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SURFACE WATER TEMPERATURES AND SALINITIES
AT SHORE STATIONS

United States West Coast

1987

Including *five-meter temperatures*
and *salinities* at Scripps Pier

SIO Reference 88-13
31 July 1988

Sponsored by:

Marine Life Research Group
Scripps Institution of Oceanography

Approved for distribution:


Edward A. Frieman, Director

CONTENTS

Introduction	3
Station Descriptions	4
Station Location Chart	7
Table of Surface Temperature Monthly and Yearly Means	8
Table of Surface Temperature Anomalies	9
Coastal Surface Water Temperature and Salinity Data	
Neah Bay Temperature	10
Charleston Temperature	11
Crescent City Temperature	12
Trinidad Beach Temperature	13
Trinidad Beach Salinity	14
Trinidad Bay Temperature	15
Bodega Bay Temperature	16
Bodega Bay Salinity	17
Farallon Island Temperature	18
Farallon Island Salinity	19
Santa Cruz Temperature	20
Pacific Grove Temperature	21
Granite Canyon Temperature	22
Granite Canyon Salinity	23
Morro Bay Temperature	24
Port San Luis Temperature	25
Santa Barbara Temperature	26
Point Mugu Temperature	27
Point Dume Temperature	28
Santa Monica Temperature	29
Balboa Temperature	30
Balboa Salinity	31
San Clemente Temperature	32
San Clemente Salinity	33
Scripps Pier Surface Temperature	34
Scripps Pier Surface Salinity	35
Scripps Pier Bottom Temperature	36
Scripps Pier Bottom Salinity	37

INTRODUCTION

This report presents temperature and salinity data observed during 1987 at shoreline stations along the United States West Coast from the Strait of Juan de Fuca, Washington to La Jolla, California. The data consists of daily temperature and salinity values when available, with means, ranges and standard deviations based on these observations.

Various agencies and individuals volunteer to make daily observations which are sent periodically to the Scripps Institution of Oceanography, Marine Life Research Group, for the preparation of this data report and to update the computer tapes of the historical shore data. The agencies are: National Oceanic and Atmospheric Administration/National Ocean Survey (NOAA/NOS), Pacific Missile Test Center, Oregon State University, University of California, California State University, California Department of Fish and Game, Point Reyes Bird Observatory, Hopkins Marine Station, Los Angeles County, the cities of Santa Barbara, San Clemente, and Newport Beach, California, Pacific Gas and Electric Company, and Scripps Institution of Oceanography of the University of California at San Diego.

Annually, NOAA/NOS sends to Scripps Institution daily temperature and density values from four tide gauge stations located at Neah Bay, Washington and Crescent City, Port San Luis and Santa Monica, California. Temperature readings for those localities and Pacific Gas and Electric Company at Morro Bay, California are recorded variously to 0.1°, 0.5°, or 1°F. Pacific Missile Test Center temperature readings at Point Mugu are recorded to 0.1°F. These Fahrenheit readings have been converted and are reported to the nearest 0.1°C. Temperatures from Scripps' cooperative stations and from Charleston, reporting to Oregon State University, are read to the nearest 0.1°C with calibrated thermometers except for Santa Cruz, which records temperatures from a thermistor to 0.1°C. The observations are considered accurate to approximately $\pm 0.2^\circ\text{C}$.

Salinities from Scripps Pier, Balboa, S.E. Farallon Island, San Clemente, Bodega Bay, Granite Canyon and Trinidad are obtained from sea water samples in special salinity bottles supplied by Scripps. Water samples are forwarded to Scripps at the end of each month for salinity determination by inductive salinometer. Salinities are listed to hundredths of a part per thousand. Values of maximum salinities may possibly be in error due to evaporation or contamination of the sample in the bottles. Reported salinities exceeding 34‰ may be due to faulty sampling techniques. Salinities less than 30‰ are due to local precipitation or fresh water runoff. Neither are representative of offshore oceanic waters. As with previous reports in this series, all salinities higher than 34.9‰ have been omitted.

The data presented is grouped in three periods: days 1 through 10, 11 through 20, and 21 through 31; the mean is computed for each period. In this report some temperatures and salinities appeared to be higher than the norm but not high enough for omission. These have been noted with a U and not included in any of the computations nor are they listed as the maximum for that year. The monthly means, maxima and minima are reported. Also computed are yearly mean, maximum and minimum values for those stations with some observations for every month of the year.

In addition to the data tabulated in this report, tables have been included that summarize, by station, the monthly and annual temperature means and the monthly and annual temperature anomalies for 1987. Below each station for which anomalies have been tabulated are shown the years over which data have been used in determining the long term averages from which the anomalies have been calculated.

STATION DESCRIPTIONS

The paragraphs that follow provide information for the stations listed in this report. They are described in geographical order as they occur from north to south.

Neah Bay, Washington 43°22.1'N, 124°37.0'W NOAA/NOS

This tide gauge station is located near Cape Flattery at the entrance to the Strait of Juan de Fuca.

Charleston, Oregon 43°20.7'N, 124°19.3'W Oregon Institute of Marine Biology,
Oregon State University

Daily temperatures are collected at high tide from the OIMB pier in Coos Bay.

Crescent City, California 41°44.7'N, 124°11.8'W NOAA/NOS

This tide gauge station is located on the end of the Coast Guard Pier inside the harbor at Crescent City. The harbor has a small entrance formed by two breakwaters. Temperatures at the tide gauge site and the water on the beach outside the breakwater are nearly the same.

Trinidad Beach, California 41°03.6'N, 124°08.9'W Humboldt State University
Marine Laboratory

Trinidad Bay, California 41°03.3'N, 124°08.8'W

Humboldt State University operates a marine laboratory on this rocky headland. Temperatures are taken daily off the fishing pier on the lee side or southeast side of the headland and on the beach on the northwest side of the headland. In May 1977 the laboratory began collecting water samples in bottles supplied by Scripps, returning the samples monthly for salinity determination by inductive salinometer. Due to the similarity of the salinities from the coast and the bay, except during periods of large run-off, the bay salinities were discontinued May 31, 1979.

Bodega Bay, California 38°19.0'N, 123°04.3'W University of California Marine Laboratory

The Marine Biological Laboratory located at Horseshoe Cove takes daily water temperature and salinity samples at the intake pipe to their aquarium water system located in a deep rocky channel on the northern headland of the cove. Since the water is deep and the headland steep and rocky, the temperatures are quite representative of the coastal water. This station continues the coverage provided earlier by Sonoma Coast State Beach.

Farallon Islands, California 37°41.8'N, 122°59.9'W Point Reyes Bird Observatory

The islands are part of the Farallon Island National Wildlife Sanctuary. Personnel stationed on S.E. Farallon, where the Coast Guard lighthouse is located, take daily temperature and salinity samples. Salinity samples are collected in bottles supplied by Scripps and mailed back when the supply boat comes out to the island. The boat landing on the southeast side of the island is steep and rocky, so the measurements are very representative of the oceanic waters around the islands. Measurements are interrupted from time to time because of weather, personnel and supply problems caused by the islands' location 26 miles west of the Golden Gate Bridge, where they catch the full force of winter storms and the strong summer northwesterers.

Santa Cruz, California

36°57.5'N, 122°01.0'W

University of California, Santa Cruz

A buoy-gauge thermistor unit has been installed in the wharfmaster's office with the thermistor located in a protective pipe on a pier piling under the office. Maintenance of this wharf station is carried out by the Marine Biology Department of the University of California, Santa Cruz.

Pacific Grove, California

36°37.3'N, 121°54.2'W

Hopkins Marine Station

Hopkins Marine Station of Stanford University takes daily temperatures from a beach on the north side of Point Cabrillo just north of their main laboratory buildings. The location is exposed to the northwest swell as it sweeps past Point Pinos so is very representative of the coastal conditions on the south side of Monterey Bay.

Granite Canyon, California

36°25.9'N, 121°55'W

Marine Resources Laboratory
California Department of Fish and Game

Personnel of the Marine Resources Laboratory of the California Department of Fish and Game take daily temperature and salinity samples off the rocks near the water intake for the laboratory. The spring-summer upwelling that is typical of the central California coast is well represented by this station; it is approximately 5 miles south of the old Point Lobos South location.

Morro Bay, California

35°22.2'N, 120°51.6'W

Pacific Gas and Electric Company

The Pacific Gas and Electric Company has a major power generating plant located at the entrance to Morro Bay's harbor mouth. Temperatures are logged from the thermograph that monitors the cooling intake water for the generators. Temperatures are recorded about 8 A.M. every morning, which reduces the effect of tidal heating from back-bay water. Since the discharge of hot water is outside the bay, the intake temperatures are quite representative of those found in the southern end of Estero Bay. (The northern part of the bay is generally cooler. This condition existed long before the power plant went in and was noted in earlier measurements made by Daniel Brown of SIO.)

Port San Luis, California

35°10.1'N, 120°45.1'W

NOAA/NOS

This tide-gauge station is located on the old fishing pier in the northwest corner of the harbor. The old site was on Avila recreational pier which was a better location. The new location is less subject to storm damage, particularly from the southeast winter gales. However, the counterclockwise circulation of current in the bay traps the river run-off from San Luis Creek in the northwest corner of the bay behind the breakwater. Temperature is also about 0.1°C warmer at the new site.

Santa Barbara, California

34°24.2'N, 119°41.6'W

City of Santa Barbara

Personnel of the Harbor Department now take daily water temperatures off their boat dock instead of the breakwater by the corner where it meets the beach. This is done every morning early before the sun heats up the beach and so gives a representative temperature of the coastal water. Temperatures were formerly collected from the harbormaster's dock, but the configuration of the harbor changed, so the site was moved to the beach by the breakwater.

Point Mugu, California

34°06'N, 119°05'W

Pacific Missile Test Center

Personnel at the Pacific Missile Test Center have been recording weather observations continuously since 1946 and water temperatures since 1967. At the present time daily water temperatures are being recorded four times a day from an electric thermistor at the end of a 300-foot pier. This is located at the beginning of a submarine canyon in a lagoon open to the sea on three sides.

Point Dume, California

34°01.1'N, 118°49.5'W

Los Angeles County

The Los Angeles County Lifeguards man the station at Zuma Beach County Park west of Point Dume. They take daily water temperatures in the surf early every morning thus giving representative temperatures for this section of the coast.

Santa Monica, California

34°00.5'N, 118°30.0'W

NOAA/NOS

This tide-gauge station is located at the end of the Santa Monica pier near the harbormaster's office. Although located behind the breakwater, there is sufficient water flow to make this representative of the nearshore waters.

Balboa, California

33°36'N, 117°54'W

City of Newport Beach

The city lifeguards take daily temperature and salinity samples from the Newport Beach pier. Since these samples are taken in deeper water, and not from the surf, they reflect coastal conditions accurately. The salinity is affected during winter storms by run-off from the Santa Ana River mouth located only a mile or so up the beach from the pier.

San Clemente, California

33°25'N, 117°37'W

City of San Clemente

Personnel of the Department of Marine Safety take daily temperatures and salinity samples off the pier. This station was established to take over the temperature monitoring on this section of the coast from the old Dana Point and Doheny Beach stations. The new yacht harbor at Dana Point removed the Dana Point station, but the San Clemente pier site is so similar that the long record for this area is still preserved.

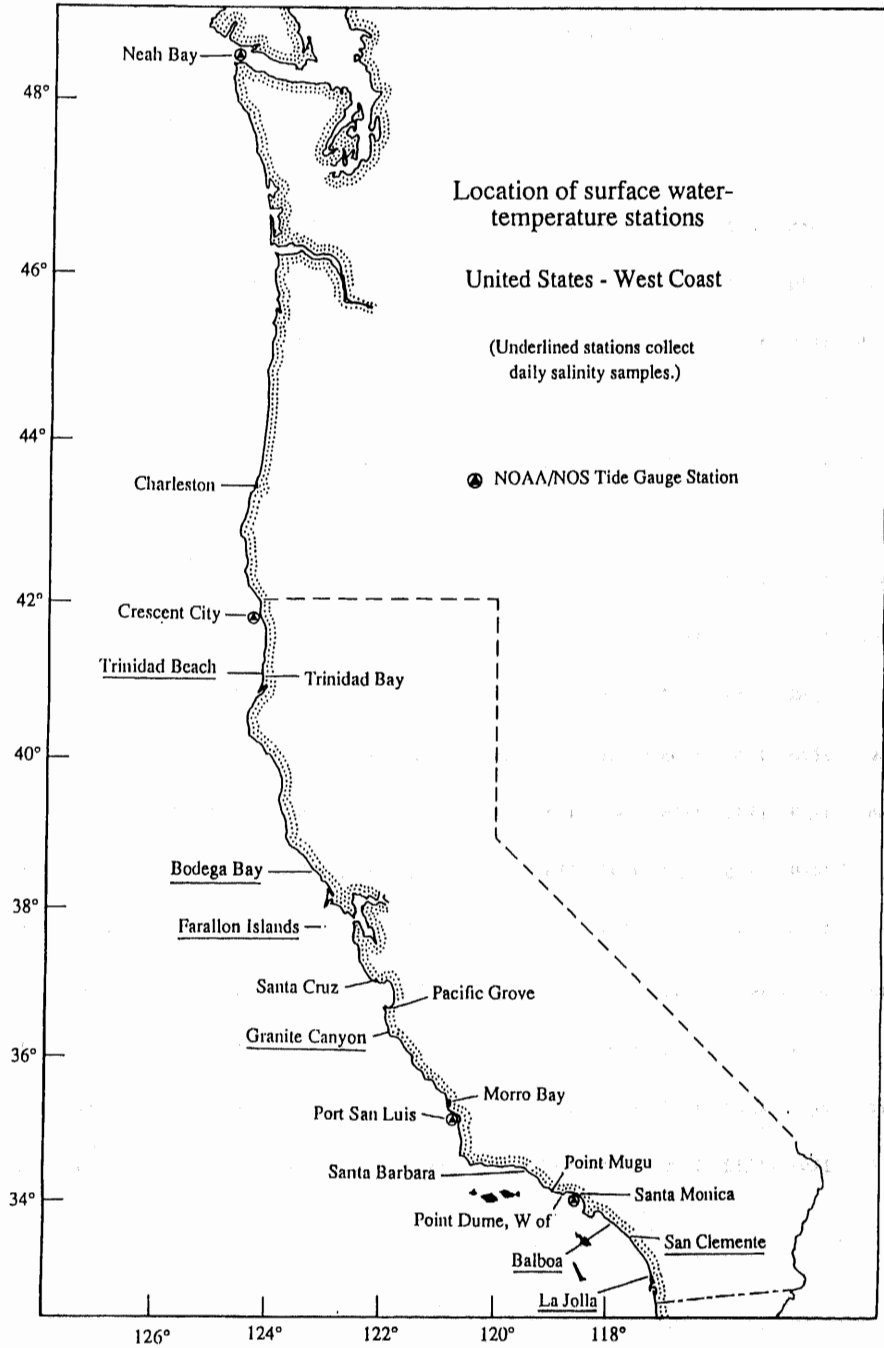
La Jolla, California

32°52.0'N, 117°15.5'W

Scripps Institution of Oceanography
U.C. San Diego

Daily temperature and salinity measurements are made at the end of the Scripps Institution of Oceanography pier. Two levels of measurement are made: surface and 5 meter or bottom. The temperatures at the end of Scripps pier may fluctuate because of the presence of nearby Scripps Canyon and upwelling from it.

New state parks and new marine laboratories may be able to extend some of our coverage in the future. Many of the participants are volunteers, people seriously interested in the sea at their doorstep, and it is to these people we owe the success of this long-range program.



1987 COASTAL SEA-SURFACE TEMPERATURE
MONTHLY AND YEARLY MEANS

Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Neah Bay	8.09	8.34	9.42	10.35	10.90	11.79	12.55	13.21	11.61	10.40	10.37	8.92	10.50
Charleston	10.65	10.46	10.60	11.10	11.32	11.79	12.25	10.79	11.40	10.83	12.04	11.25	11.21
Crescent City	11.59	11.77	11.81	13.20	13.65	14.41	14.78	15.17	14.45	14.22	12.89	11.06	13.25
Trinidad Beach	11.98	11.73	11.40	11.53	11.98	11.34	12.17	12.04	12.50	12.69	12.97	12.62	12.08
Bodega Bay	11.71	11.60	11.51	11.27	11.29	10.97	12.30	14.11	13.58	14.12	13.47	-	-
Farallon Island	12.76	12.71	12.09	11.36	12.49	12.32	12.97	14.59	14.91	14.55	14.59	12.61	13.16
Santa Cruz	12.62	12.68	12.99	13.21	13.98	14.22	15.10	16.00	16.34	15.42	14.69	12.66	14.16
Pacific Grove	12.52	12.71	12.79	12.69	13.57	13.66	14.73	15.99	15.36	15.07	14.53	12.72	13.86
Granite Canyon	12.85	12.59	11.91	10.88	12.03	11.30	11.71	14.49	13.29	14.51	14.08	12.89	12.71
Morro Bay	13.68	13.59	13.15	13.46	14.54	13.87	14.72	15.49	15.60	16.26	15.18	13.85	14.45
Port San Luis	12.56	12.69	12.05	12.19	13.53	13.04	13.50	14.62	15.42	15.61	14.79	12.42	13.54
Santa Barbara	14.39	14.41	13.56	-	16.85	16.41	17.73	17.72	18.61	18.64	16.74	14.27	-
Point Mugu	14.69	13.95	13.32	14.47	15.42	14.85	15.92	16.30	17.64	17.79	16.70	14.62	15.47
Point Dume	14.80	14.12	14.04	15.59	17.09	16.31	17.49	17.91	19.09	18.41	16.93	14.15	16.33
Santa Monica	14.52	14.30	14.23	16.29	18.77	17.95	18.88	20.23	19.79	19.23	17.22	13.84	17.11
Balboa	15.24	14.77	14.38	16.37	17.78	17.26	18.36	18.66	19.88	18.70	17.83	15.07	17.02
San Clemente	14.03	13.87	13.11	15.62	16.94	16.80	18.47	18.74	19.67	18.79	17.46	14.54	16.50
La Jolla	14.93	15.12	14.89	17.36	18.57	18.23	18.63	19.95	20.69	19.89	17.54	14.96	17.56

1987 COASTAL SEA-SURFACE TEMPERATURE

ANOMALIES

Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Neah Bay 1935-87	0.79	0.92	1.32	1.15	0.35	0.30	0.81	1.63	0.23	-0.20	0.93	0.75	0.75
Charleston 1966-87	0.76	0.41	0.06	0.34	-0.14	-0.42	-0.19	-1.50	-1.03	-0.67	0.66	0.91	(-0.07)
Crescent City 1933-87	1.69	1.60	1.34	2.38	2.06	1.82	1.07	0.69	0.72	1.76	1.53	0.72	1.45
Trinidad Beach 1975-87	1.05	0.81	0.22	0.82	1.19	-0.06	0.06	-0.37	0.03	0.27	1.05	1.40	(0.54)
Bodega Bay 1957-87	0.59	0.27	0.55	0.99	1.24	0.19	0.87	2.00	0.96	1.45	1.06	-	(0.92)
Farallon Island 1925-43, 55-87	0.93	0.84	0.42	0.15	1.22	0.64	0.73	1.65	1.30	1.02	1.69	0.36	0.91
Santa Cruz 1955-71, 80-87	0.73	0.46	0.69	0.85	1.04	0.38	0.27	0.66	1.09	0.93	1.55	0.44	(0.76)
Pacific Grove 1919-87	0.60	0.60	0.50	0.23	0.84	0.23	0.82	1.91	1.02	1.20	1.56	0.35	0.82
Granite Canyon* 1957-87	0.74	0.64	0.63	0.22	1.25	-0.17	-0.37	1.68	0.10	1.52	1.18	0.48	0.66
Morro Bay 1962-87	1.22	1.07	0.89	1.26	1.82	0.22	0.41	0.69	0.98	2.07	1.59	0.98	(1.10)
Port San Luis 1945-87	0.04	-0.02	-0.34	-0.21	0.59	-0.95	-1.82	-1.23	-0.32	0.52	0.90	-0.47	-0.28
Santa Barbara 1955-87	0.90	0.64	-0.41	-	1.52	-0.40	0.15	-0.60	0.27	1.15	1.06	0.25	(0.41)
Point Mugu 1967-87	0.71	0.09	-0.13	1.53	1.86	0.24	0.44	-0.26	0.80	1.26	0.93	0.00	(0.62)
Point Dume 1957-87	0.73	0.27	0.17	1.39	2.30	0.07	0.15	-0.67	0.89	0.97	0.84	-0.51	0.55
Santa Monica 1946-87	0.76	0.36	0.06	1.42	2.82	0.23	-0.45	0.25	0.49	1.38	1.29	-0.55	0.67
Balboa 1925-87	1.14	0.72	0.07	1.41	1.62	-0.33	-0.22	-0.63	1.30	0.86	1.55	0.11	0.63
San Clemente* 1955-87	0.17	-0.25	-1.26	0.38	0.40	-1.16	-0.66	-1.18	0.40	0.57	1.22	0.09	-0.11
La Jolla 1916-87	0.84	1.08	0.39	1.94	1.62	-0.19	-1.27	-0.80	1.25	1.87	1.25	0.08	0.67

* Recent data combined with older nearby records for historical means.

() Incomplete year or historical mean of less than 30 years.

YEAR 1987

TEMPERATURE

NEAR BAY

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	9.4	6.1	7.2	10.0	10.0	10.6	13.3	12.8	10.0	11.1	10.8	9.4
2	8.9	7.8	9.4	9.4	9.4	11.7	12.2	15.0	11.1	11.1	10.6	9.4
3	8.9	8.3	8.3	10.0	10.6	11.7	11.9	12.8	11.4	10.8	10.6	9.7
4	8.6	8.3	10.0	10.0	10.6	11.9	12.2	14.4	14.4	10.8	10.6	10.0
5	9.6	8.3	9.4	10.0	10.8	14.4	12.2	14.2	12.2	10.8	10.0	9.7
6	7.8	8.3	9.4	10.0	11.7	12.8	12.2	14.4	12.8	13.3	10.0	9.7
7	9.1	8.3	9.4	9.4	11.7	13.3	12.8	14.7	10.6			
8	7.8	8.6	9.4	9.4	11.7	11.7	12.2	12.8	11.1			
9	7.5	8.3	9.4	9.4	11.7	12.5	12.5	14.7	10.8	10.6	10.3	10.0
10	7.5	8.9	9.4	10.6	11.1	11.7	12.5	12.8	11.7	10.0	10.0	10.0
11	8.9	8.9	9.2	10.6	11.1	11.9	13.1	11.4	11.1	11.1	11.1	10.0
12	8.9	8.9	9.4	10.6	11.1	11.1	12.8	11.1	10.6	10.3	11.7	9.4
13	8.6	8.9	9.4	10.6	11.1	11.7	11.9	11.1	10.8	10.8	11.9	10.0
14	8.1	6.1	10.0	10.6	10.3	11.9	11.1	10.8	11.1	10.8	11.1	10.0
15	7.5	8.9	10.0	10.6	11.7	11.4	11.7	10.8	10.8	10.0	11.1	10.0
16	7.8	8.9	9.7	10.6	11.1	11.4	11.7	10.8	11.1	10.0	11.1	8.3
17	7.8	8.9	9.4	10.6	11.1	12.2	14.4	11.7	11.4	10.0	10.3	8.9
18	8.1	6.1	9.4	10.6	11.1	10.8	11.9	12.2	11.1	10.6	10.0	8.9
19	8.1	8.9	9.4	10.6	11.1	11.1	10.8	12.2	12.8	10.3	10.0	8.9
20	7.8	9.4	9.7	10.6	11.1	11.4	11.7	14.7	15.0	10.6	10.0	8.9
21	7.5	8.9	9.4	11.1	11.4	10.0	12.2			10.0	10.6	8.6
22	7.2	9.4	9.4	11.7	11.1	10.6	12.8	11.7	11.7	10.0	10.3	8.1
23	7.5	8.9	9.4	10.0	11.4	11.7	12.2	15.3	13.3	10.0	10.3	7.8
24	7.5	8.3	9.7	10.0	11.1	12.2	12.5	10.6	11.4	10.0	10.3	8.1
25	7.8	8.3	10.0	10.0	11.1	12.8	13.1	10.8	11.1	10.0	10.6	8.1
26	7.8	8.3	12.2	10.6	10.6	10.6	13.3	10.6	10.6	9.4	10.3	7.8
27	7.8	8.3	11.1	10.6	10.8	11.9	13.3	15.0	12.2	9.7	9.7	7.8
28	8.3	8.1	9.7	10.6	10.8	11.9	12.8	10.8	11.7	9.4	10.0	7.8
29	8.3	9.4	9.4	11.7	11.1	13.3	15.0	10.8	11.7	10.3	9.4	8.1
30	8.3	9.4	9.4	10.3	10.6	11.7	12.8	15.0	11.1	9.7	9.4	8.1
31	8.1	9.4	9.4	10.3	10.6	11.7	11.9	15.6	11.1	10.0	10.0	7.5
1-10 MEANS	8.31	8.12	8.85	9.82	10.52	12.18	12.40	13.80	11.61	11.10	10.16	9.77
SAMPLE SIZE	10	10	6	10	6	9	10	9	10	7	9	9
11-20 MEANS	8.16	8.39	9.50	10.60	11.07	11.50	12.29	12.22	11.58	10.48	10.83	9.16
SAMPLE SIZE	10	10	7	8	8	9	9	6	10	10	10	8
21-31 MEANS	7.83	8.56	9.69	10.70	10.99	11.70	12.90	13.30	11.64	9.89	10.07	7.97
SAMPLE SIZE	11	8	10	10	11	10	11	7	9	11	9	10
MONTHLY MEANS	8.09	8.34	9.42	10.35	10.90	11.79	12.55	13.21	11.61	10.40	10.37	8.92
SAMPLE SIZE	31	28	26	27	25	28	30	22	29	28	28	27
MAXIMUM VALUE	9.4	9.4	11.1	12.2	11.7	14.4	15.0	15.6	15.0	13.3	11.9	10.0
MINIMUM VALUE	7.2	6.1	7.2	9.4	9.4	10.0	10.8	10.6	10.0	9.4	9.4	7.5
RANGE	2.2	3.3	3.9	2.8	2.3	4.4	4.2	5.0	5.0	3.9	2.5	2.5
STANDARD DEV.	0.54	0.88	0.63	0.73	0.50	0.94	0.82	1.69	1.13	0.74	0.65	0.87
ANNUAL MIN	6.1					10.50						15.6
ANNUAL MEAN												
ANNUAL MAX												

CHARLESTON, OR.

TEMPERATURE

YEAR 1987

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		10.3	10.1	11.1	10.2	12.8	12.0	14.7	12.0	11.9	11.8	11.9
2		10.5	10.1	11.0	10.4	13.2	12.5	12.9	11.9	11.8	11.9	12.1
3		10.4	10.3	10.8	10.9	13.1		10.5	11.9			
4	11.1	10.6	10.4	11.1	11.2	13.2		10.2	11.7	11.7	11.9	11.9
5	10.8	10.5	10.3	11.1	11.1	13.9	12.2	10.7	10.6	11.5	11.8	12.0
6	10.6		10.3	11.3	11.1	12.8	12.0	11.0	11.1	10.9	11.6	11.8
7	10.4			11.0	11.0	11.7	12.2	10.2	11.4	10.1	11.9	11.8
8		10.5		11.5	11.2	11.1	14.2	10.2	11.1	11.0	11.8	12.1
9	10.6	10.6	10.5	11.8	12.3	11.2	13.3	9.7		11.3	12.4	
10	10.6	10.8	10.4	11.6	12.3	11.3	12.3	11.0	11.1	11.4	12.1	12.1
11	10.9	10.8	10.3	11.5	13.0	11.3	12.3	10.9	11.2	11.4	11.6	11.9
12	11.2	10.8	10.5	11.9	12.6	11.5	11.2	10.6	11.1	11.7	11.5	11.7
13	10.8	11.0	10.3	11.2	12.4		9.8	10.9	11.1	11.7	12.2	11.5
14	10.5		10.3	11.6	13.0	10.2	10.4	11.0	11.0	11.5	11.8	10.7
15	10.5	10.7	10.6	11.7	13.0	10.6	10.3	11.4	12.2	10.7	11.8	10.7
16			11.1	11.7		10.5	10.4	10.5	12.5	10.4	12.1	10.7
17		10.8	11.2	11.6		12.3	9.8	11.4	12.3	12.2	12.2	10.7
18	10.8	10.9	11.0	11.7		12.3	10.2	11.2	11.6	10.7	12.4	11.3
19	10.7	10.9	11.9	11.9		12.2	10.2	10.2	11.4	10.2	12.3	11.2
20	10.5	10.9	10.8	11.9		10.1	10.5	10.0	11.8	10.4	12.4	11.2
21	10.6	10.9	10.9			11.0	11.0	10.1	11.2	10.0		11.1
22	10.4	9.8	10.4	9.8		12.2	11.4	9.9	10.9	10.1	12.7	10.9
23	10.4	9.7	10.5	9.6	9.9	12.4	12.4	10.0	10.8	10.0	12.3	10.5
24						11.4	11.9	10.4	11.4	10.0	12.5	
25	10.6	10.0		10.1	10.0	11.4	12.1	10.2	11.4	10.0	12.3	
26	10.7	9.7	10.4	10.1	10.0	11.0	13.3	10.1	11.0	11.0	12.1	10.4
27	10.7	9.7	10.6	10.6	10.1	14.7	14.7	10.1	11.8	10.9	12.1	10.4
28	10.5	9.8		10.0	11.7	15.2	15.2	11.4	11.0	10.6	12.0	10.5
29	10.5		10.6	10.4		11.1	15.0	11.4	11.0	10.8	11.5	10.1
30			10.7	10.9	11.6	11.4	15.5	10.5	10.6	11.7	11.7	10.2
31	10.5		11.2		11.6	11.4	15.9	11.4	10.6	10.6	11.7	10.2
1-10 MEANS	10.68	10.52	10.30	11.27	11.02	12.43	12.45	11.12	11.46	11.27	11.94	11.94
SAMPLE SIZE	6	8	8	8	8	10	8	9	8	8	9	8
11-20 MEANS	10.74	10.85	10.80	11.64	12.75	11.22	10.54	10.82	11.62	10.91	12.06	11.31
SAMPLE SIZE	8	8	10	9	4	9	9	10	10	9	9	9
21-31 MEANS	10.54	9.94	10.66	10.20	10.66	11.58	13.49	10.50	11.06	10.40	12.14	10.49
SAMPLE SIZE	9	7	9	7	5	6	11	11	8	10	8	8
MONTHLY MEANS	10.65	10.46	10.60	11.10	11.32	11.79	12.25	10.79	11.40	10.83	12.04	11.25
SAMPLE SIZE	23	23	27	24	17	25	28	30	26	27	26	25
MAXIMUM VALUE	11.2	11.0	11.9	11.9	13.0	13.9	15.9	14.7	12.5	11.9	12.7	12.1
MINIMUM VALUE	10.4	9.7	10.1	9.6	9.9	10.1	9.8	9.7	10.6	10.0	11.5	10.1
RANGE	0.8	1.3	1.8	2.3	3.1	3.8	6.1	5.0	1.9	1.9	1.2	2.0
STANDARD DEV.	0.21	0.45	0.40	0.69	1.04	1.01	1.79	1.00	0.53	0.62	0.33	0.70
ANNUAL MIN						11.21						
ANNUAL MEAN												
ANNUAL MAX		9.6									15.9	

YEAR 1987

TEMPERATURE

CRESCENT CITY

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12.1	11.2	9.4		13.5	12.8	17.1	12.8	17.1	13.8	13.8	11.7
2		12.1	10.5	12.8	12.9	12.7	14.7	14.8	16.7	14.3	15.3	12.6
3	11.9	12.7	11.0	12.8	12.7	14.4	14.6	15.7	16.0	14.0	13.7	12.8
4	12.2	11.8	11.8	14.9	14.3	14.8						
5	12.1	12.7	11.2	11.8	14.4		16.6	16.7	15.8	14.3	13.3	12.3
6		12.1	12.7	12.7		13.8	15.1		15.8	14.3	12.8	11.8
7	12.1	12.1	12.7	12.8	18.6	15.4	15.1	14.0	14.4	15.4	12.7	11.0
8	11.6	12.6	12.2	13.6	16.2	15.3	14.7	15.6	14.3	15.3	13.1	11.1
9	12.7	12.7	12.2	13.8	13.8	13.8	14.1	14.1	13.9	14.9	12.8	12.3
10	12.1	12.8	11.8	14.3	17.2	16.8	12.1	15.9	13.9	13.9	12.2	12.2
11		13.3	11.8	14.2	17.1	13.9	13.8	15.6	14.4		13.2	
12	12.0	12.5	12.0	14.2	15.0	12.9	13.9	15.6	14.9	14.8	13.3	11.7
13		11.9	12.1	13.8	13.6	13.4	15.6		15.1	14.4	13.4	
14	11.5	11.6	12.7	12.9	12.3	12.9	13.6	13.4	14.9	14.4	12.7	10.6
15		11.7	12.2	12.2	12.1	14.1	15.9		14.3	13.9	13.6	11.0
16	11.6	12.2	11.9	11.9	12.0	14.1	12.3	12.9	12.9			11.0
17	11.6	12.2	12.3	11.8	12.1	13.8	16.7	15.1	14.0	14.0	13.4	11.1
18	11.9	12.7	11.1	12.9	11.5	14.3	14.0	15.4	13.9	13.7	12.9	10.6
19	11.2	12.6	10.7	12.9	11.5	15.7	13.9	14.4	12.9	13.8	12.8	10.5
20	10.7	12.2	10.7	14.0	13.2	13.2	15.1	15.1	14.3	13.1	12.7	10.6
21		9.9	12.1	13.3	12.9	15.6	16.6	16.6	14.3	14.3	12.7	10.2
22	11.0	9.7	13.3	12.1	11.2	15.7	14.3	15.0	12.8	14.6	12.6	10.0
23	11.2	10.0	12.7	14.3	11.2	14.0	15.1	12.8	12.7	14.2	11.8	9.2
24	11.8	10.1	13.9	13.9	12.1	16.7	16.7	15.0	13.2	13.9	12.1	9.8
25	11.0	9.7	11.8	14.2	12.9	16.2	14.9	15.0	13.2	14.2	11.6	9.2
26	10.8	9.7	11.6	14.2	12.9	16.1	16.7	16.7	13.2	14.2	12.1	9.8
27	11.2	12.7	12.7		13.0		15.7	16.9				
28		12.2										
29		11.4										
30		12.7										
31		12.7										
1-10 MEANS	12.01	12.25	11.49	13.06	14.97	14.17	14.96	14.95	15.46	14.46	13.11	11.95
SAMPLE SIZE	7	8	8	7	8	7	8	8	7	8	7	8
11-20 MEANS	11.78	12.39	12.03	13.00	13.37	14.01	14.33	14.88	14.34	14.23	13.27	11.23
SAMPLE SIZE	5	7	7	7	7	8	6	6	7	6	6	7
21-31 MEANS	11.11	10.60	11.95	13.53	12.43	15.10	14.94	15.60	13.18	13.94	12.40	10.01
SAMPLE SIZE	8	7	8	7	7	7	7	8	5	7	8	8
MONTHLY MEANS	11.59	11.77	11.81	13.20	13.65	14.41	14.78	15.17	14.45	14.22	12.89	11.06
SAMPLE SIZE	20	22	23	21	22	22	21	22	19	21	21	23
MAXIMUM VALUE	12.2	13.3	13.3	14.9	18.6	16.8	17.1	16.9	17.1	15.4	13.8	12.8
MINIMUM VALUE	10.7	9.7	9.4	11.8	11.2	12.7	12.1	12.8	12.7	13.1	11.6	9.2
RANGE	1.5	3.6	3.9	3.1	7.4	4.1	5.0	4.1	4.4	2.3	2.2	3.6
STANDARD DEV.	0.49	1.15	0.94	0.95	2.02	1.26	1.37	1.09	1.29	0.55	0.56	1.01
ANNUAL MIN	9.2			ANNUAL MEAN	13.25			ANNUAL MAX	18.6			

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		12.0	9.4	12.5	12.2	11.8	12.1		14.5	11.2	13.5	12.2
2		12.5	10.0	12.0	12.1	12.5	12.4		14.2	12.1	13.3	12.8
3		12.3	9.8	12.2	12.6	11.1	12.1	11.8	13.1	12.0	12.8	14.0
4		12.8	10.0	11.9	12.5	11.2	12.9	11.6	12.1	12.3	12.9	13.9
5		13.2	10.6	11.0	14.2	12.9		12.1	12.3	12.1	13.1	13.1
6		13.5	11.8	12.8	13.8		11.3	11.2	12.5	12.8	13.2	12.8
7		12.5	11.0	12.5	14.6		11.8	11.0	12.9	12.8	13.0	13.0
8		11.7	11.0	13.0		12.6	11.3		12.2	12.2	12.9	13.0
9		12.1		12.3	13.5	11.5	11.0	12.0	12.2	12.8	12.9	13.0
10		12.0		11.5	13.0	11.0	11.0	12.4	13.0	12.8	13.0	13.5
11		12.3	12.2	11.0	13.6	11.5	12.4	12.4	13.0	12.4	12.8	12.8
12		12.0		10.5	9.8	9.8		11.6	12.9	12.9	13.1	12.5
13		12.4		11.5	13.7		12.8	11.3	12.6	12.2	13.6	12.0
14	12.5	11.8	11.5	11.2	13.4		12.8	11.6	14.0	12.0	13.3	
15		11.7	11.3	12.1		10.4	12.0		13.0	12.4		
16		12.0	12.1	12.1	10.9	11.0	12.2	11.0	11.9	12.7	13.2	
17		12.5	11.0	10.6	11.0	10.5	10.6	11.0	11.6	12.9	13.4	
18		12.2	11.8	10.2	10.8	10.9	10.9	11.4	11.9	13.0	13.0	
19		12.3	12.1	10.6	10.0	10.4		11.8	11.8	13.2	13.5	11.1
20	11.8	12.2	10.7	10.7	10.0		11.4	12.0	12.2	12.8		
21		12.0	11.0	10.2	10.0		12.5	13.0	12.2	12.8	13.3	11.9
22	11.5	10.7	12.2	10.3	10.5	11.0	13.0		13.0	13.1		
23	11.7	9.9	12.2			10.8	13.1	12.9	13.0	12.8	13.0	
24	11.0	9.3	11.8	11.7		10.9	13.8	12.0	12.0	13.0	12.5	
25	11.6	9.2	12.5	10.0		10.3		11.9	12.0	13.1	11.9	
26	12.9	10.0	11.5	11.0		12.0		11.9	12.0	13.3		
27	12.2		12.3		9.8			12.0	11.8	13.5		
28	12.3	9.5	10.4	12.6	10.7		13.0	13.0	12.1	13.4		
29	12.0		10.6	12.8	10.7	12.8	12.7	13.0	11.8	13.7	12.1	10.1
30	12.2		13.5	12.1		12.5	12.7	13.9	11.5	12.7	12.1	
31	12.1		13.5			12.2	12.2	15.0	11.5	13.6		
1-10 MEANS		12.46	10.45	12.17	13.17	11.82	11.62	11.62	13.03	12.10	12.94	13.15
SAMPLE SIZE		10	8	10	9	8	8	6	7	10	10	10
11-20 MEANS		12.14	11.59	11.05	11.67	10.64	11.97	11.61	12.49	12.62	13.24	12.10
SAMPLE SIZE		2	8	10	8	7	6	7	10	9	8	4
21-31 MEANS		11.95	10.09	11.95	11.34	10.34	11.47	12.87	12.05	13.28	12.65	11.00
SAMPLE SIZE		10	7	11	8	5	7	8	8	11	6	2
MONTHLY MEANS		11.98	11.73	11.40	11.53	11.98	11.34	12.17	12.04	12.50	12.69	12.97
SAMPLE SIZE		12	27	27	28	22	22	22	20	25	30	24
MAXIMUM VALUE		12.9	13.5	13.5	13.0	14.6	12.9	13.8	15.0	14.5	13.9	13.6
MINIMUM VALUE		11.0	9.2	9.4	10.0	9.8	9.8	10.6	11.0	11.5	11.2	11.9
RANGE		1.9	4.3	4.1	3.0	4.8	3.1	3.2	4.0	3.0	2.7	1.7
STANDARD DEV.		0.50	1.16	1.04	0.92	1.58	0.89	0.81	0.92	0.81	0.66	0.45
ANNUAL MIN			9.2	ANNUAL MEAN		12.08		ANNUAL MAX		15.0		

SALINITY

TRINIDAD BEACH

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	31.10	33.31	32.99	32.83	33.70	33.75	33.52	33.61	33.09	33.01		
2	31.45	32.45	32.85	32.85	33.80	33.72	33.53	33.92	33.18	32.14		
3	30.10	33.22	32.19	32.74	33.72	33.75	33.86	33.98	33.28	32.06		
4	28.61	31.85	32.11	33.04	33.73		33.63	33.54	33.31	29.31		
5	29.85	31.68	32.69	32.93	33.87		33.57	33.66	33.33	29.55		
6	30.74	33.38	32.39	32.87		33.81	34.03	33.28	33.28	30.08		
7	30.31	33.29	32.49	32.91		33.88	33.59	33.64	33.25	28.59		
8	30.40	33.23	32.51	32.73		33.66	33.80	33.74	33.23	30.51		
9	31.42		32.79	32.79	33.70	33.80	33.47	33.53	33.61	33.21	30.07	
10	31.33		32.79	32.78	33.70	33.94	33.40	33.65	33.58	33.20	29.82	
11	31.81		32.53	32.96	33.63		33.60	33.75	33.60	33.29	31.96	
12	31.34		33.15		34.07		33.60	33.82	33.21	33.21	32.52	
13	31.60		33.10	32.89		33.80	33.55	33.62	33.55	33.10	32.76	
14	30.47	34.18	33.10	33.03	33.87	33.87	33.60	33.84	33.51	33.11		
15	30.03	33.19	33.00	33.00	33.77	33.86	33.60	33.60	33.76			
16	29.64	31.10	33.05	33.52	33.74	33.77	33.66	33.66	33.48	33.16		
17	29.64	29.04	33.21	33.37	33.91	33.78	33.65	33.91	33.46	33.19		
18	31.68	31.60	33.17	33.56	33.73		34.19	33.65	33.55	33.07		
19	32.43	31.56	33.47	33.83	33.80		33.88	34.07	33.54	33.03	32.89	
20	32.60	31.93	33.55	33.80	33.80		34.17	34.07	33.43	33.04	32.86	
21	32.86	30.37	33.62	33.85	33.72		33.66	33.78	33.36			
22	32.61	32.76	30.37	33.71	33.79	33.83	33.68	33.78	33.35	33.22		
23	32.61	33.31	30.41	33.75	33.75	33.53	33.78	33.54	33.80	33.14		
24	32.61	33.51	32.08	33.39	33.75	33.56	33.58	33.55	33.39	33.18		
25	32.89	33.77	32.40	33.25	33.80		33.59	33.59	33.29	33.22		
26	31.50	33.75	32.69	33.31	33.74		33.68	33.61	33.31			
27	30.56	33.25		33.79			33.68	33.69	33.27			
28	31.13	33.60	33.19	33.00	33.77	33.54	33.61	33.69	33.25			
29	30.74			33.17	33.80	33.70	33.52	33.61	33.24	33.17	32.81	
30	31.30			33.07		33.73	33.58	33.60	33.60	33.22	33.17	32.81
31	31.35			32.21		33.61	33.61	33.57	33.60	33.19		
1-10 MEANS	30.53	32.94	32.53	32.86	33.73	33.81	33.69	33.62	33.62	33.67	33.24	30.21
SAMPLE SIZE	10	8	10	9	8	8	6	7	7	10	10	10
11-20 MEANS	32.61	31.10	31.72	33.13	33.37	33.81	33.83	33.77	33.74	33.54	33.14	32.53
SAMPLE SIZE	2	10	8	10	8	7	6	7	10	9	8	4
21-31 MEANS	31.73	33.38	32.08	33.35	33.80	33.76	33.59	33.64	33.62	33.33	33.16	32.83
SAMPLE SIZE	10	7	9	8	5	7	8	7	8	11	6	2
MONTHLY MEANS	31.88	31.48	32.24	32.98	33.26	33.76	33.73	33.70	33.67	33.51	33.19	31.12
SAMPLE SIZE	12	27	25	28	22	22	22	20	25	30	24	16
MAXIMUM VALUE	32.92	33.77	34.18	33.71	33.85	34.07	33.94	34.19	34.07	33.92	33.33	33.01
MINIMUM VALUE	30.56	28.61	29.04	32.11	32.74	33.63	33.52	33.40	33.52	33.19	33.03	28.59
RANGE	2.36	5.16	5.14	1.60	1.11	0.44	0.42	0.79	0.55	0.73	0.30	4.42
STANDARD DEV.	0.87	1.45	1.21	0.44	0.44	0.10	0.12	0.21	0.15	0.19	0.08	1.63
ANNUAL MIN	28.59			ANNUAL MEAN		32.88		ANNUAL MAX		34.19		

TRINIDAD BAY

TEMPERATURE

YEAR 1987

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		12.0	8.8	12.3	12.6	11.8	12.0		15.0	11.9	13.8	12.0
2		12.5	10.5	12.0	12.9	12.5	12.5		14.7	12.4	13.4	12.5
3		12.9	10.3	12.0	12.0	12.2	11.6	11.9	13.5	11.9	13.0	13.9
4		12.6	10.0	11.9	11.4	11.0		13.2	13.5	12.5	12.7	13.8
5		12.9	10.4	10.8	11.8	13.0		13.1	12.4	13.4	12.4	12.9
6		13.0	11.7	12.7	13.0		10.9	12.1	12.2	12.2	12.7	13.0
7		12.8	10.9	12.2	14.3		11.0	11.6			13.1	12.8
8		11.6	10.8	13.0		12.2	10.0		12.8	13.0	13.2	12.6
9		12.0		11.8	13.5	11.2	9.9		12.6	12.2	13.0	13.0
10		11.9		11.8	13.5	11.2	10.0	12.1	12.6	13.0	13.5	13.5
11		12.5	11.3	11.4	12.2	11.0		12.5	13.0	12.4	12.8	12.9
12		12.0		10.6		10.5		11.5	13.0	13.0	13.2	12.0
13		12.2		11.3	13.0		13.2	11.9	13.4	12.5	13.2	11.9
14	12.3	11.8	11.0	10.8	11.8		13.8	11.0	14.0	12.0	12.8	
15		11.4	11.2	11.1		10.6	12.9	11.0	13.3	12.0		
16		12.0	11.8	11.0	10.3	10.8	11.8		13.3	12.3	13.2	
17		11.9	10.8	10.1	9.8	10.1	10.2	10.9	11.8	12.3	13.7	
18		11.9	11.5	9.8	10.0	10.8		12.2	11.3	12.7	13.0	
19	11.2	12.0	11.5	9.4	9.5	10.9		12.0	11.6	13.0	13.3	10.8
20		11.8	10.6	9.2	10.0		11.3	12.0	12.1	12.8		
21	11.0	11.0	10.5	10.0	9.3		12.6	12.1	12.1	12.7	13.1	11.0
22	11.3	9.2	11.8	10.7	10.0	11.1	13.5	12.1	12.1	13.0	12.9	
23	11.3	8.9	11.8			10.8	13.2			12.9	12.9	
24	11.4	8.0	11.6	10.6		10.4	13.7	13.0	12.8	13.5	12.6	
25	12.4	7.8	11.2	10.2		11.2		12.1	12.2	13.4	12.6	
26	12.0	8.6	11.2	11.2		11.9		12.1	11.2	14.3	12.0	
27	12.2		11.4		9.0			12.1	11.3	14.0		
28	11.9	8.7	10.5	12.7	9.4		12.9	13.0	12.1	13.8		
29	12.1		10.8	12.6	9.8	14.1	12.6		12.2	14.1		
30	12.0		12.4	12.1		12.7	12.0	15.0	11.9	14.1	12.0	9.6
31			12.0				11.0			14.0		
1-10 MEANS		12.42	10.42	12.05	12.78	11.90	10.99	12.33	13.53	12.48	13.08	13.00
SAMPLE SIZE		10	8	10	9	8	8	6	7	10	10	10
11-20 MEANS		11.75	11.95	11.21	10.47	10.67	12.20	11.71	12.53	12.46	13.22	11.90
SAMPLE SIZE		2	10	8	10	7	6	7	10	9	8	4
21-31 MEANS		11.76	8.89	11.38	11.26	11.74	12.69	12.77	11.97	13.62	12.58	10.30
SAMPLE SIZE		10	7	11	8	5	8	7	8	11	6	2
MONTHLY MEANS		11.76	11.33	11.05	11.26	11.46	11.94	12.27	12.63	12.89	13.00	12.39
SAMPLE SIZE		12	27	27	28	22	22	20	25	30	24	16
MAXIMUM VALUE	12.4	13.0	12.4	13.0	14.3	14.1	13.8	15.0	15.0	14.3	13.8	13.9
MINIMUM VALUE	11.0	7.8	8.8	9.2	9.0	10.1	9.9	10.9	11.2	11.9	12.0	9.6
RANGE	1.4	5.2	3.6	3.8	5.3	4.0	3.9	4.1	3.8	2.4	1.8	4.3
STANDARD DEV.	0.49	1.61	0.74	1.04	1.65	0.98	1.26	0.89	1.01	0.73	0.48	1.15
ANNUAL MIN						11.94						
ANNUAL MEAN												
ANNUAL MAX												15.0

BODEGA BAY

SALINITY

YEAR 1987

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				33.11	33.79	33.94						
2		32.86	33.20	32.95		33.93	33.92		33.57		33.43	
3		32.89	33.04	32.71				33.93	33.82		33.65	
4			33.02					34.64U	33.47			
5	33.03	32.87			33.56	33.99		33.95		33.46	33.35	
6	33.04	32.92	33.09	33.65	33.69		33.90	33.51		33.59	33.36	
7	33.08									33.54	33.50	
8	33.12	32.81	33.23	33.74		33.90	33.92	33.74	33.48	33.50	33.36	
9						33.93	33.97	33.82	33.51		33.25	
10		32.66	32.93		33.85	33.91				33.46	33.14	
11	33.05		32.90					33.64				
12				33.82	33.81	33.85	33.85	33.70	33.52	33.45		
13	33.21				33.75	34.17			33.53			
14	32.95			33.82					33.57		33.41	
15	32.96		32.99	33.98				33.51	33.54		33.34	
16								33.64	33.46		33.33	
17	33.40							33.61		33.44	33.41	
18			33.69		33.73	34.56U				33.38	33.05	
19			33.57			33.88				33.78		
20					33.93			33.60		33.29		
21	33.34				33.67	33.93				33.50	33.44	
22	32.88									33.23	33.44	
23	33.14				33.56	33.98						
24		33.47	33.44	34.12				33.61				
25		33.61	33.68						33.51			
26									33.82			
27	33.59				33.56	33.97				33.27		
28	33.20				33.87			33.59	34.48U			
29				33.82	33.98			33.83	33.66	33.18		
30									33.47			
31				33.57		33.82	33.86					
1-10 MEANS	33.07	32.87	33.12	33.23	33.68	33.98	33.93	33.78	33.58	33.52	33.43	
SAMPLE SIZE	4	5	5	5	3	6	4	4	4	5	5	
11-20 MEANS	33.04	33.03	33.22	33.90	33.78	33.91	34.01	33.65	33.52	33.43	33.28	
SAMPLE SIZE	4	2	5	4	4	1	2	6	6	4	7	
21-31 MEANS	33.09	33.47	33.56	33.89	33.75	33.92	33.87	33.66	33.58	33.35	33.44	
SAMPLE SIZE	4	4	2	5	6	4	4	4	6	5	1	
MONTHLY MEANS	33.07	33.12	33.23	33.66	33.75	33.95	33.92	33.69	33.56	33.43	33.35	
SAMPLE SIZE	12	11	12	14	13	11	10	14	16	14	13	
MAXIMUM VALUE	33.34	33.61	33.69	34.12	33.98	34.17	34.17	33.95	33.82	33.78	33.65	
MINIMUM VALUE	32.88	32.66	32.90	32.71	33.56	33.82	33.84	33.51	33.46	33.18	33.05	
RANGE	0.46	0.95	0.79	1.41	0.42	0.35	0.33	0.44	0.36	0.60	0.60	
STANDARD DEV.	0.12	0.35	0.29	0.43	0.13	0.09	0.09	0.14	0.11	0.16	0.15	

ANNUAL MIN

ANNUAL MEAN

ANNUAL MAX

FARALLON

SALINITY

YEAR 1987

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.24	33.35	33.49	33.27	33.82	33.79	33.55	33.80	33.40	33.41	33.29	33.40
2	33.58	33.37	33.73	33.42	33.42	33.80	33.59	33.66	33.58	33.38	33.61	
3	33.59	33.35	33.23	33.44	33.79	33.79	34.03	33.47	33.42	33.36	33.32	
4	33.34	33.35	33.30	33.72	33.67	33.76	33.60	33.69	33.46	33.67	33.32	
5	33.38	33.43	33.34	33.55	33.78	33.78	33.57	33.80	33.74	33.74	33.60	
6	33.38	33.33	33.27	33.22	33.52	33.80	34.17	33.69	33.37	33.31	33.31	
7	33.59	33.33	33.40	33.30	33.65	33.79	33.70	33.61	33.33	33.34	33.31	
8	33.19	33.33	33.36	33.84	33.43	33.79	33.80	33.61	33.72	33.37	33.31	
9	33.94	33.32	33.29	33.44	33.67	33.78	33.84	33.48	33.37	33.36	33.37	33.29
10	33.37	33.42	33.36	33.40	33.69	33.78	33.83	33.43	33.31	33.50	33.48	
11	33.38	33.45	33.45	33.56	33.58	33.78	33.83	33.43	33.37	33.37	33.33	33.40
12	33.36	33.41	33.36	33.70	33.51	33.77	33.81	33.51	33.66	33.31	33.31	33.42
13	33.41	33.28	33.53	33.66	33.52	33.76	33.78	33.65	33.36	33.33	33.33	33.34
14	33.35	33.38	33.38	33.48	33.52	33.62	33.67	33.48	33.42	33.55	33.41	33.39
15	33.40	33.22	33.35	33.47	33.59	33.65	33.47	33.67	33.44	33.43	33.36	
16	33.39	33.54	33.17	33.66	33.69	33.50	33.39	33.48	33.39	33.45	33.39	
17	33.35	33.26	33.14	33.68	33.69	33.62	33.75	33.50	33.42	33.47	33.32	
18	33.34	33.07	33.26	33.69	33.60	33.72	33.68	33.58	33.52	33.44	33.33	33.53
19	33.82	33.22	33.24	33.70	33.63	33.72	33.69	33.66	33.35	33.44	33.33	33.40
20	33.33	33.25	33.78	33.69	33.57	33.72	33.69	33.47	33.34	33.63	33.30	33.43
21	33.68	33.25	33.76	33.66	33.63	33.57	33.57	33.84	33.33	33.38	33.36	33.40
22	33.28	33.17	33.76	33.61	33.67	34.01	33.46	33.55	33.49	33.36	33.39	33.40
23	34.11	33.41	33.50	33.53	33.68	33.91	33.46	33.50	33.35	33.32	33.37	33.42
24	33.42	33.46	33.53	33.44	33.64	33.77	33.47	33.98	33.31	33.31	33.38	33.44
25	33.30	33.72	33.44	33.54	33.62	33.77	33.47	33.60	33.41	33.32	33.41	33.40
26	33.44	33.49	33.48	33.54	33.62	33.76	33.66	33.36	33.46	33.33	33.36	33.33
27	33.32	33.54	33.42	33.56	33.70	33.71	33.55	33.60	33.73	33.33	33.92	
28	33.46	33.32	33.32	33.56	33.95	33.47	33.60	33.45	33.38	33.30	33.36	33.36
29	33.35	33.40	33.54	33.82	33.82	33.60	33.59	33.49	33.54	33.31	33.37	33.42
30	33.37	33.58	33.37	33.58	33.75	33.53	33.67	33.64	33.39	33.38	33.31	33.38
31	33.37	33.29	33.29	33.96	33.96	33.53	33.74	33.44	33.39	33.28	33.38	33.38
1-10 MEANS	33.47	33.36	33.36	33.41	33.57	33.78	33.77	33.62	33.44	33.44	33.39	33.33
SAMPLE SIZE	9	9	6	9	10	10	10	10	9	10	10	3
11-20 MEANS	33.41	33.30	33.34	33.63	33.58	33.68	33.68	33.54	33.40	33.49	33.34	33.41
SAMPLE SIZE	10	9	10	10	10	9	10	10	9	8	10	6
21-31 MEANS	33.47	33.46	33.46	33.56	33.73	33.71	33.58	33.59	33.44	33.33	33.44	33.40
SAMPLE SIZE	10	6	11	10	11	10	8	11	10	10	9	10
MONTHLY MEANS	33.45	33.36	33.39	33.54	33.63	33.73	33.68	33.58	33.43	33.42	33.39	33.39
SAMPLE SIZE	29	24	27	29	31	29	28	31	28	28	29	19
MAXIMUM VALUE	34.11	33.72	33.76	33.84	33.96	34.01	34.17	33.98	33.73	33.74	33.92	33.53
MINIMUM VALUE	33.24	33.07	33.14	33.22	33.42	33.47	33.39	33.36	33.31	33.28	33.29	33.29
RANGE	0.87	0.65	0.62	0.62	0.54	0.54	0.78	0.62	0.42	0.46	0.63	0.24
STANDARD DEV.	0.20	0.13	0.13	0.16	0.13	0.11	0.17	0.14	0.11	0.12	0.13	0.05
ANNUAL MIN						33.50						34.17
ANNUAL MEAN												ANNUAL MAX
ANNUAL MAX	33.07											34.17

SANTA CRUZ

TEMPERATURE

YEAR 1987

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.9	12.3	12.3	13.5	13.3	14.5	14.3	15.3	16.7	16.4	16.2	13.5
2	14.0	12.5	12.3	13.5	14.1	14.5	14.1	15.3	16.7	16.4	15.7	13.7
3	14.0	12.5	12.5	12.9	14.0	14.5	15.3	14.5	17.5	16.3	15.3	13.7
4	13.0	12.5	12.7	13.8	14.1	14.3	14.3	14.7	16.7	16.7	15.3	13.7
5	13.5	12.8	12.8	13.8	14.1	13.5	15.1	15.1	17.5	16.7	15.3	13.3
6	13.1	12.5	12.9	13.5	14.5	15.0	16.5	16.5	17.0	14.9	15.3	13.0
7	13.1	12.7	12.5	13.5	14.7	15.7	16.1	14.5	17.3	15.3	15.3	13.7
8	12.7	12.7		14.0	14.5	17.1	16.8	16.8		14.3		13.7
9	13.1	12.7	13.1	14.9	16.5	15.3	16.9	15.7	17.3		15.0	13.9
10	12.9	13.1	13.5	14.3	16.5	15.3	16.9	15.3	16.3	14.0	15.5	14.1
11	13.2	13.1	13.5	14.2	15.4	13.9	15.5	13.9	16.3	15.0	15.5	13.6
12	12.7	13.3	13.5			14.9	16.9	16.1	16.1	15.3	15.0	12.2
13	12.5	13.9	13.9	13.3	14.9	14.1	16.1	16.3	16.1	15.3	14.0	12.5
14	13.5	13.7	13.5	13.5	14.9	13.4	14.1	17.3	14.9		15.0	12.1
15	13.8	13.5	13.7	13.5	13.9	13.1	14.3	16.3	16.5	15.3	14.3	12.1
16	13.5	13.1	12.7	12.7	12.7	13.5	14.3	16.5	16.3	14.7	14.7	12.5
17	11.6	13.1	13.1	12.1	12.1	12.7	13.3	16.1	15.7	15.3	14.5	12.3
18	11.6	13.1	13.3	11.3	13.3	13.3	13.3	16.1	16.9	16.1	14.5	12.3
19	11.5	12.3	13.1	11.2	14.1	14.1	14.3	16.1	16.5	16.1	14.5	12.3
20	11.3	12.9	12.9	11.7	14.1	16.1	14.1	15.3	16.5	15.3	14.3	12.3
21	11.5		12.0	12.1	12.1	16.1	14.1	15.3	16.1	15.3	14.3	12.1
22	11.7	12.3	12.2	12.7	13.7	14.3	14.3	16.7	16.1	15.3	14.3	12.1
23	12.3	12.7	12.5	13.1	13.5	14.5	15.1	16.7	15.9	15.6	14.3	11.1
24	12.2	11.7	12.3	12.7						15.5		
25	12.2	11.7	12.5	13.4	12.5	14.7	15.5	16.5	16.3			
26	12.5	12.8	12.8	14.4	12.1	12.1	12.1	16.3	16.3			
27	12.5	11.9	13.1	12.1	12.1	14.3	15.2	16.3	16.3		15.0	11.0
28	12.7	12.5	13.9	13.3	12.7	14.4	14.1	17.5	15.5	14.3	14.3	11.3
29	12.5			14.2	14.2	14.3	15.7	18.0	13.5	15.3	13.7	11.1
30	12.7	14.5	14.5	13.7	14.3	14.5	15.7	18.0	15.5	15.3	13.5	11.3
31	12.6	13.1	13.1	14.9	14.9	14.5	15.9	16.3	15.3	15.5	13.5	11.3
1-10 MEANS	13.33	12.60	12.64	13.77	14.57	14.76	15.81	15.36	17.12	15.65	15.47	13.63
SAMPLE SIZE	10	8	8	9	9	8	9	8	6	6	6	10
11-20 MEANS	12.06	13.11	13.41	12.57	14.10	13.43	14.53	16.07	16.15	15.14	14.70	12.67
SAMPLE SIZE	7	9	9	9	7	7	6	8	8	5	7	8
21-31 MEANS	12.31	12.13	12.89	13.29	13.22	14.36	14.78	16.56	15.99	15.44	14.09	11.44
SAMPLE SIZE	10	6	10	9	8	8	9	7	9	5	8	8
MONTHLY MEANS	12.62	12.68	12.99	13.21	13.98	14.22	15.10	16.00	16.34	15.42	14.69	12.66
SAMPLE SIZE	27	23	27	27	24	23	24	23	23	16	21	26
MAXIMUM VALUE	14.0	13.8	14.5	14.9	16.5	16.1	17.1	18.0	17.5	16.7	16.2	14.1
MINIMUM VALUE	11.3	11.7	12.0	11.2	12.1	12.1	13.1	13.9	14.9	14.0	13.3	11.0
RANGE	2.7	2.1	2.5	3.7	4.4	4.0	4.0	4.1	2.6	2.7	2.9	3.1
STANDARD DEV.	0.76	0.55	0.61	0.93	1.08	0.95	1.07	0.98	0.67	0.72	0.74	1.06
ANNUAL MIN	11.0			ANNUAL MEAN		14.16		ANNUAL MAX		18.0		

TEMPERATURE

PACIFIC GROVE

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.6	12.4	12.0	12.1	12.2	12.8	13.8	18.0U	16.5	14.6	15.5	13.2
2	13.9	12.5	12.2	13.0	13.5	14.0	14.8	14.0	16.4	14.2	15.3	13.3
3	13.8	12.5	12.9	13.0	13.2	14.8	19.0U	15.0	16.7	14.7	14.9	13.6
4	13.7	12.3	12.8	14.0	13.2	13.8	16.5	13.9	16.5	15.0	15.0	14.1
5	13.7	12.2	13.0	13.0	14.0	14.8	15.3	13.2	16.6	14.9	14.6	13.9
6	13.3	12.3	13.0	13.0	13.5	14.2	14.8	13.5	16.7	14.1	15.0	13.8
7	13.1	12.3	13.0	13.8	13.9	14.6	15.3	15.0	17.1	14.9	15.1	14.1
8	13.0	12.2	13.0	13.9	13.9	14.2	15.2	15.8	16.0	15.0	15.2	14.8
9	12.9	13.0	13.0	12.3	14.0	14.0	14.5	16.0	16.9	15.0	15.0	14.3
10	12.8	13.8	13.1	12.1	13.8	13.8	14.0	16.0	16.1	15.5	14.9	14.8
11	12.6	13.2	13.0	12.4	13.2	13.2	15.2	16.3	16.0	15.0	14.5	14.0
12	12.7	13.8	13.1	12.5	13.2	12.9	14.0	16.2	16.3	15.0	15.0	12.5
13	13.0	13.8	13.0	12.2	14.0	12.9	14.0	16.0	16.0	15.0	15.3	12.3
14	12.5	13.1	13.0	13.1	14.1	12.9	14.0	16.8	15.5	14.8	14.8	12.0
15	12.0	13.1	12.8	13.0	14.0	13.7	14.1	16.8	15.1	15.0	15.0	12.0
16	11.5	13.0	12.9	11.5	13.0	13.9	14.2	17.0	13.2	14.9	15.0	11.9
17	11.5	13.0	12.9	13.5	12.9	14.0	16.0	17.0	14.1	15.0	15.0	12.1
18	11.3	13.1	13.0	12.6	12.9	13.5	16.0	16.0	14.2	14.9	14.4	12.3
19	11.3	13.0	12.7	11.3	13.0	13.2	14.5	16.2	14.3	14.9	14.0	12.3
20	11.1	13.1	12.7	11.9	13.2	13.1	14.7	16.2	14.6	14.8	14.1	11.0
21	10.9	13.0	13.1	11.9	13.0	12.5	14.2	16.5	14.9	15.2	14.3	13.0
22	11.0	12.8	12.9	12.1	13.0	13.1	15.3	16.3	14.7	15.3	14.1	12.0
23	12.3	12.5	13.0	11.9	15.1	13.1	15.3	16.3	14.5	15.3	14.1	12.1
24	12.3	12.3	12.2	12.2	13.6	13.2	15.5	17.0	14.5	15.5	13.9	12.2
25	12.5	12.1	12.3	13.5	13.8	13.8	15.5	17.6	14.5	15.5	13.9	12.2
26	12.8	12.2	12.4	12.5	13.1	13.3	15.6	16.9	14.4	15.3	14.0	12.0
27	13.0	11.0	12.5	12.3	13.6	13.9	14.0	16.1	14.2	16.0	13.3	11.8
28	12.8	12.0	13.0	12.5	13.6	14.2	14.2	16.0	14.2	15.6	13.5	12.0
29	12.3	14.0	12.8	13.0	13.0	14.5	14.1	16.3	14.0	15.6	13.0	12.0
30	12.3	12.2	12.2	13.0	15.8	14.2	14.2	16.5	14.1	15.5	13.1	12.0
31	12.5	11.5	11.5	14.2	14.2	14.2	14.5	16.1	15.6	15.6	11.2	11.2
1-10 MEANS	13.38	12.55	12.80	13.02	13.52	14.10	14.91	14.71	16.55	14.79	15.05	13.99
SAMPLE SIZE	10	10	10	10	10	10	9	9	10	10	10	10
11-20 MEANS	11.95	13.25	12.94	12.58	13.35	13.31	14.60	16.59	15.12	14.95	14.80	12.32
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10
21-31 MEANS	12.25	12.24	12.65	12.47	13.82	13.58	14.71	16.50	14.41	15.43	13.74	11.94
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	10	11
MONTHLY MEANS	12.52	12.71	12.79	12.69	13.57	13.66	14.73	15.99	15.36	15.07	14.53	12.72
SAMPLE SIZE	31	28	31	30	31	30	30	30	30	31	30	31
MAXIMUM VALUE	13.9	13.8	14.0	14.0	15.8	14.8	16.5	17.6	17.1	16.0	15.5	14.8
MINIMUM VALUE	10.9	11.0	11.5	11.3	12.2	12.5	13.8	13.2	13.2	14.1	13.0	11.0
RANGE	3.0	2.8	2.5	2.7	3.6	2.3	2.7	4.4	3.9	1.9	2.5	3.8
STANDARD DEV.	0.86	0.63	0.45	0.70	0.69	0.63	0.74	1.09	1.13	0.40	0.68	1.05
ANNUAL MIN	10.9			ANNUAL MEAN		13.86		ANNUAL MAX		17.6		

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.49	34.01	33.51	33.58	33.85	34.15	33.55	33.89	33.37	33.55	33.40	33.16
2	33.47	33.66	33.47	33.51	33.74	34.04	33.66	33.87	33.38	33.51	33.48	33.21
3	33.42	33.59	33.48	33.74	33.75	34.09	33.85	33.82	33.36	33.56	33.45	33.15
4	33.83	33.52	33.53	33.46	33.92	33.86	33.85	33.45	33.34	33.61	33.47	33.19
5	33.51	33.62	33.43	33.69	33.98	33.90	33.78	33.49	33.37	33.49	33.51	33.11
6	33.43	33.63	33.51	33.83	34.43U	33.85	33.83	33.53	33.39	33.49	33.44	33.07
7	33.42	33.66	33.45	33.83	33.83	34.01	33.86	33.40	33.43	33.43	33.39	33.23
8	33.45	33.47	33.51	33.94	33.63	33.92	33.42	33.44	33.55	33.44	33.41	33.18
9	33.43	33.46	33.47	33.96	33.57	33.94	33.91	33.92	33.44	33.64	33.45	33.21
10	33.53	33.36	33.57	33.94	33.65	33.96	33.42	33.57	33.47	33.47	33.45	33.19
11	33.53	33.40	33.54	33.96	33.75	33.94	33.77	33.42	33.53	33.53	33.45	33.30
12	33.74	33.53	33.60	34.06	33.76	33.91	33.69	33.46	33.56	33.36	33.45	33.48
13	33.67	33.32	33.85	34.00	33.77	33.87	33.74	33.54	33.31	33.43	33.49	33.61
14	33.72	33.24	33.70	33.90	33.79	33.72	33.75	33.59	33.34	33.41	33.46	33.57
15	33.23	33.43	33.50	33.85	33.77	33.78	33.77	33.42	33.49	33.43	33.43	33.51
16	33.43	33.79	33.79	34.03	33.77	33.72	33.74	33.42	33.55	33.36	33.43	33.52
17	33.59	33.40	33.95	34.07	34.02	34.01	33.77	33.46	33.39	33.39	33.54	33.38
18	33.64	33.52	34.02	33.92	33.75	33.86	33.88	33.46	33.39	33.39	33.54	33.36
19	33.49	33.63	34.18	33.98	33.79	33.87	33.75	33.46	33.34	33.36	33.28	33.34
20	33.51	33.63	33.93	33.82	33.72	33.86	33.83	33.28	33.30	33.30	33.30	33.39
21	33.35	33.78	33.86	33.66	33.75	33.88	33.76	33.70	33.35	33.43	33.24	33.50
22	33.36	33.55	33.81	33.42	33.73	33.89	33.70	33.57	33.34	33.31	33.26	33.35
23	33.36	33.56	33.82	33.56	33.73	33.91	33.82	33.59	33.34	33.34	33.34	33.58
24	33.36	33.75	33.90	33.70	33.74	34.15	33.85	33.57	33.36	33.48	33.33	33.57
25	33.37	33.55	34.03	33.82	33.77	33.77	33.67	33.67	33.58	33.41	33.31	33.52
26	33.34	33.68	33.79	33.99	33.89	33.73	33.82	33.55	33.56	33.48	33.41	33.61
27	33.41	33.53	33.92	33.99	34.06	33.67	33.85	33.68	33.56	33.62	33.52	33.47
28	33.42	33.56	33.89	33.96	33.95	33.73	33.87	33.46	33.46	33.23	33.27	33.42
29	33.97	33.80	33.79	33.80	34.73U	33.75	33.86	33.44	33.49	33.41	33.25	33.36
30	33.42	33.80	33.81	34.17	33.73	33.90	33.90	33.38	33.52	33.33	33.24	33.36
31	33.72	34.34U	34.34U	33.97	33.97	33.92	33.92	33.38	33.52	33.38	33.24	33.39
1-10 MEANS	33.50	33.58	33.49	33.74	33.77	33.97	33.80	33.62	33.42	33.52	33.44	33.17
SAMPLE SIZE	10	10	10	9	9	10	10	10	10	10	10	10
11-20 MEANS	33.61	33.43	33.79	33.96	33.79	33.85	33.77	33.47	33.46	33.40	33.43	33.44
SAMPLE SIZE	8	10	10	10	10	10	10	10	10	10	10	10
21-31 MEANS	33.47	33.62	33.86	33.77	33.88	33.82	33.83	33.56	33.47	33.40	33.30	33.47
SAMPLE SIZE	10	8	10	10	10	10	11	10	10	11	10	11
MONTHLY MEANS	33.52	33.54	33.71	33.83	33.81	33.88	33.80	33.55	33.45	33.44	33.39	33.36
SAMPLE SIZE	28	28	30	29	29	30	31	30	30	31	30	31
MAXIMUM VALUE	33.97	34.01	34.18	34.07	34.17	34.15	33.92	33.92	33.58	33.64	33.54	33.61
MINIMUM VALUE	33.34	33.23	33.40	33.42	33.57	33.67	33.55	33.38	33.28	33.23	33.24	33.07
RANGE	0.63	0.78	0.78	0.65	0.60	0.48	0.37	0.54	0.30	0.41	0.30	0.54
STANDARD DEV.	0.16	0.16	0.22	0.18	0.13	0.13	0.08	0.16	0.09	0.09	0.09	0.16
ANNUAL MIN	33.37	33.07	33.07	33.07	33.07	33.61	33.61	33.61	33.61	33.61	33.61	33.61
ANNUAL MAX	33.97	34.34U	34.34U	34.07	34.17	34.15	33.92	33.92	33.58	33.64	33.54	33.61

TEMPERATURE

PORT SAN LUIS

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.9			11.7	13.4	12.8	13.3		16.1	15.6		12.8
2	13.9	12.2	11.7	12.2		12.8	13.3		17.2		15.6	12.8
3		12.8		12.2				15.0				
4			11.7		13.3	12.8			14.4			
5	13.3	12.8	11.7	12.8	14.4	13.3	13.3	13.9		15.6	15.0	12.8
6	13.3	12.8	12.8	12.8	14.4	13.3	13.3	14.4	15.6	15.0	15.0	12.8
7	13.3			12.8	13.3	12.8	13.3		15.0	15.0		
8	13.3	12.2	12.8	12.2	14.4	12.8	13.3	13.9	15.6	15.0	15.0	13.3
9	13.3	12.8	12.8	12.2	14.4	12.8	13.3	13.9	15.6	15.0	15.0	13.3
10	12.8	12.8	12.8	12.2	14.4	12.8	13.3	14.4	15.6	15.0	15.0	13.3
11	12.8	13.3	12.8	11.1	15.0	12.8	13.3	15.0	14.4	15.0	15.6	13.3
12	12.8	13.4	13.3	11.1	15.0	12.8	13.3	15.0	14.4	15.0	15.6	13.3
13	12.8			11.1	15.0				14.4	15.0	15.6	13.3
14	12.2			11.1	15.0	13.3	14.4	15.0	14.4	15.0	15.6	12.2
15	12.2	13.3	13.3	11.1	15.0	13.3	15.0	15.0	14.4	15.6	15.0	12.2
16				11.1	15.0	13.3	15.0	15.0	15.0	15.6	15.0	12.2
17		13.3	12.8	12.8	13.6	13.3	12.8	15.0	15.0	15.6	15.0	11.7
18		13.3	12.8	12.8	13.6	13.3	12.8	15.0	14.4	15.0	15.0	11.7
19	11.7	12.8	12.2	11.7	13.3	13.3	13.3	15.0	14.4	15.6	15.0	11.7
20	11.7	12.8	12.2	11.7	13.3	13.3	13.3	15.0	14.4	15.6	15.0	11.7
21	11.7	12.8	11.7	11.7	13.3	13.3	13.3	15.0	14.4	15.6	15.0	11.7
22	11.7	12.8	11.7	12.2	13.3	13.3	13.3	15.0	14.4	15.6	15.0	11.7
23	11.7	12.8	11.1	12.2	13.3	13.3	13.3	15.0	14.4	15.6	15.0	11.7
24		12.2	10.6	13.3					16.1	16.1	13.9	
25		11.7	11.1		11.7	12.8	13.3	15.6				
26	12.2	11.7	11.1		11.7	12.8	13.3	15.6				
27	12.2	11.7	11.1	13.3	11.7	12.8	13.3	15.6	15.6	16.7	12.8	12.2
28	12.2				11.7	12.8	13.3	15.6	15.6	16.7	11.7	11.7
29	12.2			13.3	11.7	12.8	13.3	15.6	15.6	16.1	12.2	11.7
30	12.2		11.1	12.8	12.8	12.8	13.3	15.6	15.6	16.1	12.2	11.7
31			11.7			13.3	13.3	15.6				
1-10 MEANS	13.39	12.60	12.25	12.36	13.60	12.54	13.30	14.10	15.75	15.36	15.20	13.03
SAMPLE SIZE	8	6	6	8	6	7	7	5	6	5	6	7
11-20 MEANS	12.23	13.19	12.86	11.48	14.40	13.49	13.68	14.43	14.83	15.34	15.30	12.22
SAMPLE SIZE	7	8	7	6	8	7	6	7	7	7	6	5
21-31 MEANS	12.01	12.02	11.19	12.67	12.49	13.10	13.52	15.19	15.74	16.06	13.88	12.01
SAMPLE SIZE	8	5	5	6	7	9	9	7	7	7	6	8
MONTHLY MEANS	12.56	12.69	12.05	12.19	13.53	13.04	13.50	14.62	15.42	15.61	14.79	12.42
SAMPLE SIZE	23	19	21	20	21	21	22	19	20	19	18	20
MAXIMUM VALUE	13.9	13.4	13.3	13.3	15.0	15.0	15.0	15.6	17.2	16.7	15.6	13.9
MINIMUM VALUE	11.7	11.7	10.6	11.1	11.7	12.2	12.8	12.2	14.4	15.0	12.2	11.7
RANGE	2.2	1.7	2.7	2.2	3.3	2.8	2.2	3.4	2.8	1.7	3.4	2.2
STANDARD DEV.	0.71	0.58	0.85	0.75	1.14	0.65	0.53	0.89	0.71	0.51	0.95	0.62
ANNUAL MIN						13.54						
ANNUAL MEAN												
ANNUAL MAX		10.6										17.2

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16.1	14.3	13.7	14.4	15.2	15.2	15.2	17.5	13.8	18.9	18.3	15.7
2	16.2	14.5	13.9	13.9	15.1	16.6	14.2	16.2	13.2	15.7	17.5	16.1
3	16.1	14.6	14.1	13.9	15.2	16.7	13.9	16.9	13.8	15.6	16.4	16.2
4	16.0	14.6	14.0	12.9	16.2	14.0	14.8	15.5	17.4	16.5	18.1	16.1
5	15.9	14.3	14.1	12.9	16.4	13.6	15.6	17.0	16.9	17.3	18.4	
6	14.3	14.0	14.7	13.6	17.3	14.1	16.2	16.2	16.2	18.8	18.4	
7	14.8	14.7	14.7	13.3	17.1	16.0	16.3	16.3	16.2	15.7	18.5	
8	15.1	14.8	14.5	14.1	17.5	15.6	16.4	15.9	17.3	16.6	18.4	
9	15.0	15.1	14.2	14.0	16.8	15.1	15.4	15.3	18.4	19.2	17.9	
10	15.1	15.1	14.7	15.3	16.5	15.6	17.1	15.7	17.8	18.8	17.7	15.9
11	14.9	15.2	14.4	15.6	17.2	15.6	17.1	16.8	17.2	18.7	17.8	15.6
12	14.9	15.2	14.6	14.2	16.9	15.6	17.4	15.5	17.9	18.9	17.6	15.1
13	15.3	15.1	14.4	15.2	16.0	14.3	15.2	15.8	18.1	18.4	17.6	15.1
14	14.3	14.8	14.3	15.2	16.9	13.0	15.3	16.2	18.1	18.6	15.2	14.8
15	14.5	13.1	13.2	14.3	17.1	13.6	16.4	18.6	18.5	15.1	15.0	15.0
16	14.4	13.7	11.8	13.4	17.4	12.7	15.7	18.9	17.9	15.2	14.0	14.0
17	14.5	13.4	12.2	14.0	15.2	12.6	17.1	17.0	18.8	18.1	15.8	13.7
18	14.2	13.7	12.7	14.3	13.4	12.8	15.9	16.9	18.9	17.9	16.2	14.2
19	14.4	13.8	12.1	13.8	15.2	13.1	17.0	14.2	18.7	17.7	15.9	14.2
20	13.7	12.7	11.8	12.9	16.1	12.7	16.5	14.1	17.8	16.6	16.6	14.2
21	13.9	13.1	12.1	13.4	16.1	13.1	16.8	14.7	18.2	16.7	14.6	14.6
22	14.1	13.1	11.6	15.8	14.7	14.7	16.6	14.9	18.6	17.9	15.7	14.8
23	14.0	13.3	11.3	14.4	14.3	16.9	14.4	16.1	19.3	18.8	15.9	13.9
24	14.0	12.1	11.6	14.7	14.7	17.6	14.5	18.7	17.7	19.1	16.1	14.0
25	14.1	12.6	12.0	15.2	13.6	17.4	15.1	18.7	18.4	18.7	16.3	14.0
26	14.1	13.0	12.4	16.1	14.7	17.2	15.2	17.8	19.0	18.2	15.6	14.0
27	14.2	13.1	12.6	15.9	12.9	16.2	15.3	15.4	18.9	17.2	15.8	13.9
28	14.2	13.7	13.8	16.1	13.2	14.3	15.9	17.6	18.7	17.2	15.8	
29	14.4	13.4	13.4	15.9	13.9	14.8	16.5	16.7	18.6	17.9	15.6	
30	14.4	14.1	16.2	13.8	14.7	17.2	17.2	17.6	17.8	17.3	15.7	13.1
31	14.4	15.6	14.30	13.76	16.38	15.25	15.51	16.25	16.10	17.31	17.96	16.02
1-10 MEANS	10	10	10	10	10	10	10	10	10	10	10	4
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10
11-20 MEANS	14.51	14.07	13.15	14.29	16.14	13.60	16.36	15.81	18.29	18.13	16.22	14.67
SAMPLE SIZE	10	10	10	10	10	10	10	8	10	10	10	10
21-31 MEANS	14.16	13.00	12.58	15.37	13.89	15.69	15.90	16.71	18.52	17.92	15.83	13.93
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	9	9
MONTHLY MEANS	14.69	13.95	13.32	14.47	15.42	14.85	15.92	16.30	17.64	17.79	16.70	14.62
SAMPLE SIZE	31	28	31	30	31	30	31	29	30	31	29	23
MAXIMUM VALUE	16.2	15.2	14.7	16.2	17.5	17.6	17.4	18.7	19.3	19.2	18.5	16.2
MINIMUM VALUE	13.7	12.1	11.3	12.2	11.7	12.6	13.9	14.1	13.2	15.6	14.1	13.1
RANGE	2.5	3.1	3.4	4.0	5.8	5.0	3.5	4.6	6.1	3.6	4.4	3.1
STANDARD DEV.	0.72	0.90	1.14	1.08	1.56	1.54	1.00	1.18	1.57	1.05	1.24	0.95
ANNUAL MIN	11.3											
ANNUAL MEAN						15.47						
ANNUAL MAX												19.3

POINT DUME

TEMPERATURE

YEAR 1987

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.6	14.4	13.3	15.0	16.5	16.5	17.2	18.3	16.7	18.8	18.5	16.0
2	15.6	14.4	13.4	13.9	18.0	18.0	16.6	18.3	16.7	18.6	18.4	16.0
3	15.8	14.4	15.6	13.9	17.8	17.0	15.6	18.5	17.5	18.9	18.3	15.1
4	15.7	14.4	15.6	13.0	17.8	17.0	17.2	18.5	17.5	18.4	18.0	16.1
5	15.7	15.0	15.6	13.0	17.0	17.2	15.0	18.5	20.0	18.9	17.8	16.0
6	15.7	15.6	15.8	13.5	18.0	17.0	15.0	18.5	17.2	18.2	18.2	16.1
7	15.0	14.4	15.8	13.0	20.0U	15.6	17.8	18.5	19.5	17.4	18.3	17.5
8	15.0	14.4	15.0	13.0	17.7	15.6	16.1	18.5	19.4	17.4	19.5	16.0
9	15.0	14.4	15.0	15.0	17.9	15.6	16.6	18.3	19.1	19.4	18.0	16.8
10	15.0	14.4	15.0	16.0	18.3	15.6	17.2	18.3	19.0	18.3	17.8	15.5
11	15.0	14.4	15.0	16.1	18.3	16.0	17.8	18.3	19.0	20.5	18.0	15.0
12	15.0	14.4	15.0	14.7	18.3	15.6	17.8	18.3	18.9	19.4	18.9	14.3
13	15.0	14.4	14.4	16.1	18.7	15.6	17.8	18.3	19.4	17.8	17.3	13.0
14	14.0	14.4	15.4	17.2	18.7	15.6	17.8	18.3	18.9	18.9	17.1	13.0
15	14.0	14.0	15.0	17.2	17.8	15.6	17.8	18.3	19.0	19.4	17.5	12.1
16	14.1	14.0	14.5	16.7	18.5	15.6	17.5	18.3	18.5	18.9	15.3	12.0
17	14.8	14.0	13.0	16.1	18.0	15.6	17.5	18.3	20.0	18.3	16.0	12.3
18	14.4	14.5	13.0	16.1	17.5	15.7	17.5	18.3	20.0	18.3	16.1	13.3
19	14.4	14.0	13.0	16.0	17.5	15.7	18.3	18.3	18.9	18.3	16.0	13.9
20	14.4	14.0	12.5	15.7	17.5	15.7	18.3	17.0	18.9	18.3	16.0	14.4
21	14.6	13.9	13.0	15.8	17.8	15.1	18.3	16.7	19.4	17.2	15.6	14.5
22	14.6	13.9	13.0	16.1	17.5	17.0	18.3	16.0	19.4	17.2	15.5	14.5
23	14.6	13.1	13.0	16.6	16.6	17.0	16.4	16.0	19.4	17.8	15.5	12.1
24	13.9	13.0	13.0	16.6	16.4	17.0	16.4	16.1	18.0	17.8	16.1	12.6
25	13.9	13.0	12.2	16.1	16.1	17.0	19.4	16.1	20.5	17.8	16.2	12.6
26	15.3	13.5	12.8	16.6	13.3	17.0	19.0	16.1	20.6	17.8	15.7	12.1
27	15.3	13.3	12.8	17.0	13.4	17.0	18.3	18.0	20.0	17.8	15.0	9.5U
28	13.9	13.5	13.3	17.0	14.0	17.0	18.3	18.1	20.0	17.8	14.5	12.2
29	13.8	13.3	13.3	17.0	15.3	17.0	18.5	19.1	20.0	18.9	16.0	13.2
30		14.0	14.0	17.2	15.3	17.0	18.5	19.1	20.0	18.3	15.6	13.2
31		14.0	14.0					18.9		18.3		
1-10 MEANS	15.41	14.58	15.01	14.13	17.67	16.41	16.53	18.42	18.38	18.43	18.30	16.11
SAMPLE SIZE	10	10	10	10	9	10	10	10	9	10	10	10
11-20 MEANS	14.51	14.25	14.08	16.08	18.08	15.71	17.81	18.14	19.07	18.97	16.92	13.33
SAMPLE SIZE	10	10	10	9	10	10	10	8	8	10	10	10
21-31 MEANS	14.43	13.40	13.13	16.60	15.57	16.81	18.14	17.29	19.73	17.88	15.57	13.02
SAMPLE SIZE	9	8	11	10	10	10	10	11	10	11	10	10
MONTHLY MEANS	14.80	14.12	14.04	15.59	17.09	16.31	17.49	17.91	19.09	18.41	16.93	14.15
SAMPLE SIZE	29	28	31	29	29	30	30	29	27	31	30	30
MAXIMUM VALUE	15.8	15.6	15.8	17.2	18.7	17.2	19.4	19.1	20.6	20.5	19.5	17.5
MINIMUM VALUE	13.8	13.0	12.2	13.0	13.3	15.1	15.0	16.0	16.7	17.2	14.5	12.0
RANGE	2.0	2.6	3.6	4.2	5.4	2.1	4.4	3.1	3.9	3.3	5.0	5.5
STANDARD DEV.	0.63	0.59	1.15	1.36	1.51	0.70	1.05	0.98	1.04	0.80	1.38	1.65
ANNUAL MIN		12.0		ANNUAL MEAN	16.33		ANNUAL MAX		20.6			

SANTA MONICA

TEMPERATURE

YEAR 1987

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15.6	15.0	13.9	15.3		17.8	18.3		18.9	18.9	17.8	15.6
2		14.4				17.8	18.3	21.1	20.0	17.8		15.3
3		14.4	13.6	15.3	17.8	19.4			19.4		18.3	
4		14.4	13.6	15.3	18.3				20.0	20.6	18.3	15.6
5	15.6	14.7	14.2	15.6	18.3	18.3	18.3	21.1	20.0	20.0	18.3	15.0
6	15.6	15.0	14.4	15.0	18.9	18.3	18.9	21.7	20.0	19.4	18.3	15.0
7	16.1			15.6	18.9	18.9	17.2	21.1				
8	15.0	14.4	14.4	15.6	18.3	18.3	17.8	21.1	18.9	19.4	18.3	15.0
9		14.4							19.4			
10		15.0			19.4	18.3	17.8	21.7	19.4	18.3	18.3	
11	15.6		14.4		19.4				18.9	19.4	17.8	12.8
12		14.4	14.4	15.6	19.0		19.4		18.9	19.4	17.8	12.8
13	15.6			16.7	18.9				20.0	20.6	17.8	13.3
14	15.3			18.9		16.1	18.9	21.1	20.0	18.9	17.2	12.6
15		13.3	13.9	16.7	18.9	17.2	19.4	21.1		19.4	17.2	12.8
16	13.3	14.4	14.2	16.7	18.9	17.8	18.9		19.4	19.4	16.1	13.3
17	13.3	14.7		18.9	18.9	17.8	18.3	18.9	18.9	19.4	16.1	13.3
18	13.6	14.4	14.4	16.7	18.9	17.8						
19		14.4	15.0	16.7	19.4	17.8			18.9	19.4	16.7	
20	13.9			16.7	18.9	19.4	19.4	19.4	21.1	19.4	16.7	
21	13.3	13.9	15.0	16.7		17.2	17.8	19.4	19.4	18.3		13.9
22	13.9	13.3	15.0	16.4		17.2	18.9	19.4	21.7	18.3		14.4
23		13.9	12.8		17.8	17.8	18.3	20.0	20.6	18.9	16.4	13.3
24	14.4	14.4		18.9	18.9	17.8	18.3	18.9	20.6	18.9	16.1	12.8
25		13.3	13.3									
26	15.0			17.8	19.4	18.6	18.9	19.4	20.6	18.9	16.4	
27	13.3			18.1					20.6	18.9	16.4	
28	13.9			17.8		18.3	21.1	18.9	19.4	18.9	16.1	
29	13.9		14.4		18.9			18.3	18.9	18.9	16.1	13.9
30	14.2		15.6			18.3	20.6	18.3	18.9	18.9	16.1	12.8
31				17.8		21.1						
1-10 MEANS	15.58	14.63	14.02	15.34	18.60	18.39	18.09	21.27	19.51	19.66	18.22	15.25
SAMPLE SIZE	5	9	6	7	6	8	7	7	7	5	6	6
11-20 MEANS	14.37	14.27	14.38	16.52	19.04	17.34	18.87	20.06	19.62	19.34	17.07	13.10
SAMPLE SIZE	7	6	6	6	8	5	7	7	6	7	7	8
21-31 MEANS	13.99	13.76	14.29	17.36	18.56	17.89	19.82	19.36	20.30	18.81	16.22	13.42
SAMPLE SIZE	8	5	7	5	5	7	6	7	6	7	5	6
MONTHLY MEANS	14.52	14.30	14.23	16.29	18.77	17.95	18.88	20.23	19.79	19.23	17.22	13.84
SAMPLE SIZE	20	20	19	18	19	20	20	21	19	19	18	20
MAXIMUM VALUE	16.1	15.0	15.6	18.1	19.4	19.4	21.1	21.7	21.7	20.6	18.3	15.6
MINIMUM VALUE	13.3	13.3	12.8	15.0	17.8	16.1	17.2	18.3	18.9	18.3	16.1	12.6
RANGE	2.8	1.7	2.8	3.1	1.6	3.3	3.9	3.4	2.8	2.3	2.2	3.0
STANDARD DEV.	0.97	0.52	0.66	0.97	0.53	0.70	1.07	1.07	0.82	0.63	0.90	1.05
ANNUAL MIN						17.11						
ANNUAL MEAN												
ANNUAL MAX												
12.6												
21.7												

YEAR 1987

TEMPERATURE

BALBOA

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16.6	15.0	14.4	15.0	17.2	17.8	14.0	18.0	17.0	19.3	18.9	16.5
2	16.6	15.0	14.4	14.4	17.8	17.8	14.1	18.9	16.8	18.9	19.0	16.7
3	16.4	15.1	14.4	15.0	17.8	17.8	16.1	18.9	18.9	18.9	18.9	16.7
4	16.6	15.0	14.4	14.0	17.8	17.2	16.1	18.1	19.1	18.2	18.9	16.7
5	16.6	15.0	14.4	15.0	17.8	17.8	16.7	18.9	20.3	18.3	18.9	16.7
6	16.1	14.7	14.4	15.6	18.9	17.0	17.5	20.0	20.0	19.4	18.9	16.7
7	15.6	15.6	14.4	15.0	18.9	19.4	18.9	20.0	19.4	19.4	18.6	17.1
8	15.6	15.6	15.0	15.5	18.9	17.2	19.3	20.6	20.6	17.8	18.4	16.4
9	15.6	15.4	14.8	15.8	18.1	17.2	19.9	20.0	20.6	19.0	18.3	16.4
10	15.5	15.6	15.0	17.2	18.1	17.5	20.0	19.2	20.0	19.2	17.8	16.7
11	15.5	16.1	15.4	17.2	18.9	17.8	20.0	20.0	19.3	18.9	17.8	16.7
12	15.5	15.6	15.0	17.2	19.4	17.2	19.4	21.7	20.6	18.9	18.3	16.6
13	15.6	15.6	15.0	17.2	18.3	17.2	18.3	19.4	20.6	19.0	18.3	15.4
14	15.6	15.8	15.2	16.7	18.9	17.2	17.8	19.3	20.4	19.5	18.3	15.4
15	15.6	15.8	15.0	16.1	18.9	16.7	17.3	19.4	20.3	19.2	17.2	14.7
16	15.0	15.0	13.9	16.4	18.9	16.7	18.2	19.4	20.6	18.3	17.2	14.4
17	14.7	14.4	14.4	16.4	18.9	15.6	18.9	18.6	20.6	17.8	17.8	14.7
18	14.7	15.0	14.4	16.7	18.0	16.1	19.1	18.9	20.4	17.8	17.5	14.7
19	14.7	14.2	15.0	17.0	17.5	16.7	19.4	17.2	19.2	17.7	17.2	14.4
20	14.0	13.9	13.3	17.0	17.0	16.7	18.8	15.6	18.3	17.2	17.2	14.4
21	14.0	13.5	14.0	16.7	17.5	17.2	18.9	17.2	19.5	17.7	17.8	14.5
22	14.4	13.9	13.9	16.7	17.2	17.8	18.9	20.2	20.0	18.3	17.0	14.4
23	14.4	13.6	13.2	17.2	16.4	18.3	18.8	15.6	20.6	18.9	17.2	13.9
24	14.7	13.9	13.4	17.0	15.6	18.8	18.3	16.2	20.0	19.3	17.2	13.6
25	14.4	13.6	13.4	17.0	17.0	19.1	18.3	18.2	20.8	19.4	17.2	13.3
26	14.4	13.9	13.6	17.6	16.1	18.3	18.3	18.3	21.1	19.1	17.2	13.3
27	14.7	13.9	14.0	16.7	16.1	19.4	19.3	17.5	21.2	19.4	17.2	13.6
28	14.7	13.9	15.0	17.3	16.1	15.6	19.9	18.3	21.7	18.5	17.2	13.3
29	14.7	14.4	14.4	17.3	17.5	15.6	19.5	18.6	19.0	19.3	16.7	13.6
30	15.0	14.4	14.4	17.2	17.4	15.6	19.4	18.4	19.5	18.3	16.7	12.8
31	15.0	14.2	14.2	17.4	17.4	15.6	19.7	17.8	18.9	18.9	16.7	13.0
1-10 MEANS	16.12	15.20	14.56	15.25	18.17	17.43	17.26	19.26	19.27	18.84	18.66	16.66
SAMPLE SIZE	10	10	10	10	9	10	10	10	10	10	10	10
11-20 MEANS	15.09	15.14	14.66	16.79	18.63	16.79	18.72	18.95	20.03	18.43	17.68	15.14
SAMPLE SIZE	10	10	10	10	9	10	10	10	10	10	10	10
21-31 MEANS	14.58	13.77	13.95	17.07	16.75	17.57	19.03	17.85	20.34	18.83	17.14	13.57
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	10	11
MONTHLY MEANS	15.24	14.77	14.38	16.37	17.78	17.26	18.36	18.66	19.88	18.70	17.83	15.07
SAMPLE SIZE	31	28	31	30	29	30	31	31	30	31	30	31
MAXIMUM VALUE	16.6	16.1	15.4	17.6	19.4	19.4	20.0	21.7	21.7	19.5	19.0	17.1
MINIMUM VALUE	14.0	13.5	13.2	14.0	15.6	15.6	14.0	15.6	16.8	17.2	16.7	12.8
RANGE	2.6	2.6	2.2	3.6	3.8	3.8	6.0	6.1	4.9	2.3	2.3	4.3
STANDARD DEV.	0.79	0.81	0.59	0.99	1.04	0.98	1.56	1.39	1.11	0.64	0.75	1.42
ANNUAL MIN	12.8			ANNUAL MEAN	17.02			ANNUAL MAX	21.7			

SALINITY

BALBOA

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.41	33.35	33.65	33.76	33.49	33.58	33.55	33.85	33.59	33.52	33.24	33.24
2	33.40	33.38	33.36	33.48	33.52	33.40	33.60	33.59	33.53	33.47	33.54	33.26
3	33.41	33.35	33.65	33.41	33.77	33.43	33.52	33.57	33.80	33.47	33.35	33.29
4	32.46	33.35	33.78	33.47		33.46	33.80	33.55	33.59	33.47	33.44	33.55
5	32.46	33.33	33.38	33.46	33.53		33.83	33.57	33.64	33.05	33.37	33.79
6	32.50	33.41	33.38	33.66	33.66	33.45	33.58	33.57	33.80	33.48	33.31	33.24
7	32.91	33.37	33.31	33.48	33.50	33.50	33.60	33.54	33.80	33.48	33.40	33.00
8	33.23	33.39	33.38	33.46	33.51	33.47	33.61	33.48	33.80	33.48	33.72	33.03
9	33.19	33.85	33.43	33.51	33.61	33.48	33.72	33.55	33.56	33.50	33.39	33.14
10	33.19	33.40	33.49	33.48	33.63	33.51	33.62	33.73	33.61	33.50	33.34	33.22
11	33.54	33.34	33.39	33.46	33.67	33.48	33.69	33.57	33.67	33.50	33.25	33.23
12	33.23	33.40	33.36	33.77	33.53	33.49	33.83	33.50	33.56	33.44	33.35	33.21
13	33.50	33.37	33.48	33.49	33.65	33.49	33.67	33.53	33.77	33.44	33.32	33.27
14	33.78	33.16	33.27	33.50	33.51	33.71	33.97	33.49	33.59	33.42	33.23	33.40
15	33.28	33.20	33.29	33.48	33.76	33.47	33.52	33.48	33.60	33.45	33.41	33.52
16	33.32	33.30	33.51	33.53	33.85	33.46	33.62	33.53	33.58	33.48	33.31	33.33
17	33.66	33.17	33.34	33.66	33.57	33.47	33.67	33.46	33.60	33.64	33.37	33.27
18	33.35	33.28	33.35	33.66	33.55	33.48	33.59	33.52	33.60	33.45	33.33	33.32
19	33.52	33.27	33.29	33.64	33.65	33.62	33.67	33.52	33.86	33.41	33.34	33.25
20	33.38	33.43	33.53	33.44	33.53	33.47	33.62	33.55	33.57	33.55	33.37	33.32
21	33.38	33.43	32.95	33.51	33.51	33.51	33.60	33.54	33.56	33.43	33.30	33.30
22	33.34	33.38	32.94	33.52	33.49	33.48	33.58	33.54	33.48	33.42	33.32	33.29
23	33.33	33.36	33.41	33.56	33.49		33.53	33.51	33.49	33.37	33.32	33.26
24	33.60	33.27	33.56	33.72	33.59	33.59		33.48	33.51	33.31	33.32	33.33
25	33.21	33.20	33.41	33.76	33.44	33.58	33.73	33.53	33.46	33.42	33.34	33.26
26	33.31	33.39	33.41	33.55	33.44	33.70	33.53	33.56	33.50	33.43	33.39	33.56
27	33.32	33.42	33.43	33.51	33.49	33.68	33.53	33.53	33.42	33.43	33.39	33.27
28	33.30	33.37	33.43	33.48	33.67	33.53	33.58	33.62	33.56	33.42	33.39	33.39
29	33.33	33.33	33.45	33.48	33.48	33.58	33.58	33.53	33.49	33.45	33.42	33.32
30	33.33	33.43	33.43	33.49	33.43	33.52	33.53	33.52	33.45	33.27	33.37	33.28
31	33.28	33.42	33.48	33.52	33.58	33.48	33.64	33.60	33.65	33.51	33.41	33.26
1-10 MEANS	33.02	33.42	33.48	33.52	33.58	33.48	33.64	33.60	33.65	33.51	33.41	33.26
SAMPLE SIZE	10	10	10	10	9	9	10	10	10	10	10	10
11-20 MEANS	33.47	33.28	33.37	33.55	33.64	33.51	33.68	33.51	33.64	33.48	33.33	33.31
SAMPLE SIZE	9	10	9	9	9	10	10	10	10	10	10	10
21-31 MEANS	33.34	33.35	33.35	33.56	33.50	33.57	33.58	33.54	33.49	33.38	33.36	33.31
SAMPLE SIZE	11	8	11	10	11	11	11	11	11	11	11	11
MONTHLY MEANS	33.27	33.35	33.40	33.54	33.57	33.52	33.64	33.55	33.60	33.45	33.36	33.29
SAMPLE SIZE	30	28	30	29	29	28	29	31	30	31	30	31
MAXIMUM VALUE	33.78	33.85	33.78	33.77	33.85	33.71	33.97	33.85	33.86	33.65	33.72	33.79
MINIMUM VALUE	32.46	33.16	32.94	33.41	33.43	33.40	33.52	33.46	33.42	33.27	33.23	33.00
RANGE	1.32	0.69	0.84	0.36	0.42	0.31	0.45	0.39	0.44	0.38	0.49	0.79
STANDARD DEV.	0.31	0.13	0.17	0.10	0.11	0.08	0.11	0.07	0.11	0.08	0.09	0.13
ANNUAL MIN		32.46		ANNUAL MEAN		33.46		ANNUAL MAX		33.97		

SALINITY

SAN CLEMENTE

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.51	33.36	33.50	33.51	33.67	33.58	33.56	33.58	33.55			33.41
2	33.57	33.36	33.57	33.57	33.56	33.58	33.78	33.57	33.77		33.40	33.39
3	33.42	33.35	33.41	33.25	33.56	33.77	33.57	33.58	33.65		33.47	33.36
4		33.66	33.38	33.47	33.73	33.79	33.57	33.57	33.72	33.55	33.39	33.50
5	33.11	33.60	33.53	33.48	33.64	33.74	33.57	33.76	33.63	33.51	33.36	33.31
6	33.24	33.50	33.24	33.49	33.53	34.09	33.63	33.59	33.64	33.56	33.35	33.26
7	33.42	33.45	33.48	33.46	33.54	33.55	33.61	33.52	33.58	33.54	33.33	33.36
8	33.14	33.42	33.32	33.49	33.55	33.52	33.62	33.62	33.58	33.50	33.34	33.54
9	33.20	33.53	33.36	33.68	33.61	33.88	33.81	33.82	33.64	33.54	33.32	33.32
10	33.25	33.40	33.39	33.51	33.54	33.80	33.64	33.63	33.59	33.52	33.34	33.42
11	33.29	33.37	33.58	33.50	33.52	33.53	33.66	33.65	33.59	33.52	33.37	33.44
12	33.32	33.39	33.37	33.51	33.52	33.50	33.65	33.76	33.77	33.45	33.34	33.32
13	33.31	33.37	33.39	33.55	33.53	33.74	33.56	33.56	33.63	33.39	33.43	33.42
14	33.32	33.39	33.52	33.52	33.52	33.56	33.76	33.33	33.65	33.41	33.25	33.43
15	33.32	33.56	33.29	33.50	33.50	33.70	33.63	33.61	33.82	33.44	33.28	33.37
16	33.34	33.33	33.50	33.65	33.49	33.65	33.63	33.57	33.66	33.50	33.31	
17	33.37	33.39	33.64	33.49	33.52	33.86	33.60	33.54	33.70	33.47	33.48	33.21
18	33.39	33.38	33.48	33.51	33.60	33.89	33.65	33.55	33.61	33.52	33.33	33.46
19	33.37	33.38	33.48	33.49	33.62	33.84	33.63	33.52	33.60	33.44	33.36	33.26
20	33.62	33.46	33.42	33.67	33.68	33.96	33.64	33.52	33.73	33.44	33.36	33.28
21	33.44	33.44	33.46	33.56	33.68	33.84	33.63	33.52	33.73	33.44	33.37	33.32
22	33.41	33.35	33.35	33.55	33.63	33.91	33.59	33.65	33.59	33.39	33.37	33.44
23	33.41	33.47	33.65	33.76	33.52	33.83	33.56	33.50	33.65	33.39	33.35	33.44
24	33.44	33.48	33.67	33.71	33.52	33.84	33.53	33.55	33.66	33.38	33.34	33.31
25	33.37	33.28	33.44	33.53	33.51	33.86	33.52	33.54	33.61	33.30	33.33	33.39
26	33.37	33.33	33.43	33.57	33.53	33.86	33.78	33.61	33.77	33.36	33.34	33.39
27	33.37	33.33	33.43	33.55	33.49	33.95	33.62	33.56	33.63	33.36	33.44	33.44
28	33.37	33.31	33.56	33.54	33.50	33.59	33.62	33.56	33.63	33.36	33.38	33.39
29	33.36	33.57	33.53	33.59	33.51	33.57	33.57	33.57	33.63	33.49	33.38	33.44
30	33.32	33.32	33.54	33.55	33.49	33.61	33.56	33.56	33.59	33.39	33.38	33.41
31	33.34	33.34	33.56	33.56	33.48	33.58	33.62	33.57	33.57	33.45		
1-10 MEANS	33.24	33.46	33.40	33.49	33.59	33.70	33.64	33.62	33.64	33.53	33.36	33.39
SAMPLE SIZE	8	10	9	10	10	10	10	10	9	8	9	10
11-20 MEANS	33.36	33.40	33.44	33.55	33.54	33.72	33.65	33.56	33.68	33.46	33.35	33.35
SAMPLE SIZE	10	8	10	10	10	10	10	10	10	10	10	9
21-31 MEANS	33.40	33.40	33.50	33.57	33.52	33.68	33.58	33.59	33.64	33.41	33.37	33.39
SAMPLE SIZE	11	8	9	10	10	10	11	9	9	8	9	9
MONTHLY MEANS	33.34	33.42	33.45	33.54	33.55	33.70	33.62	33.59	33.65	33.47	33.36	33.38
SAMPLE SIZE	29	26	28	30	30	30	31	29	28	26	28	28
MAXIMUM VALUE	33.62	33.66	33.65	33.71	33.73	34.09	33.88	33.81	33.82	33.59	33.48	33.54
MINIMUM VALUE	33.02	33.28	33.24	33.25	33.48	33.50	33.52	33.33	33.55	33.30	33.25	33.21
RANGE	0.60	0.38	0.41	0.46	0.25	0.59	0.36	0.48	0.27	0.29	0.23	0.33
STANDARD DEV.	0.12	0.09	0.10	0.08	0.06	0.16	0.08	0.09	0.07	0.07	0.04	0.07
ANNUAL MIN						33.51						
ANNUAL MEAN												
ANNUAL MAX												
		33.02									34.09	

YEAR 1987

SURFACE TEMPERATURE

SCRIPPS PIER

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16.4	14.2	14.9	15.6	18.5	18.5	18.3	19.6	19.8	20.6	19.0	17.0
2	16.0	14.8	15.2	15.5	17.9	18.1	18.3	16.6	20.5	20.7	18.8	16.8
3	15.9	14.7	15.0	15.2	17.9	18.2	17.6	16.6	20.1	21.1	18.3	17.1
4	15.2	15.1	15.4	15.2	18.4	18.1	17.4	20.1	19.6	20.4	18.4	16.7
5	15.3	15.3	14.9	15.1	19.1	18.7	16.2	18.0	20.7	21.6	17.4	17.4
6	15.9	15.4	15.2	15.7	18.2	17.7	16.4	21.4	21.1	21.3	17.8	16.8
7	15.8	15.1	16.2	16.2	19.0	18.1	16.4	22.4	20.7	21.1	19.2	16.6
8	15.2	13.5	15.2	17.1	18.3	18.1	18.1	21.9	20.8	20.4	17.8	16.5
9	14.6	15.9	15.5	16.6	18.9	17.9	17.8	21.1	21.6	19.4	17.5	16.1
10	15.3	16.0	15.2	17.6	17.9	17.3	18.0	22.3	19.7	20.1	17.3	16.1
11	15.4	16.0	15.3	17.5	19.0	17.6	18.6	20.8	20.4	20.3	17.6	16.4
12	15.5	15.6	15.6	18.2	19.4	18.1	18.9	20.8	20.0	19.7	17.7	16.5
13	15.1	16.5	15.0	17.8	19.0	18.0	19.4	21.1	19.7	19.6	17.5	14.7
14	15.3	15.1	14.5	17.2	18.6	17.9	19.1	20.0	20.4	19.6	17.9	13.2
15	15.1	16.8	14.8	17.8	18.2	18.2	19.1	19.9	20.6	19.7	17.2	12.7
16	14.4	15.2	15.2	17.8	18.5	18.7	19.0	20.4	21.0	19.8	17.1	13.3
17	14.0	15.1	14.6	18.7	18.8	17.6	18.9	20.1	20.6	19.8	17.1	14.4
18	14.3	15.3	14.5	17.3	18.5	17.4	18.4	19.7	20.8	19.3	17.2	13.7
19	14.6	15.0	14.3	17.9	18.9	17.8	18.6	19.8	20.8	19.1	17.1	14.3
20	14.4	14.9	14.1	17.8	18.5	17.7	19.4	20.1	20.8	19.1	16.7	14.5
21	13.9	14.9	14.5	17.9	19.3	17.9	19.1	20.6	20.9	19.0	17.5	14.8
22	14.4	14.9	14.0	18.2	18.9	18.1	19.3	20.0	20.8	18.9	17.4	14.7
23	14.3	14.2	13.7	18.9	19.2	18.6	19.8	19.9	21.6	19.0	17.5	14.2
24	14.3	13.9	14.5	18.7	19.0	18.2	19.6	19.5	20.9	18.6	17.4	14.7
25	14.6	13.5	14.5	18.9	18.6	18.8	19.6	19.0	21.1	18.4	17.1	13.9
26	14.5	13.6	15.2	18.9	17.8	18.0	19.9	19.0	21.1	19.4	16.9	13.1
27	14.8	14.1	15.6	18.2	18.0	18.6	19.1	19.0	20.9	20.3	16.9	13.2
28	14.8	14.5	15.5	18.2	18.2	18.7	19.5	19.5	21.2	20.1	17.0	13.6
29	14.8	14.5	13.9	18.0	18.0	19.8	19.1	19.1	20.9	19.7	17.5	13.7
30	14.0	15.4	15.4	18.0	18.4	19.0	19.7	20.1	21.6	19.4	17.1	14.0
31	14.1	15.7	15.7	18.6	18.6	19.0	19.0	19.9	19.0	19.0	17.1	13.4
1-10 MEANS	15.62	15.24	15.13	15.88	18.41	18.13	17.45	20.00	20.46	20.67	18.14	16.75
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10
11-20 MEANS	14.81	15.73	14.79	17.80	18.77	17.90	18.94	20.27	20.51	19.60	17.31	14.37
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10
21-31 MEANS	14.41	14.20	14.77	18.39	18.55	18.67	19.43	19.60	21.10	19.44	17.23	13.88
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	10	11
MONTHLY MEANS	14.93	15.12	14.89	17.36	18.57	18.23	18.63	19.95	20.69	19.89	17.54	14.96
SAMPLE SIZE	31	28	31	30	31	30	31	31	30	31	29	31
MAXIMUM VALUE	16.4	16.8	15.7	18.9	19.4	19.8	19.9	22.4	21.6	21.6	19.0	17.4
MINIMUM VALUE	13.9	13.5	13.7	14.1	17.8	17.4	16.2	16.6	19.6	18.9	16.7	12.7
RANGE	2.5	3.3	2.0	4.8	1.6	2.4	3.7	5.8	2.0	2.7	2.3	4.7
STANDARD DEV.	0.68	0.86	0.53	1.27	0.46	0.52	1.00	1.32	0.54	0.74	0.56	1.50
ANNUAL MIN	12.7			ANNUAL MEAN	17.56			ANNUAL MAX	22.4			

SCRIPPS PIER SURFACE SALINITY

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.40	33.40	33.38	33.51	33.55	33.54	33.64	33.57	33.55	33.61	33.38	33.37
2	33.40	33.41	33.40	33.50	33.55	33.51	33.63	33.56	33.59	33.57	33.26	33.39
3	33.39	33.40	33.38	33.47	33.56	33.53	33.58	33.59	33.56	33.57	33.35	33.39
4	33.37	33.42	33.39	33.50	33.55	33.52	33.61	33.57	33.61	33.57	33.32	33.40
5	33.33	33.41	33.45	33.49	33.56	33.52	33.59	33.53	33.56	33.61	33.37	33.29
6	33.32	33.40	33.38	33.50	33.54	33.49	33.61	33.60	33.57	33.60	33.27	33.34
7	33.20	33.40	33.34	33.50	33.66	33.47	33.60	33.61	33.59	33.61	33.27	33.35
8	33.26	33.43	33.34	33.48	33.57	33.48	33.68	33.61	33.58	33.62	33.30	33.35
9	33.29	33.41	33.38	33.47	33.55	33.40	33.60	33.62	33.56	33.56	33.28	33.39
10	33.33	33.41	33.39	33.47	33.55	33.40	33.60	33.66	33.56	33.57	33.27	33.35
11	33.33	33.40	33.39	33.48	33.56	33.49	33.63	33.61	33.58	33.56	33.31	33.34
12	33.33	33.40	33.39	33.49	33.56	33.49	33.61	33.69	33.63	33.62	33.31	33.35
13	33.35	33.40	33.40	33.51	33.57	33.49	33.68	33.61	33.61	33.64	33.31	33.46
14	33.32	33.39	33.40	33.50	33.54	33.50	33.62	33.62	33.61	33.50	33.28	33.43
15	33.34	33.39	33.41	33.51	33.55	33.51	33.69	33.61	33.58	33.43	33.30	33.44
16	33.35	33.40	33.39	33.53	33.54	33.51	33.71	33.62	33.59	33.43	33.34	33.40
17	33.38	33.40	33.42	33.50	33.54	33.51	33.63	33.60	33.59	33.47	33.31	33.52
18	33.38	33.39	33.42	33.53	33.56	33.51	33.60	33.60	33.60	33.43	33.30	33.27
19	33.41	33.42	33.45	33.55	33.56	33.54	33.60	33.60	33.65	33.43	33.32	33.30
20	33.39	33.42	33.44	33.56	33.67	33.56	33.65	33.62	33.63	33.42	33.35	33.30
21	33.40	33.43	33.46	33.54	33.64	33.56	33.62	33.61	33.64	33.47	33.34	33.31
22	33.39	33.39	33.46	33.55	33.59	33.57	33.65	33.58	33.57	33.47	33.34	33.32
23	33.40	33.40	33.45	33.54	33.54	33.56	33.63	33.58	33.45	33.44	33.35	33.35
24	33.40	33.31	33.45	33.60	33.61	33.59	33.66	33.56	33.63	33.45	33.34	33.37
25	33.39	33.31	33.44	33.56	33.63	33.58	33.60	33.59	33.69	33.44	33.36	33.37
26	33.41	33.34	33.44	33.57	33.56	33.60	33.66	33.55	33.62	33.44	33.36	33.37
27	33.40	33.39	33.45	33.55	33.66	33.59	33.64	33.55	33.65	33.51	33.40	33.39
28	33.39	33.38	33.51	33.58	33.58	33.60	33.68	33.54	33.65	33.51	33.37	33.36
29	33.39	33.50	33.50	33.56	33.56	33.69	33.59	33.54	33.65	33.45	33.37	33.36
30	33.42	33.62	33.49	33.54	33.56	33.62	33.58	33.67	33.66	33.40	33.37	33.36
31	33.39	33.39	33.48	33.54	33.56	33.56	33.59	33.59	33.59	33.40	33.31	33.36
1-10 MEANS	33.32	33.41	33.38	33.49	33.56	33.50	33.61	33.59	33.58	33.59	33.31	33.36
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10
11-20 MEANS	33.36	33.40	33.41	33.52	33.57	33.52	33.65	33.62	33.61	33.45	33.31	33.36
SAMPLE SIZE	10	9	10	10	10	8	10	10	10	10	10	10
21-31 MEANS	33.40	33.37	33.47	33.56	33.59	33.60	33.62	33.58	33.63	33.45	33.36	33.36
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	10	10	11
MONTHLY MEANS	33.36	33.39	33.42	33.52	33.58	33.54	33.63	33.60	33.61	33.50	33.33	33.36
SAMPLE SIZE	31	27	31	30	31	28	31	31	30	30	30	31
MAXIMUM VALUE	33.42	33.43	33.51	33.60	33.67	33.69	33.71	33.69	33.69	33.62	33.40	33.46
MINIMUM VALUE	33.20	33.31	33.34	33.47	33.53	33.40	33.58	33.53	33.55	33.40	33.26	33.27
RANGE	0.22	0.12	0.17	0.13	0.14	0.29	0.13	0.16	0.14	0.22	0.14	0.19
STANDARD DEV.	0.05	0.02	0.03	0.02	0.02	0.05	0.02	0.02	0.03	0.07	0.03	0.03
ANNUAL MIN	33.20											
ANNUAL MEAN												
ANNUAL MAX												
											33.71	

BOTTOM SALINITY

SCRIPPS PIER

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.37	33.39	33.42	33.48	33.55	33.61	33.59	33.57	33.55	33.51	33.36	33.37
2	33.33	33.38	33.39	33.43	33.55	33.52	33.53	33.54	33.53	33.55	33.24	33.36
3	33.37	33.39	33.44	33.44	33.57	33.53	33.56	33.51	33.53	33.50	33.34	33.37
4	33.32	33.39	33.40	33.49	33.55	33.52	33.53	33.53	33.49	33.66	33.31	33.37
5	33.37	33.39	33.46	33.46	33.51	33.51	33.57	33.53	33.53	33.57	33.27	33.29
6	33.32	33.40	33.39	33.48	33.53	33.55	33.58	33.59	33.53	33.59	33.23	33.33
7	33.19	33.40	33.35	33.47	33.54	33.48	33.58	33.62	33.56	33.55	33.22	33.38
8	33.24	33.39	33.35	33.48	33.54	33.50	33.59	33.59	33.55	33.58	33.26	33.34
9	33.27	33.40	33.38	33.44	33.54	33.50	33.59	33.59	33.55	33.41	33.27	33.36
10	33.28	33.40	33.44	33.43	33.54	33.51	33.60	33.63	33.50	33.53	33.26	33.35
11	33.29	33.44	33.39	33.44	33.54	33.49	33.60	33.63	33.54	33.55	33.26	33.34
12	33.31	33.40	33.39	33.47	33.54	33.50	33.61	33.61	33.54	33.44	33.25	33.33
13	33.33	33.49	33.40	33.49	33.52	33.50	33.60	33.63	33.56	33.42	33.28	33.40
14	33.33	33.39	33.39	33.50	33.53	33.51	33.61	33.61	33.59	33.43	33.28	33.47
15	33.33	33.41	33.38	33.49	33.52	33.52	33.62	33.62	33.59	33.47	33.29	33.45
16	33.35	33.39	33.44	33.49	33.53	33.52	33.63	33.62	33.59	33.43	33.32	33.40
17	33.35	33.38	33.41	33.49	33.54	33.61	33.61	33.60	33.59	33.42	33.33	33.33
18	33.37	33.39	33.41	33.51	33.56	33.53	33.60	33.60	33.59	33.42	33.30	33.26
19	33.37	33.66	33.46	33.49	33.58	33.54	33.57	33.57	33.61	33.41	33.31	33.31
20	33.38	33.41	33.44	33.51	33.58	33.56	33.60	33.58	33.61	33.41	33.32	33.30
21	33.40	33.44	33.45	33.52	33.60	33.61	33.63	33.58	33.59	33.40	33.32	33.31
22	33.40	33.39	33.41	33.54	33.61	33.55	33.63	33.58	33.59	33.40	33.35	33.31
23	33.38	33.38	33.46	33.52	33.61	33.55	33.64	33.55	33.59	33.45	33.34	33.30
24	33.40	33.31	33.45	33.57	33.62	33.56	33.59	33.57	33.59	33.41	33.35	33.34
25	33.39	33.32	33.43	33.56	33.63	33.57	33.58	33.51	33.62	33.44	33.37	33.34
26	33.39	33.30	33.45	33.53	33.58	33.58	33.62	33.49	33.63	33.43	33.36	33.39
27	33.45	33.40	33.43	33.52	33.58	33.61	33.55	33.52	33.61	33.45	33.38	33.36
28	33.38	33.40	33.56	33.54	33.59	33.58	33.53	33.54	33.62	33.43	33.38	33.36
29	33.37	33.45	33.45	33.54	33.54	33.56	33.51	33.53	33.62	33.40	33.37	33.36
30	33.42	33.48	33.48	33.53	33.61	33.60	33.58	33.55	33.61	33.44	33.37	33.35
31	33.39	33.56	33.56	33.53	33.54	33.57	33.57	33.55	33.55	33.39	33.37	33.36
1-10 MEANS	33.31	33.39	33.39	33.46	33.55	33.52	33.59	33.57	33.51	33.54	33.28	33.35
SAMPLE SIZE	10	10	9	10	10	10	10	10	10	10	10	10
11-20 MEANS	33.34	33.44	33.41	33.49	33.54	33.52	33.60	33.59	33.58	33.44	33.29	33.36
SAMPLE SIZE	10	10	10	10	8	10	10	10	10	10	10	10
21-31 MEANS	33.40	33.37	33.47	33.54	33.59	33.58	33.58	33.54	33.60	33.42	33.36	33.34
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	10	11
MONTHLY MEANS	33.35	33.40	33.42	33.49	33.56	33.54	33.59	33.57	33.57	33.47	33.31	33.35
SAMPLE SIZE	31	28	30	30	31	28	31	31	30	31	30	31
MAXIMUM VALUE	33.45	33.66	33.56	33.57	33.63	33.61	33.64	33.63	33.63	33.66	33.38	33.47
MINIMUM VALUE	33.19	33.30	33.35	33.43	33.52	33.48	33.51	33.49	33.35	33.39	33.22	33.26
RANGE	0.26	0.36	0.21	0.14	0.11	0.13	0.13	0.14	0.28	0.27	0.16	0.21
STANDARD DEV.	0.05	0.06	0.03	0.03	0.02	0.03	0.02	0.03	0.04	0.07	0.04	0.04
ANNUAL MIN	33.19											
ANNUAL MEAN	33.47											
ANNUAL MAX	33.66											