.8	21.2	20.8	20.8
8/ 7	20.4	20.1	19.9	19.6	19.3	19.1	19.0	19.0	19.1	20.2	21.6	23.3	23.3
8/ 8	25.2	26.4	26.6	26.9	27.1	26.7	25.8	24.5	22.6	21.5	20.9	20.6	20.6
8/ 9	20.2	20.0	19.7	19.5	19.3	19.1	18.9	18.8	19.0	20.1	21.4	23.1	23.1
8/10	24.6	25.8	26.5	27.1	27.1	26.5	25.4	23.8	22.0	21.1	20.8	20.5	20.5
8/11	20.0	19.5	18.9	18.3	18.1	17.9	17.8	18.1	18.6	19.3	20.2	21.4	21.4
8/12	22.6	23.7	24.6	24.7	23.9	22.9	22.6	21.7	19.2	18.1	17.6	17.4	17.4
8/13	17.4	17.4	17.5	17.4	17.1	16.9	16.7	16.9	17.1	18.2	19.5	21.0	21.0
8/14	22.3	23.6	24.8	24.5	24.2	23.4	22.5	20.8	19.3	18.4	18.4	18.3	18.3
8/15	18.1	17.8	17.6	17.4	17.1	16.9	16.8	16.8	17.4	18.8	20.6	22.4	22.4
8/16	24.4	25.8	26.4	26.7	26.5	25.4	24.2	22.1	20.9	20.2	19.5	19.1	19.1
8/17	18.8	18.5	18.3	18.1	17.8	17.6	17.5	17.5	18.1	19.7	21.5	23.6	23.6
8/18	25.3	26.2	26.7	27.2	26.8	26.0	24.7	22.9	22.3	21.0	20.3	19.8	19.8
8/19	19.5	19.2	19.0	18.7	18.5	18.3	18.2	18.3	19.0	20.4	22.2	23.9	23.9
8/20	25.3	26.4	27.1	27.4	26.9	25.9	24.1	21.9	21.2	20.6	20.1	19.8	19.8
8/21	19.7	19.3	19.0	18.7	18.6	18.6	19.2	18.2	19.1	20.8	22.6	24.4	24.4
8/22	****	27.1	27.5	27.4	26.7	25.6	23.9	22.7	21.0	20.3	19.9	19.6	19.6
8/23	19.2	19.0	18.7	18.4	18.3	18.1	18.0	18.1	18.9	20.5	22.4	24.4	24.4
8/24	25.9	26.9	27.3	27.6	27.2	26.0	24.2	22.2	21.0	20.5	20.0	19.5	19.5
8/25	19.2	19.0	18.7	18.5	18.3	18.1	18.0	18.1	18.8	20.3	22.3	24.0	24.0
8/26	25.3	26.3	26.8	26.8	26.2	25.2	23.9	21.1	19.6	18.9	18.7	18.6	18.6
8/27	18.2	18.0	17.9	17.7	17.4	17.6	18.2	18.5	19.5	21.3	22.9	23.9	23.9
8/28	24.7	25.2	24.9	24.4	23.4	21.4	19.7	18.8	18.1	17.7	17.3	17.4	17.4
8/29	17.7	17.5	17.3	17.1	16.9	16.8	16.8	17.5	18.8	20.8	22.7	24.2	24.2
8/30	25.1	26.0	26.2	25.6	24.4	22.8	21.2	19.9	19.2	18.8	18.6	18.6	18.6
8/31	18.5	18.2	17.8	17.7	17.8	17.9	18.0	18.5	19.7	21.6	23.7	25.1	25.1
9/ 1	26.1	26.9	27.1	26.8	26.0	24.9	23.1	20.6	19.9	19.7	19.4	19.0	19.0
9/ 2	18.8	18.3	18.1	18.0	17.9	17.7	17.7	18.1	19.3	21.1	22.9	24.6	24.6
9/ 3	25.9	****	****	26.6	25.8	24.7	22.9	21.4	20.5	19.9	19.4	19.2	19.2
9/ 4	18.9	18.7	18.5	18.4	18.2	18.1	17.9	18.1	19.1	20.8	22.5	24.3	24.3
9/ 5	25.3	26.2	26.7	26.9	26.2	24.9	23.2	22.2	21.0	20.2	19.9	19.8	19.8

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.												
8/11	19.3	18.7	18.8	18.5	18.2	18.2	18.2	18.2	19.4	21.0	23.1	24.7	
	25.5	26.1	26.3	26.1	25.5	24.8	22.7	21.1	20.0	19.5	19.2	18.9	
8/12	18.6	18.4	18.5	18.2	18.1	18.1	17.9	18.0	19.0	20.5	22.4	24.2	
	25.0	25.9	25.4	24.6	24.7	22.6	20.7	19.5	18.9	18.7	18.3	18.1	
8/13	18.2	18.3	18.2	18.2	18.2	17.7	17.9	18.1	18.9	20.5	22.2	24.1	
	25.4	26.0	25.9	25.5	24.7	23.4	21.4	20.1	19.5	19.3	18.9	18.6	
8/14	18.3	18.0	17.9	17.5	17.6	17.5	17.2	18.0	19.6	21.3	23.4	24.8	
	25.6	26.1	26.1	26.0	25.0	23.2	21.2	20.1	19.5	19.2	19.0	18.4	
8/15	18.2	17.6	17.6	17.8	17.7	17.7	17.5	18.1	20.0	21.3	22.7	24.2	
	25.1	25.7	25.5	25.2	24.6	22.6	20.5	19.8	19.5	19.2	18.9	18.7	
8/16	18.5	18.3	17.8	17.9	17.8	17.4	17.8	18.5	20.5	21.9	23.5	24.8	
	26.0	26.3	****	****	****	****	22.2	21.2	19.9	19.2	19.6	19.2	
8/17	19.2	19.2	19.5	18.7	18.6	18.8	19.3	19.1	19.2	20.7	21.2	21.2	
	21.2	20.6	20.5	20.7	20.6	20.6	20.1	19.0	18.9	19.5	19.9	19.9	
8/18	19.5	19.3	19.3	19.5	19.5	19.4	19.6	20.3	20.6	20.9	21.6	23.3	
	24.4	24.8	25.2	25.4	24.9	23.4	21.8	20.3	19.1	18.7	18.5	18.2	
8/19	17.9	17.9	17.5	17.2	16.7	16.9	17.2	17.5	18.3	19.4	21.2	23.4	
	24.7	25.5	26.0	26.0	24.9	23.4	21.5	20.1	19.6	18.8	18.4	18.2	
8/20	17.9	18.0	17.6	17.7	17.3	17.3	17.3	17.2	18.3	20.1	22.1	23.6	
	25.2	26.4	27.2	26.1	25.3	24.2	21.9	20.6	20.0	19.6	19.4	19.1	
8/21	18.9	18.9	18.5	18.6	19.0	18.0	18.0	18.2	18.4	19.9	21.9	23.3	
	24.5	25.3	25.8	25.7	24.9	23.7	22.1	20.8	20.0	19.5	19.1	19.0	
8/22	18.8	18.6	18.3	18.1	17.8	17.8	17.7	17.6	18.3	19.7	21.5	23.6	
	25.2	26.2	26.6	26.3	25.4	24.7	23.1	20.7	19.6	19.2	18.9	18.6	
8/23	18.4	18.3	18.1	18.0	18.1	18.0	17.9	18.0	18.5	19.6	21.3	23.7	
	24.7	25.8	26.2	25.5	25.4	24.8	23.0	21.4	20.5	20.0	19.8	19.5	
8/24	19.2	19.0	18.9	18.7	18.5	18.4	18.3	18.4	19.3	21.0	22.9	24.7	
	26.2	27.1	27.3	26.4	24.2	22.1	20.5	19.8	19.3	18.8	18.5	18.2	
8/25	17.9	17.6	17.4	17.2	16.9	16.8	17.0	18.1	20.1	22.2	24.1	25.2	
	25.9	26.2	25.9	24.8	23.4	21.8	20.8	20.5	19.2	18.9	18.6	18.3	
8/26	18.0	17.8	17.6	17.3	17.2	17.4	17.9	18.7	20.1	21.7	23.0	23.8	
	24.4	24.8	24.6	23.7	22.0	20.2	19.2	18.6	18.3	18.2	18.3	18.2	
8/27	18.2	18.2	18.2	18.1	18.2	18.4	18.8	19.0	19.7	21.3	23.1	22.3	
	21.2	20.5	19.8	19.6	19.3	18.9	18.4	18.2	18.6	18.8	18.8	18.5	
8/28	18.2	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	25.4	24.6	23.3	21.5	19.8	18.8	18.2	17.7	17.5	
8/29	17.5	17.4	17.1	16.8	16.6	16.5	16.4	16.6	17.7	19.3	20.8	22.3	
	****	****	23.9	24.2	23.8	23.5	22.5	21.5	20.3	18.6	18.2	17.9	
8/30	17.7	17.5	17.2	17.0	16.8	16.6	16.4	16.3	16.6	17.3	19.1	****	
	****	****	****	****	****	****	****	****	****	****	****	****	



TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

STATION 12--SQUAM CREEK													
DATE	HOURLY DATA BEGINNING AT 1100 A.M.												
6/11	****	****	****	****	****	****	****	****	****	****	****	****	****
6/12	17.8	16.5	16.2	15.8	15.6	15.3	15.8	15.6	17.4	18.0	18.8	20.7	18.8
6/13	22.5	24.1	25.2	26.1	24.7	22.9	22.0	21.2	16.8	17.2	19.1	18.6	22.9
6/14	18.0	17.9	17.6	18.3	17.6	16.7	16.5	16.6	17.8	18.9	20.9	22.9	19.4
6/15	24.3	25.7	25.9	25.6	24.9	24.0	23.3	22.3	22.6	21.5	19.9	19.4	22.4
6/16	19.0	18.8	18.3	18.6	18.9	18.2	17.2	16.9	17.5	18.8	20.8	22.4	18.4
6/17	****	****	24.6	24.4	23.8	22.9	21.9	20.9	20.0	19.3	18.8	18.4	21.5
6/18	18.2	17.9	17.7	17.6	17.4	17.2	17.0	17.0	17.3	18.2	19.7	21.5	18.3
6/19	23.2	24.4	24.9	25.0	24.3	23.5	22.3	21.6	20.4	19.6	18.7	18.3	21.4
6/20	17.6	17.5	16.9	16.7	16.2	16.3	15.9	16.2	16.6	17.9	19.7	21.4	16.1
6/21	22.8	23.6	23.9	23.4	22.3	21.0	19.9	19.0	18.1	17.2	16.6	16.1	19.3
6/22	15.8	15.5	15.3	15.1	15.1	15.0	15.1	15.1	15.4	16.0	17.5	19.3	16.0
6/23	21.1	22.0	22.3	21.6	21.1	20.1	19.4	18.2	17.8	17.0	16.9	16.0	20.6
6/24	15.6	15.3	15.0	14.7	14.5	14.3	14.2	14.5	15.5	17.1	18.9	20.6	15.7
6/25	21.7	22.4	22.1	21.8	20.7	20.1	19.1	18.1	17.3	16.6	16.1	15.7	21.9
6/26	15.5	15.3	15.3	15.2	15.7	15.3	15.8	15.9	17.3	18.7	20.6	21.9	16.4
6/27	23.1	23.4	23.3	22.3	21.3	20.0	18.9	18.3	17.7	17.2	16.8	16.4	23.2
6/28	16.1	16.1	15.7	15.7	15.3	15.1	15.2	16.1	17.7	19.7	21.6	23.2	16.5
6/29	24.0	24.2	23.9	23.0	21.7	20.6	19.6	18.7	18.4	17.5	17.1	16.5	20.1
6/30	15.9	15.6	15.3	15.0	14.8	****	****	14.6	14.9	17.4	17.7	20.1	17.3
7/ 1	24.1	23.0	24.3	23.6	24.9	22.2	20.9	20.1	19.1	19.7	17.8	17.3	20.0
7/ 2	15.2	16.5	15.8	15.5	15.3	14.9	15.9	14.7	17.4	16.6	18.2	20.0	16.5
7/ 3	21.6	23.4	22.4	23.2	21.3	20.5	19.7	18.8	19.5	17.4	18.4	16.5	19.4
7/ 4	16.2	15.8	15.6	16.0	15.0	10.4	14.8	16.2	15.7	16.3	17.9	19.4	****
7/ 5	22.4	21.4	20.8	18.8	18.2	18.3	17.8	19.2	16.8	17.5	16.0	****	****
7/ 6	****	****	****	****	****	****	****	****	****	****	****	****	****
7/ 7	****	****	****	****	****	****	****	****	****	****	****	****	****
7/ 8	****	****	****	****	****	****	****	****	****	****	****	****	****
7/ 9	17.1	16.1	15.5	15.5	15.5	15.2	14.6	15.0	15.7	15.7	18.3	21.2	17.2
7/10	20.8	22.0	22.6	22.7	22.4	21.2	20.7	18.7	17.7	18.1	20.3	16.3	19.2
7/11	15.6	15.5	15.5	16.0	15.0	14.8	14.8	14.7	16.1	15.8	18.0	19.2	16.2
7/12	20.8	22.0	22.7	23.4	22.1	22.3	20.6	18.9	18.1	17.3	17.4	20.0	16.9
7/13	17.4	15.5	16.4	14.9	14.6	14.3	14.1	14.5	14.7	17.5	18.0	20.0	16.9
7/14	21.5	22.7	23.5	23.2	23.4	22.5	20.9	19.3	18.2	17.5	17.0	16.9	20.1
7/15	16.0	16.8	15.7	15.9	15.0	14.4	14.1	14.1	14.8	15.9	18.3	20.1	17.3
7/16	22.9	23.7	23.3	23.2	22.5	21.4	20.2	19.7	18.8	17.6	17.0	17.3	20.5
7/17	16.9	15.8	15.6	15.2	14.9	14.6	14.6	14.7	15.6	17.1	18.6	20.5	16.8
7/18	20.9	22.5	22.6	22.1	21.0	20.9	20.0	19.1	18.9	17.9	18.1	16.8	19.7
7/19	17.5	15.6	15.9	14.7	14.7	14.1	14.0	14.0	14.6	15.7	17.6	19.7	16.6
7/20	21.2	22.8	****	****	****	21.4	20.3	19.2	18.5	17.7	17.1	16.6	19.4
7/21	16.2	16.7	15.5	15.1	14.8	14.5	14.3	14.3	14.8	10.9	16.5	19.4	16.6
7/22	21.2	22.4	23.0	22.9	22.2	21.2	20.1	19.1	18.2	17.6	17.0	16.6	20.2
7/23	16.4	16.2	16.1	16.0	15.9	15.7	15.6	15.5	15.7	16.7	18.3	20.2	17.3
7/24	22.0	23.4	24.0	24.1	23.6	22.8	21.6	20.4	19.4	18.6	17.9	17.3	19.6
7/25	16.8	16.4	16.0	15.7	15.5	15.3	15.2	15.1	15.4	16.3	17.7	19.6	16.9
7/26	21.5	22.6	22.6	22.0	21.0	20.4	19.8	19.1	18.5	18.0	17.4	16.9	20.9
7/27	16.5	16.1	15.8	15.5	15.3	15.0	14.8	14.8	15.1	16.3	18.5	20.9	17.8
7/28	22.7	24.1	24.7	24.5	23.7	22.8	21.7	20.7	19.7	19.0	18.3	17.8	21.4
7/29	17.3	16.9	16.5	16.2	16.0	15.7	15.5	15.5	16.0	17.2	19.1	21.4	18.4
7/30	23.3	24.7	25.2	24.9	24.1	23.2	22.0	21.0	20.1	19.4	18.9	18.4	19.8
7/31	18.2	17.9	17.7	17.5	17.2	17.1	17.0	17.0	17.1	17.4	18.1	19.8	18.0
7/32	21.9	23.6	24.5	24.5	23.9	22.8	21.7	20.8	20.0	19.3	18.6	18.0	18.0

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1800 A.M.											
7/ 8	17.5	17.2	16.8	16.4	16.7	16.3	16.2	15.7	16.2	17.4	19.4	21.7
	23.7	25.3	****	26.2	25.3	23.6	22.2	21.3	20.6	19.8	19.1	18.6
7/ 9	18.1	17.6	17.3	16.9	16.4	16.5	16.5	16.9	18.3	20.4	22.4	24.2
	25.6	26.1	25.6	24.7	23.5	22.5	21.6	20.7	20.0	18.9	17.9	17.7
7/10	17.5	17.2	16.9	16.6	16.5	16.8	****	****	****	****	****	****
	****	****	****	****	****	****	****	22.7	22.3	21.4	20.8	19.9
7/11	19.0	18.3	18.0	17.7	17.5	17.6	****	****	****	****	****	22.5
	23.8	24.3	25.4	26.1	26.1	26.2	25.7	24.5	23.3	21.6	20.1	19.2
7/12	18.5	18.2	17.9	17.4	16.9	16.7	16.6	16.4	17.2	18.4	19.3	19.7
	21.6	23.4	24.2	24.8	23.9	23.3	22.4	20.9	19.4	18.3	18.0	18.2
7/13	18.1	17.4	17.1	16.9	16.7	16.5	16.3	16.2	16.2	16.3	16.3	16.5
	17.0	17.7	19.1	20.2	20.3	22.2	24.4	25.1	25.3	25.3	22.9	19.4
7/14	18.3	18.0	17.7	17.4	17.0	16.9	16.9	17.6	18.9	20.4	21.5	****
	22.0	23.0	23.8	23.9	23.7	23.0	22.2	21.4	20.9	20.5	20.2	20.1
7/15	19.8	19.6	19.5	19.4	19.3	19.2	19.1	19.1	19.3	19.5	19.8	20.1
	20.2	20.4	20.9	21.6	21.7	21.3	20.8	20.4	20.0	19.6	19.2	18.8
7/16	18.4	18.1	17.9	17.6	17.4	17.2	17.2	17.3	17.6	18.5	20.0	22.0
	23.8	25.2	25.8	25.7	24.9	23.8	22.6	21.4	20.9	20.3	19.7	19.2
7/17	18.8	18.5	18.1	17.8	17.6	17.4	17.3	17.2	17.5	18.3	19.9	21.9
	23.7	25.1	25.8	25.8	25.2	24.0	22.9	22.0	21.4	20.7	20.2	19.6
7/18	19.3	18.6	18.6	18.4	18.0	17.3	18.0	17.4	17.8	18.5	20.0	22.0
	23.7	25.0	25.6	25.7	25.0	23.9	22.9	21.9	21.3	20.7	20.2	19.8
7/19	19.6	19.0	18.8	18.3	18.7	18.0	18.0	18.2	18.4	19.2	20.5	22.1
	23.8	25.0	25.5	25.2	24.8	23.9	22.9	21.9	21.4	20.8	20.2	19.7
7/20	19.3	18.9	18.6	18.3	18.0	17.8	17.6	17.6	18.0	18.9	20.4	22.3
	24.0	25.4	26.3	26.4	25.8	24.7	23.6	22.6	21.9	21.2	20.7	20.1
7/21	19.6	19.2	18.8	18.4	18.1	17.8	17.6	17.5	17.8	18.7	20.3	22.0
	23.7	25.1	26.5	26.8	27.8	27.4	26.0	24.8	23.4	23.0	23.4	22.8
7/22	22.1	21.6	21.7	21.0	20.5	20.5	20.2	20.0	19.7	19.4	19.3	20.8
	22.8	24.3	25.7	26.7	26.5	25.8	24.7	23.7	22.9	22.1	21.4	21.0
7/23	20.4	19.9	19.5	19.2	18.6	18.5	18.3	18.0	18.0	18.4	19.4	21.0
	23.0	24.8	26.2	26.9	26.7	25.9	24.8	23.7	22.8	22.2	21.5	21.0
7/24	20.5	20.2	19.8	19.3	18.8	18.4	18.3	18.3	18.5	18.7	19.9	21.7
	23.6	25.1	26.0	26.6	26.3	25.4	24.2	23.0	22.1	21.6	21.2	20.8
7/25	20.3	20.0	19.6	19.4	19.0	18.9	18.7	18.5	18.7	19.1	20.2	22.1
	23.9	25.4	26.5	26.8	26.3	25.6	24.7	23.9	23.1	22.4	21.7	21.3
7/26	21.0	20.6	19.7	19.5	19.2	19.2	19.2	19.0	18.9	19.5	20.7	22.5
	24.1	25.5	26.4	26.4	26.1	25.6	24.8	23.7	22.9	22.5	22.4	22.2
7/27	21.7	20.9	20.8	20.0	19.9	19.6	19.1	18.9	19.1	19.8	21.2	22.5
	24.1	****	26.8	26.5	25.8	25.0	24.2	23.4	22.5	22.0	21.6	21.1
7/28	20.6	20.2	20.0	19.7	19.4	19.3	19.2	19.1	19.3	20.4	21.9	23.4
	24.9	26.1	26.5	26.4	26.0	24.7	23.4	22.6	22.2	21.5	21.0	20.5
7/29	20.1	19.8	19.3	18.8	18.6	18.3	18.2	18.2	18.6	19.4	20.8	22.1
	23.2	23.9	25.9	23.6	23.2	21.2	20.3	19.6	19.2	18.7	18.5	18.1
7/30	17.9	17.7	17.5	17.3	17.1	16.9	16.8	17.0	17.8	19.1	20.7	22.2
	23.3	23.7	23.7	22.8	22.0	21.1	19.6	19.1	18.7	18.5	18.3	18.1
7/31	17.8	17.6	17.5	16.9	16.7	16.5	16.7	17.3	18.6	20.4	22.3	24.0
	23.0	25.3	24.8	23.8	22.9	22.0	21.1	20.6	20.2	19.7	19.3	18.8
8/ 1	18.4	18.1	17.9	17.6	17.3	17.3	17.6	18.5	20.1	22.1	23.9	25.2
	25.9	26.1	26.2	26.0	25.5	24.5	23.4	22.6	21.8	21.2	20.5	20.1
8/ 2	19.6	19.3	18.8	18.6	18.3	18.1	17.8	18.0	18.5	19.8	21.4	23.1
	24.6	25.5	25.7	25.6	24.8	23.8	22.9	22.2	21.6	21.1	20.7	20.4
8/ 3	20.1	19.7	19.3	19.0	18.8	18.5	18.3	18.5	19.2	20.3	21.9	23.3
	24.4	****	21.6	20.6	22.2	22.7	22.1	21.2	20.8	20.3	19.9	19.5

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 11:00 A.M.												
8/ 4	19.1	18.8	18.5	18.3	18.1	17.8	17.6	17.7	17.9	18.5	19.7	21.3	
	22.5	23.0	21.4	23.2	23.9	22.9	22.3	21.6	21.0	20.6	20.2	19.8	
8/ 5	19.6	19.3	19.0	18.7	18.5	18.3	18.1	18.0	18.2	18.8	19.9	21.3	
	22.6	23.6	24.3	24.3	23.8	23.0	21.9	21.0	20.4	19.9	19.5	19.1	
8/ 6	18.8	18.5	18.2	18.0	18.1	18.3	18.2	18.0	17.8	18.5	19.5	20.6	
	21.7	22.5	22.6	22.7	22.3	21.6	20.8	20.0	19.4	18.9	18.5	18.4	
8/ 7	18.2	17.9	17.7	17.6	17.3	17.3	17.0	17.0	17.2	17.7	18.8	20.2	
	21.5	22.8	23.6	23.5	23.1	22.2	21.0	20.1	19.7	19.4	19.1	18.8	
8/ 8	19.0	18.5	18.5	18.2	18.0	17.9	17.7	17.8	18.0	18.7	19.8	21.2	
	22.6	23.8	24.6	24.7	24.3	23.4	22.4	21.4	20.8	20.4	19.9	19.5	
8/ 9	19.0	18.8	18.5	18.1	17.9	17.6	17.4	17.4	17.5	18.2	19.4	20.8	
	22.2	23.3	24.2	24.6	24.1	23.2	22.3	21.5	21.0	20.5	20.0	19.6	
8/10	19.3	18.9	18.6	18.3	18.1	17.9	17.7	17.5	17.7	18.5	19.8	21.2	
	22.4	23.6	24.2	24.5	24.2	23.5	22.6	21.8	21.3	20.9	20.4	20.2	
8/11	19.8	19.3	18.8	18.6	18.2	18.0	17.7	17.6	17.7	18.4	19.6	20.9	
	22.1	23.2	24.2	24.1	23.8	23.1	22.2	21.2	20.6	20.0	19.6	19.2	
8/12	18.7	18.5	18.3	18.1	17.7	17.5	17.4	17.3	17.5	18.1	19.0	20.2	
	21.3	22.4	23.1	23.2	22.8	21.8	20.7	20.1	19.7	19.3	18.7	18.3	
8/13	18.3	18.2	18.0	17.9	17.7	17.6	17.5	17.6	17.6	17.8	18.7	20.2	
	21.4	22.4	23.2	23.5	23.2	22.5	21.6	20.9	20.4	20.0	19.7	19.3	
8/14	18.9	18.5	18.3	18.0	17.7	17.3	17.1	17.2	17.2	17.7	19.2	20.6	
	21.8	22.9	23.4	24.4	24.5	23.2	22.2	21.3	20.8	20.1	20.0	19.5	
8/15	19.3	18.8	18.4	18.0	17.9	17.5	17.2	17.0	17.0	17.4	18.6	20.0	
	21.0	22.3	23.4	23.8	23.5	23.1	22.2	21.3	20.9	20.3	19.9	19.4	
8/16	19.1	18.8	18.4	18.1	17.8	17.6	17.4	17.2	17.3	17.7	18.7	19.9	
	21.1	22.4	23.5	23.9	23.7	23.2	22.4	****	19.4	20.2	20.2	19.9	
8/17	19.7	19.4	19.3	19.1	18.9	18.8	18.8	19.0	19.2	19.3	19.7	20.0	
	20.1	20.3	20.2	20.4	20.4	20.7	20.4	20.2	19.9	19.7	19.5	19.6	
8/18	19.2	19.2	19.2	19.1	18.8	18.9	18.9	19.0	19.1	19.6	20.8	21.6	
	22.1	23.2	23.8	23.6	22.6	21.6	20.9	20.3	19.6	19.1	18.7	18.3	
8/19	18.1	17.9	17.6	17.5	17.3	17.3	17.6	18.3	18.7	19.6	20.6	21.7	
	22.6	23.1	23.0	22.5	22.2	22.2	21.7	20.9	20.3	20.1	19.6	19.2	
8/20	18.9	18.8	18.3	18.2	17.7	17.6	17.5	17.3	17.5	18.3	19.4	20.1	
	21.3	22.5	23.1	23.4	23.1	22.3	21.5	20.9	20.5	20.2	20.1	19.9	
8/21	19.7	19.4	19.1	18.7	18.3	18.1	18.0	18.1	18.3	19.0	20.1	20.6	
	21.3	22.3	23.2	23.8	23.4	22.8	22.0	20.7	20.2	20.0	19.5	19.2	
8/22	19.1	18.7	18.6	18.3	18.1	17.9	17.5	17.5	17.8	18.7	20.8	22.0	
	22.8	23.1	23.4	23.4	23.0	22.2	21.4	20.8	20.2	19.5	19.4	19.0	
8/23	18.9	18.7	18.4	18.3	18.1	18.2	18.0	18.1	18.5	18.6	19.0	20.0	
	20.9	21.8	22.4	22.6	22.3	22.0	21.1	20.8	20.1	20.0	19.5	19.3	
8/24	19.0	18.7	18.8	18.3	18.2	17.8	17.7	17.5	17.9	18.8	20.0	21.1	
	22.4	23.4	24.5	24.4	23.8	22.8	21.8	21.2	20.8	20.1	19.5	19.0	
8/25	18.5	18.3	18.0	17.8	17.3	16.8	16.6	16.5	16.7	17.5	18.7	20.0	
	21.2	22.2	23.1	23.2	22.7	22.1	21.5	20.7	20.0	19.6	19.1	18.6	
8/26	18.3	17.9	17.5	17.1	17.0	16.9	16.8	16.9	17.1	17.5	18.8	20.1	
	20.8	21.4	21.8	22.2	22.3	21.1	20.0	19.8	19.3	19.0	18.9	18.6	
8/27	18.3	18.6	18.5	18.4	18.5	18.2	18.1	18.1	18.2	18.6	19.0	19.4	
	19.4	19.5	19.2	19.7	19.3	18.9	20.3	18.7	18.5	18.0	18.3	19.1	
8/28	18.1	17.6	18.0	17.3	17.6	17.7	16.8	16.7	17.4	18.2	18.7	19.6	
	20.2	21.3	22.4	22.9	21.7	21.3	20.3	19.6	19.0	18.6	18.0	17.6	
8/29	17.1	16.9	17.2	16.6	16.2	15.8	15.4	15.5	16.3	17.6	18.1	19.3	
	20.7	21.4	21.9	21.9	21.3	20.6	20.0	19.1	18.6	18.4	18.0	17.8	
8/30	17.4	17.2	16.8	16.5	16.5	16.3	16.2	16.2	16.9	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	

[Temperature in degrees Celsius. Stars denote missing data]

[Temperature in degrees Celsius. Stars denote missing data]

## STATION 13--52.64 MILES DOWNSTREAM FROM HEADWATERS

DATE: HOURLY DATA BEGINNING AT 11:00 A.M.

[illegible]



TABLE 5.--Hourly water temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1100 A.M.											
7/ 8	****	****	****	****	****	****	****	****	****	****	****	****
7/ 9	****	****	****	****	****	****	****	****	****	****	****	****
7/10	****	****	****	****	****	****	****	****	****	****	****	****
7/11	21.3	21.1	20.9	20.6	20.7	20.0	19.9	20.0	20.5	21.1	22.0	23.1
7/12	24.7	25.1	25.9	26.3	26.3	25.8	25.0	24.1	23.2	22.5	21.7	21.1
7/13	20.8	20.5	20.0	19.6	19.3	19.1	19.0	19.0	19.3	20.0	21.0	22.1
7/14	23.3	24.1	24.8	25.1	24.9	24.2	23.4	22.7	21.9	21.2	20.8	20.3
7/15	20.1	19.9	19.6	19.4	19.1	19.1	18.8	18.9	19.2	20.0	20.8	21.7
7/16	22.8	23.8	24.6	25.2	25.5	25.2	24.8	23.6	22.7	21.8	21.1	20.6
7/17	20.5	20.0	19.9	19.8	19.5	19.3	19.4	19.3	19.3	20.0	21.0	22.0
7/18	22.2	22.8	23.5	23.9	24.1	24.3	23.6	23.0	22.5	22.0	21.6	21.4
7/19	21.7	20.9	21.1	20.8	20.7	20.4	20.2	19.9	19.8	21.1	20.4	20.4
7/20	20.5	20.7	21.0	21.4	21.5	21.7	21.8	21.2	20.6	20.5	20.4	20.0
7/21	19.7	19.5	19.3	19.0	18.6	18.4	18.3	18.4	18.7	19.4	20.4	21.7
7/22	22.9	24.2	25.0	25.4	25.7	25.6	24.9	24.7	23.4	22.7	22.1	21.5
7/23	21.0	20.7	20.4	20.0	19.7	19.4	19.2	19.1	19.3	19.7	20.5	21.6
7/24	22.9	24.0	24.9	25.6	25.9	25.7	25.3	24.6	23.9	23.3	22.6	22.1
7/25	21.6	21.2	21.0	20.6	20.4	20.1	19.8	19.6	19.7	20.3	21.1	22.3
7/26	23.1	24.1	25.1	25.6	25.9	26.1	25.6	25.0	24.2	23.6	23.1	22.5
7/27	22.1	21.6	21.2	21.0	20.6	20.4	20.2	20.1	20.2	20.5	21.3	22.1
7/28	23.2	24.2	25.0	25.8	26.2	26.1	25.6	25.2	24.4	23.6	23.0	22.7
7/29	22.2	21.6	21.2	21.0	20.5	20.3	20.1	20.0	20.1	20.6	21.4	22.4
7/30	23.3	24.4	25.5	26.2	26.9	26.9	26.4	25.7	25.7	24.5	23.6	23.1
7/31	22.6	22.1	21.6	21.2	20.9	20.6	20.3	20.1	20.2	20.5	21.3	22.3
8/ 1	23.2	24.4	25.7	26.4	26.5	26.3	25.6	24.7	24.4	23.1	22.8	22.4
8/ 2	27.0	21.7	21.4	20.9	20.5	20.3	20.0	20.0	20.3	21.3	21.9	23.0
8/ 3	24.4	25.3	26.3	27.5	27.2	26.8	26.1	25.4	24.5	24.0	23.4	22.9
8/ 4	22.4	21.9	21.4	21.1	20.6	20.4	20.2	20.7	20.4	21.0	22.1	23.4
8/ 5	24.6	25.8	26.8	27.3	27.4	26.9	26.6	25.5	24.6	23.9	23.5	23.1
8/ 6	22.5	22.2	21.7	21.3	20.9	20.7	20.5	20.5	20.9	21.5	22.5	23.8
8/ 7	25.1	26.4	26.3	26.8	26.9	26.6	25.7	25.0	24.0	23.6	22.9	22.5
8/ 8	22.2	21.9	21.6	21.2	21.0	20.7	20.5	20.8	21.2	21.9	23.0	24.1
8/ 9	25.2	25.9	26.9	27.3	27.3	26.7	26.1	25.4	24.6	24.0	23.4	22.9
8/10	22.4	21.8	21.5	21.3	21.0	20.7	20.6	20.8	21.2	22.1	23.4	24.5
8/11	25.5	26.1	26.8	27.0	27.1	26.7	26.1	25.3	24.5	23.8	23.4	22.9
8/12	22.4	22.1	21.7	21.4	21.2	20.9	20.8	21.2	21.6	22.6	23.5	24.5
8/13	25.6	25.9	26.2	26.8	26.8	26.6	26.0	25.3	24.7	24.1	23.6	23.1
8/14	22.5	22.2	21.8	21.5	21.3	21.0	20.8	20.9	21.4	21.9	22.9	24.0
8/15	25.1	25.9	26.5	27.0	27.1	26.9	26.4	25.6	24.9	24.3	23.6	23.0
8/16	22.4	21.7	21.3	20.8	20.4	20.1	20.0	20.0	20.3	20.8	21.4	22.3
8/17	23.2	23.6	24.1	24.5	24.4	24.0	23.4	22.6	21.8	21.1	20.9	20.5
8/18	20.3	20.0	19.4	19.0	18.8	18.6	18.4	18.7	19.3	19.9	20.8	21.9
8/19	22.7	23.3	23.6	24.1	24.3	23.8	23.2	22.3	21.5	21.1	20.9	20.4
8/20	20.1	19.9	19.5	19.4	19.2	18.7	18.7	19.1	19.6	20.4	21.6	23.0
8/21	24.1	24.9	25.5	25.9	25.9	25.4	24.6	24.0	23.3	22.8	22.4	22.1
8/22	21.4	****	****	****	****	****	****	****	****	****	****	****
8/23	23.0	23.0	25.6	26.4	26.9	27.2	26.4	25.6	24.8	24.0	23.3	22.8
8/24	22.3	21.8	21.5	21.1	20.9	20.6	20.5	20.4	20.7	21.7	22.0	23.1
8/25	24.2	25.4	25.9	26.3	26.6	26.5	26.0	25.3	24.5	23.7	23.1	22.9
8/26	22.4	22.0	21.7	21.2	21.0	20.7	20.5	20.4	20.9	21.4	22.3	23.4
8/27	24.3	25.2	25.9	26.3	****	26.3	25.6	25.0	24.4	23.4	22.6	22.1

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1100 A.M.											
8/ 4	21.8	21.3	21.0	20.7	20.4	20.1	19.9	19.8	19.9	20.4	21.3	22.3
	23.4	24.5	25.4	25.9	26.5	26.7	26.0	25.2	24.2	23.4	22.4	22.4
8/ 5	22.1	21.9	21.5	21.3	21.0	20.7	20.4	20.2	20.2	20.6	21.2	22.3
	23.4	24.3	25.2	25.7	25.9	25.8	25.3	24.5	23.8	23.0	22.2	21.7
8/ 6	21.4	21.1	20.8	20.4	20.1	19.9	19.7	19.7	19.8	20.1	20.6	21.5
	22.4	23.3	23.9	24.1	24.3	24.0	23.3	22.6	21.9	21.3	20.4	20.6
8/ 7	20.5	20.1	19.8	19.5	19.1	19.0	18.9	18.8	18.9	19.2	19.8	20.8
	21.8	22.8	23.7	24.5	24.9	24.8	24.3	23.5	22.7	21.8	21.1	20.8
8/ 8	20.5	20.3	20.2	20.1	20.0	19.8	19.7	19.6	19.7	20.2	20.9	21.8
	22.8	23.7	24.6	25.3	25.6	25.6	25.3	24.8	24.3	23.2	22.6	22.1
8/ 9	21.8	21.3	21.0	20.5	20.2	20.0	19.8	19.6	19.6	20.0	20.5	21.4
	22.6	23.6	24.4	24.9	25.4	25.2	25.5	24.1	23.0	22.7	22.2	21.8
8/10	21.5	21.2	20.9	20.5	20.2	20.0	19.9	19.4	19.8	20.5	21.6	22.4
	23.2	24.4	24.9	25.3	25.6	25.4	25.0	24.4	23.9	23.2	22.6	22.3
8/11	21.9	21.5	21.2	20.8	20.5	20.2	20.0	19.9	20.1	20.6	21.3	22.3
	23.3	24.1	24.8	25.2	25.4	25.4	25.0	24.3	23.4	22.7	22.1	21.6
8/12	21.2	20.9	20.5	20.2	19.9	19.8	19.6	19.5	19.8	20.3	20.8	21.7
	22.8	23.7	24.1	24.3	24.4	24.2	23.6	23.0	22.3	21.8	21.2	20.9
8/13	20.6	20.4	20.2	20.0	20.0	19.8	19.7	19.6	19.6	19.9	20.7	21.8
	22.6	23.5	24.3	24.4	25.0	25.0	24.6	23.6	23.0	22.6	22.0	21.3
8/14	21.1	20.8	20.4	20.0	19.7	19.5	19.2	19.3	19.5	19.9	20.6	21.7
	22.8	23.7	24.3	24.7	25.1	25.0	24.4	23.8	****	****	21.7	21.3
8/15	21.0	20.8	20.6	20.2	19.9	19.7	19.6	19.4	19.5	19.9	20.4	21.4
	22.5	23.4	24.1	24.6	24.9	24.9	24.6	24.0	23.3	22.7	22.1	21.6
8/16	21.3	20.9	20.6	20.3	20.0	19.8	19.6	19.4	19.5	19.9	20.5	21.4
	22.5	23.5	24.3	24.8	25.1	25.1	24.6	****	****	****	****	****
8/17	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	21.0	21.2	21.3	21.1	21.0	20.9	20.8	20.6	20.3
8/18	20.2	20.1	20.0	20.0	19.9	19.9	19.9	19.9	20.0	20.1	20.1	20.7
	21.9	22.7	23.6	24.4	24.7	24.6	24.4	23.6	23.0	22.4	22.0	21.3
8/19	21.0	21.3	20.4	19.9	19.6	19.4	19.2	19.1	18.9	18.8	19.2	19.8
	20.6	21.5	22.4	23.2	23.7	24.1	24.2	24.0	23.5	23.0	22.2	21.7
8/20	21.4	21.1	20.8	20.3	20.1	20.0	19.7	19.3	19.1	19.0	19.1	19.3
	20.0	20.8	21.9	23.0	23.8	24.2	24.6	24.3	23.7	23.2	22.5	22.4
8/21	21.9	21.7	21.2	21.0	20.7	20.4	20.2	19.9	19.7	19.5	19.5	19.8
	20.5	21.3	22.2	23.1	23.9	24.5	24.7	24.5	24.3	23.7	23.2	22.5
8/22	22.0	21.7	21.2	21.0	20.7	20.7	20.2	19.8	19.5	19.3	19.1	19.3
	19.7	20.3	21.3	22.4	23.3	24.0	24.6	24.9	24.5	24.2	23.7	23.1
8/23	22.3	21.9	21.4	21.1	20.9	20.7	20.4	20.3	20.3	20.9	21.5	22.2
	22.7	23.1	23.4	23.6	23.8	23.7	****	22.8	22.5	22.0	21.7	21.3
8/24	21.1	21.0	20.7	20.4	20.2	20.0	19.7	19.6	19.7	20.3	21.1	22.2
	23.4	24.3	24.9	25.1	25.3	25.0	24.4	23.7	23.1	22.6	22.0	21.7
8/25	21.1	20.8	20.4	20.1	19.7	19.4	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
8/26	****	****	****	****	****	****	****	****	****	****	21.7	20.6
	20.5	20.9	21.0	21.5	22.1	21.9	21.6	21.4	21.2	20.9	20.6	20.3
8/27	20.0	19.8	19.6	19.4	19.2	19.0	18.8	18.4	18.6	19.1	19.5	19.7
	20.1	20.8	21.5	21.7	****	****	****	****	****	****	****	****

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]													
STATION 14--60.31 MILES DOWNSTREAM FROM HEADWATERS													
DATE	HOURLY DATA BEGINNING AT 1100 A.M.												
6/11	****	****	****	****	****	****	****	****	****	****	****	****	****
	****	21.1	21.8	22.3	22.5	22.6	22.4	21.9	21.5	20.9	20.6	20.2	
6/12	19.8	19.3	18.9	18.5	18.1	17.7	17.5	17.3	17.7	18.5	19.0	19.9	
	20.8	21.7	22.5	22.9	23.2	23.2	22.8	22.6	22.1	21.7	21.4	21.0	
6/13	20.6	20.2	19.7	19.4	19.1	18.7	18.5	18.4	18.9	19.5	20.5	21.4	
	22.4	23.3	24.3	25.4	25.3	25.1	25.0	24.6	24.2	23.7	23.4	22.5	
6/14	21.7	21.2	20.9	20.5	20.2	19.7	19.3	19.3	19.8	20.4	21.2	22.0	
	22.8	****	****	23.8	23.9	23.8	23.2	22.6	22.2	21.7	21.4	21.0	
6/15	20.7	20.4	20.2	20.0	19.6	19.3	19.1	18.9	18.8	19.0	19.6	20.4	
	21.2	22.1	23.1	23.9	24.1	23.9	23.3	22.4	21.6	21.0	20.8	21.2	
6/16	19.5	19.1	18.7	18.3	17.9	17.7	17.5	17.6	18.0	18.8	19.6	20.5	
	21.5	22.4	22.8	23.3	23.2	22.8	22.2	21.6	20.9	20.3	19.5	18.9	
6/17	18.4	17.9	17.4	17.1	16.8	16.6	16.6	16.6	17.0	17.7	18.4	19.2	
	19.9	20.6	21.3	21.7	21.9	21.4	20.6	19.8	18.9	18.3	17.8	17.3	
6/18	16.8	16.4	16.0	15.6	15.3	15.1	15.0	15.2	15.5	16.3	17.2	18.3	
	19.4	19.4	20.0	20.9	21.5	21.2	20.5	20.2	19.7	19.4	19.1	18.1	
6/19	18.1	17.8	17.5	17.2	16.9	16.6	16.4	16.2	16.3	16.9	17.9	18.8	
	19.9	20.9	21.8	22.4	22.8	22.9	22.5	21.8	20.9	20.1	19.8	19.5	
6/20	19.0	18.6	18.4	18.2	17.9	17.7	17.4	17.1	17.2	17.7	18.5	19.4	
	20.5	21.6	22.4	23.7	23.5	23.8	23.4	23.0	22.4	22.2	21.0	20.6	
6/21	19.7	19.0	18.7	18.4	18.1	17.7	17.3	17.1	17.1	17.5	18.1	19.0	
	20.9	21.7	22.5	23.0	23.3	23.1	22.5	22.4	23.3	21.4	22.6	20.1	
6/22	19.5	19.1	20.9	18.2	17.9	17.5	18.6	17.1	17.5	18.2	19.0	19.9	
	20.7	21.3	21.6	21.9	21.7	21.4	21.2	20.8	20.2	19.7	19.3	18.8	
6/23	18.4	17.9	17.5	17.2	16.9	16.7	16.8	16.9	17.1	17.6	18.7	19.6	
	20.3	20.9	21.2	21.3	21.1	21.4	22.4	19.7	19.1	18.8	18.5	18.0	
6/24	17.7	17.3	17.0	16.7	16.5	16.3	16.3	16.4	16.5	16.6	17.3	18.1	
	18.8	19.6	19.7	19.6	20.0	19.6	18.9	18.6	20.2	18.9	19.6	18.4	
6/25	17.2	16.7	16.3	16.0	15.4	15.3	15.3	15.7	16.3	17.1	18.1	19.1	
	20.0	20.7	21.2	21.4	21.5	****	****	21.1	20.8	20.5	20.2	19.6	
6/26	19.2	18.8	18.4	18.0	17.7	17.3	16.9	16.8	17.0	17.5	18.2	19.0	
	20.0	20.8	21.3	21.7	22.2	21.9	22.3	21.2	19.7	19.3	19.6	19.1	
6/27	18.3	17.9	17.6	17.3	17.0	16.6	16.3	16.3	16.6	17.2	18.0	19.2	
	20.3	21.0	21.5	21.9	22.1	22.0	21.6	20.9	20.2	19.8	19.4	19.3	
6/28	19.1	18.5	17.9	17.5	17.1	17.4	16.9	16.6	17.0	17.6	18.5	19.4	
	20.5	21.8	22.3	22.6	22.8	22.6	22.0	21.3	20.9	20.8	20.2	19.4	
6/29	18.8	18.1	17.7	17.4	17.1	16.8	16.7	16.7	17.0	17.7	18.5	19.5	
	20.4	21.3	22.1	22.6	22.8	22.6	22.0	21.4	20.8	20.2	19.8	19.3	
6/30	18.9	18.5	18.1	17.7	17.4	17.2	17.0	17.1	17.4	18.1	18.5	18.9	
	19.9	20.8	21.4	21.6	21.7	21.5	21.0	20.5	20.1	19.7	19.3	18.9	
7/ 1	18.4	18.1	17.6	17.2	16.8	16.4	16.2	16.4	16.6	17.2	18.0	18.7	
	19.5	20.2	20.7	****	21.4	21.3	21.1	20.9	20.4	19.9	19.5	19.2	
7/ 2	18.9	18.5	18.0	17.5	17.1	16.8	16.5	16.4	16.6	16.8	17.5	18.6	
	19.7	20.8	21.6	22.2	22.5	22.6	22.4	21.8	21.1	20.5	19.8	19.5	
7/ 3	18.7	18.5	18.1	17.8	17.5	17.3	17.2	17.4	17.9	18.5	19.4	20.2	
	21.0	21.7	22.4	22.9	23.1	22.9	22.6	21.9	21.4	21.1	20.7	20.3	
7/ 4	20.1	19.8	19.4	18.9	19.0	18.9	17.9	17.6	17.9	18.5	19.1	20.1	
	21.0	21.7	22.0	21.9	22.0	21.8	21.6	21.3	20.9	20.2	20.1	19.8	
7/ 5	19.4	19.0	18.5	18.2	17.8	17.6	17.2	17.1	17.4	18.0	18.8	19.8	
	20.9	22.0	23.0	23.8	24.2	24.4	24.0	23.3	22.9	22.3	21.6	21.2	
7/ 6	20.8	20.4	20.0	19.6	19.1	18.7	18.3	18.1	18.1	18.6	19.4	20.3	
	21.2	22.2	23.0	23.6	23.9	23.9	23.7	23.2	22.6	22.1	21.8	21.5	
7/ 7	21.1	20.8	20.6	20.2	20.1	19.5	19.3	19.2	19.0	18.9	19.1	19.7	
	20.7	21.8	22.6	23.2	23.5	23.4	23.0	22.4	21.9	21.6	21.2	20.8	

TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1100 A.M.												
7/ 8	20.5	20.1	19.7	19.4	19.1	18.8	18.5	18.3	18.3	18.4	19.6	20.6	
	21.5	22.5	23.6	24.6	24.1	24.3	23.8	23.4	22.8	22.5	22.2	21.9	
7/ 9	21.6	21.4	21.0	20.5	20.1	19.8	19.4	19.2	19.5	20.2	20.9	21.8	
	22.7	23.5	24.2	24.6	24.7	24.4	23.8	23.2	22.7	22.5	22.3	21.9	
7/10	21.5	21.1	20.7	20.3	20.0	19.7	19.4	19.4	19.7	20.3	21.2	22.0	
	22.9	24.0	24.8	25.0	25.1	24.8	24.3	23.7	23.3	22.8	22.3	21.8	
7/11	21.4	21.1	20.9	20.7	20.4	20.1	19.8	19.7	19.9	20.9	21.9	22.2	
	23.1	23.9	24.6	25.2	25.5	25.5	25.1	24.1	22.7	22.1	21.5	20.8	
7/12	20.3	19.7	19.3	18.9	18.5	18.5	18.2	17.7	18.1	18.7	19.5	20.4	
	21.6	22.7	23.6	24.4	24.5	23.4	22.5	21.8	21.0	20.1	19.5	19.1	
7/13	18.8	18.5	18.2	18.0	17.8	17.6	17.4	17.6	18.2	19.0	19.9	20.9	
	21.9	22.6	23.1	23.5	23.5	23.3	22.8	22.7	21.8	21.3	20.7	20.3	
7/14	20.0	19.5	19.0	18.8	18.5	18.2	18.1	18.4	18.9	19.4	20.2	20.7	
	****	****	****	****	****	****	****	****	****	****	****	****	
7/15	****	19.8	19.7	19.6	19.4	19.1	19.0	18.9	18.8	18.9	19.0	19.9	
	21.4	23.0	24.8	25.2	25.5	25.3	24.2	22.7	22.3	22.6	22.9	22.0	
7/16	21.5	20.2	19.3	19.0	18.8	18.8	18.8	18.9	19.3	19.6	20.5	21.7	
	22.8	23.7	24.8	25.4	25.9	26.6	26.6	25.9	25.4	25.0	24.3	23.7	
7/17	23.3	22.9	22.5	22.1	21.7	20.1	19.6	19.0	19.4	20.1	21.0	22.6	
	24.2	25.1	26.7	27.3	27.4	27.1	26.6	26.0	25.4	24.9	24.2	22.8	
7/18	21.6	21.3	20.9	20.5	20.2	19.8	19.5	19.4	19.8	20.6	21.6	22.3	
	23.1	24.5	26.3	27.1	27.6	27.3	26.5	26.1	25.7	25.3	24.1	22.4	
7/19	22.1	21.6	21.2	21.1	21.0	20.7	20.3	20.2	20.5	21.2	22.1	23.4	
	23.6	22.4	23.4	24.4	24.5	24.6	25.1	26.3	26.0	25.5	25.7	24.8	
7/20	24.3	23.0	21.5	21.4	20.8	20.4	20.0	20.0	20.4	21.2	22.1	24.2	
	26.7	27.0	27.5	28.4	27.9	27.0	26.1	24.5	23.9	24.3	25.2	24.8	
7/21	24.4	24.0	23.7	23.3	22.1	20.5	20.1	20.1	20.7	22.4	24.7	25.7	
	26.7	27.3	****	****	****	****	****	****	****	****	****	****	
7/22	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
7/23	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
7/24	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
7/25	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
7/26	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
7/27	****	****	****	****	****	****	****	****	****	****	****	****	
	****	****	25.2	25.7	25.9	25.6	25.2	24.4	23.8	23.1	22.6	22.0	
7/28	21.6	21.0	20.6	20.4	20.1	19.8	19.5	19.5	19.9	20.9	22.0	23.1	
	24.2	25.0	25.5	25.8	25.8	25.6	25.1	24.7	23.9	23.2	22.6	22.0	
7/29	21.4	20.8	20.2	19.8	19.4	18.9	18.4	18.4	18.8	19.6	20.5	21.2	
	21.6	22.1	22.1	22.0	22.1	21.8	21.2	20.4	19.7	19.3	18.9	18.4	
7/30	18.0	17.8	17.3	17.0	16.7	16.5	16.5	16.9	17.7	18.7	19.8	20.7	
	21.7	22.4	22.6	22.4	21.9	21.4	20.7	20.2	19.6	19.0	18.8	18.7	
7/31	18.6	18.5	18.2	17.9	17.5	17.2	17.2	17.6	18.6	19.7	21.0	22.6	
	23.1	23.8	24.3	24.2	24.1	23.6	23.3	22.9	22.5	22.1	21.6	21.1	
8/ 1	20.6	20.1	19.7	19.1	18.6	18.4	18.5	19.2	20.4	21.5	22.7	23.5	
	24.1	24.7	25.0	24.9	24.5	23.8	23.0	22.4	22.0	21.7	21.3	20.9	
8/ 2	20.5	20.2	19.9	19.5	19.2	19.1	19.3	20.0	20.8	21.7	22.5	23.3	
	23.9	24.3	24.5	24.5	24.2	23.6	22.7	22.0	21.6	21.3	21.0	20.6	
8/ 3	20.3	20.1	19.9	19.5	19.3	19.1	19.5	20.1	20.9	21.7	22.4	23.1	
	23.4	23.5	23.4	****	****	****	21.5	20.9	20.6	20.3	20.1	19.9	



TABLE 5.--Hourly water-temperature data for the Mattole River, Humboldt County, California, 1975--Continued

[Temperature in degrees Celsius. Stars denote missing data]

DATE	HOURLY DATA BEGINNING AT 1100 A.M.												
8/ 4	19.7	19.3	19.0	18.7	18.3	18.1	17.9	17.9	18.1	18.5	19.4	20.3	
	21.2	21.9	22.7	23.1	23.0	22.9	22.5	22.0	21.8	21.5	21.3	20.9	
8/ 5	20.5	20.0	19.5	19.2	18.8	18.4	18.0	18.0	19.3	19.8	21.2	21.8	
	22.9	23.9	24.6	24.9	25.3	24.6	24.2	23.6	22.7	22.0	22.0	21.2	
8/ 6	20.8	20.2	19.6	19.3	19.0	18.7	18.4	18.1	18.2	18.7	19.6	20.5	
	21.4	22.3	22.9	23.2	23.4	23.2	23.0	22.7	21.9	20.7	20.3	20.3	
8/ 7	19.6	19.1	18.8	18.1	17.9	17.6	17.2	17.0	17.2	17.9	18.8	20.1	
	21.0	21.7	22.4	22.9	23.1	23.1	23.1	22.6	21.2	20.6	20.3	20.0	
8/ 8	19.7	19.4	19.1	18.9	18.6	18.2	18.1	18.0	18.2	18.9	20.0	21.1	
	22.2	22.9	23.4	23.9	24.2	24.5	24.3	24.6	23.6	23.0	22.2	21.7	
8/ 9	21.3	20.6	20.2	19.9	19.5	19.2	18.8	18.6	18.6	19.0	19.8	20.6	
	21.5	22.3	23.1	24.1	24.3	24.2	23.2	22.3	21.6	21.4	21.1	20.7	
8/10	20.4	19.8	19.4	19.1	18.8	18.5	18.2	18.1	18.3	19.0	20.1	21.0	
	21.9	22.7	23.4	23.8	24.0	23.6	23.0	22.4	22.0	21.7	21.4	21.1	
8/11	20.5	20.2	19.9	19.5	19.1	18.8	18.7	18.6	18.7	19.1	20.0	20.8	
	21.6	22.1	22.6	22.8	23.0	22.7	22.2	21.5	21.2	20.6	20.3	20.1	
8/12	19.8	19.5	19.2	18.9	18.5	18.3	18.2	17.9	18.0	18.2	19.0	20.1	
	21.0	21.7	22.1	22.1	22.2	21.4	20.8	20.5	20.1	20.0	19.8	19.6	
8/13	19.3	19.1	18.9	18.6	18.4	18.2	18.1	17.9	17.9	17.9	18.4	19.3	
	20.3	21.2	21.8	22.2	22.3	22.2	21.7	21.3	20.9	20.4	20.0	19.8	
8/14	19.4	19.0	18.7	18.3	17.8	17.6	17.5	17.4	17.6	18.3	19.3	20.2	
	21.0	21.7	22.4	22.9	23.0	23.0	22.8	22.2	21.6	21.1	20.7	20.4	
8/15	20.2	19.9	19.5	19.0	18.6	18.1	17.8	17.7	17.8	18.4	19.3	20.2	
	20.9	21.6	22.1	22.6	22.8	22.8	22.6	22.0	21.4	20.9	20.5	20.2	
8/16	19.8	19.4	19.0	18.8	18.6	18.3	18.0	17.8	18.0	18.6	19.5	20.4	
	21.2	21.8	22.5	22.6	23.1	22.9	22.2	21.7	21.2	21.0	20.8	20.6	
8/17	20.4	20.3	20.0	19.6	19.4	19.4	19.1	19.1	19.1	19.3	19.5	19.7	
	19.8	19.8	19.8	20.0	20.0	20.1	20.1	20.1	19.8	19.6	19.4	19.2	
8/18	19.1	19.1	19.0	19.0	18.8	18.7	18.6	18.5	18.8	19.4	19.9	20.9	
	21.6	22.7	23.4	23.6	23.4	22.8	22.3	21.7	21.3	21.1	21.0	20.7	
8/19	20.2	19.7	19.3	19.1	18.8	18.6	18.4	18.4	18.5	19.1	19.8	20.7	
	21.4	22.1	22.6	22.9	23.1	22.5	22.0	21.5	21.3	21.1	20.9	20.5	
8/20	20.1	19.7	19.4	19.1	18.6	18.2	17.8	17.7	18.1	18.9	19.9	21.1	
	21.8	22.5	23.0	23.4	23.1	22.7	22.1	21.5	21.3	21.0	20.7	20.4	
8/21	20.0	19.8	19.6	19.4	19.2	18.9	18.7	18.6	18.9	19.4	20.1	20.9	
	21.6	22.2	22.4	22.4	22.2	22.0	21.6	21.3	20.9	20.4	20.1	19.8	
8/22	19.5	19.3	19.0	18.7	18.3	18.1	17.9	17.7	18.1	19.0	20.1	21.1	
	21.8	22.2	22.8	22.7	22.5	22.1	21.6	21.3	21.1	20.8	20.5	20.2	
8/23	19.9	19.4	19.0	18.6	18.4	18.3	18.1	18.0	18.3	19.0	19.7	20.6	
	21.0	21.3	21.5	21.7	21.8	21.7	***	***	21.3	21.1	20.9	20.7	
8/24	20.5	20.1	19.9	19.4	19.1	18.8	18.4	18.1	18.4	19.3	20.4	21.5	
	22.5	23.3	23.8	24.2	24.2	24.0	23.4	22.6	22.0	21.6	21.2	21.0	
8/25	20.7	20.4	19.9	19.3	18.9	18.4	18.1	17.8	17.7	18.1	19.0	20.1	
	20.9	21.7	22.3	22.5	22.6	22.4	21.9	21.2	20.7	20.4	20.2	20.0	
8/26	19.7	19.4	19.0	18.6	18.2	18.0	17.9	17.7	17.7	17.8	18.3	19.3	
	19.5	19.6	20.3	21.4	21.7	21.6	20.9	20.3	20.0	19.8	19.7	19.5	
8/27	19.3	19.0	18.7	18.5	18.5	18.2	17.9	17.8	17.8	18.0	18.3	18.8	
	19.4	20.6	21.5	22.0	21.7	21.1	20.6	20.2	19.8	19.4	19.4	19.3	
8/28	19.1	18.9	18.6	18.1	17.8	17.8	17.6	17.4	17.5	17.6	18.1	19.1	
	20.1	21.2	22.1	22.6	22.6	22.4	21.9	21.3	20.9	20.6	20.3	20.0	
8/29	19.6	19.1	18.6	18.2	17.8	17.4	17.1	16.8	16.7	17.0	17.7	18.6	
	19.6	20.7	21.5	22.0	22.2	22.1	21.7	21.2	20.8	20.5	20.4	20.2	
8/30	19.9	19.4	18.9	18.6	18.2	17.8	17.5	17.2	17.1	***	***	***	
	***	***	***	***	***	***	***	***	***	***	***	***	

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1976

[Stars denote missing data]

TOTAL INCOMING RADIATION (ly/min) AT WHITETHORN

DATE HOURLY DATA BEGINNING AT 1:00 A.M.

6/10	****	****	****	****	****	****	****	****	****	****	****	****
6/11	0.43	0.44	0.44	0.43	0.43	0.44	0.47	0.51	1.03	1.31	1.54	1.62
6/12	0.43	0.42	0.43	0.43	0.44	0.44	0.48	0.51	1.04	1.33	1.56	1.53
6/13	0.46	0.45	0.45	0.44	0.44	0.45	0.49	0.53	1.00	1.27	1.49	1.67
6/14	0.46	0.46	0.45	0.45	0.45	0.46	0.51	0.52	1.11	1.32	1.53	1.71
6/15	0.47	0.41	0.45	0.45	0.45	0.46	0.48	0.50	1.07	1.36	1.57	1.73
6/16	0.40	0.40	0.40	0.40	0.43	0.46	0.50	0.49	1.04	1.33	1.55	1.69
6/17	****	****	****	****	****	****	****	****	****	****	****	****
6/18	****	****	****	****	****	****	****	****	****	****	****	****
6/19	****	****	****	****	****	****	****	****	****	****	****	****
6/20	****	****	****	****	****	****	****	****	****	****	****	****
6/21	0.39	0.39	0.39	0.39	0.39	0.39	0.45	0.47	1.02	1.31	1.53	1.67
6/22	0.40	0.39	0.39	0.44	0.43	0.48	0.49	0.50	1.04	1.31	1.52	1.52
6/23	0.40	0.42	0.41	0.42	0.40	0.45	0.49	0.56	0.49	0.87	0.82	0.75
6/24	0.40	0.43	0.45	0.46	0.46	0.47	0.48	0.49	1.15	1.06	1.21	1.70
6/25	0.40	0.43	0.43	0.43	0.42	0.42	0.48	0.49	0.98	1.51	1.47	1.65
6/26	0.39	0.46	0.38	0.37	0.38	0.40	0.42	0.50	0.52	1.32	1.45	1.63
6/27	0.40	0.41	0.41	0.41	0.41	0.42	0.46	0.48	1.01	1.29	1.49	1.63
6/28	0.43	0.40	0.41	0.42	0.43	0.42	0.47	0.49	1.03	1.31	1.50	1.66
6/29	0.42	0.41	0.41	0.41	0.41	0.42	0.46	0.49	0.89	1.29	1.48	1.66
6/30	0.40	0.42	0.49	0.41	0.47	0.46	0.50	0.50	1.09	1.09	0.85	1.11
7/ 1	0.39	0.40	0.38	0.37	0.37	0.39	0.42	0.47	1.07	1.09	1.05	1.61
7/ 2	0.40	0.39	0.38	0.38	0.38	0.41	0.44	0.48	0.82	1.28	1.43	1.62
7/ 3	0.51	0.51	0.51	0.50	0.50	0.50	0.50	0.53	1.00	1.27	1.48	1.63
7/ 4	0.52	0.51	0.51	0.51	0.51	0.51	0.52	0.53	0.65	0.75	1.46	1.62
7/ 5	0.43	0.44	0.45	0.47	0.47	0.45	0.49	0.50	1.00	1.32	1.46	1.63
7/ 6	0.44	0.44	0.44	0.42	0.41	0.45	0.47	0.50	1.02	1.32	1.54	1.67
	1.75	1.75	1.65	1.48	1.30	1.00	0.68	0.57	0.48	0.47	0.46	0.45

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

TOTAL INCOMING RADIATION (ly/min) AT WHITETHORN--Continued

DATE	HOURLY DATA BEGINNING AT 1100 A.M.											
7/ 7	0.45	0.45	0.45	0.44	0.44	0.44	0.47	0.51	1.03	1.30	1.52	1.67
	1.72	1.72	1.63	1.48	1.29	1.01	0.69	0.58	0.46	0.44	0.46	0.44
7/ 8	0.45	0.45	0.44	0.44	0.43	0.44	0.49	0.57	1.02	1.30	1.54	1.71
	1.79	1.76	1.70	1.53	1.32	1.08	0.76	0.63	0.52	0.47	0.47	0.46
7/ 9	0.45	0.45	0.44	0.45	0.44	0.45	0.51	0.53	0.94	1.18	1.46	1.67
	1.75	1.74	1.74	1.59	1.38	1.14	0.85	0.64	0.48	0.46	0.44	0.46
7/10	0.47	0.46	0.47	0.48	0.52	0.51	0.53	0.54	0.93	1.23	1.45	1.63
	1.73	1.77	1.70	1.57	1.37	1.10	0.81	0.62	0.48	0.50	0.47	0.46
7/11	0.51	0.51	0.52	0.54	0.52	0.53	0.54	0.55	0.92	1.19	1.44	1.60
	1.69	1.74	1.69	1.50	1.34	1.08	0.80	0.62	0.46	0.43	0.42	0.42
7/12	0.41	0.42	0.42	0.41	0.41	0.44	0.47	0.52	0.91	1.31	1.43	1.63
	1.69	1.71	1.65	1.49	1.27	0.98	0.67	0.56	0.45	0.46	0.45	0.45
7/13	0.45	0.44	0.44	0.44	0.44	0.44	0.49	0.53	1.00	1.27	1.48	1.64
	1.73	1.70	1.65	1.47	1.26	0.99	0.70	0.59	0.48	0.45	0.43	0.45
7/14	0.44	0.44	0.44	0.45	0.44	0.45	0.47	0.53	1.03	1.35	1.04	1.69
	1.82	****	****	****	****	****	****	****	****	****	****	****
7/15	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/16	0.45	0.44	0.44	0.44	0.44	0.44	0.49	0.53	1.00	1.27	1.48	1.64
	1.73	1.70	1.65	1.47	1.26	0.99	0.70	0.59	0.48	0.45	0.43	0.45
7/17	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/18	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/19	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	0.97	0.68	0.52	0.48	0.46	0.48	0.46
7/20	0.51	0.52	0.52	0.52	0.53	0.53	0.55	0.56	1.01	1.26	1.50	1.65
	1.73	1.74	1.64	1.46	1.26	1.01	0.70	0.56	0.49	0.47	0.48	0.47
7/21	0.47	0.46	0.45	0.45	0.46	0.47	0.48	0.52	1.00	1.27	1.49	1.65
	1.74	1.73	1.62	1.48	1.25	0.99	0.69	0.55	0.52	0.49	0.47	0.47
7/22	0.49	0.48	0.45	0.47	0.46	0.47	0.48	0.50	1.00	1.27	1.49	1.70
	1.77	1.76	1.68	1.52	1.28	1.02	0.72	0.58	0.54	0.52	0.48	0.47
7/23	0.46	0.46	0.46	0.47	0.43	0.46	0.47	0.49	1.00	1.29	1.52	1.72
	1.81	1.81	1.72	1.51	1.32	1.01	0.70	0.54	0.49	0.47	0.46	0.45
7/24	0.43	0.45	0.44	0.44	0.43	0.44	0.46	0.52	0.99	1.26	1.50	1.69
	1.80	1.77	1.69	1.50	1.30	1.01	0.68	0.54	0.49	0.47	0.44	0.45
7/25	0.46	0.45	0.44	0.43	0.43	0.44	0.46	0.52	0.99	1.25	1.50	1.70
	1.78	1.80	1.70	1.54	1.31	1.02	0.71	0.54	0.54	0.47	0.48	0.45
7/26	0.44	0.45	0.46	0.45	0.45	0.45	0.48	0.52	0.99	1.27	1.50	1.71
	1.77	1.76	1.69	1.52	1.28	0.99	0.70	0.57	0.51	0.51	0.47	0.48
7/27	0.45	0.45	0.46	0.43	0.43	0.45	0.52	0.53	0.97	1.23	1.47	1.61
	1.72	1.73	1.63	1.50	1.25	0.96	0.67	0.56	0.48	0.46	0.45	0.43
7/28	0.44	0.43	0.45	0.44	0.44	0.44	0.48	0.50	0.97	1.25	1.49	1.65
	1.74	1.71	1.64	1.47	1.23	1.01	0.66	0.56	0.52	0.57	0.51	0.55
7/29	0.56	0.53	0.45	0.44	0.43	0.42	0.48	0.54	0.96	1.20	1.41	1.57
	1.65	1.64	1.54	1.37	1.15	0.88	0.58	0.46	0.44	0.43	0.43	0.40
7/30	0.41	0.41	0.41	0.39	0.40	0.40	0.44	0.47	0.94	1.20	1.43	1.57
	1.67	1.66	1.59	1.40	1.19	0.89	0.60	0.47	0.45	0.43	0.41	0.42
7/31	0.42	0.40	0.41	0.42	0.42	0.42	0.45	0.49	0.80	1.19	1.44	1.63
	1.69	1.71	1.65	1.44	1.27	0.97	0.67	0.55	0.48	0.48	0.46	0.44
8/ 1	0.45	0.44	0.43	0.45	0.43	0.43	0.46	0.49	0.55	1.04	1.50	1.63
	1.79	1.76	1.64	1.45	1.24	0.95	0.71	0.56	0.50	0.50	0.48	0.47
8/ 2	0.46	0.46	0.47	0.46	0.46	0.45	0.49	0.52	0.56	0.86	1.49	1.69
	1.75	1.76	1.69	1.51	1.29	0.97	0.69	0.51	0.49	0.47	0.46	0.45

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

TOTAL INCOMING RADIATION (ly/min) AT WHITETHORN--Continued

DATE	HOURLY DATA BEGINNING AT 1100 A.M.											
8/ 3	0.45	0.44	0.43	0.44	0.44	0.43	0.46	0.50	0.55	0.96	1.49	1.67
	1.74	1.76	1.69	1.49	1.23	0.98	0.70	0.56	0.49	0.48	0.45	0.45
8/ 4	0.43	0.42	0.44	0.45	0.40	0.44	0.47	0.50	0.53	0.95	1.47	1.61
	1.70	1.68	1.67	1.46	1.24	0.95	0.66	0.51	0.47	0.45	0.44	0.42
8/ 5	0.41	0.43	0.42	0.41	0.41	0.41	0.47	0.49	0.52	1.14	1.42	1.60
	1.71	1.72	1.63	1.43	1.20	0.92	0.63	0.48	0.46	0.43	0.42	0.41
8/ 6	0.41	0.41	0.40	0.40	0.40	0.41	0.50	0.52	0.46	1.06	1.41	1.65
	1.74	1.77	1.61	1.39	1.13	0.85	0.57	0.44	0.43	0.42	0.42	0.42
8/ 7	0.41	0.41	0.41	0.41	0.41	0.40	0.45	0.49	0.52	1.02	1.42	1.59
	1.64	1.67	1.57	1.41	1.19	0.90	0.63	0.48	0.45	0.46	0.45	0.44
8/ 8	0.44	0.44	0.44	0.43	0.43	0.45	0.48	0.51	0.55	0.92	1.43	1.61
	1.69	1.69	1.58	1.41	1.18	0.91	0.64	0.50	0.49	0.46	0.44	0.43
8/ 9	0.43	0.42	0.42	0.42	0.44	0.44	0.47	0.51	0.55	0.58	1.44	1.60
	1.67	1.69	1.61	1.42	1.19	0.93	0.66	0.51	0.48	0.46	0.45	0.46
8/10	0.45	0.44	0.44	0.45	0.44	0.44	0.48	0.52	0.55	0.58	1.37	1.56
	1.69	1.65	1.52	1.42	1.15	0.87	0.66	0.54	0.51	0.47	0.45	0.45
8/11	0.46	0.45	0.45	0.45	0.43	0.44	0.48	0.52	0.55	0.58	1.36	1.57
	1.67	1.69	1.58	1.43	1.20	0.85	0.63	0.53	0.52	0.49	0.48	0.47
8/12	0.46	0.46	0.46	0.46	0.46	0.46	0.49	0.52	0.55	0.59	1.41	1.54
	1.60	1.61	1.51	1.34	1.09	0.82	0.57	0.49	0.46	0.45	0.44	0.44
8/13	0.43	0.43	0.42	0.44	0.44	0.41	0.45	0.48	0.52	0.55	1.37	1.59
	1.68	1.65	1.57	1.40	1.16	0.88	0.66	0.50	0.47	0.44	0.42	0.43
8/14	0.43	0.42	0.41	0.45	0.45	0.45	0.46	0.50	0.52	0.55	1.40	1.58
	1.67	1.68	1.60	1.41	1.13	0.88	0.65	0.49	0.47	0.44	0.44	0.43
8/15	0.42	0.42	0.42	0.41	0.43	0.41	0.46	0.51	0.52	0.56	1.36	1.55
	1.63	1.66	1.53	1.37	1.15	0.85	0.64	0.49	0.48	0.46	0.45	0.44
8/16	0.43	0.45	0.44	0.44	0.44	0.44	0.46	0.49	0.53	0.56	1.39	1.55
	1.64	1.65	1.56	1.38	1.13	0.84	0.65	0.54	0.49	0.47	0.46	0.49
8/17	0.48	0.50	0.50	0.50	0.51	0.37	0.53	0.55	0.44	0.78	0.90	0.61
	0.40	0.56	0.53	0.57	0.57	0.56	0.56	0.53	0.52	0.53	0.53	0.54
8/18	0.52	0.52	0.53	0.53	0.53	0.53	0.53	0.56	0.57	0.63	0.58	1.56
	0.65	1.90	0.72	0.95	1.08	0.81	0.59	0.45	0.44	0.43	0.42	0.41
8/19	0.41	0.42	0.41	0.41	0.43	0.43	0.51	0.52	0.54	0.55	1.33	1.48
	1.58	1.64	1.63	1.31	1.10	0.81	0.61	0.46	0.63	0.46	0.46	0.43
8/20	0.43	0.46	0.44	0.43	0.50	0.49	0.52	0.52	0.51	0.54	1.36	1.57
	1.65	1.62	1.53	1.36	1.08	0.79	0.64	0.50	0.51	0.49	0.49	0.47
8/21	0.47	0.46	0.46	0.45	0.46	0.45	0.47	0.50	0.55	0.58	1.18	1.52
	1.62	1.61	1.47	1.29	1.04	0.76	0.57	0.46	0.45	0.44	0.43	0.42
8/22	0.43	0.46	0.50	0.51	0.52	0.51	0.53	0.53	0.53	0.54	1.35	1.49
	1.62	1.59	1.48	1.33	0.98	0.90	0.61	0.49	0.45	0.45	0.46	0.46
8/23	0.43	0.46	0.46	0.45	0.46	0.51	0.48	0.52	0.55	0.57	1.36	1.54
	1.69	1.58	1.45	1.31	1.10	0.81	0.63	0.54	0.50	0.49	0.46	0.48
8/24	0.47	0.46	0.46	0.46	0.45	0.45	0.50	0.51	0.54	0.58	1.39	1.28
	1.64	1.61	1.52	1.32	1.10	0.82	0.57	0.48	0.46	0.45	0.43	0.44
8/25	0.43	0.42	0.41	0.43	0.42	0.42	0.43	0.47	0.51	0.55	1.37	1.52
	1.61	1.60	1.50	1.33	1.10	0.76	0.58	0.52	0.49	0.45	0.43	0.43
8/26	0.43	0.42	0.43	0.43	0.43	0.42	0.44	0.47	0.51	0.54	1.31	1.44
	1.51	0.77	0.71	0.75	0.67	0.56	0.54	0.50	0.51	0.51	0.51	0.51
8/27	0.51	0.52	0.51	0.44	0.51	0.49	0.44	0.54	0.53	0.55	0.84	0.88
	0.94	1.32	1.20	0.73	0.56	0.54	0.53	0.51	0.53	0.51	0.45	0.47
8/28	0.46	0.49	0.52	0.51	0.53	0.53	0.53	0.53	0.55	0.72	1.52	1.55
	1.56	1.64	1.41	1.22	0.98	0.67	0.50	0.44	0.42	0.41	0.41	0.42
8/29	0.42	0.41	0.43	0.41	0.43	0.45	0.46	0.48	0.50	0.53	1.31	1.71
	1.04	1.49	1.38	1.24	0.99	0.69	0.52	0.46	0.44	0.45	0.44	0.43



TOTAL INCOMING RADIATION (ly/min) AT WHITETHORN--Continued

DATE	HOURLY DATA BEGINNING AT 1100 A.M.											
8/30	0.44	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.51	0.54	1.34	1.51
8/31	1.61	1.35	1.40	1.25	0.81	0.52	0.39	0.34	0.34	0.35	0.36	0.36
9/ 1	0.36	0.36	0.36	0.36	0.36	0.36	0.39	0.41	0.42	0.43	1.13	1.24
9/ 1	1.29	1.29	1.15	1.04	0.81	0.52	0.36	0.34	0.33	0.34	0.34	0.36
9/ 1	0.36	0.36	0.36	0.36	0.36	0.36	0.38	0.41	0.42	0.43	****	****
9/ 1	****	****	****	****	****	****	****	****	****	****	****	****
9/ 1	0.39	0.40	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49
9/ 1	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61
9/ 1	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73
9/ 1	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85
9/ 1	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97
9/ 1	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09
9/ 1	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21
9/ 1	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.30	1.31	1.32	1.33
9/ 1	1.34	1.35	1.36	1.37	1.38	1.39	1.40	1.41	1.42	1.43	1.44	1.45
9/ 1	1.46	1.47	1.48	1.49	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57
9/ 1	1.58	1.59	1.60	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69
9/ 1	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77	1.78	1.79	1.80	1.81
9/ 1	1.82	1.83	1.84	1.85	1.86	1.87	1.88	1.89	1.90	1.91	1.92	1.93
9/ 1	1.94	1.95	1.96	1.97	1.98	1.99	2.00	2.01	2.02	2.03	2.04	2.05
9/ 1	2.06	2.07	2.08	2.09	2.10	2.11	2.12	2.13	2.14	2.15	2.16	2.17
9/ 1	2.18	2.19	2.20	2.21	2.22	2.23	2.24	2.25	2.26	2.27	2.28	2.29
9/ 1	2.30	2.31	2.32	2.33	2.34	2.35	2.36	2.37	2.38	2.39	2.40	2.41
9/ 1	2.42	2.43	2.44	2.45	2.46	2.47	2.48	2.49	2.50	2.51	2.52	2.53
9/ 1	2.54	2.55	2.56	2.57	2.58	2.59	2.60	2.61	2.62	2.63	2.64	2.65
9/ 1	2.66	2.67	2.68	2.69	2.70	2.71	2.72	2.73	2.74	2.75	2.76	2.77
9/ 1	2.78	2.79	2.80	2.81	2.82	2.83	2.84	2.85	2.86	2.87	2.88	2.89
9/ 1	2.90	2.91	2.92	2.93	2.94	2.95	2.96	2.97	2.98	2.99	3.00	3.01
9/ 1	3.02	3.03	3.04	3.05	3.06	3.07	3.08	3.09	3.10	3.11	3.12	3.13
9/ 1	3.14	3.15	3.16	3.17	3.18	3.19	3.20	3.21	3.22	3.23	3.24	3.25
9/ 1	3.26	3.27	3.28	3.29	3.30	3.31	3.32	3.33	3.34	3.35	3.36	3.37
9/ 1	3.38	3.39	3.40	3.41	3.42	3.43	3.44	3.45	3.46	3.47	3.48	3.49
9/ 1	3.50	3.51	3.52	3.53	3							

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

TOTAL INCOMING RADIATION (ly/min) AT HONEYDEW

DATE	HOURLY DATA BEGINNING AT 1100 A.M.												
6/11	****	****	****	****	****	****	****	****	****	****	****	****	1.81
	1.84	1.83	1.74	1.54	1.33	1.07	0.78	0.47	0.42	0.40	0.39	0.38	
6/12	0.38	0.38	0.38	0.39	0.37	0.40	0.59	0.91	1.19	1.45	1.70	1.83	
	1.87	1.86	1.78	1.61	1.37	1.08	0.81	0.49	0.44	0.42	0.42	0.42	
6/13	0.41	0.42	0.41	0.42	0.40	0.45	0.42	0.42	0.44	1.16	1.49	1.83	
	1.89	1.85	1.96	1.45	1.38	1.11	0.78	0.48	0.42	0.42	0.34	0.40	
6/14	0.40	0.41	0.40	0.39	0.39	0.40	0.62	0.90	1.21	1.46	1.65	1.80	
	1.84	1.89	1.78	1.61	1.39	1.13	0.74	0.50	0.45	0.44	0.49	0.49	
6/15	0.50	0.48	0.44	0.48	0.48	0.49	0.55	0.68	1.27	1.46	1.71	1.86	
	1.93	1.94	1.85	1.67	1.45	1.19	0.79	0.54	0.41	0.44	0.49	0.46	
6/16	0.43	0.38	0.41	0.44	0.45	0.35	0.58	0.85	1.17	1.48	1.68	1.79	
	1.88	1.87	1.74	1.61	1.36	1.06	0.79	0.43	0.40	0.39	0.40	0.40	
6/17	0.39	0.40	0.40	0.41	0.42	0.49	0.56	0.76	1.47	1.37	1.63	1.68	
	1.63	1.77	1.39	1.58	1.06	0.58	0.53	0.45	0.42	0.40	0.43	0.38	
6/18	0.37	0.37	0.37	0.36	0.37	0.39	0.58	0.87	1.16	1.43	1.60	1.75	
	1.83	1.81	1.72	1.54	1.33	1.06	0.74	0.41	0.38	0.37	0.38	0.38	
6/19	0.35	0.42	0.46	0.43	0.47	0.45	0.51	0.81	1.15	1.43	1.62	1.76	
	1.82	1.82	****	****	1.34	1.05	0.76	0.45	0.43	0.41	0.41	0.40	
6/20	0.40	0.40	0.40	0.39	0.40	0.41	0.61	0.89	1.18	1.44	1.67	1.79	
	1.86	1.85	1.76	1.59	1.37	1.07	0.77	0.42	0.38	0.38	0.38	0.38	
6/21	0.38	0.37	0.37	0.38	0.37	0.38	0.58	0.97	1.16	1.45	1.65	1.81	
	1.88	1.86	1.75	1.65	1.39	1.08	0.72	0.41	0.39	0.38	0.37	0.37	
6/22	0.37	0.36	0.36	0.36	0.35	0.37	0.53	0.83	1.13	1.41	1.63	1.71	
	1.83	1.72	1.43	1.46	1.25	0.99	0.88	0.49	0.37	0.36	0.40	0.39	
6/23	0.39	0.36	0.38	0.37	0.37	0.39	0.46	0.74	0.94	1.05	1.21	1.44	
	1.53	1.27	1.51	0.75	0.59	0.94	0.59	0.42	0.17	0.28	0.28	0.35	
6/24	0.37	0.39	0.39	0.33	0.36	0.46	0.52	0.86	1.13	0.81	0.85	1.07	
	1.11	2.10	1.87	1.47	0.71	1.32	0.78	0.41	0.37	0.36	0.35	0.36	
6/25	0.36	0.35	0.36	0.36	0.38	0.37	0.56	0.87	1.08	1.73	1.67	1.76	
	1.83	1.82	1.71	1.57	1.33	1.12	0.81	0.43	0.39	0.36	0.36	0.39	
6/26	0.35	0.36	0.36	0.36	0.38	0.43	0.53	0.86	1.17	1.43	1.62	1.73	
	1.81	1.79	1.74	1.55	1.32	1.06	0.77	0.47	0.35	0.34	0.35	0.37	
6/27	0.36	0.35	0.36	0.36	0.35	0.35	0.52	0.79	1.10	1.35	1.57	1.73	
	1.80	1.79	1.72	1.55	1.29	1.05	0.73	0.43	0.32	0.32	0.32	0.34	
6/28	0.35	0.34	0.34	0.35	0.35	0.36	0.51	0.79	1.11	1.35	1.59	1.71	
	1.83	1.81	1.71	1.54	1.31	1.07	0.78	0.46	0.31	0.32	0.32	0.33	
6/29	0.35	0.34	0.34	0.34	0.35	0.35	0.51	0.79	1.07	1.32	1.59	1.75	
	1.81	1.81	1.73	1.56	1.37	1.08	0.74	0.45	0.38	0.37	0.36	0.36	
6/30	0.36	0.35	0.36	0.39	0.36	0.38	0.51	0.79	1.11	****	****	****	
	****	****	****	1.59	1.30	1.02	0.75	0.40	0.36	0.35	0.35	0.35	
7/ 1	0.34	0.34	0.34	0.34	0.34	0.36	0.52	0.79	0.98	1.16	1.75	2.03	
	2.03	1.85	1.78	1.57	1.31	1.03	0.72	0.36	0.33	0.33	0.34	0.34	
7/ 2	0.35	0.34	0.33	0.34	0.35	0.35	0.53	0.81	1.12	****	****	****	
	****	****	****	1.57	1.30	1.02	0.71	0.39	0.40	0.35	0.36	0.43	
7/ 3	0.46	0.45	0.44	0.39	0.40	0.39	0.52	0.79	1.09	1.35	1.59	1.72	
	1.79	1.77	1.68	1.53	1.31	1.05	0.73	0.42	0.37	0.35	0.35	0.35	
7/ 4	0.35	0.35	0.36	0.35	0.35	0.36	0.40	0.69	1.11	1.17	1.62	1.75	
	1.82	1.35	1.37	0.90	0.83	0.84	0.53	0.44	0.37	0.36	0.36	0.35	
7/ 5	0.36	0.35	0.34	0.35	0.36	0.55	0.78	1.08	1.40	1.62	1.73	1.70	
	1.74	1.65	1.49	1.26	1.25	0.99	0.69	0.37	0.32	0.32	0.33	0.33	
7/ 6	0.34	0.34	0.34	0.35	0.35	0.36	0.52	0.83	1.13	0.90	1.63	1.74	
	1.82	1.81	1.70	1.53	1.35	1.02	0.72	0.39	0.34	0.33	0.41	0.43	
7/ 7	0.36	0.45	0.44	0.44	0.44	0.44	0.50	0.60	0.75	****	****	****	
	****	****	****	1.37	1.29	1.02	0.72	0.39	0.34	0.33	0.33	0.33	

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

TOTAL INCOMING RADIATION (ly/min) AT HONEYDEW--Continued

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.											
7/ 8	0.34	0.34	0.34	0.34	0.35	0.37	0.54	0.82	1.15	1.40	1.60	1.77
	1.84	1.85	1.74	1.59	1.35	1.06	0.73	0.36	0.32	0.31	0.32	
7/ 9	0.32	0.32	0.32	0.34	0.34	0.35	0.54	0.83	1.13	1.40	1.61	1.78
	1.82	1.79	1.72	1.58	1.36	1.07	0.76	0.42	0.35	0.34	0.34	0.34
7/10	0.35	0.35	0.36	0.36	0.36	0.39	0.54	0.83	1.13	1.41	1.65	1.78
	1.82	1.82	1.75	1.59	1.36	1.08	0.77	0.46	0.39	0.38	0.37	0.37
7/11	0.37	0.38	0.38	0.39	0.40	0.40	0.56	0.83	1.11	1.37	1.64	1.78
	1.85	1.85	1.74	1.59	1.35	1.06	0.75	0.40	0.35	0.35	0.34	0.33
7/12	0.35	0.34	0.35	0.35	0.35	0.36	0.53	0.82	1.15	1.43	1.64	1.77
	1.85	1.82	1.71	1.54	1.30	1.03	0.72	0.40	0.37	0.37	0.37	0.36
7/13	0.36	0.36	0.36	0.37	0.36	0.38	0.53	0.81	1.13	1.41	1.61	1.77
	1.83	1.82	1.74	1.56	1.35	1.08	0.75	0.43	0.37	0.36	0.35	0.37
7/14	0.36	0.37	0.38	0.38	0.39	0.41	0.58	0.88	1.18	1.21	0.83	1.01
	0.96	1.27	1.66	1.55	0.97	1.12	0.53	0.49	0.43	0.46	0.45	0.46
7/15	0.46	0.28	0.31	0.43	0.45	0.49	0.56	0.74	0.88	0.86	1.06	1.29
	1.25	1.35	2.08	1.07	0.93	0.80	0.61	0.54	0.44	0.47	0.44	0.41
7/16	0.41	0.41	0.41	0.41	0.40	0.42	0.53	0.64	1.17	1.39	1.60	1.77
	1.86	1.83	1.73	1.61	1.37	1.07	0.58	0.45	0.41	0.40	0.40	0.40
7/17	0.39	0.39	0.40	0.39	0.39	0.39	0.55	0.83	1.15	1.44	1.64	1.77
	1.84	1.83	1.73	1.58	1.35	1.07	0.76	0.43	0.40	0.40	0.40	0.39
7/18	0.40	0.37	0.38	0.39	0.40	0.39	0.57	0.83	1.13	1.40	1.63	1.77
	1.83	1.83	1.73	1.58	1.36	1.02	0.76	0.46	0.43	0.42	0.42	0.41
7/19	0.41	0.40	0.40	0.40	0.40	0.41	0.57	0.84	1.15	1.42	1.63	1.77
	1.82	1.83	1.74	1.57	1.34	1.09	0.77	0.45	0.42	0.41	0.39	0.41
7/20	0.41	0.41	0.41	0.41	0.40	0.41	0.55	0.83	1.13	1.41	1.59	1.78
	1.86	1.86	1.81	1.58	1.36	1.06	0.74	0.44	0.35	0.38	0.41	0.39
7/21	0.40	0.40	0.36	0.37	0.38	0.39	0.54	0.83	1.14	1.37	1.64	1.80
	1.82	1.86	1.76	1.57	1.32	0.97	0.71	0.43	0.41	0.39	0.39	0.38
7/22	0.39	0.39	0.38	0.38	0.37	0.39	0.54	0.83	1.15	1.40	1.65	1.79
	1.87	1.85	1.77	1.58	1.37	1.09	0.78	0.45	0.42	0.39	0.39	0.39
7/23	0.38	0.38	0.38	0.39	0.37	0.39	0.52	0.81	1.14	1.44	1.68	1.83
	1.91	1.88	1.78	1.58	1.35	1.02	0.71	0.41	0.37	0.37	0.36	0.37
7/24	0.37	0.37	0.38	0.37	0.37	0.38	0.53	0.81	1.11	1.40	1.67	1.83
	1.89	1.84	1.74	1.58	1.34	1.03	0.71	0.40	0.35	0.38	0.37	0.38
7/25	0.38	0.38	0.38	0.38	0.37	0.38	0.55	0.80	1.12	1.40	1.62	1.79
	1.86	1.84	1.75	1.57	1.33	1.05	0.69	0.38	0.35	0.36	0.35	0.36
7/26	0.34	0.36	0.37	0.37	0.37	0.38	0.52	0.78	1.13	1.41	1.61	1.83
	1.85	1.81	1.71	1.53	1.29	0.99	0.70	0.41	0.39	0.37	0.37	0.37
7/27	0.39	0.39	0.39	0.39	0.38	0.38	0.52	0.80	1.16	1.36	1.60	1.74
	1.81	1.80	1.71	1.53	1.28	1.01	0.70	0.41	0.38	0.36	0.35	0.34
7/28	0.34	0.38	0.36	0.38	0.36	0.37	0.50	0.78	1.09	1.39	1.59	1.74
	1.80	1.78	1.67	1.50	1.26	0.95	0.66	0.37	0.37	0.36	0.37	0.44
7/29	0.40	0.41	0.39	0.37	0.36	0.37	0.57	0.86	1.09	1.33	1.50	1.65
	1.74	1.76	1.63	1.41	1.21	0.90	0.55	0.38	0.33	0.33	0.33	0.34
7/30	0.33	0.34	0.32	0.36	0.36	0.36	0.47	0.75	1.05	1.34	1.56	1.69
	1.77	1.75	1.65	1.48	1.22	0.94	0.64	0.37	0.35	0.34	0.34	0.35
7/31	0.35	0.35	0.35	0.34	0.35	0.34	0.47	0.76	1.06	1.36	1.60	1.75
	1.83	1.82	1.69	1.49	1.24	0.93	0.62	0.33	0.29	0.31	0.32	0.31
8/ 1	0.33	0.33	0.35	0.35	0.35	0.35	0.47	0.75	1.07	1.38	1.60	1.78
	1.83	1.81	1.69	1.52	1.28	0.98	0.66	0.36	0.32	0.33	0.33	0.34
8/ 2	0.34	0.35	0.35	0.36	0.37	0.36	0.48	0.75	1.07	1.39	1.62	1.78
	1.84	1.82	1.73	1.54	1.31	1.00	0.68	0.38	0.36	0.36	0.35	0.37
8/ 3	0.35	0.37	0.37	0.36	0.35	0.37	0.47	0.77	1.07	1.37	1.60	1.75
	1.78	1.79	1.71	1.52	1.28	0.98	0.66	0.37	0.34	0.34	0.34	0.36

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

TOTAL INCOMING RADIATION (ly/min) AT HONEYDEW--Continued

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.											
8/ 4	0.35	0.36	0.36	0.36	0.35	0.36	0.46	0.75	1.07	1.36	1.60	1.76
	1.84	1.82	1.71	1.51	1.31	0.96	0.65	0.36	0.33	0.35	0.34	0.35
8/ 5	0.35	0.35	0.35	0.36	0.36	0.36	0.47	0.76	1.08	1.36	1.60	1.77
	1.85	1.82	1.71	1.54	1.29	1.00	0.67	0.39	0.36	0.37	0.37	0.36
8/ 6	0.36	0.35	0.36	0.35	0.35	0.46	0.53	0.56	1.02	1.32	1.55	1.69
	1.79	1.94	1.67	1.46	1.22	0.95	0.51	0.44	0.41	0.38	0.38	0.38
8/ 7	0.37	0.37	0.36	0.37	0.36	0.36	0.46	0.75	1.04	1.34	1.58	1.71
	1.79	1.78	1.66	1.48	1.31	0.96	0.65	0.39	0.37	0.39	0.39	0.40
8/ 8	0.40	0.40	0.39	0.40	0.39	0.39	0.51	0.77	1.08	1.36	1.60	1.74
	1.80	1.79	1.68	1.53	1.29	1.00	0.62	0.42	0.37	0.39	0.38	0.35
8/ 9	0.36	0.37	0.37	0.37	0.37	0.39	0.48	0.74	1.04	1.34	1.58	1.72
	1.81	1.77	1.69	1.52	1.27	0.96	0.65	0.41	0.38	0.36	0.38	0.40
8/10	0.39	0.39	0.39	0.39	0.39	0.40	0.48	0.72	1.04	1.31	1.60	1.75
	1.81	1.79	1.67	1.46	1.37	0.93	0.68	0.42	0.39	0.39	0.39	0.39
8/11	0.38	0.40	0.39	0.38	0.38	0.38	0.46	0.71	1.02	1.33	1.55	1.72
	1.77	1.78	1.65	1.48	1.27	0.96	0.66	0.41	0.37	0.38	0.39	0.38
8/12	0.38	0.39	0.39	0.37	0.38	0.38	0.45	0.71	1.02	1.29	1.53	1.67
	1.73	1.72	1.62	1.45	1.21	0.91	0.59	0.39	0.37	0.37	0.35	0.36
8/13	0.46	0.47	0.47	0.47	0.47	0.47	0.50	0.73	1.03	1.31	1.56	1.72
	1.78	1.77	1.67	1.49	1.26	0.96	0.64	0.37	0.38	0.37	0.35	0.38
8/14	0.36	0.36	0.37	0.36	0.36	0.37	0.40	0.71	1.03	1.32	1.49	1.71
	1.78	1.76	1.66	1.47	1.19	0.94	0.63	0.37	0.36	0.35	0.35	0.37
8/15	0.36	0.36	0.37	0.36	0.36	0.36	0.41	0.72	****	****	****	****
	****	****	****	1.49	1.33	1.03	0.67	0.40	0.37	0.38	0.38	0.38
8/16	0.38	0.37	0.38	0.38	0.38	0.38	0.39	0.55	0.94	1.23	1.49	1.61
	1.76	1.76	1.67	1.53	1.24	1.01	0.60	0.43	0.40	0.43	0.42	0.42
8/17	0.45	0.47	0.46	0.47	0.47	0.47	0.51	0.57	0.84	0.86	0.80	0.68
	0.30	0.36	0.38	0.96	0.71	0.74	0.54	0.51	0.48	0.27	0.44	0.47
8/18	0.49	0.47	0.49	0.49	0.49	0.47	0.52	0.54	0.75	0.73	1.71	1.85
	0.99	1.86	1.79	1.57	1.25	0.90	0.60	0.41	0.38	0.37	0.38	0.37
8/19	0.37	0.37	0.37	0.37	0.38	0.38	0.40	0.68	0.99	1.29	1.53	1.69
	1.77	1.75	1.65	1.48	1.22	0.92	0.61	0.41	0.39	0.39	0.39	0.38
8/20	0.38	0.39	0.38	0.38	0.39	0.39	0.41	0.70	1.02	1.33	1.58	1.69
	1.83	1.81	0.77	1.49	1.24	0.96	0.63	0.45	0.42	0.43	0.43	0.42
8/21	0.41	0.41	0.41	0.41	0.40	0.40	0.42	0.72	0.85	1.30	1.55	1.70
	1.75	1.73	1.65	1.47	1.21	0.94	0.63	0.45	0.43	0.43	0.42	0.41
8/22	0.41	0.39	0.40	0.39	0.38	0.39	0.42	0.69	1.01	1.31	1.56	1.70
	1.80	1.71	1.63	1.45	1.04	0.98	0.59	0.43	0.42	0.41	0.41	0.40
8/23	0.42	0.41	0.42	0.43	0.48	0.42	0.45	0.71	0.80	1.03	1.63	1.65
	1.70	1.46	1.33	1.50	1.25	0.96	0.63	0.45	0.44	0.44	0.44	0.42
8/24	0.42	0.42	0.42	0.42	0.42	0.42	0.44	0.72	1.04	1.34	1.58	1.72
	1.83	1.81	1.70	1.52	1.25	0.93	0.61	0.43	0.41	0.39	0.39	0.38
8/25	0.37	0.37	0.37	0.37	0.35	0.36	0.38	0.68	1.02	1.30	1.57	1.73
	1.81	1.78	1.66	1.49	1.23	0.93	0.60	0.43	0.41	0.40	0.40	0.39
8/26	0.38	0.38	0.38	0.37	0.38	0.38	0.51	0.58	0.76	1.27	1.51	1.66
	1.73	1.70	1.62	1.44	1.17	0.87	0.57	0.42	0.48	0.50	0.50	0.48
8/27	0.49	0.49	0.51	0.49	0.48	0.50	0.48	0.63	0.82	0.82	1.10	2.02
	1.73	1.06	0.96	0.69	0.54	0.34	0.50	0.27	0.45	0.49	0.31	0.34
8/28	0.42	0.46	0.52	0.50	0.51	0.52	0.52	0.58	0.81	1.09	1.48	1.62
	1.82	1.74	1.61	1.41	1.15	0.86	0.55	0.41	0.38	0.37	0.38	0.38
8/29	0.38	0.38	0.38	0.36	0.37	0.37	0.39	0.71	1.19	1.35	1.60	1.68
	1.49	1.85	1.06	1.50	1.15	0.85	0.56	0.42	0.41	0.41	0.40	0.40
8/30	0.39	0.39	0.38	0.38	0.38	0.37	0.39	0.65	0.97	1.27	1.73	1.92
	1.91	1.71	1.59	1.45	1.16	0.86	0.53	0.42	0.40	0.40	0.40	0.39



TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

INCOMING SHORTWAVE RADIATION (ly/min) AT HONEYDEW

DATE HOURLY DATA BEGINNING AT 1:00 A.M.

6/11	****	****	****	****	****	****	****	****	****	****	****	1.22
	1.30	1.24	1.18	1.01	0.78	0.53	0.26	0.00	0.00	0.00	0.00	0.00
6/12	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.39	0.69	0.93	1.11	1.23
	1.28	1.25	1.15	1.00	0.75	0.50	0.22	0.00	0.00	0.00	0.00	0.00
6/13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.27	0.50	0.76	1.07
	1.08	1.05	1.19	0.56	0.59	0.36	0.09	0.00	0.00	0.00	0.00	0.00
6/14	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.39	0.66	0.82	0.99	1.19
	1.24	****	****	****	****	****	****	****	****	****	****	****
6/15	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/16	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/17	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/18	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/19	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/20	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/21	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/22	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/23	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/24	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/25	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/26	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/27	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/28	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/29	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
6/30	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/ 1	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	1.22	1.06	0.80	0.54	0.28	0.02	0.00	0.00	0.00	0.00
7/ 2	0.00	0.00	0.00	0.00	0.00	0.02	0.28	0.48	0.86	****	****	****
	****	****	****	1.02	0.80	0.54	0.30	0.04	0.00	0.00	0.00	0.00
7/ 3	0.00	0.00	0.00	0.00	0.00	0.02	0.20	0.44	0.70	0.94	1.14	1.28
	1.32	1.26	1.16	1.00	0.78	0.54	0.28	0.04	0.00	0.00	0.00	0.00
7/ 4	0.00	0.00	0.00	0.00	0.00	0.02	0.12	0.30	0.70	0.80	1.12	1.24
	1.32	0.76	0.82	0.40	0.34	0.42	0.14	0.06	0.00	0.00	0.00	0.00
7/ 5	0.00	0.00	0.00	0.00	0.00	0.02	0.22	0.40	0.70	0.96	1.12	1.24
	1.32	1.28	1.20	1.02	0.82	0.56	0.30	0.04	0.00	0.00	0.00	0.00
7/ 6	0.00	0.00	0.00	0.00	0.00	0.02	0.26	0.46	0.70	0.94	1.12	1.24
	1.32	1.30	1.20	1.04	0.82	0.56	0.30	0.04	0.00	0.00	0.00	0.00
7/ 7	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.16	0.32	****	****	****
	****	****	****	0.98	0.78	0.54	0.28	0.02	0.00	0.00	0.00	0.00

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

INCOMING SHORTWAVE RADIATION (ly/min) AT MONEYDEW--Continued

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.											
7/ 8	0.00	0.00	0.00	0.00	0.00	0.02	0.28	0.57	0.72	1.00	1.14	1.26
	1.34	1.30	1.20	1.04	0.82	0.56	0.30	0.04	0.00	0.00	0.00	0.00
7/ 9	0.00	0.00	0.00	0.00	0.00	0.02	0.22	0.58	0.74	0.96	1.12	1.26
	1.32	1.32	1.20	1.02	0.80	0.56	0.28	0.02	0.00	0.00	0.00	0.00
7/10	0.00	0.00	0.00	0.00	0.00	0.02	0.20	0.46	0.72	0.94	1.12	1.24
	1.32	1.28	1.18	1.00	0.78	0.52	0.28	0.02	0.00	0.00	0.00	0.00
7/11	0.00	0.00	0.00	0.00	0.00	0.02	0.20	0.44	0.70	0.94	1.10	1.24
	1.30	1.28	1.16	0.98	0.78	0.52	0.28	0.02	0.00	0.00	0.00	0.00
7/12	0.00	0.00	0.00	0.00	0.00	0.02	0.20	0.48	0.72	0.96	1.12	1.26
	1.30	1.28	1.16	1.00	0.78	0.52	0.28	0.02	0.00	0.00	0.00	0.00
7/13	0.00	0.00	0.00	0.00	0.00	0.02	0.20	0.46	0.72	0.94	1.12	1.24
	1.30	1.30	1.18	1.00	0.58	0.52	0.28	0.02	0.00	0.00	0.00	0.00
7/14	0.00	0.00	0.00	0.00	0.00	0.02	0.24	0.40	0.60	0.44	0.48	0.52
	0.38	0.78	0.78	0.76	0.36	0.14	0.10	0.02	0.00	0.00	0.00	0.00
7/15	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.18	0.50	0.32	0.58	0.54
	1.00	1.20	1.40	0.50	0.30	0.20	0.12	0.04	0.00	0.00	0.00	0.00
7/16	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.20	0.72	1.08	1.10	1.24
	1.28	1.26	1.16	1.02	0.78	0.46	0.26	0.04	0.00	0.00	0.00	0.00
7/17	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.42	0.68	0.94	1.10	1.24
	1.30	1.28	1.18	1.00	0.78	0.52	0.28	0.02	0.00	0.00	0.00	0.00
7/18	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.42	0.68	0.92	1.10	1.24
	1.28	1.26	1.16	1.00	0.78	0.52	0.26	0.02	0.00	0.00	0.00	0.00
7/19	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.44	0.68	0.92	1.10	1.24
	1.28	1.26	1.16	1.00	0.78	0.52	0.26	0.02	0.00	0.00	0.00	0.00
7/20	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.42	0.68	0.90	1.08	1.22
	1.28	1.24	1.16	0.98	0.76	0.52	0.28	0.04	0.00	0.00	0.00	0.00
7/21	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.42	0.68	0.92	1.10	1.24
	1.28	1.26	1.16	1.00	0.78	0.50	****	****	****	0.00	0.00	0.00
7/22	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.36	0.60	0.84	1.04	1.18
	1.26	1.28	1.24	1.08	0.88	0.62	0.34	****	****	0.00	0.00	0.00
7/23	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.58	0.82	1.04	1.18	1.28
	1.30	1.26	1.12	0.92	0.66	0.38	0.14	0.00	0.00	0.00	0.00	0.00
7/24	0.00	0.00	0.00	0.00	0.00	0.00	****	****	****	****	****	****
	1.26	1.26	1.18	1.02	0.80	0.54	0.24	0.02	0.00	0.00	0.00	0.00
7/25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****	****	****	****	****
	****	1.26	1.18	1.00	0.72	0.48	0.22	0.04	0.00	0.00	0.00	0.00
7/26	0.00	0.00	0.00	0.00	0.00	0.02	0.22	0.46	0.72	0.96	1.12	1.24
	1.28	1.24	1.12	0.94	0.72	0.46	0.16	0.02	0.00	0.00	0.00	0.00
7/27	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.34	0.58	0.82	1.06	1.18
	1.24	1.24	****	****	****	****	****	****	****	****	****	****
7/28	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/29	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/30	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
7/31	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
8/ 1	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
8/ 2	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	****	****	****	****	****
8/ 3	****	****	****	****	****	****	****	****	****	****	****	****
	****	****	****	****	****	****	****	0.02	0.00	0.00	0.00	0.00

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

TOTAL INCOMING RADIATION (ly/min) AT HONEYDEW--Continued

DATE	HOURLY DATA BEGINNING AT 1100 A.M.												
8/ 4	0.35	0.36	0.36	0.36	0.35	0.36	0.46	0.75	1.07	1.36	1.60	1.76	
	1.84	1.82	1.71	1.51	1.31	0.96	0.65	0.36	0.33	0.35	0.34	0.35	
8/ 5	0.35	0.35	0.35	0.36	0.36	0.36	0.47	0.76	1.08	1.36	1.60	1.77	
	1.85	1.82	1.71	1.54	1.29	1.00	0.67	0.39	0.36	0.37	0.37	0.36	
8/ 6	0.36	0.35	0.36	0.35	0.35	0.46	0.53	0.56	1.02	1.37	1.55	1.69	
	1.79	1.94	1.67	1.46	1.22	0.95	0.51	0.44	0.41	0.38	0.38	0.38	
8/ 7	0.37	0.37	0.36	0.37	0.36	0.36	0.46	0.75	1.04	1.34	1.58	1.71	
	1.79	1.78	1.66	1.48	1.31	0.96	0.65	0.39	0.37	0.39	0.39	0.40	
8/ 8	0.40	0.40	0.39	0.40	0.39	0.39	0.51	0.77	1.08	1.36	1.60	1.74	
	1.80	1.79	1.68	1.53	1.29	1.00	0.62	0.42	0.37	0.39	0.38	0.35	
8/ 9	0.36	0.37	0.37	0.37	0.37	0.39	0.48	0.74	1.04	1.34	1.58	1.72	
	1.81	1.77	1.69	1.52	1.27	0.96	0.65	0.41	0.38	0.36	0.38	0.40	
8/10	0.39	0.39	0.39	0.39	0.39	0.40	0.48	0.72	1.04	1.31	1.60	1.75	
	1.81	1.79	1.67	1.46	1.37	0.93	0.68	0.42	0.39	0.39	0.39	0.39	
8/11	0.38	0.40	0.39	0.38	0.38	0.38	0.46	0.71	1.02	1.33	1.55	1.72	
	1.77	1.78	1.65	1.48	1.27	0.96	0.66	0.41	0.37	0.38	0.39	0.38	
8/12	0.38	0.39	0.39	0.37	0.38	0.38	0.45	0.71	1.02	1.29	1.53	1.67	
	1.73	1.72	1.62	1.45	1.21	0.91	0.59	0.39	0.37	0.37	0.35	0.36	
8/13	0.46	0.47	0.47	0.47	0.47	0.47	0.50	0.73	1.03	1.31	1.56	1.72	
	1.78	1.77	1.67	1.49	1.26	0.96	0.64	0.37	0.38	0.37	0.35	0.38	
8/14	0.36	0.36	0.37	0.36	0.36	0.37	0.40	0.71	1.03	1.32	1.49	1.71	
	1.78	1.76	1.66	1.47	1.19	0.94	0.63	0.37	0.36	0.35	0.35	0.37	
8/15	0.36	0.36	0.37	0.36	0.36	0.36	0.41	0.72	****	****	****	****	
	****	****	****	1.49	1.33	1.03	0.67	0.40	0.37	0.38	0.38	0.38	
8/16	0.38	0.37	0.38	0.38	0.38	0.38	0.39	0.55	0.94	1.23	1.49	1.61	
	1.76	1.76	1.67	1.53	1.24	1.01	0.60	0.43	0.40	0.43	0.42	0.42	
8/17	0.45	0.47	0.46	0.47	0.47	0.47	0.51	0.57	0.84	0.86	0.80	0.68	
	0.30	0.36	0.38	0.96	0.71	0.74	0.54	0.51	0.48	0.27	0.44	0.47	
8/18	0.49	0.47	0.49	0.49	0.49	0.47	0.52	0.54	0.75	0.73	1.71	1.85	
	0.99	1.86	1.79	1.57	1.25	0.90	0.60	0.41	0.38	0.37	0.38	0.37	
8/19	0.37	0.37	0.37	0.37	0.38	0.38	0.40	0.68	0.99	1.29	1.53	1.69	
	1.77	1.75	1.65	1.48	1.22	0.92	0.61	0.41	0.39	0.39	0.39	0.38	
8/20	0.38	0.39	0.38	0.38	0.39	0.39	0.41	0.70	1.02	1.33	1.58	1.49	
	1.83	1.81	0.77	1.49	1.24	0.96	0.63	0.45	0.42	0.43	0.43	0.42	
8/21	0.41	0.41	0.41	0.41	0.40	0.40	0.42	0.72	0.85	1.30	1.55	1.70	
	1.75	1.73	1.65	1.47	1.21	0.94	0.63	0.45	0.43	0.43	0.42	0.41	
8/22	0.41	0.39	0.40	0.39	0.38	0.39	0.42	0.69	1.01	1.31	1.56	1.70	
	1.80	1.71	1.63	1.45	1.04	0.98	0.59	0.43	0.42	0.41	0.41	0.40	
8/23	0.42	0.41	0.42	0.43	0.48	0.42	0.45	0.71	0.80	1.03	1.63	1.65	
	1.70	1.46	1.33	1.50	1.25	0.96	0.63	0.45	0.44	0.44	0.44	0.42	
8/24	0.42	0.42	0.42	0.42	0.42	0.42	0.44	0.72	1.04	1.34	1.58	1.72	
	1.83	1.81	1.70	1.52	1.25	0.93	0.61	0.43	0.41	0.39	0.39	0.38	
8/25	0.37	0.37	0.37	0.37	0.35	0.36	0.38	0.68	1.02	1.30	1.57	1.73	
	1.81	1.78	1.66	1.49	1.23	0.93	0.60	0.43	0.41	0.40	0.40	0.39	
8/26	0.38	0.38	0.38	0.37	0.38	0.38	0.51	0.58	0.76	1.27	1.51	1.66	
	1.73	1.70	1.62	1.44	1.17	0.87	0.57	0.42	0.48	0.50	0.50	0.48	
8/27	0.49	0.49	0.51	0.49	0.48	0.50	0.48	0.63	0.82	0.82	1.10	2.02	
	1.73	1.06	0.96	0.69	0.54	0.34	0.50	0.27	0.45	0.49	0.31	0.34	
8/28	0.42	0.46	0.52	0.50	0.51	0.52	0.52	0.58	0.81	1.09	1.48	1.62	
	1.82	1.74	1.61	1.41	1.15	0.86	0.55	0.41	0.38	0.37	0.38	0.38	
8/29	0.38	0.38	0.38	0.36	0.37	0.37	0.39	0.71	1.19	1.35	1.60	1.68	
	1.49	1.85	1.06	1.50	1.15	0.85	0.56	0.47	0.41	0.41	0.40	0.40	
8/30	0.39	0.39	0.38	0.38	0.38	0.37	0.39	0.65	0.97	1.27	1.73	1.92	
	1.91	1.71	1.59	1.45	1.16	0.86	0.53	0.42	0.40	0.40	0.40	0.39	

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

WET-BULB AIR TEMPERATURE (°C) AT WHITETHORN

DATE	HOURLY DATA BEGINNING AT 1100 A.M.											
6/10	****	****	****	****	****	****	****	****	****	****	****	****
6/11	9.3	8.3	7.5	6.8	6.3	5.5	6.0	8.3	12.5	16.3	20.0	19.8
6/12	18.8	18.3	18.3	16.3	16.0	18.8	16.0	13.5	11.3	9.0	8.3	7.0
6/13	6.0	5.5	5.0	4.8	4.3	3.8	4.3	7.0	11.5	14.8	12.8	21.5
6/14	24.3	24.5	23.5	21.5	22.0	22.0	21.0	17.3	15.0	13.3	12.0	11.3
6/15	10.3	9.8	9.0	8.3	7.5	7.0	7.3	10.0	14.5	18.0	21.3	22.3
6/16	25.0	24.8	24.8	25.0	23.5	22.5	21.0	17.8	14.3	12.8	11.8	11.0
6/17	10.0	9.5	8.8	8.0	7.5	7.0	7.5	8.3	13.5	17.0	21.5	20.8
6/18	20.0	18.8	18.3	17.8	17.3	17.0	16.0	13.0	10.8	9.8	9.0	8.5
6/19	7.8	7.0	6.8	6.5	6.0	5.5	6.0	8.8	12.8	16.5	19.3	21.3
6/20	21.3	22.5	22.3	22.0	20.8	19.5	16.8	14.0	11.0	9.3	8.5	7.5
6/21	7.0	6.3	5.3	4.5	4.3	4.5	6.0	7.0	11.3	13.3	15.8	17.8
6/22	18.5	18.3	17.5	16.8	15.8	14.0	13.5	10.5	8.3	7.3	6.8	7.3
6/23	7.0	6.3	5.8	5.5	5.3	5.3	7.0	7.8	9.3	9.5	10.8	12.3
6/24	12.0	13.3	13.5	12.5	13.0	12.3	10.0	8.8	7.3	7.0	6.0	5.3
6/25	4.5	3.8	3.3	2.8	2.8	3.0	4.3	6.0	10.0	11.3	13.8	14.0
6/26	16.5	16.0	16.5	16.0	15.3	14.3	12.5	10.3	8.5	7.0	6.3	5.5
6/27	6.0	5.3	5.0	5.0	6.0	7.0	8.3	8.8	10.5	12.0	13.3	16.5
6/28	17.0	18.8	19.5	18.8	18.8	17.3	16.0	14.3	11.3	9.8	8.5	6.0
6/29	7.3	7.5	8.3	8.8	9.0	9.0	9.0	9.3	12.8	14.8	17.3	19.8
6/30	20.5	20.3	19.8	19.8	19.3	17.5	16.3	12.8	9.0	8.0	7.5	6.8
7/ 1	5.5	5.3	4.5	4.0	3.8	3.3	3.3	5.5	9.5	12.0	14.5	17.3
7/ 2	18.8	18.8	19.0	18.5	18.5	18.3	14.8	12.5	10.0	8.5	7.3	7.0
7/ 3	6.5	5.8	4.5	4.3	4.3	4.0	5.5	6.5	10.3	12.8	15.0	17.3
7/ 4	18.8	19.8	15.0	17.3	17.0	15.0	12.5	10.8	10.5	6.5	6.3	6.3
7/ 5	5.5	4.8	4.0	3.5	2.8	2.5	5.0	6.0	9.3	10.5	11.0	12.0
7/ 6	10.5	11.3	13.3	11.8	10.3	10.8	10.3	9.5	9.3	9.3	7.5	5.5
7/ 7	4.5	4.3	4.3	4.5	4.8	5.3	5.0	5.3	8.0	9.0	9.8	10.8
7/ 8	11.0	12.5	12.8	11.8	12.5	10.5	11.0	9.5	6.8	5.5	5.5	4.8
7/ 9	4.0	2.8	2.5	2.3	2.5	2.3	2.8	3.8	7.3	10.5	11.8	15.0
7/10	16.8	17.0	16.5	14.5	15.0	13.5	13.8	11.8	10.0	8.8	7.5	6.3
7/11	5.3	5.8	4.3	3.5	3.0	2.5	2.5	5.8	9.0	11.5	12.5	13.8
7/12	15.5	15.3	16.0	15.5	13.8	13.3	12.3	9.5	8.0	7.3	6.3	6.0
7/13	5.3	4.3	3.5	3.3	2.8	2.5	3.5	6.3	9.5	11.0	13.0	14.8
7/14	16.3	16.5	16.0	16.3	16.3	15.3	13.5	11.0	9.3	8.3	6.8	5.8
7/15	5.0	4.3	3.8	3.5	3.3	3.0	3.3	6.3	9.8	12.5	14.8	15.8
7/16	17.5	17.5	17.8	18.0	17.3	16.3	14.5	11.8	9.3	7.0	6.0	5.3
7/17	4.5	3.8	3.3	2.5	2.3	1.8	2.5	5.5	9.3	11.5	13.0	16.3
7/18	16.8	18.5	18.0	18.3	18.5	14.8	14.8	12.3	10.3	8.8	7.0	5.8
7/19	5.0	4.3	5.5	5.8	6.3	6.0	6.8	6.8	9.5	10.5	11.5	12.5
7/20	14.0	13.8	14.8	14.5	14.0	12.8	13.3	11.0	9.5	7.8	6.3	5.0
7/21	4.0	3.0	2.3	1.5	1.3	0.5	0.8	3.8	8.5	11.0	12.3	15.0
7/22	14.0	15.8	14.5	15.8	15.8	15.3	13.8	11.3	9.3	8.3	7.0	5.8
7/23	5.0	4.0	3.5	2.8	2.3	1.8	2.3	6.3	9.8	11.8	13.8	15.3
7/24	15.8	17.3	17.5	17.0	15.8	15.5	13.5	11.0	10.8	8.3	7.5	7.0
7/25	8.5	9.3	9.0	8.5	8.5	8.3	8.8	9.3	11.8	13.0	15.0	17.3
7/26	19.0	18.8	18.5	18.8	17.3	16.0	14.5	12.5	10.0	8.5	8.3	9.0
7/27	9.0	8.8	9.0	9.0	9.0	9.0	8.8	9.0	10.3	10.5	13.5	15.8
7/28	16.5	16.3	12.5	12.0	12.0	12.8	11.5	11.8	9.5	8.0	7.0	6.0
7/29	5.3	4.3	4.3	4.3	4.0	3.5	4.0	5.5	10.8	14.5	16.8	17.8
7/30	18.5	18.8	17.5	17.8	17.5	16.0	16.5	13.5	11.3	9.8	8.8	8.0
7/31	7.0	6.3	5.5	4.8	4.0	3.8	4.0	6.5	11.8	15.8	18.3	20.3
7/32	21.3	21.3	20.3	20.0	19.8	18.3	16.5	14.8	12.5	10.5	9.5	8.3



TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

WET-BULB AIR TEMPERATURE (°C) AT WHITETHORN--Continued

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.												
7/ 7	7.5	6.8	5.8	5.3	4.3	3.8	4.3	7.0	12.0	16.0	16.5	16.8	
	19.5	20.0	20.0	20.0	19.8	18.0	17.0	13.8	11.5	10.3	9.3	8.3	
7/ 8	7.0	6.0	5.5	4.5	4.0	3.3	4.0	8.5	11.5	15.8	18.5	21.3	
	22.3	23.3	23.5	23.8	23.5	23.3	21.0	17.0	15.3	13.5	11.8	10.5	
7/ 9	9.5	8.5	7.8	7.5	7.0	6.5	7.3	9.8	11.8	14.8	16.8	19.3	
	21.3	21.8	22.8	23.8	24.0	22.8	22.3	19.0	14.8	12.5	11.0	9.8	
7/10	11.0	9.3	8.5	8.8	9.3	9.3	10.3	10.5	11.5	13.5	16.0	17.8	
	19.3	20.3	20.5	21.3	20.8	19.8	18.8	17.3	14.0	12.3	11.3	10.8	
7/11	10.8	10.3	10.3	10.5	10.3	10.3	10.3	11.0	12.3	13.5	15.5	17.5	
	18.5	20.3	21.5	21.0	21.0	19.8	18.3	15.5	13.3	10.5	9.3	8.5	
7/12	8.0	8.0	7.3	6.8	6.3	6.5	6.8	8.0	10.5	13.3	15.8	17.8	
	17.5	19.3	19.3	18.5	18.3	16.8	14.8	12.8	10.5	9.8	9.3	9.0	
7/13	8.5	8.0	7.5	7.5	7.0	6.5	6.8	9.5	12.3	15.0	16.5	18.3	
	19.0	19.3	19.0	18.3	18.0	17.3	16.5	15.5	13.0	11.3	10.0	8.5	
7/14	7.8	7.5	7.5	7.3	6.8	6.3	6.5	9.5	13.0	16.8	17.5	18.3	
	20.0	18.0	19.8	18.5	18.5	17.0	15.0	14.5	14.5	13.8	13.0	13.3	
7/15	12.8	12.8	12.8	12.5	12.0	12.0	12.5	13.0	14.3	14.8	14.8	15.5	
	15.3	15.3	15.5	15.8	14.5	14.8	14.5	13.5	13.3	13.0	12.8	12.0	
7/16	10.5	9.8	9.8	9.0	8.5	8.3	8.5	11.5	13.8	15.0	16.3	17.5	
	20.0	19.3	20.0	18.8	18.3	18.3	16.3	14.8	12.5	11.3	10.3	9.3	
7/17	9.0	8.0	7.5	6.8	6.8	6.3	6.3	8.5	11.8	14.8	16.8	18.0	
	20.5	19.8	21.8	21.3	20.5	20.0	18.8	17.3	13.8	12.5	11.0	10.5	
7/18	9.5	9.3	8.3	8.3	8.8	9.5	10.5	11.0	13.8	15.0	17.0	19.3	
	21.3	22.3	20.3	19.5	18.3	16.8	14.8	13.3	12.0	11.0	10.3	9.8	
7/19	9.3	8.8	8.0	7.8	7.3	6.8	7.0	8.8	13.8	16.0	18.8	20.8	
	20.8	20.3	19.3	18.5	19.0	17.8	16.0	13.8	12.0	10.8	10.3	10.0	
7/20	10.0	10.3	10.5	10.8	11.0	11.3	12.0	13.0	14.5	16.3	18.5	19.3	
	21.3	22.3	22.3	22.0	21.8	20.8	19.5	18.0	15.3	13.8	12.5	12.0	
7/21	11.0	10.5	9.8	9.0	8.5	6.8	6.8	9.8	13.5	16.0	17.5	19.3	
	21.3	21.5	22.0	21.3	20.8	19.5	18.3	16.0	13.5	12.3	11.0	10.3	
7/22	10.3	9.5	8.8	8.3	7.3	7.3	7.3	9.0	12.8	15.0	18.8	20.8	
	22.8	23.3	24.8	24.3	23.5	23.0	22.0	18.5	15.3	13.5	12.3	11.3	
7/23	10.0	9.5	8.5	7.5	6.8	6.3	6.3	8.3	13.0	16.5	19.8	22.8	
	25.8	25.3	26.0	24.8	25.0	23.3	21.5	18.8	15.0	13.3	12.0	11.0	
7/24	9.8	9.0	8.0	7.5	6.8	6.0	5.8	5.8	13.0	16.8	20.5	23.0	
	24.8	24.5	25.3	24.3	23.0	22.0	19.3	17.3	14.5	12.5	10.8	9.8	
7/25	9.0	8.3	7.3	6.8	6.3	5.5	5.8	7.8	13.5	17.0	20.8	23.5	
	25.3	26.3	25.8	25.5	24.8	24.0	22.3	18.3	14.8	13.0	12.0	11.0	
7/26	9.8	9.0	8.5	7.8	7.3	6.5	6.8	9.0	14.3	18.5	22.0	25.8	
	26.0	25.5	25.3	25.5	25.0	24.3	22.5	18.8	16.5	15.5	14.3	13.0	
7/27	12.0	11.5	10.0	9.5	8.8	8.5	9.0	10.3	13.5	16.5	18.8	23.0	
	23.3	25.0	25.0	25.3	23.0	22.0	20.5	17.5	14.3	12.8	12.0	11.0	
7/28	9.8	9.5	9.0	8.8	8.3	7.8	7.8	9.5	13.5	16.3	20.3	21.3	
	23.0	22.3	22.5	22.5	22.5	21.0	19.3	17.3	15.5	15.3	15.3	14.5	
7/29	13.5	12.0	10.3	9.8	9.0	8.8	8.8	9.5	11.3	12.5	13.3	13.5	
	15.0	14.8	14.8	14.8	14.3	13.8	12.5	11.3	10.3	9.8	10.0	8.5	
7/30	7.3	6.3	5.5	5.0	5.0	4.8	4.8	6.5	10.3	12.3	15.0	17.0	
	17.5	16.8	17.3	17.5	16.0	15.8	14.3	12.8	11.3	10.3	8.8	7.5	
7/31	7.3	6.8	5.8	5.3	4.8	4.0	3.8	5.8	10.3	13.5	17.3	19.5	
	21.5	22.8	22.8	21.8	22.0	20.8	19.3	15.5	12.5	11.0	9.8	8.8	
8/ 1	8.0	7.3	6.5	5.8	5.5	5.0	5.0	6.8	11.3	16.0	19.5	22.5	
	24.8	25.5	24.3	23.8	23.8	24.5	22.5	18.0	14.8	13.0	11.5	10.5	
8/ 2	9.5	9.0	8.3	7.5	7.3	6.8	6.5	8.0	13.0	16.8	21.0	24.3	
	25.3	25.8	26.5	26.3	24.0	22.3	20.5	18.5	14.8	12.8	12.0	11.3	

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

WET-BULB AIR TEMPERATURE (°C) AT WHITETHORN--Continued

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.												
8/ 3	10.5	9.8	8.8	8.0	7.0	6.3	6.3	8.3	12.8	16.0	19.5	22.3	
	24.3	26.5	26.3	26.8	26.3	25.3	22.8	20.3	15.5	13.8	11.8	10.8	
8/ 4	9.8	8.8	8.0	7.5	6.8	6.3	6.5	8.3	12.0	15.3	18.3	20.5	
	20.8	21.0	20.8	19.5	18.5	18.3	17.0	15.0	13.0	11.3	10.3	9.5	
8/ 5	8.8	8.8	7.8	7.0	6.8	6.3	6.0	7.8	11.0	13.0	15.3	17.0	
	18.3	18.3	19.0	18.3	16.8	16.8	15.3	12.0	10.8	10.3	9.0	8.3	
8/ 6	7.3	6.5	5.8	5.0	4.5	4.0	5.5	6.3	9.5	10.8	13.0	13.8	
	14.5	14.5	15.3	13.8	12.8	12.0	10.8	10.0	9.0	9.0	8.5	8.8	
8/ 7	8.3	6.8	6.5	6.3	6.0	5.8	6.3	7.0	10.3	12.5	13.8	14.0	
	15.5	15.0	15.8	15.0	14.0	13.8	12.3	10.5	9.8	8.8	9.0	9.3	
8/ 8	9.8	9.5	9.5	9.0	9.0	9.3	9.5	10.3	12.8	14.5	16.5	18.0	
	18.3	18.8	18.5	18.0	17.5	17.3	15.8	14.0	12.5	11.0	10.3	9.5	
8/ 9	8.8	8.0	7.5	7.3	6.8	6.3	6.0	7.5	11.3	13.8	16.5	18.3	
	19.3	20.5	21.0	19.8	18.5	17.5	16.8	14.8	12.5	11.0	10.3	9.8	
8/10	8.5	7.8	7.5	7.0	6.5	6.3	6.0	8.5	10.5	13.0	13.3	17.3	
	19.0	19.3	20.3	18.8	18.3	17.0	16.3	14.8	12.8	12.3	11.3	10.5	
8/11	10.0	9.3	8.5	8.0	7.0	6.8	6.5	8.0	11.3	14.0	17.8	20.5	
	20.8	20.8	20.0	21.3	20.3	17.0	15.5	14.0	13.0	12.0	11.3	10.8	
8/12	10.0	9.3	8.5	8.5	7.8	7.3	7.3	8.5	11.8	15.0	19.3	20.0	
	17.3	16.5	17.0	15.0	14.0	14.0	12.3	10.5	9.5	8.5	8.3	7.5	
8/13	6.5	6.0	5.3	4.8	4.3	3.8	3.8	4.8	9.3	12.8	16.3	18.0	
	18.3	18.5	18.8	18.0	18.0	17.0	15.8	14.0	11.5	10.0	9.0	8.5	
8/14	7.3	7.0	6.0	6.0	5.8	5.8	5.8	7.5	10.3	12.8	15.8	17.5	
	18.8	19.0	18.3	18.3	17.5	16.5	13.8	12.5	10.5	9.5	9.5	9.0	
8/15	8.3	7.8	7.3	6.0	6.0	5.8	5.8	7.0	10.3	12.0	16.0	16.8	
	17.8	18.5	17.5	18.3	17.0	16.0	14.8	13.0	11.3	9.8	9.0	8.8	
8/16	8.0	7.8	6.8	6.5	6.0	5.8	5.8	6.8	10.3	13.0	15.5	17.0	
	18.0	18.8	19.3	17.3	16.5	16.5	16.5	15.3	13.8	12.0	10.8	10.5	
8/17	9.5	10.0	9.8	9.5	9.8	10.3	10.8	11.0	13.0	15.3	16.0	17.0	
	15.0	14.8	14.5	14.3	14.0	13.8	13.5	13.0	12.5	12.5	12.3	12.3	
8/18	12.0	11.8	11.8	11.8	12.0	12.0	12.0	12.8	13.5	14.0	14.3	15.5	
	14.8	18.0	16.0	17.5	15.5	14.5	13.3	11.8	11.0	9.5	8.8	8.0	
8/19	7.3	7.0	6.8	6.8	6.0	5.8	6.8	8.5	10.8	11.5	14.0	15.8	
	16.8	17.3	18.0	17.0	16.0	15.0	14.0	12.5	11.0	10.0	9.3	9.0	
8/20	8.5	8.3	7.5	7.0	6.8	7.5	8.5	9.0	10.8	13.3	16.3	18.5	
	19.0	18.8	19.3	19.0	18.0	17.0	16.0	14.3	13.0	12.0	11.3	11.0	
8/21	10.5	10.3	9.5	9.3	8.3	8.0	7.8	8.8	11.0	14.0	16.8	18.8	
	19.0	19.0	18.5	17.0	14.8	13.0	13.0	11.8	10.8	10.3	9.0	8.8	
8/22	8.3	8.0	8.8	9.8	10.5	10.3	10.0	10.3	11.5	13.0	15.8	19.3	
	19.0	20.0	20.0	19.5	18.3	18.8	16.5	12.8	11.0	10.5	9.8	9.5	
8/23	8.5	8.3	7.8	7.8	7.5	7.3	7.5	8.3	9.8	12.5	17.5	18.5	
	19.8	19.3	19.0	18.8	18.5	18.3	18.0	16.3	15.0	13.8	13.0	12.5	
8/24	11.5	11.0	10.0	9.8	9.5	8.8	8.8	9.5	13.5	16.0	19.0	21.0	
	22.3	21.8	22.0	20.5	20.3	19.0	16.0	13.3	12.0	9.5	8.8	8.0	
8/25	7.3	6.8	6.3	5.5	5.0	4.8	4.5	5.5	8.8	12.8	16.5	15.0	
	19.0	18.3	19.5	18.5	17.5	16.5	16.0	13.8	11.8	10.5	9.3	8.5	
8/26	7.8	7.3	6.5	6.0	5.5	5.0	4.8	6.0	8.8	11.5	14.5	14.8	
	13.8	11.0	11.0	11.5	11.8	11.3	10.3	10.5	10.8	10.5	10.5	10.5	
8/27	10.5	10.3	10.8	10.5	10.8	10.5	11.3	11.8	12.5	12.5	13.3	13.3	
	13.8	14.8	14.5	13.3	13.0	11.5	11.8	11.8	10.5	11.0	12.0	11.8	
8/28	12.3	10.3	9.8	10.3	10.5	10.5	10.3	10.8	11.3	11.8	13.8	15.0	
	14.5	14.3	14.5	13.0	12.0	11.5	11.0	9.3	7.5	7.0	6.0	5.3	
8/29	4.5	3.8	3.5	3.5	2.8	2.8	3.3	3.0	5.3	9.8	12.5	14.3	
	14.8	15.3	14.8	15.0	14.3	13.3	12.8	11.0	9.5	8.8	7.5	6.8	

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

## WET-BULB AIR TEMPERATURE (°C) AT WHITETHORN--Continued

DATE	HOURLY DATA BEGINNING AT 1100 A.M.												
8/30	6.0	5.5	4.8	4.5	4.0	3.5	3.5	3.8	6.8	10.5	13.0	14.0	
	15.0	14.5	15.3	15.5	14.5	13.8	13.0	11.5	10.3	8.8	8.0	7.5	
8/31	6.5	6.0	5.3	4.5	4.0	3.8	3.5	5.0	8.5	10.5	13.5	14.0	
	14.3	13.5	13.5	13.5	12.8	11.5	11.3	10.5	10.0	9.5	9.0	8.3	
9/ 1	7.5	6.8	6.0	5.0	4.3	4.3	3.8	4.8	8.5	10.5	****	****	
	****	****	****	****	****	****	****	****	****	****	****	****	
9/ 2	12.0	11.5	11.5	10.5	9.5	9.5	10.3	11.5	13.0	15.3	16.3	17.5	
	16.8	16.5	16.7	16.5	15.8	15.3	14.3	13.7	11.3	10.5	10.5	14.5	
9/ 3	11.5	10.3	10.3	10.0	10.0	10.0	9.5	10.0	10.5	12.3	15.0	16.5	
	16.3	19.3	19.3	19.5	18.5	17.5	15.5	15.7	13.5	12.5	11.5	10.5	
9/ 4	9.5	9.5	8.5	7.5	6.5	6.3	7.3	8.8	12.0	15.0	16.3	17.3	
	16.3	17.0	16.3	16.3	15.5	14.5	11.5	10.5	9.5	9.3	9.3	8.8	
9/ 5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	9.5	11.0	11.0	11.3	12.5	
	12.3	13.0	12.5	12.5	11.5	10.5	10.5	10.5	9.5	9.5	9.5	9.0	
9/ 6	8.5	7.3	6.5	6.5	6.5	7.5	9.0	10.0	11.5	12.5	13.5	14.3	
	14.5	14.3	13.5	13.5	13.0	12.0	10.0	11.3	10.3	9.5	8.8	7.3	
9/ 7	7.0	6.8	7.5	7.5	8.0	8.5	8.5	9.8	11.3	12.0	12.5	13.3	
	16.3	16.3	****	****	13.0	13.3	14.0	12.5	12.0	11.3	10.5	10.0	
9/ 8	8.8	8.7	8.0	7.5	8.0	7.8	8.3	10.0	12.0	12.3	12.5	12.5	
	17.3	17.0	16.3	16.5	17.5	16.0	15.3	13.0	11.0	10.3	9.5	8.5	
9/ 9	7.5	7.0	5.5	5.3	5.5	6.0	6.0	8.3	10.3	10.0	10.0	10.3	
	16.8	17.3	17.3	17.0	17.0	16.5	15.5	13.5	12.5	11.5	10.0	9.3	
9/10	8.0	7.5	6.8	6.0	5.3	5.5	6.3	7.8	10.5	11.0	14.5	15.8	
	16.8	16.5	16.0	16.0	14.5	14.0	13.3	12.3	11.3	10.0	9.5	8.5	
9/11	7.8	7.0	7.0	6.0	6.0	5.5	6.3	8.0	10.8	11.3	12.3	12.5	
	12.3	11.0	13.5	12.5	11.0	11.0	11.0	11.0	10.5	10.0	9.5	8.0	
9/12	5.5	6.0	6.0	6.5	6.5	6.5	6.8	8.0	9.0	9.0	9.0	8.5	
	16.0	16.0	15.0	10.0	10.0	10.0	12.5	11.3	10.0	9.5	8.0	7.5	
9/13	8.0	8.3	7.5	6.8	6.0	6.0	7.5	8.5	9.8	12.0	12.0	14.3	
	16.5	15.3	14.5	14.0	13.8	13.8	13.8	12.3	11.5	11.0	9.5	9.3	
9/14	8.5	7.8	7.3	7.0	6.5	6.3	6.3	9.0	10.5	12.3	13.3	14.0	
	16.5	14.5	14.5	14.0	13.0	12.5	12.5	10.8	10.0	9.5	9.3	8.5	
9/15	5.0	7.8	8.0	8.5	8.3	8.3	8.5	8.5	10.0	12.0	12.5	14.0	
	12.5	13.5	14.5	14.5	14.5	13.8	13.0	11.5	10.8	9.5	9.0	8.5	
9/16	11.8	7.0	6.3	5.8	5.8	5.3	5.8	6.8	10.8	12.5	14.5	15.5	
	12.5	14.3	16.3	16.0	15.5	16.0	13.8	12.8	11.3	10.5	9.5	8.5	
9/17	7.5	6.3	6.3	5.3	5.3	4.8	5.8	7.3	10.3	11.8	13.8	14.5	
	12.8	13.8	14.3	13.5	12.5	11.5	11.8	12.0	11.0	10.0	9.5	8.8	
9/18	8.8	8.8	7.3	6.8	6.8	6.5	6.8	7.8	10.3	****	****	****	
	****	****	****	****	13.3	13.0	12.3	11.3	10.5	9.0	8.8	7.5	
9/19	8.8	8.8	5.8	6.8	6.5	6.3	5.8	6.8	10.5	11.3	12.5	13.8	
	14.5	14.5	13.3	14.5	14.5	14.8	13.8	11.8	11.3	10.5	9.5	8.0	
9/20	8.8	7.3	6.3	6.3	5.8	5.0	6.3	7.3	12.8	****	****	****	
	****	****	****	****	14.3	14.3	13.8	12.8	12.0	11.0	10.5	10.8	
9/21	8.8	8.8	11.8	12.3	12.5	9.8	9.8	11.5	12.0	14.3	16.8	17.3	
	14.5	14.8	17.5	16.8	16.0	17.5	15.3	13.5	11.5	10.5	10.0	9.5	
9/22	7.5	6.5	6.8	6.5	6.0	7.8	8.3	10.5	12.8	14.8	15.8	17.8	
	12.8	14.3	14.8	14.3	13.5	14.8	13.3	12.3	11.0	10.5	9.8	8.8	
9/23	8.8	8.8	7.8	7.3	6.8	7.8	10.0	12.0	13.3	14.5	15.5	17.0	
	12.8	12.8	14.3	14.8	14.8	14.8	13.3	12.3	11.8	11.0	10.5	11.5	
9/24	8.8	8.8	8.8	8.8	8.8	8.5	8.8	11.0	13.0	14.5	16.5	18.0	
	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

WET-BULB AIR TEMPERATURE (°C) AT HONEYDEW

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.												
6/11	****	****	****	****	****	****	****	****	****	****	****	****	13.8
	13.8	14.5	15.0	16.0	16.5	16.8	16.0	13.8	11.5	10.0	9.0	8.3	
6/12	8.0	7.5	7.3	6.8	6.5	6.3	7.3	9.5	11.5	14.0	16.5	18.0	
	18.8	19.5	19.5	19.3	19.3	18.8	18.3	17.0	15.3	13.8	13.5	13.0	
6/13	12.0	11.5	11.3	10.3	10.3	****	10.0	11.0	13.8	16.3	18.8	22.8	
	24.5	24.5	23.5	23.5	22.5	22.0	21.5	19.5	18.0	16.0	14.3	13.0	
6/14	12.0	11.5	11.5	10.5	9.3	9.0	10.3	11.8	13.0	15.3	16.5	17.0	
	16.8	16.8	16.3	16.5	15.8	15.3	14.5	12.5	11.3	10.8	10.5	10.5	
6/15	10.5	10.3	10.3	10.0	10.0	10.0	9.8	10.0	10.5	13.3	15.0	16.5	
	18.3	19.3	19.3	18.5	18.3	17.5	15.8	15.5	13.5	12.5	11.5	10.8	
6/16	9.5	9.5	8.5	7.5	6.3	6.3	7.3	8.8	12.0	15.0	16.3	16.3	
	16.3	17.0	16.3	16.3	15.5	13.5	11.8	10.8	9.8	9.3	9.3	8.8	
6/17	8.5	8.5	8.5	8.3	8.5	8.8	9.0	9.5	11.0	11.0	11.5	12.5	
	12.8	13.0	12.8	12.5	11.5	10.3	10.5	10.0	9.8	9.8	9.5	9.0	
6/18	8.5	7.3	6.5	6.5	6.3	7.8	9.0	10.0	11.5	12.3	12.8	13.3	
	14.5	14.3	13.8	13.5	13.8	12.8	12.0	11.3	10.3	9.3	8.8	7.3	
6/19	7.0	6.8	7.5	7.5	8.0	8.3	9.3	9.8	11.3	13.0	14.8	15.3	
	16.3	16.3	****	****	15.0	15.3	14.0	12.5	12.0	11.3	10.5	10.0	
6/20	8.8	8.3	8.0	7.3	8.0	7.8	8.3	10.0	12.8	15.3	17.5	17.8	
	18.3	18.0	18.3	18.5	17.5	16.8	15.3	13.0	11.8	10.3	9.8	8.5	
6/21	7.5	7.0	5.8	4.3	5.5	4.8	6.0	8.3	10.3	13.0	15.3	16.3	
	16.8	17.3	17.3	17.0	17.0	16.5	15.5	13.8	12.8	11.5	10.0	9.3	
6/22	8.0	7.5	6.8	6.0	5.3	5.5	6.3	7.0	10.5	13.0	14.5	15.8	
	16.8	16.5	16.0	16.0	14.5	14.0	13.3	12.3	11.3	10.0	9.5	8.8	
6/23	7.8	7.0	7.0	6.0	6.0	5.5	6.3	8.0	10.8	11.8	12.3	12.8	
	12.3	11.8	13.5	12.5	11.0	11.8	11.0	11.0	10.5	10.0	8.8	8.0	
6/24	8.5	6.8	6.8	6.5	6.5	6.5	6.8	8.0	8.0	9.0	9.0	9.8	
	10.8	10.8	12.0	10.8	10.8	12.5	11.3	10.0	9.5	8.0	7.5	6.8	
6/25	6.0	5.3	5.5	4.8	4.0	4.5	5.5	8.8	9.8	12.0	12.0	14.3	
	14.5	15.3	14.5	14.8	13.8	13.8	13.8	12.3	11.5	11.0	9.8	9.3	
6/26	7.5	7.8	7.3	7.0	6.5	6.3	6.5	9.0	10.5	12.3	13.3	14.0	
	14.3	14.5	14.5	14.0	13.8	12.5	12.5	10.8	10.0	9.3	9.3	8.3	
6/27	8.0	7.8	7.0	6.5	6.3	6.3	6.5	8.5	10.8	12.0	12.8	14.0	
	15.0	15.5	14.5	14.5	14.5	13.8	13.0	11.8	10.8	9.3	9.3	8.5	
6/28	7.5	7.0	6.3	6.0	5.8	5.3	5.8	6.8	10.8	12.5	14.3	15.0	
	16.0	16.5	16.0	16.0	15.5	16.0	13.8	12.8	11.3	10.5	8.8	7.8	
6/29	7.5	6.3	6.3	5.3	5.3	4.5	5.8	7.3	10.3	11.8	13.8	14.5	
	15.0	15.8	16.3	15.5	15.3	14.5	13.8	12.0	11.0	10.0	9.5	8.8	
6/30	7.8	6.8	7.3	6.8	6.5	6.5	6.8	7.8	10.3	****	****	****	
	****	****	****	13.3	13.0	12.5	12.3	11.3	10.5	9.0	8.0	7.0	
7/ 1	6.8	5.8	5.8	4.5	4.5	4.3	5.0	6.8	10.5	11.3	12.5	13.8	
	14.5	14.8	15.3	14.5	14.5	14.0	13.8	11.8	11.3	10.5	9.5	8.0	
7/ 2	7.8	7.3	6.3	6.3	5.0	5.0	6.3	7.3	12.0	****	****	****	
	****	****	****	14.3	14.3	13.8	12.8	12.0	11.3	10.5	10.5	10.8	
7/ 3	11.0	11.0	11.0	10.5	10.5	9.8	9.8	11.5	13.0	14.3	16.0	17.3	
	17.5	17.0	17.5	18.0	18.0	17.5	15.3	13.5	11.5	10.5	10.0	9.5	
7/ 4	9.5	8.5	9.8	8.5	8.0	7.8	8.3	10.5	12.0	14.0	15.8	17.0	
	17.0	18.8	18.8	14.3	13.5	14.0	13.5	13.3	12.3	11.8	10.8	9.8	
7/ 5	9.3	8.8	7.8	7.3	6.8	7.8	10.0	12.0	15.3	17.5	18.5	19.0	
	19.0	19.8	19.5	19.8	19.8	19.8	18.3	15.3	13.5	12.5	11.8	11.3	
7/ 6	10.8	10.0	9.3	8.8	8.8	8.5	8.8	11.0	13.8	16.5	18.5	20.0	
	19.8	19.5	19.3	18.8	18.3	17.0	16.3	14.5	13.3	11.5	11.3	11.0	
7/ 7	10.3	11.0	10.5	10.5	10.5	10.5	10.5	10.8	11.3	****	****	****	
	****	****	****	16.0	15.8	15.3	15.0	13.8	13.0	11.8	11.0	10.8	



TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

WET-BULB AIR TEMPERATURE (°C) AT HONEYDEW--Continued

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.											
7/ 8	10.0	9.3	9.0	8.5	8.5	7.8	8.3	10.5	13.8	16.5	18.8	20.8
	21.8	21.8	23.0	23.5	23.3	22.8	21.0	18.5	17.3	15.5	14.3	12.8
7/ 9	11.8	10.8	9.5	9.5	9.0	8.8	9.8	13.0	15.0	17.0	19.0	20.5
	20.8	21.3	22.5	22.8	22.0	21.0	18.3	17.8	15.8	13.5	12.8	11.5
7/10	11.0	10.3	10.3	9.8	8.8	9.0	10.0	12.3	15.5	18.0	19.8	21.0
	23.3	23.0	23.5	23.5	23.3	22.3	21.3	19.8	18.5	16.8	15.0	13.8
7/11	13.3	12.3	11.3	11.5	11.3	11.8	12.0	13.5	15.0	16.5	18.3	19.8
	21.3	21.3	21.0	21.0	20.5	20.5	19.0	17.5	15.8	14.3	13.3	11.5
7/12	10.0	8.8	8.5	7.3	7.0	7.0	8.3	11.0	14.3	16.3	16.5	18.0
	18.5	19.5	18.8	18.3	17.0	16.0	14.8	13.3	12.8	11.3	11.0	9.8
7/13	9.8	9.0	8.3	8.3	7.8	7.0	8.5	10.8	16.0	18.8	19.8	20.8
	21.5	22.0	21.8	21.8	21.0	20.5	19.8	17.5	16.3	15.3	12.5	11.3
7/14	10.3	9.5	9.3	9.3	9.0	8.8	10.0	13.0	16.5	17.5	17.8	19.5
	19.5	18.3	19.5	20.0	18.5	19.3	16.5	15.8	14.8	14.8	14.5	14.5
7/15	14.3	15.0	15.0	14.3	13.5	13.8	13.5	13.5	14.0	14.3	14.8	14.3
	16.0	16.5	18.0	17.3	16.5	15.5	14.8	14.3	13.5	14.5	13.0	12.3
7/16	12.3	11.3	11.0	10.3	10.5	10.3	10.5	11.8	15.0	17.3	18.3	19.8
	21.0	20.8	19.8	21.0	19.8	19.8	18.5	16.8	15.3	13.3	12.8	11.5
7/17	10.5	9.8	8.8	8.3	8.5	7.8	8.8	10.8	14.3	17.3	19.3	20.5
	21.8	22.5	22.3	22.0	21.8	21.3	19.5	18.5	16.8	15.5	14.3	12.5
7/18	12.0	11.0	10.5	10.0	9.5	9.0	10.0	11.8	14.8	17.5	20.0	21.0
	21.0	20.5	20.5	20.3	20.5	19.5	19.0	18.0	17.3	15.8	15.0	14.0
7/19	13.3	12.8	12.3	11.5	11.0	11.0	11.5	13.3	14.8	17.0	18.5	18.8
	18.5	18.3	18.5	18.5	18.3	18.3	17.5	16.5	15.3	14.3	13.8	12.8
7/20	12.5	11.8	11.8	11.0	10.8	10.8	11.3	13.3	16.0	18.0	19.5	22.0
	22.8	24.3	24.0	24.0	23.3	22.5	21.5	19.8	18.0	16.5	14.8	13.5
7/21	13.0	11.8	11.5	10.0	10.0	9.5	10.5	12.8	15.3	18.5	21.8	23.3
	24.0	23.8	24.8	24.3	24.3	23.3	21.5	19.3	18.0	16.8	14.5	13.5
7/22	11.8	12.0	10.8	10.0	9.3	9.3	9.8	12.5	15.3	18.8	21.8	24.0
	26.0	26.3	26.8	26.5	26.0	25.3	24.0	21.8	20.3	17.3	15.5	14.3
7/23	13.3	12.0	11.0	10.5	9.8	9.0	9.8	11.5	15.8	18.8	22.5	25.3
	27.3	28.8	29.5	28.5	27.3	26.5	25.8	23.3	20.8	17.3	16.0	14.8
7/24	13.3	12.0	11.8	10.8	10.3	9.3	10.5	13.0	16.8	21.0	24.3	27.5
	28.5	28.5	28.5	28.0	27.8	26.5	25.3	22.8	20.0	17.5	15.3	14.5
7/25	13.0	12.3	11.3	10.8	10.5	10.5	11.0	14.0	17.5	22.0	25.8	27.8
	27.8	27.8	28.0	27.5	27.3	27.5	26.8	24.5	21.3	18.5	15.8	14.8
7/26	12.8	12.3	11.3	10.3	10.0	10.0	11.0	13.8	17.0	21.3	24.5	27.3
	27.8	27.3	27.0	27.3	25.8	24.3	23.5	21.0	19.3	18.0	17.3	15.8
7/27	14.8	13.8	12.8	12.5	11.8	11.0	11.8	13.5	15.8	18.5	20.8	22.3
	22.8	23.5	24.0	24.5	24.3	23.3	22.5	20.3	18.8	17.3	15.8	14.8
7/28	14.0	12.8	11.8	12.0	11.3	10.5	11.0	12.5	17.0	21.0	22.5	23.3
	24.8	25.3	25.3	24.8	24.3	22.8	21.5	19.0	18.5	16.5	15.5	14.8
7/29	13.5	13.3	12.8	12.3	12.0	11.8	12.3	13.0	13.5	14.8	15.3	16.3
	16.5	17.0	17.0	16.3	16.0	15.8	14.8	13.5	13.0	12.8	12.5	12.8
7/30	11.5	11.0	9.3	12.0	12.3	11.8	12.5	13.3	14.8	16.3	17.5	18.5
	19.3	19.5	19.3	18.8	18.5	17.3	16.8	15.3	14.8	13.5	12.3	10.8
7/31	10.0	8.5	8.5	7.5	7.3	6.8	7.3	9.8	13.8	18.8	22.3	25.0
	26.8	27.5	27.8	26.8	25.8	24.8	24.5	22.0	18.5	16.8	14.8	13.8
8/ 1	12.5	12.0	10.8	10.5	9.8	9.8	10.5	13.5	16.8	20.8	24.8	29.3
	30.3	30.0	30.0	30.3	30.3	29.5	28.0	25.3	21.8	19.3	17.8	15.3
8/ 2	14.3	13.0	13.0	11.8	11.3	10.8	11.5	13.8	17.3	21.8	25.3	27.0
	28.3	28.5	29.0	28.0	28.3	27.3	26.0	24.0	21.5	19.0	16.5	15.0
8/ 3	13.5	12.0	11.8	11.3	10.5	9.5	10.5	12.8	16.3	20.0	22.8	25.0
	23.3	24.5	19.5	18.8	17.8	17.0	16.5	14.8	13.3	12.5	12.3	12.3

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1875--Continued

TOTAL INCOMING RADIATION (ly/min) AT HONEYDEW--Continued

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.												
8/ 4	0.35	0.36	0.36	0.36	0.35	0.36	0.46	0.75	1.07	1.36	1.60	1.76	
	1.84	1.82	1.71	1.51	1.31	0.96	0.65	0.36	0.33	0.35	0.34	0.35	
8/ 5	0.35	0.35	0.35	0.36	0.36	0.36	0.47	0.76	1.08	1.36	1.60	1.77	
	1.85	1.82	1.71	1.54	1.29	1.00	0.67	0.39	0.36	0.37	0.37	0.36	
8/ 6	0.36	0.35	0.36	0.35	0.35	0.46	0.53	0.56	1.02	1.37	1.55	1.69	
	1.79	1.94	1.67	1.46	1.22	0.95	0.51	0.44	0.41	0.38	0.38	0.38	
8/ 7	0.37	0.37	0.36	0.37	0.36	0.36	0.46	0.75	1.04	1.34	1.58	1.71	
	1.79	1.78	1.66	1.48	1.31	0.96	0.65	0.39	0.37	0.39	0.39	0.40	
8/ 8	0.40	0.40	0.39	0.40	0.39	0.39	0.51	0.77	1.08	1.36	1.60	1.74	
	1.80	1.79	1.68	1.53	1.29	1.00	0.62	0.42	0.37	0.39	0.38	0.35	
8/ 9	0.36	0.37	0.37	0.37	0.37	0.39	0.48	0.74	1.04	1.34	1.58	1.72	
	1.81	1.77	1.69	1.52	1.27	0.96	0.65	0.41	0.38	0.36	0.38	0.40	
8/10	0.39	0.39	0.39	0.39	0.39	0.40	0.48	0.72	1.04	1.31	1.60	1.75	
	1.81	1.79	1.67	1.46	1.37	0.93	0.68	0.42	0.39	0.39	0.39	0.39	
8/11	0.38	0.40	0.39	0.38	0.38	0.38	0.46	0.71	1.02	1.33	1.55	1.72	
	1.77	1.78	1.65	1.48	1.27	0.96	0.66	0.41	0.37	0.38	0.39	0.38	
8/12	0.38	0.39	0.39	0.37	0.38	0.38	0.45	0.71	1.02	1.29	1.53	1.67	
	1.73	1.72	1.62	1.45	1.21	0.91	0.59	0.39	0.37	0.37	0.35	0.36	
8/13	0.46	0.47	0.47	0.47	0.47	0.47	0.50	0.73	1.03	1.31	1.56	1.72	
	1.78	1.77	1.67	1.49	1.26	0.96	0.64	0.37	0.38	0.37	0.35	0.38	
8/14	0.36	0.36	0.37	0.36	0.36	0.37	0.40	0.71	1.03	1.32	1.49	1.71	
	1.78	1.76	1.66	1.47	1.19	0.94	0.63	0.37	0.36	0.35	0.35	0.37	
8/15	0.36	0.36	0.37	0.36	0.36	0.36	0.41	0.72	****	****	****	****	
	****	****	****	1.49	1.33	1.03	0.67	0.40	0.37	0.38	0.38	0.38	
8/16	0.38	0.37	0.38	0.38	0.38	0.38	0.39	0.55	0.94	1.23	1.49	1.61	
	1.76	1.76	1.67	1.53	1.24	1.01	0.60	0.43	0.40	0.43	0.42	0.42	
8/17	0.45	0.47	0.46	0.47	0.47	0.47	0.51	0.57	0.84	0.86	0.80	0.68	
	0.30	0.36	0.38	0.96	0.71	0.74	0.54	0.51	0.48	0.27	0.44	0.47	
8/18	0.49	0.47	0.49	0.49	0.49	0.47	0.52	0.54	0.75	0.73	1.71	1.85	
	0.99	1.86	1.79	1.57	1.25	0.90	0.60	0.41	0.38	0.37	0.38	0.37	
8/19	0.37	0.37	0.37	0.37	0.38	0.38	0.40	0.68	0.99	1.29	1.53	1.69	
	1.77	1.75	1.65	1.48	1.22	0.92	0.61	0.41	0.39	0.39	0.39	0.38	
8/20	0.38	0.39	0.38	0.38	0.39	0.39	0.41	0.70	1.02	1.33	1.58	1.69	
	1.83	1.81	0.77	1.49	1.24	0.96	0.63	0.45	0.42	0.43	0.43	0.42	
8/21	0.41	0.41	0.41	0.41	0.40	0.40	0.42	0.72	0.85	1.30	1.55	1.70	
	1.75	1.73	1.65	1.47	1.21	0.94	0.63	0.45	0.43	0.43	0.42	0.41	
8/22	0.41	0.39	0.40	0.39	0.38	0.39	0.42	0.69	1.01	1.31	1.56	1.70	
	1.80	1.71	1.63	1.45	1.04	0.98	0.59	0.43	0.42	0.41	0.41	0.40	
8/23	0.42	0.41	0.42	0.43	0.48	0.42	0.45	0.71	0.80	1.03	1.63	1.65	
	1.70	1.46	1.33	1.50	1.25	0.96	0.63	0.45	0.44	0.44	0.44	0.42	
8/24	0.42	0.42	0.42	0.42	0.42	0.42	0.44	0.72	1.04	1.34	1.58	1.72	
	1.83	1.81	1.70	1.52	1.25	0.93	0.61	0.43	0.41	0.39	0.39	0.38	
8/25	0.37	0.37	0.37	0.37	0.35	0.36	0.38	0.68	1.02	1.30	1.57	1.73	
	1.81	1.78	1.66	1.49	1.23	0.93	0.60	0.43	0.41	0.40	0.40	0.39	
8/26	0.38	0.38	0.38	0.37	0.38	0.38	0.51	0.58	0.76	1.27	1.51	1.66	
	1.73	1.70	1.62	1.44	1.17	0.87	0.57	0.47	0.48	0.50	0.50	0.48	
8/27	0.49	0.49	0.51	0.49	0.48	0.50	0.48	0.63	0.82	0.82	1.10	2.02	
	1.73	1.06	0.96	0.64	0.54	0.34	0.50	0.27	0.45	0.49	0.31	0.34	
8/28	0.42	0.46	0.52	0.50	0.51	0.52	0.52	0.58	0.81	1.09	1.48	1.62	
	1.82	1.74	1.61	1.41	1.15	0.86	0.55	0.41	0.38	0.37	0.38	0.38	
8/29	0.38	0.38	0.38	0.36	0.37	0.37	0.39	0.71	1.19	1.35	1.60	1.68	
	1.49	1.85	1.06	1.50	1.15	0.85	0.56	0.47	0.41	0.41	0.40	0.40	
8/30	0.39	0.39	0.38	0.38	0.38	0.37	0.39	0.65	0.97	1.27	1.73	1.92	
	1.91	1.71	1.59	1.45	1.16	0.86	0.53	0.42	0.40	0.40	0.40	0.39	

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

WET-BULB AIR TEMPERATURE (°C) AT WHITETHORN

DATE	HOURLY DATA BEGINNING AT 1100 A.M.											
6/10	****	****	****	****	****	****	****	****	****	****	****	****
6/11	9.3	8.3	7.5	6.8	6.3	5.5	6.0	8.3	12.5	16.3	20.0	19.8
6/12	18.8	18.3	18.3	16.3	16.0	18.8	16.0	13.5	11.3	9.0	8.3	7.0
6/13	6.0	5.5	5.0	4.8	4.3	3.8	4.3	7.0	11.5	14.8	18.8	21.5
6/14	24.3	24.5	23.5	21.5	22.0	22.0	21.0	17.3	15.0	13.3	12.0	11.3
6/15	10.3	9.8	9.0	8.3	7.5	7.0	7.3	10.0	14.5	18.0	21.3	22.3
6/16	25.0	24.8	24.8	25.0	23.5	22.5	21.0	17.8	14.3	12.8	11.8	11.0
6/17	10.0	9.5	8.8	8.0	7.5	7.0	7.5	8.3	13.5	17.0	21.5	20.8
6/18	20.0	18.8	18.3	17.8	17.3	17.0	16.0	13.0	10.8	9.8	9.0	8.5
6/19	7.8	7.0	6.8	6.5	6.0	5.5	6.0	8.8	12.8	16.5	19.3	21.3
6/20	21.3	22.5	22.3	22.0	20.8	19.5	16.8	14.0	11.0	9.3	8.5	7.5
6/21	7.0	6.3	5.3	4.5	4.3	4.5	6.0	7.0	11.3	13.3	15.8	17.8
6/22	18.5	18.3	17.5	16.8	15.8	14.0	13.5	10.5	8.3	7.3	6.8	7.3
6/23	7.0	6.3	5.8	5.5	5.3	5.3	7.0	7.8	9.3	9.5	10.8	12.3
6/24	12.0	13.3	13.5	12.5	13.0	12.3	10.0	8.8	7.3	7.0	6.0	5.3
6/25	4.5	3.8	3.3	2.8	2.8	3.0	4.3	6.0	10.0	11.3	13.8	14.0
6/26	16.5	16.0	16.5	16.0	15.3	14.3	12.5	10.3	8.5	7.0	6.3	5.5
6/27	6.0	5.3	5.0	5.0	6.0	7.0	8.3	8.8	10.5	12.0	13.3	16.5
6/28	17.0	18.8	19.5	18.8	18.8	17.3	16.0	14.3	11.3	9.8	8.5	8.0
6/29	7.3	7.5	8.3	8.8	9.0	9.0	9.0	9.3	12.8	14.8	17.3	19.8
6/30	20.5	20.3	19.8	19.8	19.3	17.5	16.3	12.8	9.0	8.0	7.5	6.8
7/ 1	5.5	5.3	4.5	4.0	3.8	3.3	3.3	5.5	9.5	12.0	14.5	17.3
7/ 2	18.8	18.8	19.0	18.5	18.5	18.3	14.8	12.5	10.0	8.5	7.3	7.0
7/ 3	6.5	5.8	4.5	4.3	4.3	4.0	5.5	6.5	10.3	12.8	15.0	17.3
7/ 4	18.8	19.8	15.0	17.3	17.0	15.0	12.5	10.8	10.5	6.5	6.3	6.3
7/ 5	5.5	4.8	4.0	3.5	2.8	2.5	5.0	6.0	9.3	10.5	11.0	12.0
7/ 6	10.5	11.3	13.3	11.8	10.3	10.8	10.3	9.5	9.3	9.3	7.5	5.5
7/ 7	4.5	4.3	4.3	4.5	4.8	5.3	5.0	5.3	8.0	9.0	9.8	10.8
7/ 8	11.0	12.5	12.8	11.8	12.5	10.5	11.0	9.5	6.8	5.5	5.5	4.8
7/ 9	4.0	2.8	2.5	2.3	2.5	2.3	2.8	3.8	7.3	10.5	11.8	15.0
7/10	16.8	17.0	16.5	14.5	15.0	13.5	13.8	11.8	10.0	8.8	7.5	6.3
7/11	5.3	5.8	4.3	3.5	3.0	2.5	2.5	5.8	9.0	11.5	12.5	13.8
7/12	15.5	15.3	16.0	15.5	13.8	13.3	12.3	9.5	8.0	7.3	6.3	6.0
7/13	5.3	4.3	3.5	3.3	2.8	2.5	3.5	6.3	9.5	11.0	13.0	14.8
7/14	16.3	16.5	16.0	16.3	16.3	15.3	13.5	11.0	9.3	8.3	6.8	5.8
7/15	5.0	4.3	3.8	3.5	3.3	3.0	3.3	6.3	9.8	12.5	14.8	15.8
7/16	17.5	17.5	17.8	18.0	17.3	16.3	14.5	11.8	9.3	7.0	6.0	5.3
7/17	4.5	3.8	3.3	2.5	2.3	1.8	2.5	5.5	9.3	11.5	13.0	16.3
7/18	16.8	18.5	18.0	18.3	18.5	14.8	14.8	12.3	10.3	8.8	7.0	5.8
7/19	5.0	4.3	5.5	5.8	6.3	6.0	6.8	6.8	9.5	10.5	11.5	12.5
7/20	14.0	13.8	14.8	14.5	14.0	12.8	13.3	11.0	9.5	7.8	6.3	5.0
7/21	4.0	3.0	2.3	1.5	1.3	0.5	0.8	3.8	8.5	11.0	12.3	15.0
7/22	14.0	15.8	14.5	15.8	15.8	15.3	13.8	11.3	9.3	8.3	7.0	5.8
7/23	5.0	4.0	3.5	2.8	2.3	1.8	2.3	6.3	9.8	11.8	13.8	15.3
7/24	15.8	17.3	17.5	17.0	15.8	15.5	13.5	11.0	10.8	8.3	7.5	7.0
7/25	8.5	9.3	9.0	8.5	8.5	8.3	8.8	9.3	11.8	13.0	15.0	17.3
7/26	19.0	18.8	18.5	18.8	17.3	16.0	14.5	12.5	10.0	8.5	8.3	9.0
7/27	9.0	8.8	9.0	9.0	9.0	9.0	8.8	9.0	10.3	10.5	13.5	15.8
7/28	16.5	16.3	12.5	12.0	12.0	12.8	11.5	11.8	9.5	8.0	7.0	6.0
7/29	5.3	4.3	4.3	4.3	4.0	3.5	4.0	5.5	10.8	14.5	16.8	17.8
7/30	18.5	18.8	17.5	17.8	17.5	16.0	16.5	13.5	11.3	9.8	8.8	8.0
7/31	7.0	6.3	5.5	4.8	4.0	3.8	4.0	6.5	11.8	15.8	18.3	20.3
7/32	21.3	21.3	20.3	20.0	19.8	18.3	16.5	14.8	12.5	10.5	9.5	8.3

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

DRY-BULB AIR TEMPERATURE (°C) AT WHITETHORN--Continued

DATE	HOURLY DATA BEGINNING AT 1100 A.M.												
7/ 7	7.5	6.8	5.8	5.3	4.3	3.8	4.3	7.5	12.8	18.0	23.0	23.3	
	23.8	24.3	24.3	26.0	25.0	22.5	20.0	15.8	12.3	10.5	9.5	8.3	
7/ 8	7.0	6.0	5.5	4.5	4.0	3.3	4.0	9.0	13.0	18.3	21.8	26.5	
	29.5	29.8	31.0	32.0	31.0	30.0	27.5	23.3	18.3	15.3	12.5	11.0	
7/ 9	10.0	8.8	7.8	7.5	7.0	6.5	7.5	9.8	12.3	17.3	21.0	25.5	
	27.3	28.3	29.8	30.8	31.5	30.0	28.5	23.8	17.5	13.8	12.0	10.3	
7/10	11.8	9.8	9.0	9.0	9.5	9.8	10.5	11.3	12.8	15.5	19.3	21.8	
	24.8	26.8	27.8	29.5	28.3	26.8	24.8	21.3	16.0	13.5	12.3	11.3	
7/11	11.3	10.8	11.0	11.0	10.8	10.8	11.0	12.3	13.5	15.8	18.8	21.5	
	23.5	26.5	28.5	28.3	27.0	25.0	23.3	20.8	15.5	11.5	9.8	8.8	
7/12	8.0	8.0	7.3	6.8	6.3	6.5	6.8	8.3	11.8	16.3	20.0	22.3	
	22.8	25.5	26.0	25.0	24.3	21.8	18.5	14.8	11.5	10.5	10.0	9.5	
7/13	8.8	8.0	7.8	7.5	7.0	6.5	6.8	9.5	13.5	18.0	21.0	23.8	
	25.5	25.0	27.0	25.8	25.5	24.0	22.3	20.3	16.0	13.0	11.0	9.0	
7/14	8.3	7.8	7.8	7.3	6.8	6.3	6.5	9.5	14.8	20.3	21.5	23.3	
	26.8	22.5	25.0	23.3	22.3	21.0	17.8	16.8	16.3	15.0	14.0	13.8	
7/15	13.3	13.3	12.8	12.5	12.0	12.0	12.5	13.3	14.8	16.5	17.3	17.8	
	17.5	17.8	18.0	18.5	15.0	16.3	15.0	13.8	13.5	13.3	12.8	12.0	
7/16	10.5	9.8	9.8	9.0	8.5	8.3	8.8	11.5	15.0	17.5	19.8	19.5	
	24.5	24.3	26.0	23.8	22.8	23.3	20.3	17.8	13.5	12.3	10.8	9.5	
7/17	9.0	8.0	7.5	6.8	6.8	6.3	6.5	8.8	12.8	18.0	21.3	24.3	
	26.5	27.5	28.8	29.3	27.5	27.0	25.0	21.0	16.0	13.5	11.5	10.8	
7/18	9.8	9.3	8.3	8.3	8.8	9.5	10.8	11.5	16.0	19.8	22.0	25.0	
	28.3	29.8	27.3	26.3	22.5	20.3	17.3	14.8	12.5	11.5	10.5	10.0	
7/19	9.3	8.8	8.0	7.8	7.3	6.8	7.0	9.0	14.8	18.3	22.3	26.5	
	26.3	25.3	23.8	22.8	24.5	22.0	18.8	15.0	12.5	10.8	10.5	10.0	
7/20	10.3	10.5	10.8	11.0	11.3	11.5	12.5	14.0	16.5	20.0	22.5	25.0	
	27.3	29.3	29.8	28.5	28.0	26.8	24.5	21.3	16.5	14.5	13.0	12.3	
7/21	11.3	10.5	9.8	9.0	8.5	6.8	6.8	10.0	14.3	18.5	22.5	26.0	
	28.3	30.0	31.0	30.0	29.5	26.8	24.8	21.0	16.0	13.8	12.3	11.3	
7/22	11.0	10.0	9.0	8.3	7.3	7.3	7.3	9.0	14.0	18.3	23.8	26.5	
	31.5	32.3	34.5	33.5	33.0	32.5	30.0	22.5	18.0	15.3	13.3	11.8	
7/23	10.3	9.8	8.8	7.5	6.8	6.3	6.3	8.3	14.0	20.3	25.3	31.0	
	35.3	37.3	37.0	35.5	34.5	32.5	29.5	24.3	18.5	15.8	13.8	12.3	
7/24	10.5	9.5	8.5	8.0	7.0	6.3	6.0	6.3	15.3	20.3	25.8	29.8	
	33.5	34.3	35.0	34.5	31.5	31.3	27.5	24.0	20.0	15.8	13.5	11.8	
7/25	10.5	9.3	8.0	7.8	6.8	6.0	6.0	8.3	15.8	21.0	26.8	31.8	
	34.5	35.5	36.8	36.3	33.8	33.5	30.5	22.8	18.0	15.5	13.8	12.3	
7/26	10.5	9.5	9.0	8.3	7.5	6.8	7.0	9.5	15.8	22.5	27.5	33.8	
	35.8	35.3	34.5	34.5	33.5	33.3	29.5	22.5	18.8	17.0	15.8	14.0	
7/27	12.8	12.0	10.3	9.5	8.8	8.5	9.3	10.8	17.3	19.0	23.0	27.5	
	31.0	31.8	31.5	33.3	29.5	29.3	25.5	21.3	16.3	13.8	12.8	11.3	
7/28	10.0	9.5	9.0	9.0	8.5	8.0	7.8	9.8	14.3	18.8	26.3	26.5	
	28.8	28.0	29.0	28.5	28.5	25.8	23.8	20.0	17.5	16.5	17.0	16.0	
7/29	15.3	13.5	11.5	11.0	10.5	10.3	10.3	11.3	13.5	15.3	16.8	17.0	
	18.8	18.5	19.0	18.8	18.3	17.8	16.5	14.0	12.3	12.0	12.0	10.0	
7/30	8.0	6.8	5.8	5.3	5.3	4.8	4.8	6.8	12.3	15.8	20.0	22.5	
	21.5	21.0	23.0	24.3	21.0	21.0	18.0	15.8	13.8	12.0	9.5	8.8	
7/31	7.8	7.0	6.0	5.5	5.0	4.0	4.0	6.0	11.3	16.0	23.0	25.8	
	29.0	31.5	32.3	30.5	30.5	28.5	26.3	20.3	15.8	13.5	11.3	10.0	
8/ 1	9.0	8.0	7.0	6.3	5.8	5.0	5.3	7.3	12.8	19.3	25.8	31.3	
	34.8	36.0	37.0	33.0	32.5	33.8	31.0	22.8	18.3	15.5	13.8	12.0	
8/ 2	10.8	9.8	8.8	8.0	7.5	7.0	7.0	8.5	15.0	20.5	26.8	31.0	
	33.5	35.5	35.3	36.0	32.8	30.8	28.3	24.8	18.5	16.3	14.5	13.3	



TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

DRY-BULB AIR TEMPERATURE (°C) AT WHITETHORN--Continued

DATE	HOURLY DATA BEGINNING AT 1100 A.M.											
8/ 3	11.8	10.5	9.3	8.3	7.3	6.5	6.5	8.9	14.0	19.3	25.0	28.8
	31.5	35.8	35.8	35.3	34.8	33.3	30.3	25.3	18.8	16.0	13.5	12.0
8/ 4	10.3	9.3	8.3	7.5	7.0	6.5	6.5	8.9	13.3	19.0	23.3	26.3
	28.0	30.3	31.8	30.8	29.0	28.5	25.3	21.3	17.3	14.0	12.3	10.5
8/ 5	9.5	9.3	8.0	7.0	6.8	6.3	6.3	8.3	12.0	16.0	20.5	23.5
	27.0	27.3	30.3	27.8	26.0	24.8	22.5	17.3	13.5	12.3	10.0	8.8
8/ 6	7.6	6.8	5.8	5.0	4.5	4.0	5.8	7.0	10.6	13.8	17.5	19.0
	21.3	20.5	22.0	19.5	18.8	17.0	15.0	13.0	11.5	11.0	10.5	10.5
8/ 7	9.3	7.8	6.8	6.3	6.0	5.8	6.5	7.8	12.0	16.5	20.3	25.3
	26.0	25.8	28.0	27.0	25.8	24.0	22.0	19.3	15.3	12.8	11.3	11.0
8/ 8	10.5	10.3	10.0	9.5	9.3	9.5	10.0	10.6	14.0	17.8	21.8	24.0
	27.5	29.3	28.8	28.5	26.8	25.8	22.5	18.0	15.0	12.8	11.5	10.3
8/ 9	9.3	8.5	7.8	7.8	7.0	6.3	6.3	7.8	12.5	16.3	22.5	25.8
	28.5	30.8	33.5	31.5	29.5	27.5	25.5	21.0	16.0	13.8	12.3	11.3
8/10	10.3	8.5	8.3	7.8	7.0	6.5	6.5	9.0	12.0	16.5	22.5	25.8
	29.3	31.0	33.0	32.3	30.5	27.8	25.8	21.3	16.8	15.0	13.3	12.0
8/11	11.0	10.0	9.0	8.3	7.3	7.0	6.8	8.3	13.0	16.5	23.3	29.5
	31.3	32.0	32.0	33.3	30.8	24.5	21.3	17.5	15.8	13.5	12.8	11.8
8/12	10.5	9.8	9.0	9.0	8.0	7.5	7.5	9.0	12.8	17.8	27.0	29.0
	24.5	22.5	21.3	20.8	18.5	17.5	14.8	12.0	10.3	9.0	8.5	7.8
8/13	6.8	6.0	5.3	4.8	4.3	3.8	3.8	5.0	9.8	14.3	22.0	25.5
	28.0	26.3	27.8	27.5	29.3	27.0	24.8	19.5	15.5	13.3	11.3	10.3
8/14	8.3	8.0	6.5	6.5	6.3	6.0	6.3	8.0	11.3	14.8	21.8	26.0
	28.3	31.3	30.8	31.3	28.8	26.5	24.5	18.8	15.8	13.5	12.3	10.5
8/15	9.3	8.3	7.8	6.3	6.0	5.8	5.8	7.5	11.0	14.5	22.0	24.5
	27.0	29.5	31.3	31.8	29.5	27.5	25.3	19.0	16.5	13.8	12.0	10.8
8/16	9.5	9.0	7.8	7.0	6.8	6.3	6.3	7.3	11.8	15.8	22.0	25.5
	28.5	30.8	31.8	28.3	28.0	26.0	24.5	20.5	17.5	14.5	12.5	11.8
8/17	10.5	11.0	11.0	10.5	11.0	10.8	11.3	12.0	14.5	19.0	20.0	18.5
	15.5	14.8	14.5	14.3	14.3	13.8	13.8	13.0	12.5	12.8	12.3	12.3
8/18	12.0	11.8	12.0	11.8	12.0	12.0	12.0	12.8	14.3	15.3	16.0	18.3
	18.8	23.8	19.5	24.8	21.8	19.5	17.5	14.8	13.3	10.8	9.3	8.5
8/19	7.5	7.3	7.0	6.8	6.0	5.8	6.8	9.0	12.0	13.8	18.0	22.3
	24.0	23.3	27.5	25.8	24.0	22.0	20.3	15.8	12.5	11.3	10.0	9.5
8/20	9.0	8.5	7.8	7.3	7.0	7.5	8.5	9.0	11.3	14.3	21.0	26.3
	29.3	31.0	30.8	31.5	28.8	26.8	24.0	19.3	16.8	14.8	13.5	12.8
8/21	11.8	11.0	10.3	9.8	8.8	8.5	8.3	9.3	12.0	17.3	23.5	27.8
	28.5	29.0	27.3	23.8	19.5	16.0	15.5	13.5	11.5	10.8	9.5	9.0
8/22	8.5	8.3	9.3	10.3	10.8	10.8	10.3	10.8	12.3	14.5	19.8	25.3
	28.3	30.3	30.5	30.8	28.3	27.0	23.5	18.3	14.3	12.5	11.5	10.8
8/23	9.5	9.0	8.5	8.3	7.8	8.0	8.0	8.8	11.8	15.8	23.0	24.0
	27.3	25.3	26.8	25.5	24.3	23.8	22.5	18.5	16.0	14.3	13.3	12.8
8/24	11.5	11.0	10.3	9.8	9.8	8.8	8.8	9.5	14.0	17.5	24.5	29.3
	31.5	31.3	33.3	30.5	30.3	29.5	26.3	18.5	15.3	13.0	11.3	10.0
8/25	8.8	8.0	7.0	6.3	5.8	5.3	5.0	6.0	9.8	15.8	23.0	27.0
	30.0	32.5	33.3	32.5	30.3	28.5	25.0	18.5	15.3	12.8	10.8	9.5
8/26	8.5	7.8	7.0	6.3	5.8	5.3	5.0	6.5	9.8	14.5	19.3	19.0
	18.0	12.5	12.5	13.3	13.5	12.8	11.0	11.0	11.3	11.0	11.0	11.0
8/27	11.0	10.8	11.3	10.8	11.0	10.8	11.3	11.8	12.8	13.3	14.0	14.3
	14.8	17.3	17.0	14.5	13.3	11.5	12.0	12.0	10.8	11.3	12.0	11.8
8/28	12.3	10.3	9.8	10.3	10.5	10.5	10.3	10.8	11.3	12.3	15.3	17.8
	19.5	19.8	21.3	19.5	17.8	17.0	15.0	10.5	8.0	7.3	6.0	5.5
8/29	4.5	3.8	3.5	3.5	2.8	2.8	3.3	3.0	5.5	10.5	17.3	20.0
	21.8	22.0	20.8	21.8	19.8	18.3	17.3	13.3	10.5	9.3	8.0	8.8

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

DRY-BULB AIR TEMPERATURE (°C) AT WHITETHORN--Continued

DATE HOURLY DATA BEGINNING AT 1:00 A.M.

8/30	6.0	5.5	4.8	4.5	4.0	3.5	3.5	3.8	7.0	11.5	18.3	19.5
8/31	7.0	6.0	5.5	4.8	4.3	3.8	3.5	5.0	9.0	13.3	19.5	20.3
9/ 1	7.8	7.0	6.0	5.0	4.5	4.3	3.8	5.0	9.0	12.3	****	****

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

DRY-BULB AIR TEMPERATURE (°C) AT HONEYDEW

DATE	HOURLY DATA BEGINNING AT 11:00 A.M.											
6/11	****	****	****	****	****	****	****	****	****	****	****	18.3
	17.3	17.8	18.5	19.5	21.0	21.3	20.8	17.5	14.5	11.8	10.3	9.0
6/12	8.5	8.0	7.5	7.3	6.8	6.8	8.0	9.8	13.5	17.0	21.5	23.0
	24.8	25.3	26.8	25.0	25.3	23.8	23.0	20.3	17.8	15.8	14.5	14.3
6/13	13.0	12.5	11.8	10.8	10.8	0.3	10.5	12.5	16.3	19.0	23.5	31.3
	35.0	33.3	32.3	32.8	32.0	31.5	30.3	27.5	25.0	20.5	17.8	16.3
6/14	14.8	13.5	13.5	12.3	10.8	10.3	11.8	13.5	15.8	18.3	19.8	20.0
	19.8	20.3	19.3	19.0	19.0	17.8	16.5	13.5	12.3	11.3	11.0	11.0
6/15	10.8	10.8	10.5	10.5	10.5	10.3	9.8	10.5	11.8	15.8	17.5	20.8
	22.8	23.8	24.8	23.8	23.3	22.8	21.0	18.5	17.8	16.3	14.3	14.0
6/16	11.8	11.0	9.5	8.0	6.8	6.8	8.3	10.0	14.3	18.8	21.0	21.8
	22.0	22.8	22.0	22.3	20.8	17.8	14.8	13.3	11.8	11.3	11.3	10.8
6/17	9.8	10.3	10.0	10.0	10.3	10.3	11.0	11.3	13.3	13.3	15.3	14.8
	15.8	16.3	17.3	15.5	15.8	12.5	12.5	11.3	11.5	11.3	11.3	10.3
6/18	9.8	7.8	7.3	7.0	6.8	9.0	10.3	12.8	14.3	15.0	16.8	16.5
	18.3	17.0	16.5	16.0	17.5	16.0	14.5	13.8	11.8	10.8	9.8	8.0
6/19	8.0	7.0	8.3	8.0	8.8	9.0	10.3	10.3	13.8	15.5	17.0	18.8
	19.5	20.3	****	****	19.0	19.3	17.0	14.8	13.8	12.8	12.0	10.8
6/20	9.5	9.0	8.3	7.8	8.5	8.0	9.0	10.8	15.5	17.5	21.5	22.5
	23.0	24.3	24.3	24.3	23.0	21.8	20.3	17.5	15.0	12.5	11.3	10.0
6/21	8.5	7.8	6.8	5.5	6.0	5.0	6.5	9.8	13.5	16.0	20.0	21.3
	22.0	22.5	22.8	23.0	23.3	22.3	20.5	17.3	15.5	13.8	11.8	10.8
6/22	8.8	8.3	7.3	6.5	5.8	6.3	7.3	8.0	12.8	16.0	18.0	19.8
	21.8	21.0	20.3	19.8	19.0	18.5	16.3	15.5	13.5	12.0	11.0	10.3
6/23	8.3	7.8	7.3	6.3	6.3	6.0	6.5	9.3	12.0	13.5	14.3	15.0
	14.8	14.0	15.8	14.8	12.8	13.5	12.5	13.0	11.0	10.0	9.0	8.3
6/24	9.0	6.8	6.8	6.5	6.8	6.8	6.8	8.8	9.0	10.3	10.8	11.5
	12.5	14.3	15.5	14.0	12.5	14.8	13.3	11.8	10.8	8.8	7.8	7.0
6/25	6.0	5.3	5.8	5.0	4.3	4.5	5.5	10.3	12.3	14.8	16.0	17.0
	18.3	19.5	18.5	18.0	16.8	15.5	16.0	13.5	14.3	11.5	10.3	9.8
6/26	7.8	8.0	7.5	7.0	6.5	6.3	6.5	10.0	12.5	15.0	16.3	18.3
	18.5	19.3	18.8	18.8	17.5	15.3	15.5	13.8	12.0	11.0	10.5	9.5
6/27	9.0	8.5	7.8	7.0	6.3	6.5	6.8	10.0	13.8	16.8	17.0	18.5
	19.5	19.3	19.3	18.8	18.8	18.0	17.5	14.8	13.0	12.3	11.0	9.8
6/28	8.3	7.5	7.0	6.3	6.0	5.8	6.5	7.5	13.0	14.8	17.3	18.8
	22.0	22.5	22.8	21.3	20.0	20.0	17.5	15.8	13.8	13.0	10.8	9.3
6/29	8.8	7.3	7.0	5.8	5.8	5.3	6.3	8.8	11.8	12.5	16.8	18.0
	18.3	18.8	18.5	18.5	18.5	18.8	16.8	14.3	13.0	11.5	10.5	9.5
6/30	8.8	7.5	7.5	7.0	7.0	6.8	7.0	8.5	13.3	****	****	****
	****	****	****	16.0	15.3	15.0	14.3	13.5	12.3	10.5	8.8	7.8
7/ 1	6.8	6.3	6.3	4.5	4.8	4.5	5.5	7.3	12.0	14.0	16.5	18.0
	18.8	19.3	18.8	17.0	17.5	18.5	17.3	14.5	13.3	12.5	10.0	9.0
7/ 2	8.3	7.8	7.0	6.3	5.3	5.3	6.8	7.8	13.8	****	****	****
	****	****	****	18.3	17.0	16.8	15.5	14.3	12.8	11.5	12.0	12.3
7/ 3	12.5	12.5	12.5	11.8	11.5	10.5	10.5	12.5	14.0	17.0	19.0	20.5
	20.5	21.0	21.5	21.8	21.8	20.8	18.5	15.3	12.5	11.3	10.5	10.0
7/ 4	10.0	9.0	10.3	9.0	8.3	8.3	8.8	11.0	12.8	16.8	17.8	21.3
	19.8	18.8	19.5	16.3	16.0	17.0	16.3	15.5	14.3	13.3	11.8	10.5
7/ 5	10.0	9.3	8.3	8.0	6.8	8.0	10.3	14.0	18.8	21.0	22.5	24.5
	24.8	25.5	24.5	24.3	23.8	23.8	21.8	17.5	15.0	13.5	12.8	11.5
7/ 6	11.0	10.5	9.5	9.3	9.0	8.5	9.0	12.5	15.8	19.8	8.5	24.8
	24.8	23.5	22.5	22.8	21.5	19.8	18.5	16.0	14.0	11.8	11.5	11.3
7/ 7	10.5	11.0	10.8	10.8	10.8	10.8	10.8	11.0	11.8	****	****	****
	****	****	****	18.8	18.8	18.5	17.5	16.0	14.8	12.8	12.0	11.5

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

DRY-BULB AIR TEMPERATURE (°C) AT HONEYDEW--Continued

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.											
7/ 8	10.5	9.8	9.3	8.8	8.8	8.0	8.5	11.0	16.5	19.0	22.8	25.8
	26.3	26.8	27.5	28.0	27.5	27.3	25.3	21.5	19.5	17.5	15.5	13.8
7/ 9	12.3	11.8	10.0	10.3	9.5	9.5	10.8	14.5	17.0	21.0	22.8	24.0
	25.0	26.0	26.0	26.8	26.0	24.8	22.8	20.8	17.8	14.5	14.0	12.5
7/10	11.3	10.5	10.5	10.3	9.3	9.8	11.0	14.0	17.5	20.3	23.5	26.5
	27.3	27.3	28.3	28.0	27.3	26.0	24.8	22.5	20.0	18.5	16.0	14.8
7/11	14.3	12.8	11.5	12.3	11.5	12.0	12.8	15.3	16.8	19.3	21.3	23.0
	23.8	25.0	23.8	25.0	22.0	22.5	22.3	21.0	18.5	16.0	14.5	12.3
7/12	11.3	9.5	9.5	8.5	7.8	7.8	9.3	12.0	17.8	18.8	19.0	21.3
	21.3	23.3	21.8	21.5	19.8	19.0	16.3	14.8	14.0	13.5	12.5	10.3
7/13	10.5	9.5	9.0	8.5	8.3	7.5	9.0	12.3	18.0	21.5	23.5	24.3
	24.3	26.0	24.8	24.8	24.0	23.5	23.0	20.3	18.5	17.8	14.3	13.0
7/14	11.0	10.8	10.0	10.3	10.0	9.8	11.3	14.5	19.0	18.3	20.8	22.3
	22.0	19.8	22.0	22.8	20.5	20.5	18.0	17.0	15.8	15.5	15.3	15.0
7/15	14.8	15.3	15.5	14.5	13.8	14.0	13.8	14.0	14.8	15.5	16.0	15.8
	17.8	17.8	19.5	18.8	17.8	16.8	16.0	14.8	14.3	15.0	13.5	12.8
7/16	12.8	11.5	11.3	10.8	11.0	10.3	10.5	12.8	16.0	20.3	20.8	20.8
	24.3	23.8	22.8	23.3	22.5	22.8	20.5	19.3	17.0	15.0	14.0	12.3
7/17	11.5	10.3	9.8	9.0	9.0	8.5	9.8	12.0	16.0	19.3	21.5	22.8
	24.8	25.0	25.0	23.8	24.5	23.3	21.8	20.0	18.0	16.3	15.3	13.0
7/18	12.5	11.3	11.0	10.3	10.0	9.0	10.5	13.3	16.0	19.8	22.8	24.0
	23.0	23.3	22.3	22.5	22.8	21.0	20.3	19.3	18.3	16.3	15.8	14.8
7/19	13.8	13.3	12.5	12.0	11.3	11.3	12.0	14.0	15.8	19.5	21.0	21.0
	20.5	20.8	21.0	20.3	21.0	20.8	19.0	18.0	16.3	15.0	14.3	13.3
7/20	13.0	12.0	12.0	11.3	11.0	11.0	11.8	14.3	18.5	19.0	23.3	25.5
	26.5	27.8	28.3	27.5	26.0	25.8	24.3	21.8	20.0	18.0	16.0	14.5
7/21	13.5	12.8	11.5	10.8	10.0	10.3	11.3	13.8	18.3	21.8	24.8	26.0
	27.0	27.3	27.5	27.5	27.0	26.0	24.3	21.5	20.0	17.3	15.3	14.5
7/22	12.8	13.3	11.8	10.5	9.8	9.5	10.5	14.3	17.8	21.5	26.3	27.8
	29.5	29.5	31.3	30.3	29.5	28.3	26.8	24.5	21.8	18.5	16.8	14.8
7/23	13.8	12.8	11.8	11.5	10.3	9.5	10.5	13.5	18.3	20.8	25.3	29.5
	30.3	33.3	33.5	32.0	31.0	29.8	28.5	26.0	22.8	19.5	17.8	16.3
7/24	14.3	12.8	12.8	11.8	11.0	10.5	11.3	14.5	19.5	23.5	27.3	31.0
	32.8	32.5	32.8	32.0	32.0	31.0	28.3	25.5	22.3	18.5	16.8	15.8
7/25	14.3	13.0	12.0	11.5	11.0	11.0	12.0	15.8	20.0	25.0	28.8	31.0
	32.0	31.0	32.0	31.0	30.8	30.5	29.8	27.0	23.5	19.8	16.5	15.5
7/26	13.5	13.0	12.0	10.8	10.8	10.8	11.8	14.8	19.5	24.0	27.5	31.3
	31.8	30.3	29.8	29.3	28.3	26.5	25.5	23.3	21.0	19.3	18.3	16.8
7/27	15.8	14.5	13.8	12.8	12.0	11.3	12.3	14.5	18.8	20.5	23.0	24.8
	25.8	26.3	27.0	27.3	27.0	26.0	24.5	22.3	20.0	18.3	17.0	15.0
7/28	14.8	13.8	12.3	12.5	11.8	10.5	11.5	13.5	19.8	23.5	25.0	27.3
	27.3	28.3	28.3	26.5	26.8	24.8	22.5	20.3	19.3	16.8	16.3	15.8
7/29	14.5	14.3	14.0	13.5	13.3	13.0	13.5	14.3	14.5	15.8	17.5	18.8
	19.0	18.5	19.0	18.3	17.3	17.3	16.5	14.8	14.3	14.0	14.0	14.0
7/30	12.8	11.8	10.3	13.0	13.5	13.0	14.0	14.8	16.8	17.3	19.8	20.3
	20.5	21.0	21.0	21.0	19.8	18.8	18.5	16.5	15.8	14.8	13.0	11.5
7/31	10.3	9.8	9.3	7.8	7.8	7.3	8.0	10.5	14.3	20.8	24.5	27.3
	29.8	31.0	30.3	29.0	28.3	27.5	26.8	24.3	20.3	18.0	15.8	14.5
8/ 1	13.8	12.8	11.5	10.8	10.0	10.5	11.3	15.3	19.0	22.8	27.5	32.5
	32.5	33.3	33.5	33.3	33.0	32.5	31.0	27.5	23.5	20.8	18.0	16.3
8/ 2	15.0	14.0	13.8	12.8	12.5	11.0	12.5	15.0	19.5	24.0	28.5	30.3
	31.3	31.8	31.8	31.3	30.8	30.3	28.8	26.3	23.3	20.5	17.8	16.0
8/ 3	13.5	12.8	12.3	11.8	11.0	10.3	11.3	13.8	18.0	22.3	25.5	27.5
	25.8	27.0	26.3	25.0	23.8	22.3	21.3	19.8	16.0	15.3	13.3	12.5



TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

WET-BULB AIR TEMPERATURE (°C) AT HONEYDEW--Continued

DATE	HOURLY DATA BEGINNING AT 1:00 A.M.											
8/ 4	9.8	9.8	9.0	8.8	8.5	8.0	8.3	10.0	12.5	15.0	17.0	18.8
	19.5	20.0	19.5	19.3	19.3	18.8	17.6	15.8	14.3	13.3	12.0	11.3
8/ 5	10.8	10.0	9.3	8.8	8.0	8.5	8.5	10.3	13.3	15.0	16.8	17.3
	17.8	18.3	18.0	17.3	16.5	15.8	14.5	13.0	12.0	11.0	10.5	9.3
8/ 6	8.8	8.0	7.5	7.3	6.3	7.0	9.5	10.0	11.3	13.5	13.5	14.0
	14.0	15.0	14.8	14.3	13.8	13.0	12.0	11.3	11.3	11.0	11.0	10.8
8/ 7	10.3	8.8	8.3	6.8	6.3	6.8	6.5	9.0	12.3	13.5	14.8	15.8
	15.3	16.0	16.0	16.5	16.0	15.3	15.3	13.8	13.8	13.5	13.3	13.0
8/ 8	11.8	11.0	10.8	10.3	9.8	9.8	10.0	12.0	15.0	17.3	18.0	18.3
	18.8	19.3	18.8	18.8	18.8	17.8	17.3	15.8	13.8	13.3	12.0	11.5
8/ 9	10.8	10.0	9.3	8.8	8.8	7.8	8.3	10.5	12.8	15.0	17.0	18.3
	19.0	18.8	19.0	19.5	19.3	18.8	18.0	16.3	14.8	13.5	12.5	11.3
8/10	10.5	10.0	10.0	9.8	9.5	9.3	9.3	11.0	13.3	16.3	18.5	18.8
	19.3	19.5	19.8	19.0	20.0	19.5	19.3	17.8	17.0	14.8	13.8	12.8
8/11	12.0	11.3	10.3	9.8	9.5	9.0	8.8	10.3	13.3	15.8	17.8	18.3
	17.8	18.0	18.0	18.0	18.5	18.0	16.3	15.0	12.8	11.3	10.8	10.3
8/12	9.8	9.3	9.3	8.5	8.5	8.0	8.3	9.5	11.0	13.0	14.5	15.8
	15.8	16.5	15.5	15.0	13.8	13.3	11.8	11.0	9.8	9.5	8.8	8.5
8/13	8.8	8.8	8.5	8.3	8.5	8.3	8.3	8.5	10.3	11.8	13.5	15.3
	16.8	17.5	17.8	18.0	18.5	18.3	17.5	16.0	15.8	14.8	13.0	11.3
8/14	10.3	9.5	9.5	8.5	7.8	7.5	7.5	9.5	11.8	14.5	17.0	18.8
	19.8	19.8	20.3	20.3	19.5	18.8	18.3	16.5	15.0	13.3	11.8	10.8
8/15	10.0	9.0	7.8	8.3	8.0	7.0	7.5	8.8	****	****	****	****
	****	****	****	18.5	19.3	18.8	18.5	17.0	15.3	14.3	12.5	11.3
8/16	10.8	9.8	9.5	8.8	8.3	8.5	7.8	9.3	11.5	14.8	17.5	18.5
	20.3	20.3	21.3	20.0	20.3	19.8	18.0	16.0	15.3	14.3	13.3	13.3
8/17	12.5	12.8	12.5	12.5	12.5	12.5	12.5	13.3	14.5	16.0	16.3	17.3
	16.0	16.8	16.5	15.8	15.0	14.8	14.3	14.3	14.0	14.0	13.8	13.8
8/18	13.8	13.5	13.5	13.5	13.5	13.3	13.5	13.8	13.8	14.5	16.0	17.0
	17.0	18.8	19.8	19.5	19.3	17.0	16.3	14.5	13.0	11.8	10.8	10.3
8/19	9.5	8.8	7.8	7.5	7.3	7.0	6.5	9.0	11.8	14.0	16.5	18.5
	20.0	20.5	20.8	20.8	21.0	19.8	18.8	17.3	14.8	13.8	12.0	11.3
8/20	10.0	9.8	9.3	8.5	8.3	8.3	8.5	10.3	13.0	16.0	20.8	24.5
	27.0	26.8	27.0	26.8	25.0	24.0	22.0	20.8	18.3	16.8	15.5	13.8
8/21	13.5	12.5	12.0	11.5	10.5	10.0	10.0	12.0	14.0	16.8	20.0	19.8
	19.8	20.5	21.0	20.8	18.5	18.5	18.3	17.0	15.3	14.3	13.3	12.3
8/22	11.3	10.8	9.8	9.8	9.5	8.8	8.8	11.5	13.5	15.5	19.0	22.5
	24.8	25.3	25.3	25.5	24.0	22.3	20.5	18.0	15.8	14.3	13.3	12.0
8/23	11.3	11.0	10.3	10.5	10.5	10.8	10.3	12.3	13.5	16.0	18.5	21.3
	22.5	22.0	22.0	21.0	21.3	21.5	20.5	18.5	17.5	16.8	15.0	14.0
8/24	13.5	13.3	12.3	12.5	11.5	12.0	11.8	13.5	16.8	20.0	23.0	26.0
	27.5	28.5	28.5	28.5	27.5	24.8	23.8	21.0	18.0	14.5	13.0	11.8
8/25	10.5	9.8	8.0	7.3	6.0	5.8	5.8	8.0	12.3	16.8	20.5	25.0
	26.8	26.5	26.0	25.3	24.3	23.0	21.5	18.8	15.8	14.0	12.5	10.8
8/26	10.0	8.8	8.3	7.5	7.0	6.8	8.0	8.5	9.3	12.0	14.3	16.0
	14.5	14.3	14.5	16.8	15.3	14.3	13.5	11.8	11.8	11.8	11.5	11.5
8/27	11.8	11.8	11.8	11.8	11.8	11.8	11.8	12.5	13.3	13.3	14.5	16.5
	15.8	14.8	14.5	14.3	13.8	14.0	13.0	13.3	12.0	12.0	12.5	12.5
8/28	12.3	11.8	12.0	11.8	11.5	11.3	11.0	11.3	11.8	12.5	14.5	15.0
	16.3	16.8	17.0	16.3	15.5	14.5	14.0	13.0	11.0	10.5	9.0	8.5
8/29	7.8	7.3	7.0	6.3	5.8	5.8	5.8	7.5	10.3	12.5	15.5	16.8
	17.5	18.0	17.3	17.3	17.0	16.3	16.3	14.8	12.5	11.8	10.5	9.5
8/30	8.8	8.0	7.8	7.5	7.0	6.3	6.3	8.0	10.0	14.0	16.3	17.3
	18.0	17.5	17.8	17.8	17.8	16.5	15.8	14.0	11.8	11.8	10.8	9.0



TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

## WIND VELOCITY (m/s) AT WHITETHORN--Continued

[illegible]

[++++ denote missing data]

Floor, Firebold: County, California, 1971--Continued

[illegible]



TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued  
[\*\*\*\* denote missing data]

WIND VELOCITY (m/s) AT WHITETHORN--Continued

DATE HCURLY DATA BEGINNING AT 1 00 A.M.

8/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.0
	.0	.0	.5	1.0	.0	.0	.5	.5	.5	.0	.0	.0
8/31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.5	1.0	.0	.5	1.0	.0	.0	1.0	.5	.0	.0	.0
9/ 1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	****	****

9/ 2	****	****	****	****	****	****	****	****	****	****	****	****
9/ 3	7.7	6.7	7.6	8.5	6.0	7.3	7.6	8.7	6.7	6.8	8.3	8.1
9/ 4	7.3	1.9	.8	2.2	1.9	3.1	2.2	2.7	.7	4.6	4.9	6.1
9/ 5	6.4	7.4	6.3	6.4	5.7	3.3	4.4	5.3	6.4	7.6	4.9	6.1
9/ 6	2.3	2.7	1.2	.7	2.1	.7	.0	3.0	2.3	4.6	3.3	6.1
9/ 7	6.2	7.4	7.6	6.3	6.4	6.3	6.7	7.1	6.3	2.8	2.9	4.1
9/ 8	22.9	6.9	6.3	7.3	6.0	6.3	1.0	6.2	6.1	6.2	6.2	7.1
9/ 9	3.1	7.8	6.7	7.4	3.7	1.9	6.4	7.6	7.6	6.1	6.8	6.1
9/10	3.6	3.3	3.3	3.0	2.7	1.9	2.3	3.6	3.6	7.4	3.3	7.1
9/11	7.6	6.4	6.4	10.0	6.4	6.4	6.0	3.5	4.1	2.1	1.9	3.1
9/12	2.3	1.7	.9	1.3	1.2	1.4	2.3	5.7	4.6	6.3	7.3	4.2
9/13	7.4	6.8	6.4	6.4	12.7	10.3	15.4	9.1	2.7	2.3	2.9	1.1
9/14	3.1	.3	2.3	.7	1.1	1.7	1.6	1.9	2.3	2.3	4.1	6.1
9/15	6.1	6.9	9.3	12.1	11.9	6.0	6.7	7.1	2.6	2.3	1.6	1.1
9/16	2.7	1.7	1.1	1.2	1.2	1.3	1.3	2.1	2.3	4.1	1.4	6.1
9/17	6.7	3.0	6.3	4.6	7.6	3.0	3.0	6.0	4.1	2.6	1.6	1.1
9/18	.0	1.7	1.4	1.7	1.1	1.9	1.9	2.0	1.9	2.3	3.7	6.1
9/19	6.6	12.3	7.6	7.6	6.7	4.0	7.1	2.3	2.6	2.6	3.3	3.1
9/20	.3	.3	1.6	.9	1.7	2.3	1.3	.0	2.3	4.6	7.1	3.1
9/21	6.0	7.4	4.4	6.7	6.0	4.9	4.1	1.5	2.7	4.8	6.1	1.1
9/22	.0	1.7	.5	.7	1.1	1.2	.1	.0	.0	.1	.0	.1
9/23	.0	.7	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
9/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
9/25	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
9/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
9/27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
9/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
9/29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
9/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
10/ 1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
10/ 2	6.0	6.0	6.0	.0	.7	.0	.0	.0	.0	.0	.0	.1
10/ 3	.0	.0	1.1	2.1	2.1	1.0	1.0	.3	.3	.1	.0	.1
10/ 4	.0	.0	.0	.0	.0	.0	.0	.3	.3	4.0	6.4	2.1
10/ 5	1.0	.0	1.0	.9	.0	.9	.7	.1	.7	7.3	2.1	1.1
10/ 6	2.0	2.0	2.0	2.1	2.5	2.9	2.1	2.1	1.0	.5	.0	.1
10/ 7	.0	.0	.1	.0	.0	.0	.0	.1	1.0	1.0	2.0	1.1
10/ 8	1.1	1.7	2.1	2.7	1.0	1.0	2.1	2.1	1.0	1.0	1.0	1.1
10/ 9	.0	.0	.0	.0	.0	.0	.1	.1	.0	1.0	1.0	1.1
10/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.1
10/11	2.3	2.3	2.3	2.3	2.1	2.7	2.0	2.1	2.0	.0	.0	1.1

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1976--Continued  
[\*\*\*\* denote missing data]

WIND VELOCITY (m/s) AT HONEYDEW

DATE	HOURLY DATA BEGINNING AT 1 00 A.M.											
6/11	****	****	****	****	****	****	****	****	****	****	****	4.6
	2.5	.5	2.3	6.2	7.5	7.4	13.1	4.8	4.6	4.6	1.2	4.6
6/12	1.9	1.1	1.3	1.6	1.7	.8	2.3	3.3	4.4	4.9	3.5	7.0
	9.3	9.3	9.3	11.7	11.7	9.3	2.3	4.6	2.6	.4	.3	.4
6/13	.8	1.6	.8	2.1	2.2	.0	1.7	1.6	1.7	4.0	3.7	2.2
	3.1	6.3	8.5	8.5	5.5	3.3	2.7	2.2	4.0	2.3	.8	1.9
6/14	.5	1.1	.1	1.1	1.1	.5	2.9	3.4	4.4	4.6	6.3	8.9
	7.5	6.3	7.6	8.5	6.0	9.3	6.6	8.2	4.1	4.9	3.5	2.5
6/15	2.2	1.9	.8	2.2	1.9	3.3	2.2	2.2	.9	4.6	4.5	6.6
	6.0	7.4	8.5	6.6	5.2	5.5	4.8	5.5	8.9	7.6	4.0	4.6
6/16	2.3	3.7	1.2	.7	1.1	.7	.8	3.0	3.3	4.9	5.5	6.0
	8.2	7.4	7.6	6.3	4.4	6.8	6.8	7.1	8.5	5.5	2.5	4.6
6/17	12.3	4.9	6.0	7.1	6.0	6.8	11.0	8.2	6.6	8.2	8.2	7.4
	7.1	7.4	8.2	7.4	5.5	5.5	6.6	9.6	9.6	6.6	8.8	5.5
6/18	3.5	3.3	3.3	3.0	2.7	3.5	5.5	3.5	3.8	7.4	3.3	7.1
	7.4	9.6	6.6	14.0	4.4	6.6	6.0	5.5	4.1	2.1	1.5	2.2
6/19	1.5	1.2	.9	1.1	1.2	1.6	3.3	5.7	4.9	8.2	7.1	10.4
	7.4	6.8	****	****	13.7	10.3	15.9	9.6	5.7	3.3	2.5	1.3
6/20	2.1	.5	2.3	.7	1.1	1.2	1.6	1.9	2.5	3.5	4.1	8.2
	8.2	9.9	9.3	10.1	11.8	8.0	8.2	7.1	3.8	2.3	1.6	1.1
6/21	.9	1.7	1.1	1.1	1.2	1.5	1.3	3.3	3.3	4.1	7.4	8.0
	8.2	8.0	8.5	6.8	7.6	3.0	3.0	6.0	9.6	2.5	1.6	1.1
6/22	.8	1.2	1.6	1.9	1.1	1.9	1.9	3.0	3.0	3.3	5.7	8.2
	6.6	12.3	7.6	7.6	8.2	6.0	7.1	2.5	2.6	2.6	1.6	1.2
6/23	.5	.5	1.6	.9	1.7	2.5	1.5	.8	3.3	6.6	7.1	5.5
	6.0	7.4	4.4	6.7	6.0	4.9	4.1	1.5	2.2	4.8	4.1	1.9
6/24	.8	1.7	.5	.7	1.1	1.2	.5	.0	.0	.1	.0	.0
	.0	.3	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0
6/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	1.1	.0	.0	.0	.0	.7	.3	.0	.1	.0	.0
6/26	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
	.1	.0	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0
6/27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
6/28	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
6/29	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
6/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
	****	****	****	.0	.7	.0	.0	.0	.0	****	****	****
7/ 1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.3
	.0	.0	3.1	3.1	2.1	1.0	1.0	.5	.5	.5	.5	.0
7/ 2	.5	.5	.0	.5	.0	.5	.0	.5	.5	****	****	****
	****	****	****	1.0	1.5	1.0	1.5	.5	.5	1.0	.5	1.5
7/ 3	1.0	.5	1.0	.5	.5	.5	.5	.5	.5	1.0	2.1	1.5
	3.1	2.5	2.5	2.1	2.5	2.5	2.1	2.1	1.0	.5	.0	.5
7/ 4	.5	.5	.5	.0	.5	.0	.5	.5	1.0	.5	1.0	1.5
	3.1	4.1	2.5	2.1	1.0	1.0	2.1	1.5	1.5	1.0	.5	.0
7/ 5	.0	.0	.0	.0	.0	.0	.5	.5	.5	1.0	1.0	1.5
	3.1	2.1	1.0	1.5	1.5	1.0	1.5	1.5	.5	.5	.0	.0
7/ 6	.0	.0	.0	.0	.0	.0	.5	.5	.5	.5	1.0	2.1
	2.5	3.6	2.5	2.5	3.1	2.5	2.5	2.1	1.0	.5	.0	.0
7/ 7	.0	.5	.5	.5	.5	.5	.5	.5	.5	****	****	****
	****	****	****	2.5	3.1	2.5	2.1	.5	.5	.5	.0	0

TABLE 7.--Hourly meteorological data for selected sites in the Mattole River, Humboldt County, California, 1975--Continued

[\*\*\*\* denote missing data]

WIND VELOCITY (m/s) AT HONEYDEN--Continued

DATE HURLY DATA BEGINNING AT 1 00 A.M.

7/ 8	.0	.0	.0	.0	.0	.0	.0	.5	.5	.5	.5	1.5
7/ 9	2.1	3.1	2.5	2.1	2.5	2.1	2.1	1.5	.5	.0	.5	.0
7/10	.0	.5	.0	.0	.5	.0	.5	.5	1.0	1.0	1.0	1.5
7/11	2.1	2.5	2.5	2.5	2.1	2.5	1.5	1.5	.5	.0	.5	.0
7/12	.0	.0	.5	.5	.0	.0	.5	.0	1.5	1.0	1.0	1.0
7/13	1.5	2.5	2.1	2.5	2.1	2.5	2.1	2.1	.5	.5	.5	.5
7/14	.5	.5	.0	.0	1.0	1.0	.5	.0	.5	.5	1.5	2.1
7/15	2.5	3.1	3.1	2.1	2.5	1.5	1.5	1.5	1.5	2.5	1.5	.5
7/16	.0	.5	.0	.5	.5	.5	.5	.0	1.0	1.5	3.1	2.5
7/17	2.1	2.5	3.1	3.1	2.5	2.5	2.1	2.5	1.5	.5	.5	.5
7/18	.5	.5	.0	.5	.0	.0	.5	.5	.0	1.5	2.1	2.1
7/19	2.5	2.5	2.1	1.5	2.1	1.5	2.1	1.5	1.5	1.5	.5	.0
7/20	.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	2.1	2.1
7/21	2.1	2.1	2.5	2.1	2.5	1.5	2.1	1.5	1.5	2.1	1.0	.5
7/22	.0	.5	.5	.5	.5	.0	1.0	.5	1.0	1.0	1.5	1.5
7/23	1.5	2.1	1.5	1.5	1.0	1.5	2.1	1.5	1.0	.0	.0	.0
7/24	.0	.0	.5	.0	.5	.0	.0	.5	.5	.5	1.5	1.0
7/25	2.1	2.1	3.6	1.5	2.5	1.5	1.5	1.5	1.0	.5	.0	.5
7/26	.5	.0	.5	.0	.5	.0	.5	.5	.5	1.0	1.0	1.0
7/27	1.5	2.1	3.1	2.5	2.5	2.1	2.5	.5	1.0	.5	.0	.0
7/28	.0	.5	.0	.0	.0	.5	.0	.5	.5	.5	.5	2.5
7/29	2.1	3.1	3.1	2.5	3.1	2.5	2.5	2.1	2.1	1.5	.0	.0
7/30	.0	.0	.5	.0	.0	.0	.0	.5	.5	1.0	2.1	2.1
7/31	3.1	3.1	2.5	2.5	2.5	3.1	2.5	1.5	.5	.5	.5	.0
8/ 1	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	1.0	1.0
8/ 2	2.1	2.1	1.5	3.1	2.1	2.5	1.5	2.1	1.0	.0	.0	.0
8/ 3	.0	.0	.5	.0	.5	.5	.0	.0	.5	.5	1.5	1.0
8/ 4	1.5	2.1	2.1	2.1	1.0	1.0	****	****	****	****	****	****
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