

UC San Diego

SIO Reference

Title

Surface Water Temperatures, Salinities and Densities At Shore Stations, United States West Coast 1989

Permalink

<https://escholarship.org/uc/item/14g2486r>

Author

Scripps Institution of Oceanography

Publication Date

1990-04-17

UNIVERSITY OF CALIFORNIA, SAN DIEGO
SCRIPPS INSTITUTION OF OCEANOGRAPHY
LA JOLLA, CALIFORNIA 92093

SURFACE WATER TEMPERATURES, SALINITIES
AND DENSITIES AT SHORE STATIONS

United States West Coast

1989

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

SIO Reference 90-12
17 April 1990

Sponsored by:

Marine Life Research Group
Scripps Institution of Oceanography

Approved for distribution:


Edward A. Frieman, Director

CONTENTS

Introduction	3
Station Descriptions	5
Table of 1989 Surface Temperature Monthly and Yearly Means	8
Table of 1989 Surface Temperature Monthly and Yearly Anomalies	9
Station Location Chart	10
Daily Coastal Surface Water Temperature, Salinity, and Density Data, 1989	
Neah Bay Temperature	11
Charleston Temperature	12
Crescent City Temperature	13
Trinidad Bay Temperature	14
Trinidad Beach Temperature	15
Trinidad Beach Salinity	16
Trinidad Beach Sigma-t	17
Bodega Bay Temperature	18
Bodega Bay Salinity	19
Bodega Bay Sigma-t	20
Farallon Island Temperature	21
Farallon Island Salinity	22
Farallon Island Sigma-t	23
Santa Cruz Temperature	24
Pacific Grove Temperature	25
Granite Canyon Temperature	26
Granite Canyon Salinity	27
Granite Canyon Sigma-t	28
Morro Bay Temperature	29
Port San Luis Temperature	30
Santa Barbara Temperature	31
Point Dume Temperature	32
Santa Monica Temperature	33
Balboa Temperature	34
Balboa Salinity	35
Balboa Sigma-t	36
San Clemente Temperature	37
San Clemente Salinity	38
San Clemente Sigma-t	39
Scripps Pier Surface Temperature	40
Scripps Pier Surface Salinity	41
Scripps Pier Surface Sigma-t	42
Scripps Pier Bottom Temperature	43
Scripps Pier Bottom Salinity	44
Scripps Pier Bottom Sigma-t	45

INTRODUCTION

This report presents temperature and salinity data observed during 1989 at shoreline stations along the United States West Coast from the Strait of Juan de Fuca, Washington to La Jolla, California. The data consist of daily temperature and salinity values when available, with means, ranges and standard deviations based on these observations. Densities have been calculated from the daily temperature and salinity measurements with the 1980 International Equation of State for seawater algorithms (UNESCO, 1981)¹ and are listed in the same format as the temperature and salinity data.

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

Daily temperature values from four tide gauge stations located at Neah Bay, Washington and Crescent City, Port San Luis and Santa Monica, California are sent to SIO by NOAA/NOS annually. 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. Charleston, Oregon, Bodega Bay, Pacific Grove, Granite Canyon and Santa Barbara record temperature to the nearest 0.1°C on calibrated standard or electronic digital thermometers. Trinidad and S.E. Farallon Island generally record temperature to 0.1°C on standard immersion thermometers. San Clemente and La Jolla record temperature to 0.1°F from calibrated digital thermometers. Balboa usually reports temperature from a thermistor to the nearest 0.5°F. Santa Cruz records temperature to 0.1°C from a thermistor. Fahrenheit readings have been converted and are reported to the nearest 0.1°C. With the exception of those values reported to the nearest 1°F, the observations are considered accurate to approximately $\pm 0.2^\circ\text{C}$ in most instances. The temperatures are usually reported with little attempt to screen or eliminate observer errors. However, occasional suspect extreme values may be noted with a "U" after the temperature.

Salinities from Trinidad Beach, Bodega Bay, S.E. Farallon Island, Granite Canyon, Balboa, San Clemente, and Scripps Pier are obtained from analyses of sea water samples collected in special salinity bottles supplied by Scripps. Sea 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 or to loosely sealed sample bottles. Salinities less than 30‰ are due to local precipitation or fresh water runoff. Neither are representative of offshore oceanic waters. All salinities higher than 34.5‰ have been omitted. Visibly contaminated samples or samples known to have been poorly sealed have also been omitted. A few unusual salinities are noted with a "U" after the salinity to indicate that the salinity is believed to be uncertain.

Densities are calculated for each day that has both a temperature and a salinity measurement. To omit repetitive digits, the densities are listed in sigma-t units where $\sigma\text{-t} = (\text{density} - 1.0) \times 1000$. For example, for a density of 1.02451 g/cm^3 , $\sigma\text{-t} = 24.51$. Because of the high sensitivity of salinometer derived salinities, the computed densities are considered to be more accurate than densities derived from field hydrometer measurements. The densities have not been reduced to a standard temperature (such as 15°C). They have been calculated from the observed values so as to reflect the actual coastal conditions. Wherever either the temperature or salinity have been flagged as questionable, a "U" will also appear after the sigma-t value.

¹ UNESCO, 1981. Background papers and supporting data on the International Equation of State 1980. *UNESCO Technical Papers in Marine Science*, No. 37.

A few calculations are presented below each month's column of daily observations: one-third month means, and monthly means, maximum and minimum values, range, and standard deviation. For those stations with observations for every month of the year, the annual minimum, mean, and maximum are also given. This annual mean has been derived by calculating the mean of the 12 monthly means and differs very slightly from an annual mean calculated by using the individual days of the year. Data flagged with a "U" are not included in any of these computations, nor are they listed as the extremes for the month or year.

The 1989 monthly and annual coastal sea-surface temperature means are summarized on page 8. In order to see how these means differed from "normal," the anomalies from the station's long-term means have been calculated and are shown on the facing page. Listed below each station in this tabulation are the years used in determining the long-term mean for that location.

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 48°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,
University of Oregon

Daily temperatures are collected at high tide from the OIMB pier in Coos Bay. These are also reported to Oregon State University.

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 Bay, California 41°03.3'N, 124°08.8'W Marine Laboratory,
Humboldt State University

Trinidad Beach, California 41°03.6'N, 124°08.9'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. Due to the similarity of the salinities from the coast and the bay, except during periods of large run-off, salinity samples are collected from the beach only.

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

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 Islands National Wildlife Refuge. 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 northwester.

Santa Cruz, California

36°57.5'N, 122°01.0'W

City of Santa Cruz

A buoy-gauge thermistor unit has been installed in the Santa Cruz Municipal Wharf wharfmaster's office with the thermistor located in a protective pipe on a pier piling under the office. Maintenance of this station is carried out by the wharf crew of the City of Santa Cruz.

Pacific Grove, California

36°37.3'N, 121°54.2'W

Hopkins Marine Station,
Stanford University

Hopkins Marine Station 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.

Port San Luis, California

35°10.1'N, 120°45.1'W

NOAA/NOS

This tide-gauge station has been located on the old fishing pier in the northwest corner of the harbor since 1972. The previous site was on Avila recreational pier which was a better location. The present 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 Waterfront 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 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 harbor master'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,
University of California, San Diego

Daily temperature and salinity measurements are made at the end of the Scripps Institution of Oceanography pier by personnel from the Scripps Aquarium Museum. Two levels of measurement are made: surface and 5 meter or bottom.

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

1989 COASTAL SEA-SURFACE TEMPERATURE
MONTHLY AND YEARLY MEANS

Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Neah Bay	7.76	5.24	7.57	10.25	11.84	12.74	13.00	12.13	11.58	10.98	10.20	8.91	10.18
Charleston	9.37	8.35	9.70	11.23	11.68	11.93	13.14	12.27	11.41	11.71	11.23	10.24	11.02
Crescent City	9.45	9.66	10.90	13.13	13.18	13.77	14.59	15.76	14.69	13.47	11.81	11.06	12.62
Trinidad Beach	9.35	9.17	10.55	12.11	11.47	11.16	12.12	12.99	13.17	12.44	11.50	12.14	11.51
Bodega Bay	10.00	9.75	10.35	11.53	10.82	11.03	10.44	12.30	13.84	12.62	12.02	11.50	11.35
Farallon Islands	10.97	10.52	11.50	12.32	11.55	11.17	11.86	13.29	14.21	13.48	12.81	12.87	12.21
Santa Cruz	10.81	10.88	12.32	13.39	13.56	14.02	14.83	15.33	15.43	14.51	13.54	12.88	13.46
Pacific Grove	10.75	10.89	12.21	13.19	13.10	13.49	13.29	14.14	14.01	13.52	12.92	13.12	12.89
Granite Canyon	11.04	10.86	10.94	11.42	10.31	11.01	10.66	12.76	12.39	12.95	13.04	13.72	11.76
Morro Bay	10.50	11.57	11.89	12.91	12.79	13.62	14.32	14.85	14.03	13.88	13.23	12.98	13.05
Port San Luis	10.46	10.88	11.33	12.63	11.61	12.99	15.05	14.75	15.32	14.70	13.86	13.63	13.10
Santa Barbara	11.62	12.19	14.41	15.07	15.66	17.61	18.25	18.11	17.00	17.24	16.00	15.20	15.70
Point Dume	12.07	12.04	13.71	14.81	14.36	16.27	18.36	17.01	16.80	16.94	16.53	15.61	15.38
Santa Monica	12.28	12.13	15.13	17.39	17.57	18.29	20.75	20.16	19.31	18.69	16.98	16.18	17.07
Balboa	12.75	12.85	14.31	16.87	17.26	18.24	20.29	19.13	18.31	18.12	17.57	16.79	16.87
San Clemente	12.91	13.21	14.94	17.58	17.51	18.38	20.28	20.35	19.16	18.42	17.74	16.07	17.21
La Jolla	12.78	13.12	14.62	17.58	17.49	18.34	20.13	21.01	19.28	18.91	17.08	15.80	17.18

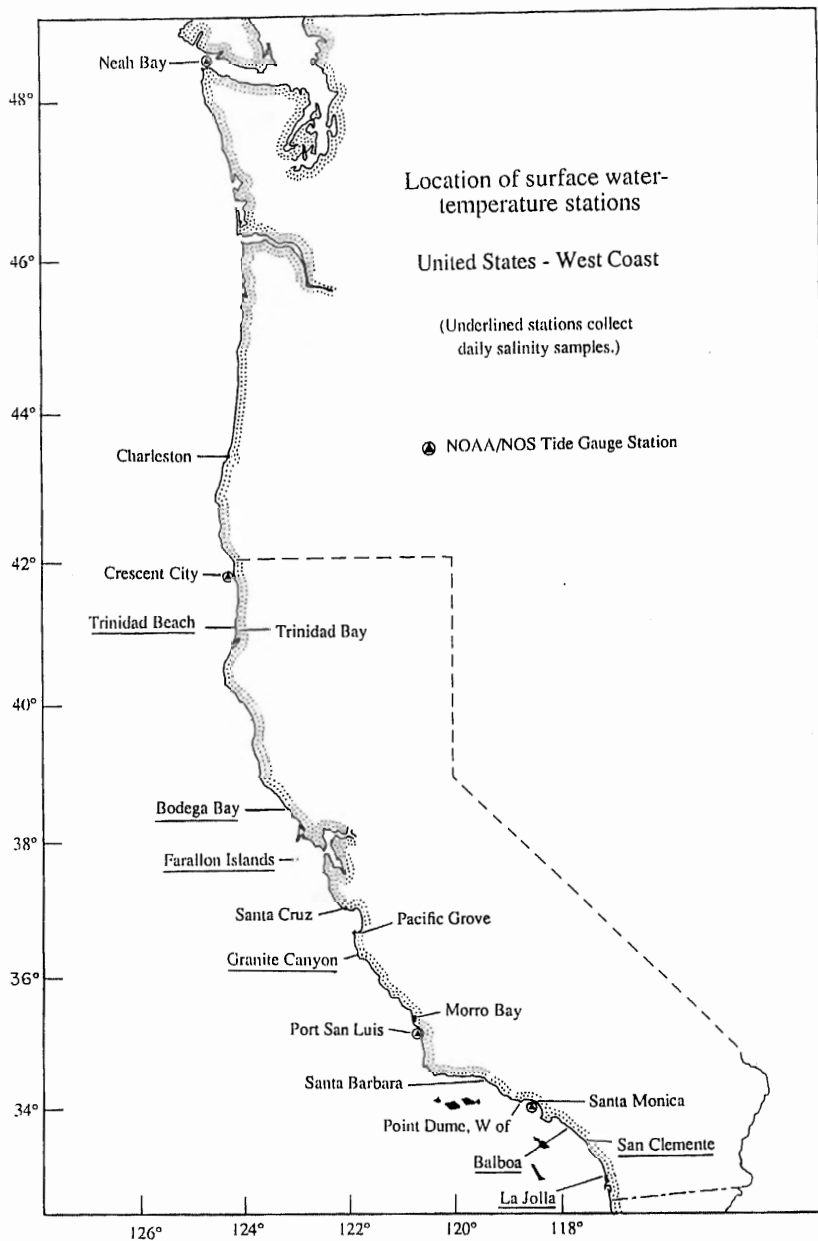
1989 COASTAL SEA-SURFACE TEMPERATURE

ANOMALIES

Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Neah Bay 1935-89	0.44	-2.15	-0.53	1.02	1.22	1.20	1.22	0.52	0.20	0.36	0.73	0.72	0.41
Charleston 1966-89	-0.50	-1.63	-0.79	0.47	0.21	-0.28	0.72	0.05	-0.92	0.17	-0.18	-0.10	(-0.23)
Crescent City 1933-89	-0.45	-0.51	0.41	2.25	1.51	1.12	0.85	1.24	0.96	0.96	0.42	0.70	0.79
Trinidad Beach 1975-89	-1.48	-1.60	-0.59	1.32	0.55	-0.28	-0.01	0.51	0.71	0.03	-0.42	0.85	(-0.04)
Bodega Bay 1957-89	-1.08	-1.52	-0.56	1.23	0.74	0.24	-0.97	0.15	1.19	-0.04	-0.36	-0.08	-0.09
Farallon Islands 1925-43, 55-89	-0.85	-1.31	-0.16	1.06	0.26	-0.50	-0.35	0.33	0.61	-0.05	-0.09	0.62	-0.04
Santa Cruz 1955-71, 80-89	-1.04	-1.28	0.00	0.98	0.59	0.17	0.00	-0.04	0.16	0.01	0.40	0.66	(0.05)
Pacific Grove 1919-89	-1.14	-1.19	-0.08	0.72	0.35	0.05	-0.61	0.04	-0.34	-0.34	-0.05	0.75	-0.15
Granite Canyon 1971-89	-1.35	-1.26	-0.32	0.96	0.07	0.15	-0.88	0.18	-0.56	-0.10	0.22	1.13	(-0.14)
Morro Bay 1962-89	-1.91	-0.92	-0.37	0.67	0.08	-0.03	-0.02	0.01	-0.57	-0.31	-0.32	0.15	(-0.29)
Port San Luis* 1945-89	-1.99	-1.78	-1.04	0.21	-1.26	-0.94	-0.26	-1.06	-0.38	-0.36	0.00	0.77	-0.68
Santa Barbara 1955-89	-1.80	-1.56	0.39	0.52	0.30	0.80	0.64	-0.20	-1.27	-0.26	0.34	1.17	-0.07
Point Dume 1957-89	-1.90	-1.75	-0.18	0.56	-0.39	0.10	0.94	-1.48	-1.31	-0.47	0.48	0.96	-0.37
Santa Monica 1946-89	-1.44	-1.79	0.90	2.41	1.56	0.59	1.43	0.18	0.00	0.82	1.06	1.73	0.62
Balboa 1925-89	-1.33	-1.19	-0.02	1.85	1.09	0.66	1.66	-0.13	-0.26	0.26	1.29	1.81	0.47
San Clemente* 1955-89	-0.92	-0.90	0.52	2.22	0.95	0.45	1.07	0.45	-0.09	0.18	1.48	1.58	0.58
La Jolla 1916-89	-1.28	-0.91	0.10	2.11	0.53	-0.08	0.22	0.27	-0.16	0.88	0.79	0.92	0.28

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

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



DAYS	NEAH BAY	TEMPERATURE												YEAR 1989	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	7.8			6.4	8.6	12.2	15.0	11.4	11.9	11.7	10.3	10.6	9.4		
2	7.8		2.8	5.0	8.3	12.8	15.0	11.7	11.7	10.3	11.7	10.8			
3	8.3		1.7	5.6	8.9	14.2		12.8	11.1	11.1	11.7	10.6	9.4		
4	8.3		1.7	6.1	7.5	15.3	14.4	12.8	11.9	11.1	10.3	10.8	10.6		
5	8.3		1.7	6.1	8.9	12.8	10.8	13.6	12.2	12.5	10.6	10.6	11.1		
6	7.8		3.3	6.7	9.4	11.1	12.8	13.9	11.1	14.2		10.6	11.1		
7	8.1		4.4	6.7		11.7	11.7	13.3	13.1			10.6			
8	6.7		4.4	6.9		11.4	11.4	12.8	12.5			10.8	9.4		
9	7.8		4.4	7.9		11.7	13.3	13.3	13.4	12.5	11.7	10.6			
10	6.2		5.6	7.2		10.1	12.2	13.9	13.9	13.1	11.1	10.6	9.4		
11	8.1		6.1	7.5	9.4	10.6						10.8			
12	7.8		6.1	11.7	10.6	12.8	12.8	12.8	13.6	12.2	10.6	10.8	7.2		
13	6.9		6.4	8.6	11.7	14.4	14.4	13.6		12.8	10.8	11.1	8.1		
14	8.3		6.7	7.5	10.0	11.7	12.2	13.6	12.5	12.8	11.1	10.6	8.6		
15	7.8		5.8	7.5	9.4	10.8	12.2		12.8	10.6	10.6	10.6	8.3		
16	7.8		2.8		10.8	11.1	11.9		12.6	10.6	10.6	10.6	8.1		
17	8.1		5.6	7.8	11.4	10.8	13.3	13.9	13.6	10.8	10.3	9.7	8.3		
18	8.3		6.1	9.4		10.8	13.3	14.2	13.6	10.3	10.6	9.4	7.8		
19	8.3			8.6	11.7	11.7	13.3	13.1	11.1	11.1	10.0	9.4	8.9		
20				10.3	12.2	13.3	15.3	12.2	11.1	12.5	10.3	9.7	8.3		
21	7.5		6.9	7.8	10.0	11.7	15.3	12.2	11.9	11.4	11.1	9.7	8.3		
22	7.8		6.7	8.1	12.2	11.1	12.2	12.8	11.9	11.1	11.7	9.4	9.2		
23	6.7		7.8	8.3	10.6	11.4	12.2	12.8	13.6	11.1	11.7	9.4	9.2		
24	7.5		7.8	7.8	11.7	11.1	12.5	12.5	12.2	11.1	11.9	9.4	8.6		
25	7.2		7.2	8.3	12.2	11.7	12.8	12.2	11.7	11.1	11.9	9.4	8.9		
26	7.5			8.3	12.2	11.7	12.8	12.2	12.2	11.1	11.7	9.4	8.9		
27	7.8			8.6	12.8	11.4	12.5	13.3	12.2	11.4	11.7	9.4	8.9		
28	7.2			8.3	13.6	13.6	11.9	12.2	11.1	10.8	11.7	9.4	8.9		
29				6.3									9.2		
30															
31															
1-10 MEANS	7.81	3.33		6.39	8.71	12.37	12.85	12.89	12.08	12.06	10.95	10.72	10.06		
SAMPLE SIZE	10	9		9	7	10	8	10	10	8	6	9	7		
11-20 MEANS	7.97	5.69		8.17	10.35	11.33	12.59	13.58	12.79	11.33	10.58	10.20	8.16		
SAMPLE SIZE	10	9		7	8	9	8	6	7	8	9	8	9		
21-31 MEANS	7.44	7.10		8.22	11.37	11.78	12.78	12.64	11.72	11.38	11.36	9.53	8.79		
SAMPLE SIZE	7	7		10	9	10	8	7	10	9	10	7	11		
MONTHLY MEANS	7.76	5.24		7.57	10.25	11.84	12.74	13.00	12.13	11.58	10.98	10.20	8.91		
SAMPLE SIZE	28	23		26	24	29	24	23	27	25	25	24	27		
MAXIMUM VALUE	8.3	7.8		9.4	12.8	15.3	15.3	14.2	13.9	14.2	11.9	11.1	11.1		
MINIMUM VALUE	6.7	1.7		5.0	7.5	10.6	10.8	11.4	10.3	10.0	10.0	9.4	7.2		
RANGE	1.6	6.1		4.4	5.3	4.7	4.5	2.8	3.6	4.2	1.9	1.7	3.9		
STANDARD DEV.	0.48	1.90		1.05	1.43	1.09	1.24	0.73	0.94	1.02	0.58	0.63	0.92		
ANNUAL MIN	1.7				ANNUAL MEAN	10.18			ANNUAL MAX						
														15.3	

YEAR 1989

TEMPERATURE

CHARLESTON, OR.

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		8.1		10.2	11.9		13.9	10.8		12.2	11.5	
2		8.3	8.2	10.0	12.0			13.8		12.8	11.3	
3	9.4	5.5		10.0	11.9			14.9		12.8		12.1
4	9.6	6.8	8.8	10.3	12.6	10.8	16.2			12.6	11.5	11.8
5	9.5		8.8	10.8		10.4	12.4				11.1	11.6
6	9.8		8.4	10.9	13.8	10.3		12.8	10.2		11.2	
7	9.6	8.0	8.4	11.0	12.2	11.3		12.1		11.3	11.1	
8	9.7	8.1	9.6	11.3	11.3	13.2	14.4	12.2		11.6	11.2	
9	9.8	9.0	9.8	11.2			13.9	11.5	11.0			10.7
10	10.0	8.5	10.5	11.5	11.0	9.9	12.0		10.6		11.6	10.3
11	10.2	7.9	9.8			10.4	14.6	11.9	10.6		11.1	10.1
12	9.3		9.6	10.6	11.1	10.6	12.8	12.2	11.3		11.1	10.1
13		8.2	9.4	10.7	11.1	11.6		12.5		11.2	11.0	
14	9.4	8.5	9.4	10.0	11.0		13.1	12.0	11.2	11.3		9.5
15	9.4	8.8	10.0	10.6	11.8	13.0	16.4		11.9		10.9	9.2
16	9.4	8.8	10.5	11.7		13.4	15.1	10.4	12.3		10.6	9.0
17	9.4	8.8	10.2	11.2	10.2	14.5		10.3	11.7		10.4	9.0
18	9.4	8.8				14.6		11.9		11.2	10.2	8.8
19	9.5	8.8	10.3			14.2	12.5	14.3				
20	9.4	8.8	10.0	11.7			12.5	14.0	11.4			
21	9.4	8.8	10.0	11.7	11.9	11.6	11.9		11.8			9.1
22	9.2	8.8	10.9	11.9		12.9	11.1	12.9	11.9		12.1	9.3
23	8.8	8.5	11.0	12.1	11.7	11.5	11.1	11.3	11.9		11.6	9.4
24	8.9	9.3	10.0	12.6			12.1			11.5	12.1	
25	9.1	10.2	10.2	14.4	11.7		11.4			11.7	12.1	
26	9.1	10.1	10.1	11.7	12.1		12.1			11.5	11.6	
27	9.1	10.2	10.2	11.7	11.7		11.4			11.7	12.1	
28	8.8											
29												
30												
31	8.4		10.2									
1-10 MEANS SAMPLE SIZE	9.63 8	7.74 8	8.80 8	10.63 9	12.24 7	11.20 5	14.16 5	12.52 8	10.60 2	12.13 7	11.27 7	11.72 6
11-20 MEANS SAMPLE SIZE	9.53 9	8.46 9	9.88 10	10.90 7	11.15 6	11.74 8	14.00 6	11.75 6	11.38 8	11.25 2	11.06 7	9.69 8
21-31 MEANS SAMPLE SIZE	9.02 10	9.00 6	10.25 10	12.33 7	11.52 5	12.96 5	11.67 7	12.45 6	11.73 6	11.46 8	11.38 6	9.15 4
MONTHLY MEANS SAMPLE SIZE	9.37 27	8.35 23	9.70 28	11.23 23	11.68 18	11.93 18	13.14 18	12.27 20	11.41 16	11.71 17	11.23 20	10.24 18
MAXIMUM VALUE	10.2	9.8	11.0	14.4	13.8	14.6	16.4	14.9	12.3	12.8	12.1	12.2
MINIMUM VALUE	8.4	5.5	8.2	10.0	10.2	9.9	11.1	10.3	10.2	11.2	10.2	8.8
RANGE	1.8	4.3	2.8	4.4	3.6	4.7	5.3	4.6	2.1	1.6	1.9	3.4
STANDARD DEV.	0.39	0.85	0.75	1.00	0.79	1.57	1.67	1.24	0.58	0.55	0.50	1.19
ANNUAL MIN	5.5			ANNUAL MEAN	11.02			ANNUAL MAX	16.4			

DAYS	CRESCENT CITY					TEMPERATURE					YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	8.9	8.9	9.4	10.8	13.9	13.9	12.8	17.8	14.4	14.4	12.2	11.1		
2	8.9	8.9	9.4	10.8	13.9	13.9	12.8	17.8	14.4	14.4	12.2	11.1		
3	8.9	8.9	10.6	12.8	14.4	14.4	16.1	17.2	13.9	13.9	11.7	11.1		
4	10.0	8.3	10.6	12.8	14.4	14.4	15.0	13.9	13.3	13.3	13.1	11.7		
5	8.9	9.2	10.0	12.8	15.6	15.0	13.9	15.0	15.0	13.3	12.1	12.2		
6	8.9	7.8	12.2	12.8	15.0	15.0	15.6	16.7	14.4	13.9	12.1	12.2		
7	8.3	8.3	13.3	13.3	15.6	14.4	15.6	16.7	13.9	14.4	11.7	11.7		
8	8.9	8.3	11.1	15.6	12.2	15.6	13.3	17.8	13.9	13.9	11.7	11.7		
9	9.4	7.8	11.4	12.2	12.2	15.6	13.3	16.7	14.4	13.9	12.2	11.1		
10	9.4	8.9	10.0	13.3	12.2	14.4	15.0	17.8	15.0	13.9	12.2	11.1		
11	8.6	10.0	11.1	13.3	12.8	14.4	17.2	16.1	15.6	13.9	12.2	11.1		
12	8.3	9.4	11.1	13.3	13.3	14.4	16.1	15.6	15.0	13.9	12.8	10.6		
13	9.4	9.4	10.6	13.3	12.2	13.9	16.1	15.6	15.0	13.9	11.7	11.1		
14	10.0	10.6	11.4	13.3	11.1	14.4	17.8	15.0	15.0	13.9	12.2	10.6		
15	9.4	11.1	11.0	13.3	11.1	12.2	12.8	15.6	14.4	13.9	12.2	10.6		
16	10.6	11.1	10.2	12.2	12.2	11.1	11.7	16.7	14.4	13.3	11.7	10.6		
17	9.4	10.6	11.1	12.2	11.7	11.7	13.3	13.3	14.4	13.3	11.7	10.6		
18	10.6	11.1	10.4	13.9	12.8	12.2	13.0	13.3	15.0	13.3	11.1	10.6		
19	10.3	10.0	10.4	15.0	12.8	13.3	14.4	15.6	15.6	12.2	11.1	10.6		
20	10.6	10.6	10.8	14.4	13.9	14.4	15.0	13.9	15.6	12.2	11.1	10.6		
21	10.0	8.46	10.75	12.70	14.53	14.76	14.39	16.44	14.15	13.87	12.06	11.67		
22	9.18	9.90	10.96	13.22	12.21	14.19	15.47	16.26	14.87	13.90	12.07	10.85		
23	10.01	10.64	11.01	13.45	12.79	12.37	14.03	14.65	14.91	12.69	11.27	10.59		
24	9.45	9.66	10.90	13.13	13.18	13.77	14.59	15.76	14.69	13.47	11.81	11.06		
25	10.6	11.1	12.8	15.6	15.6	15.6	17.8	17.8	15.6	14.4	13.1	12.2		
26	8.3	7.8	9.4	10.8	11.1	11.1	11.7	13.3	13.3	11.7	11.1	10.0		
27	2.3	3.3	3.4	4.8	4.5	4.5	6.1	4.5	2.3	2.7	2.0	2.2		
28	0.70	1.12	0.84	1.20	1.32	1.39	1.61	1.45	0.58	0.74	0.57	0.58		
29	ANNUAL MEAN					12.62	ANNUAL MAX					17.8		
30	ANNUAL MIN					7.8	ANNUAL MEAN					17.8		
31	ANNUAL MEAN					12.62	ANNUAL MAX					17.8		

DAYS	TRINIDAD BAY				TEMPERATURE				YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		8.7	9.5	9.9	13.0	10.8		12.9	13.7	14.2	13.0	11.5
2		7.3	9.0	10.3	12.9	10.9		13.9		14.1	12.6	11.2
3		7.9	9.6	12.1	14.2		13.2			13.2	12.1	12.0
4		8.8	8.8	11.0	14.8			12.6		12.0	12.8	12.8
5		5.4	9.6	12.0	14.1	12.6	11.2		12.7	12.9	12.9	12.9
6		7.3	10.8	13.5	13.9	11.5	11.3	14.6	12.9	12.0	13.0	12.8
7		6.7	11.0	11.9	12.5	10.8		14.5	13.0	12.1	13.0	12.9
8		7.9	10.5		11.2	10.6		14.2	12.9	14.0	13.0	12.4
9		7.8	10.3	12.8			10.4	13.8	14.2	12.9	11.6	12.4
10		8.2	9.8	10.6			10.2	13.4	12.9	12.9	11.0	
11		8.5	10.9	11.0	9.6	10.7	10.2			13.0	11.2	11.4
12		8.7	11.8	12.9	10.6	10.9	10.5	12.9	13.9	12.7	11.6	
13		9.0	12.0	11.2	10.6	12.2	10.6	12.4	13.8	12.2	10.9	11.1
14		8.7	12.8	11.1	10.4	11.9		12.0	15.1	12.1	11.8	
15		9.0	10.6	11.2	10.1	10.3	14.3	12.2	14.0	12.4	10.8	
16		9.1	10.3	12.3	9.4		12.3	12.4	13.9	12.3	11.6	
17	9.0	9.3	10.4	13.0	9.1	11.0	11.0		14.3	12.2	11.9	10.9
18	9.5	9.2	10.3	13.2	9.0				13.8	12.7	10.8	11.1
19	9.3	10.3	11.4	12.7				14.3	13.7	12.9	11.3	
20	8.8	10.5	10.3	11.2	9.7				12.4	12.5	11.8	11.0
21	9.0	10.1	10.9	11.8	10.5		12.4	13.7	13.8	12.2	10.9	
22	8.5	10.3	10.9	12.0	11.9		13.0	12.1	14.8	12.2	11.8	11.0
23	8.4	9.9	10.9	13.1	10.7	10.9	11.8	13.5	14.6	12.3	10.9	
24	9.1	9.7	10.9	12.9		11.6	11.3		14.6	12.0		
25	8.0	9.8	11.0	14.0				13.8	14.0	11.5	11.0	11.4
26	9.1	10.0	11.5	12.0	11.0	12.3	12.0	14.0	14.5	12.4	10.8	
27	8.9	10.2	10.2	13.1	10.9			13.6				
28	10.0											
29	10.0											
30	10.0											
31	10.0											
1-10 MEANS SAMPLE SIZE		7.47 9	9.89 10	11.57 9	13.32 8	11.06 7	11.53 4	13.79 7	13.07 7	12.91 9	12.39 8	12.39 9
11-20 MEANS SAMPLE SIZE	9.28 4	8.99 10	11.11 10	12.11 10	9.66 7	11.17 6	11.60 8	12.55 6	13.90 9	12.52 9	11.46 10	11.13 3
21-31 MEANS SAMPLE SIZE	8.97 11	10.06 7	10.84 8	12.40 10	10.74 8	11.43 4	12.13 6	13.57 7	14.05 10	12.32 9	11.11 7	11.17 3
MONTHLY MEANS SAMPLE SIZE	9.05 15	8.75 26	10.60 28	12.04 29	11.31 23	11.18 17	11.76 18	13.34 20	13.73 26	12.59 27	11.66 25	11.89 15
MAXIMUM VALUE	10.0	10.5	12.8	14.0	14.8	12.6	14.3	14.6	15.1	14.2	13.0	13.0
MINIMUM VALUE	8.0	5.4	8.8	9.9	9.0	10.2	10.2	12.0	12.1	11.5	10.7	10.9
RANGE	2.0	5.1	4.0	4.1	5.8	2.4	4.1	2.6	3.0	2.7	2.3	2.1
STANDARD DEV.	0.54	1.24	0.92	1.07	1.76	0.71	1.16	0.84	0.74	0.67	0.76	0.82
ANNUAL MIN					ANNUAL MEAN	11.49			ANNUAL MAX		15.1	
	5.4											

DAYS	TRINIDAD BEACH					TEMPERATURE				YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1		8.8	9.0	10.1	13.6	10.6		12.9	13.0	14.5	12.4	11.4	
2		7.5	8.9	10.7	12.6	10.8		14.9		13.4	11.8	11.6	
3		8.8	10.0	13.4	14.1		13.7			13.4	11.9	12.9	
4		8.4	8.4	11.5	13.7			12.7		13.2	12.0	12.9	
5		7.8	8.5	12.3	13.5	13.2	13.4		12.3	11.9	12.1	12.7	
6		8.0	10.0	11.7	12.0	10.9	11.2	13.8	11.5	12.2	12.4	13.0	
7		7.9	10.3		11.0	10.3		13.3	12.8	13.1	12.0	12.9	
8		8.0	10.9	11.7		10.0	10.9	13.4	13.0		11.2		
9		8.9	10.9	12.4			10.8	13.0	13.0	12.7	11.0	11.4	
10		9.5	10.5	12.0	11.9	11.0	10.8		14.0	12.8	11.0		
11		8.5	10.4	12.0	10.2	10.8	11.1		13.3	12.2	11.6		
12		10.0	12.0	11.0	10.2	11.3	11.9	12.7	13.3	12.0			
13		9.1	11.4	11.0	10.3	10.7		12.2	13.4	12.0	11.1	11.3	
14		9.1	12.0	11.0	10.2		13.7	11.4	12.9	13.1	11.4		
15		9.0	9.9	10.6	9.9		13.3	12.6	12.9	12.9	11.2		
16	9.1	9.0	10.3	13.3	9.8		13.3		13.1	11.7	11.9		
17	9.9	9.1	10.6	12.6	9.8		13.1		12.7	11.8	11.2	11.4	
18	9.8	9.2	10.6	14.0	11.0	12.2			12.0	12.3	11.6		
19		10.2	11.0	13.0					13.0	12.1	10.7	11.8	
20		10.0	10.0	11.5	9.8			13.2		12.2			
21	9.4	10.0		11.7					13.0		11.7		
22	8.7	10.4		12.0	11.1		12.3	12.7	13.0	12.4			
23	8.8	10.5	11.2	13.0	10.9		12.7	11.2	13.7	12.0	11.0	11.6	
24	9.8	11.4	10.1	13.5	10.9		12.1		14.1	12.3	11.3		
25	9.1	11.4	11.0	13.2		11.1	12.1		14.0	12.0			
26	8.9	10.1	11.0	15.0	10.8		11.1	12.9	13.7	11.8	10.8	11.7	
27			12.5	11.8	11.3	12.4		12.8	14.1	12.3	10.9		
28			10.8	12.2	10.8		11.8	14.7					
29			12.0										
30	10.3												
31	10.1												
1-10 MEANS		8.14	9.81	11.89	12.96	10.99	12.30	13.47	12.63	12.80	11.98	12.54	
SAMPLE SIZE		9	10	9	8	7	4	7	7	9	8	9	
11-20 MEANS		9.26	10.87	11.87	10.47	11.22	12.11	12.28	13.26	12.36	11.37	11.37	
SAMPLE SIZE		3	10	10	7	6	7	6	9	9	9	3	
21-31 MEANS		9.27	10.34	11.08	10.94	11.43	12.00	13.11	13.46	12.16	11.14	11.70	
SAMPLE SIZE		10	7	8	8	3	6	7	10	9	7	3	
MONTHLY MEANS		9.35	9.17	10.55	12.11	11.47	12.12	12.99	13.17	12.44	11.50	12.14	
SAMPLE SIZE		13	26	28	29	23	16	20	26	27	24	15	
MAXIMUM VALUE		10.3	11.0	12.5	15.0	14.2	13.2	14.9	14.1	14.5	12.4	13.2	
MINIMUM VALUE		8.7	7.5	8.9	10.1	9.8	10.0	11.2	11.5	11.7	10.7	11.3	
RANGE		1.6	3.5	3.6	4.9	4.4	3.2	3.7	2.6	2.8	1.7	1.9	
STANDARD DEV.		0.53	0.99	0.92	1.17	1.38	0.81	0.96	0.68	0.66	0.50	0.73	
ANNUAL MIN													
ANNUAL MEAN													
ANNUAL MAX													
		7.5				11.51					15.0		

DAYS	TRINIDAD BEACH					SALINITY					YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	33.41	33.27	30.59	31.81	33.67	33.75	33.97	33.44	33.11	32.91				
2	33.37	32.71	28.63	32.25	33.69	33.71		33.54	32.74	32.76				
3	33.03	33.01	29.46	31.53	33.69	33.64		33.54	32.85	32.78				
4	33.07	32.94	31.89	31.89	33.39	33.68		33.68	33.61	32.73				
5	33.27	32.94	30.52	31.89	33.39	33.68		33.68	33.09	32.73				
6	33.16	33.08	30.36	31.68	33.48	33.67		33.67	33.28	32.64				
7	33.19	33.31	30.81	32.57	33.46	33.62		33.62	33.63	32.67				
8	32.89	29.14	30.81	32.57	33.61	33.67		33.67	33.33	32.57				
9	32.67	28.77	31.87	32.76	33.65	33.71		33.71	33.68	32.71				
10	33.12	30.83	32.04		33.79	33.83		33.83	33.52	33.71				
11	33.23	28.79	33.05		33.79	33.79		33.79	33.52	33.71				
12	33.26	27.83	32.85		33.60	33.86		33.86	33.47	33.10				
13	33.15	27.55	32.78		33.56	33.87		33.87	33.36					
14	33.33	28.80	32.23		33.67	33.78		33.78	33.63					
15	33.26	27.26	32.12		33.39	33.60		33.60	33.77					
16	32.91	29.78	32.72		33.57	33.91		33.91	33.62					
17	32.33	30.95	32.44		33.62	33.73		33.73	33.57					
18	32.75	32.98	31.37		33.66	33.76		33.76	33.51					
19	32.83	32.48	32.29		33.59	33.73		33.73	33.65					
20	32.28	29.56	31.29		33.59	33.66		33.66	33.67					
21	32.07	32.33	32.24		33.73	33.73		33.73	33.63					
22	32.39	32.25	31.94		33.73	33.73		33.73	33.58					
23	32.68	32.34	30.85		33.00	33.73		33.73	33.54					
24	32.92	33.39	31.89		33.39	33.78		33.78	33.45					
25	33.37	33.24	31.90		33.18	33.78		33.78	33.32					
26	32.82	33.02	30.76		33.43	33.71		33.71	33.32					
27	32.56	33.17	32.20		33.85	33.77		33.77	33.14					
28	32.67	33.25	32.17		33.81	34.16		34.16	33.25					
29	33.10	29.19	32.41		33.38	33.80		33.80	33.50					
30	33.21	29.32	32.33		33.61	33.73		33.73	33.36					
31	33.21	28.85	32.33		33.58	33.72		33.72	33.39					
1-10 MEANS	33.12	31.47	30.48	32.06	33.56	33.69	33.78	33.80	33.61	33.16	33.16	32.74		
SAMPLE SIZE	9	10	9	8	7	4	7	7	9	8	9	9		
11-20 MEANS	32.44	28.66	32.26	33.54	33.62	33.79	33.95	33.71	33.64	33.42	33.07	33.07		
SAMPLE SIZE	4	10	10	7	6	7	6	9	9	9	3	3		
21-31 MEANS	32.82	29.86	31.92	33.41	33.79	33.80	33.79	33.53	33.03	33.27	33.16	33.16		
SAMPLE SIZE	11	8	10	8	3	6	6	10	9	7	3	3		
MONTHLY MEANS	32.72	30.01	31.59	32.98	33.65	33.77	33.83	33.67	33.43	33.29	32.89	32.89		
SAMPLE SIZE	15	25	29	23	16	17	20	26	27	24	15	15		
MAXIMUM VALUE	33.37	33.41	33.57	33.05	33.73	33.91	34.16	34.12	33.97	33.81	33.61	33.27		
MINIMUM VALUE	31.88	26.69	28.63	31.59	33.39	33.62	33.69	33.36	31.96	32.74	32.57	32.57		
RANGE	1.49	1.16	6.88	4.42	2.14	0.54	0.43	0.61	1.85	0.87	0.70	0.70		
STANDARD DEV.	0.43	0.36	1.97	1.08	0.74	0.14	0.12	0.13	0.15	0.43	0.22	0.21		
ANNUAL MIN	26.69			ANNUAL MEAN	32.90			ANNUAL MAX	34.16					

DAYS	TRINIDAD BEACH					SIGMA T				YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1		25.90	25.76	23.49	23.80	25.81		25.44	25.60	24.88	25.05	25.08	
2		26.07	25.34	21.87	24.34	25.79		25.00		25.08	24.87	24.82	
3		25.61	23.40	22.75	24.50		25.20			25.32	24.94	24.72	
4			25.01	22.98	23.85					25.54	25.11	24.60	
5		25.94	23.81	22.92	23.72	25.57			25.62	25.57	25.24	24.66	
6		25.89	23.81	22.92	23.72	25.59			25.74	25.49	25.22	24.57	
7		25.85	22.54	23.39	24.70	25.82			25.43	25.54	25.30	24.64	
8		25.63	22.33		25.03	25.90			25.37	25.41	25.59	24.64	
9		25.44	22.09	24.21			25.88		25.41	25.30	25.54		
10		25.66	23.55	24.22			25.85		25.52	25.34	25.56		
11		25.65	20.47	25.40			25.92		25.21	25.33	25.58	25.22	
12		25.52	21.30	24.92	25.36	25.69	25.92		25.21	25.49	25.39		
13		25.51	20.81	25.05	25.79	25.69	25.88		25.21	25.67			
14		25.81	21.88	24.62	25.79	25.69	25.66		25.77	25.67	25.61	25.20	
15		25.74	20.59	24.53	25.64	25.63			25.66	25.52			
16		25.48	22.90	25.07	25.80	25.98			25.82	25.34			
17	24.66	25.73	23.74	24.35	25.89		25.27		25.55	25.27	25.37		
18	25.21	25.52	24.02	24.37	25.94		25.37		25.22	25.37	25.30		
19	25.29	25.11	22.61	23.32	25.68	25.51	25.39		25.33	25.59	25.40	25.20	
20		24.83	20.31	23.18					25.47	25.43	25.43	25.13	
21		24.87	24.35	24.35	25.99				25.39	25.35			
22		24.81	24.56	24.00	25.20				25.29	25.35	25.34		
23		23.95		23.12	25.24		25.55		25.51	25.10			
24		25.52		24.18	25.21		25.44		25.81	25.10			
25		25.76		23.75	25.57		25.45		25.01	24.23	25.33	25.23	
26		25.34	23.63	23.15	25.21		25.45		25.03	25.05			
27		25.19	22.60	24.19		25.86	26.10		25.45	24.98	25.40	25.30	
28		25.31	22.57	23.79		25.88		25.45	24.98	25.25			
29		25.62	21.99	24.62	25.46	25.52		25.04	24.92	25.08	25.22		
30		25.50	22.39	24.48	25.85		25.59	25.27					
31		25.54	21.82		25.71								
1-10 MEANS		25.78	24.22	23.09	24.12	25.66	25.51	25.35	25.53	25.35	25.17	24.73	
SAMPLE SIZE		9	10	9	8	7	4	7	7	9	8	9	
11-20 MEANS	25.05	25.49	21.86	24.48	25.73	25.71	25.62	25.72	25.35	25.46	25.48	25.21	
SAMPLE SIZE	3	10	10	10	7	6	7	6	9	9	9	3	
21-31 MEANS	25.42	25.12	22.76	24.10	25.57	25.76	25.66	25.43	25.16	25.03	25.40	25.22	
SAMPLE SIZE	10	6	8	10	8	3	6	7	10	9	7	3	
MONTHLY MEANS	25.34	25.51	22.96	23.92	25.11	25.70	25.61	25.49	25.32	25.28	25.35	24.92	
SAMPLE SIZE	13	25	28	29	23	16	17	20	26	27	24	15	
MAXIMUM VALUE	25.76	26.07	26.01	25.40	25.99	25.98	26.10	25.82	25.74	25.67	25.75	25.30	
MINIMUM VALUE	24.66	24.81	20.31	21.87	23.51	25.11	25.20	25.00	24.92	24.23	24.87	24.49	
RANGE	1.10	1.26	5.70	3.53	2.48	0.87	0.90	0.82	0.81	1.44	0.87	0.81	
STANDARD DEV.	0.28	0.37	1.64	0.87	0.82	0.21	0.26	0.24	0.21	0.34	0.22	0.29	
ANNUAL MIN	20.31			ANNUAL MEAN		25.04			ANNUAL MAX		26.10		

DAYS	BODEGA BAY					TEMPERATURE				YEAR 1989		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10.1	9.7			12.9	9.8		9.7	14.3		12.3	12.1
2	9.9	9.9		10.6	11.7		10.8	9.6		12.1		
3	10.0			10.4	10.9			9.8		12.9		
4	10.2			10.5		11.1	9.6	10.7			12.1	
5	9.9	9.5	10.0	10.4		11.4	9.8		14.9			
6		8.5	10.1	10.8	10.8	11.8			14.4	12.3		
7		8.5	10.4		10.7	10.8			14.9	12.2		
8		8.8	10.4		10.3			13.0		11.5		
9	10.1			10.8	10.4	10.6	10.6	12.2	12.3			
10		8.8		10.0	9.5			10.5	13.5			
11				10.4		9.7	11.0		12.8			11.3
12		10.1	10.9	11.3		9.7			13.0			11.0
13		9.6	10.3			9.4	10.1	10.8	12.6			11.0
14	10.0	9.8			10.4	9.4		11.1	13.0			11.2
15		10.1			10.7			11.1	12.9	11.8		
16		10.1	10.7		10.5			13.0		11.9		
17	9.7			12.2	11.2			12.9	14.2	12.2		
18	9.9	10.3	11.1	12.4		10.1		13.8	13.0			12.2
19	10.0					11.2	11.2	14.6	13.5	12.0		11.6
20		10.7		13.0				14.1	14.3	12.2		11.8
21		10.4		13.0	10.1			13.0	13.9	12.4		11.2
22		10.5				11.8		14.8				
23	10.1					12.0			14.6			
24	10.0			13.2		13.6		14.2		12.8		11.0
25	10.1	9.9				13.2		13.0	14.7	11.7		11.0
26	10.2	9.7										
27												
28												
29												
30												
31	10.2											
1-10 MEANS SAMPLE SIZE	9.98 5	9.25 8	10.08 6	10.58 6	11.23 6	10.87 6	10.20 4	11.03 7	14.63 4	12.70 4	12.07 4	12.37 3
11-20 MEANS SAMPLE SIZE	9.90 5	10.00 6	10.75 4	11.22 5	10.45 5	9.55 4	10.55 2	11.57 6	13.15 7	12.56 5	11.98 4	11.30 8
21-31 MEANS SAMPLE SIZE	10.10 6	10.24 5		12.96 5	10.10 1	12.01 7	11.20 1	14.20 7	14.10 6		12.02 5	11.25 4
MONTHLY MEANS SAMPLE SIZE	10.00 16	9.75 19	10.35 10	11.53 16	10.82 12	11.03 17	10.44 7	12.30 20	13.84 17	12.62 9	12.02 13	11.50 19
MAXIMUM VALUE	10.2	10.7	11.1	13.2	12.9	13.6	11.2	14.8	14.9	13.5	12.8	12.9
MINIMUM VALUE	9.7	8.5	9.7	10.0	9.5	9.4	9.6	9.6	12.6	11.7	11.0	11.0
RANGE	0.5	2.2	1.4	3.2	3.4	4.2	1.6	5.2	2.3	1.8	1.8	1.9
STANDARD DEV.	0.15	0.66	0.45	1.18	0.85	1.29	0.62	1.78	0.79	0.57	0.45	0.59
ANNUAL MIN	8.5					11.35	ANNUAL MAX			14.9		

DAYS	BODEGA BAY					SALINITY					YEAR 1989		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1		33.49	33.06		33.02			33.99	33.84		33.39	33.39	
2		33.53			33.30			33.99		33.75			
3	33.18	33.54	33.07		33.16		34.01	33.89		33.73			
4	33.40							33.88				33.43	
5	33.39												
6	33.56	33.41	33.08				33.98		33.73		33.46		
7		33.41	32.91				33.96		33.69		33.57		
8		33.66	32.82		33.70			33.84	33.75		33.53		
9		33.52	32.55		33.41			33.60	33.75				
10	33.58	33.53			33.90		33.96	33.61	33.74				
11					33.81			33.98	33.92				
12												33.38	
13		33.45	32.93						33.76			33.49	
14	33.49	33.74	33.10					33.84	33.69				
15		32.95			33.87		33.92	33.92	33.75				
16		33.40			33.76		33.95	34.05	33.72				
17	33.49	33.39	33.07		33.79		33.99	33.99	33.75		33.59	33.45	
18					33.81			33.68	33.62		33.54	33.52	
19	33.43								33.62		33.70	33.42	
20	33.63	33.32	33.33						33.84			33.42	
21									33.42			33.45	
22		33.49							33.66		33.58		
23	33.88	33.42						33.62	33.62		33.57	33.45	
24	33.51	33.46			33.79			33.61	33.54		33.83	33.46	
25	33.18												
26	33.52												
27	33.50	33.56											
28		33.53											
29													
30	33.39							33.73	33.69		33.51	33.51	
31								33.94			33.60	33.67	
1-10 MEANS SAMPLE SIZE	33.42 5	33.51 8	32.92 6		33.42 6		33.98 4	33.87 7	33.75 4	33.75 4	33.49 4	33.44 3	
11-20 MEANS SAMPLE SIZE	33.51 4	33.38 6	33.11 4		33.81 5		33.92 2	33.93 6	33.75 7	33.75 5	33.60 4	33.44 8	
21-31 MEANS SAMPLE SIZE	33.50 6	33.49 5			33.79 1		34.11 1	33.70 7	33.66 6		33.59 5	33.52 4	
MONTHLY MEANS SAMPLE SIZE	33.48 15	33.46 19	32.99 10		33.61 12		33.98 7	33.83 20	33.72 17	33.75 9	33.56 13	33.46 15	
MAXIMUM VALUE	33.88	33.74	33.33		33.90		34.11	34.05	33.92	33.82	33.83	33.67	
MINIMUM VALUE	33.18	32.95	32.55		33.02		33.92	33.61	33.54	33.69	33.39	33.38	
RANGE	0.70	0.79	0.78		0.88		0.19	0.44	0.38	0.13	0.44	0.29	
STANDARD DEV.	0.17	0.16	0.21		0.30		0.07	0.15	0.09	0.03	0.11	0.07	

DAYS	BODEGA BAY				SIGMA T				YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		25.76	25.49		24.88			26.21	25.23		25.28	25.32
2		25.82						26.23		25.60		
3	25.53	25.83	25.46		25.33		26.04	26.12		25.43		
4	25.75				25.36		26.22	25.96				25.35
5	25.66						26.17				25.34	
6	25.84	25.79	25.45						25.02		25.44	25.24
7		25.95	25.30		25.80			25.49	25.09		25.54	
8		26.15	25.18		25.59			25.70	25.03			
9		25.99	24.97		26.02		26.04	25.47		25.56		
10	25.83	26.00			26.11		25.93	26.07	25.60	25.42		
11										25.38		25.46
12										25.43		25.55
13		25.73	25.18						25.51	25.43		25.58
14		26.04	25.42				26.09	25.97	25.40	25.73	25.54	
15	25.77	25.39			26.00			26.02		25.61		
16		25.69			25.86			25.94				
17	25.82	25.68	25.33		25.92			25.61				
18					25.81			25.39	25.08	25.73		25.32
19	25.73								25.32	25.61		25.42
20	25.90	25.59	25.46						25.10		25.49	25.54
21		25.65			25.99			25.16	25.26		25.60	
22		25.62						24.99				
23	26.06	25.66				26.05		24.95				
24	25.79											
25	25.53											
26	25.78											
27												
28	25.75	25.84						25.16			25.28	25.62
29		25.85						25.16	25.03	25.56	25.57	
30								25.57				
31	25.66											
1-10 MEANS SAMPLE SIZE	25.72 5	25.91 8	25.31 6		25.50 6		26.12 4	25.88 7	25.09 4	25.48 4	25.40 4	25.31 3
11-20 MEANS SAMPLE SIZE	25.81 4	25.68 6	25.35 4		25.94 5		26.01 2	25.83 6	25.39 7	25.51 5	25.51 8	25.51 8
21-31 MEANS SAMPLE SIZE	25.76 6	25.73 5			25.99 1		26.05 1	25.14 7	25.13 6		25.49 5	25.58 4
MONTHLY MEANS SAMPLE SIZE	25.76 15	25.79 19	25.32 10		25.72 12		26.08 7	25.61 20	25.23 17	25.50 9	25.47 13	25.49 15
MAXIMUM VALUE	26.06	26.15	25.49		26.11		26.22	26.23	25.60	25.73	25.60	25.74
MINIMUM VALUE	25.53	25.39	24.97		24.88		25.93	24.95	25.02	25.32	25.28	25.24
RANGE	0.53	0.76	0.51		1.23		0.29	1.28	0.58	0.40	0.33	0.50
STANDARD DEV.	0.13	0.18	0.17		0.37		0.10	0.44	0.19	0.13	0.11	0.13

YEAR 1989

SALINITY

FARALLON ISLANDS

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.59	33.55	33.85	32.95	33.21	33.82	33.75	34.03	33.78	33.67	33.51	33.52
2	33.38	33.71	33.69	32.92	32.64	33.83	33.84	34.06	33.89	33.67	33.62	33.56
3	33.45	33.61	33.69	33.18	33.00	33.81	33.84	34.04	33.95	33.67	33.56	
4	33.19	33.65	33.69	33.24	33.06	33.77	33.80	33.96	33.78	33.63	33.52	
5	33.23	33.57	33.91	33.45	33.15	33.78	33.99	34.10	34.15	33.68	33.55	33.49
6	33.39	33.61	33.56	33.24	33.21	34.41U	33.82	34.00	33.94	33.65	33.59	33.73
7	33.35	33.55	33.58	33.26	33.20	33.85	33.91	34.13	34.05	33.65	33.60	33.66
8	33.39	33.51	33.51	33.50	33.20	33.82	33.86	34.06	33.74	33.64	33.52	33.76
9	33.39	33.72	33.49	33.36	33.26	33.96	33.87	33.87	33.74	33.64	33.59	33.77
10	33.44	33.44	33.44	33.44	33.35	33.92	33.91	34.05	33.74	33.61	33.52	33.54
11	33.41	33.72	33.36	33.06	33.64	34.18	33.94	34.13	33.99	33.60	33.52	33.51
12	33.44	33.74	33.42	33.06	33.56	33.88	33.96	33.88	33.76	33.76	33.70	33.51
13	33.38	33.71	33.42	33.43	33.97	34.04	34.30U	33.85	33.74	33.76	33.64	33.54
14	33.34	33.78	33.40	33.34	33.74	33.89	33.90	33.87	33.72	33.64	33.64	33.58
15	33.34	33.66	33.53	33.43	33.62	33.88	33.90	33.91	33.72	33.63	33.45	33.62
16	33.63	33.70	33.32	33.13	33.55	34.02	33.97	33.86	33.61	33.60	33.43	33.51
17	33.25	33.72	33.32	33.22	33.98	33.87	33.94	33.87	33.67	33.60	33.44	33.38
18	33.29	33.58	33.25	33.21	33.79	33.95	34.00	33.91	33.67	33.60	33.48	33.40
19	33.24	33.58	33.37	33.11	33.57	34.12	33.96	33.86	33.46	33.58	33.52	33.41
20	33.31	33.74	33.34	33.10	33.77	34.15	33.94	33.93	33.67	33.78	33.54	33.41
21	33.54	33.58	33.32	33.20	33.83	33.91	34.13	33.80	34.23	33.47	33.53	33.41
22	33.42	33.61	33.09	33.12	33.51	33.94	33.96	33.83	33.86	33.52	33.72	33.67
23	33.30	34.45U	32.88	33.14	33.28	33.98	33.95	33.76	34.02	33.41	33.81	33.51
24	33.34	33.56	33.03	33.25	33.43	33.98	33.95	33.77	33.68	33.41	33.51	33.50
25	33.39	33.36	33.31	33.15	33.47	33.98	33.82	33.77	33.66	33.65	33.56	33.64
26	33.49	33.40	33.23	33.20	33.81	33.84	33.99	33.77	33.62	33.65	33.56	33.64
27	33.43	33.48	33.05	33.12	33.93	33.85	33.87	33.76	33.63	33.66	33.52	33.52
28	33.33	33.65	33.31	32.99	34.09	33.74	33.90	33.77	33.61	33.48	33.49	33.40
29	33.42	32.86	32.81	32.81	33.95	33.74	34.08	33.77	33.63	33.47	33.50	33.40
30	33.39	32.85	32.74	33.85	33.78	33.74	33.94	33.77	33.63	33.47	33.50	33.67
31	33.44	32.88	32.88	32.74	33.78	33.78	33.97	33.82	33.63	33.47	33.50	33.67
1-10 MEANS	33.38	33.62	33.66	33.25	33.13	33.84	33.86	34.03	33.88	33.65	33.56	33.64
SAMPLE SIZE	10	8	8	10	10	9	9	10	10	9	10	7
11-20 MEANS	33.36	33.71	33.40	33.23	33.72	34.00	33.95	33.91	33.70	33.66	33.52	33.52
SAMPLE SIZE	10	9	9	9	10	10	9	10	9	9	9	9
21-31 MEANS	33.41	33.52	33.07	33.07	33.72	33.86	33.96	33.78	33.77	33.46	33.58	33.51
SAMPLE SIZE	11	7	11	10	11	7	11	11	9	8	8	10
MONTHLY MEANS	33.38	33.62	33.35	33.18	33.53	33.91	33.92	33.90	33.79	33.60	33.55	33.55
SAMPLE SIZE	31	24	28	29	31	26	29	31	28	26	27	26
MAXIMUM VALUE	33.63	33.78	33.91	33.50	34.09	34.18	34.13	34.13	34.23	33.78	33.81	33.77
MINIMUM VALUE	33.19	33.36	32.85	32.74	32.64	33.74	33.75	33.76	33.46	33.41	33.43	33.38
RANGE	0.44	0.42	1.06	0.76	1.45	0.44	0.38	0.37	0.77	0.37	0.38	0.39
STANDARD DEV.	0.10	0.11	0.29	0.19	0.35	0.12	0.08	0.12	0.18	0.10	0.09	0.12
ANNUAL MIN	32.64					33.61			ANNUAL MAX		34.23	

DAYS	FARALLON ISLANDS						SIGMA T				YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	25.71	25.68	26.00	25.00	25.24	25.91	25.44	25.68	25.53	25.03	25.14	25.29		
2	25.56	25.89	25.91	24.96	24.39	26.00	25.35	25.00	25.38	25.03	25.16	25.32		
3	25.38	25.60	25.91	25.24	24.39	25.91	25.54	25.00	25.38	25.03	25.16	25.32		
4	25.38	25.60	25.91	25.24	24.39	25.91	25.54	25.00	25.38	25.03	25.16	25.32		
5	25.34	25.84	26.05	25.35	25.02	25.88	25.67	25.75	25.55	25.11	25.21	25.18		
6	25.56	25.84	26.05	25.35	25.02	25.88	25.67	25.75	25.55	25.11	25.21	25.18		
7	25.51	25.85	25.69	25.22	25.19	25.32U	25.41	25.41	25.41	25.12	25.21	25.18		
8	25.51	25.85	25.65	25.41	25.08	25.99	25.71	25.88	25.41	25.14	25.19	25.47		
9	25.54	25.88	25.51	25.30	25.42	25.93	25.70	25.62	25.15	25.14	25.19	25.51		
10	25.65	25.87	25.45	25.30	25.42	25.97	25.86	25.62	25.21	25.16	25.28	25.48		
11	25.57	25.85	25.36	24.93	25.73	25.96	25.89	25.78	25.43	25.17	25.43	25.38		
12	25.60	25.85	25.36	24.93	25.73	25.96	25.89	25.78	25.43	25.17	25.43	25.38		
13	25.57	25.93	25.44	25.46	26.11	25.94	26.05U	25.89	25.32	25.19	25.43	25.38		
14	25.52	25.93	25.44	25.46	26.11	25.94	26.05U	25.89	25.32	25.19	25.43	25.38		
15	25.52	25.93	25.44	25.46	26.11	25.94	26.05U	25.89	25.32	25.19	25.43	25.38		
16	25.52	25.93	25.44	25.46	26.11	25.94	26.05U	25.89	25.32	25.19	25.43	25.38		
17	25.52	25.93	25.44	25.46	26.11	25.94	26.05U	25.89	25.32	25.19	25.43	25.38		
18	25.38	25.81	25.32	24.98	25.68	25.91	25.92	25.70	25.24	25.28	25.31	25.31		
19	25.33	25.71	25.32	24.98	25.68	25.91	25.92	25.70	25.24	25.28	25.31	25.31		
20	25.42	25.85	25.26	24.90	25.72	26.00	25.86	25.43	24.88	25.33	25.37	25.14		
21	25.63	25.83	25.12	25.10	25.82	26.11	25.82	25.70	24.89	25.31	25.37	25.14		
22	25.63	25.83	25.12	25.10	25.82	26.11	25.82	25.70	24.89	25.31	25.37	25.14		
23	25.63	25.83	25.12	25.10	25.82	26.11	25.82	25.70	24.89	25.31	25.37	25.14		
24	25.57	25.58	25.06	25.38	25.90	25.89	25.88	25.66	25.43	25.19	25.31	25.28		
25	25.56	25.58	25.28	25.19	25.46	25.89	25.88	25.66	25.43	25.19	25.31	25.28		
26	25.62	25.57	25.25	25.21	25.83	25.89	25.88	25.66	25.43	25.19	25.31	25.28		
27	25.54	25.61	25.25	25.21	25.83	25.89	25.88	25.66	25.43	25.19	25.31	25.28		
28	25.53	25.81	25.30	24.84	26.09	25.70	25.72	25.35	24.94	25.20	25.36	25.19		
29	25.56	25.81	24.91	24.68	26.01	25.32	25.88	25.22	24.92	25.14	25.31	25.15		
30	25.56	25.81	24.90	24.60	25.90	25.32	25.77	25.26	24.87	25.13	25.31	25.15		
31	25.56	25.81	24.83	24.60	25.86	25.32	25.69	25.30	25.13	25.13	25.31	25.15		
1-10 MEANS	25.52	25.85	25.81	25.20	25.02	25.94	25.64	25.72	25.35	25.10	25.20	25.35		
SAMPLE SIZE	10	8	8	10	10	9	9	10	10	9	10	7		
11-20 MEANS	25.50	25.86	25.43	25.12	25.86	25.97	25.85	25.52	25.32	25.33	25.33	25.28		
SAMPLE SIZE	10	9	9	9	10	10	9	10	9	9	9	9		
21-31 MEANS	25.55	25.64	25.07	25.03	25.69	25.71	25.84	25.23	25.14	25.19	25.41	25.28		
SAMPLE SIZE	11	7	11	10	11	7	11	11	9	8	8	10		
MONTHLY MEANS	25.52	25.79	25.40	25.11	25.53	25.89	25.78	25.48	25.20	25.20	25.31	25.30		
SAMPLE SIZE	31	24	28	29	31	26	29	31	28	26	27	26		
MAXIMUM VALUE	25.71	25.97	26.05	25.46	26.11	26.14	26.06	25.88	25.74	25.49	25.58	25.51		
MINIMUM VALUE	25.28	25.55	24.83	24.60	24.39	25.32	25.35	25.06	24.87	24.99	25.10	25.04		
RANGE	0.44	0.41	1.22	0.86	1.73	0.82	0.71	0.82	0.86	0.50	0.48	0.47		
STANDARD DEV.	0.10	0.12	0.35	0.22	0.46	0.19	0.15	0.24	0.23	0.12	0.12	0.12		
ANNUAL MIN	24.39			ANNUAL MEAN	25.46			ANNUAL MAX	26.14					

YEAR 1989

TEMPERATURE

SANTA CRUZ

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		11.3	11.9		14.5	14.1			15.7	15.5		12.5
2		11.1	11.7	13.2	14.1	14.4			14.9	14.9		
3	11.1	10.9		12.5	15.1	14.5	16.3	15.3	14.7	14.1	14.1	12.7
4				12.7	14.9	14.2			14.1		14.3	12.9
5	11.1	10.4	11.5	13.7	15.5	12.9			15.7	14.5		12.7
6	11.0	10.2	11.7	14.1	16.3	13.3		15.1	14.8	14.9		
7	10.9	9.9	11.7	13.3	15.1	13.9		14.5	15.1	15.3		
8	11.1	9.9	11.9	14.2				15.1	15.1	15.3		
9	11.1	10.1	12.3	13.3	11.7	13.7	15.7		16.1	14.9	13.3	
10	11.1	10.6	11.1	12.1	11.3	14.0			15.7		13.0	12.7
11	11.1	10.1	12.3	14.3	11.7	14.7			15.8		13.0	13.1
12	11.1	9.1	12.3	13.3	13.3	14.5	14.7		15.7		13.1	12.9
13	10.5	10.3	11.7	13.3	13.3		14.9	15.5	15.7	14.0	14.1	12.9
14	11.0	10.3	11.3	13.1	13.4				15.7	14.0	13.5	12.7
15	10.3	10.5	11.5						14.5	14.5		
16	10.3	11.1	13.7		13.7		15.5	15.9	15.3	14.7	13.7	12.9
17	10.3	11.3	13.9	13.1	13.9	15.1		15.1	14.9			12.5
18	10.5	11.3	12.9	12.9	12.3	13.5	14.3	14.5	15.5	14.5	13.3	
19	10.5	11.5	13.5	14.3	13.5	15.1	14.1	15.3	15.7	14.3	13.3	13.2
20	10.5	11.6	12.5		13.7	12.5	14.7	16.1	15.7		13.2	13.3
21	11.0	11.9	12.9		13.4	14.5		15.9	15.7	14.1		
22		12.1	13.7		14.3	13.9	14.3	15.3	15.3			
23	10.7	12.1	13.5	13.1			14.3	15.5	15.7			
24	10.7		13.3				14.1	15.5	15.2			
25	10.5	12.3	12.5	13.3	14.5	13.9	14.4	15.3	15.7	14.3	13.3	
26	10.5		12.3				14.7	16.1	15.7			
27			12.5		12.6			15.9	15.7			
28	11.1		12.9		11.6	14.5		15.3	15.3			
29	11.1		12.3		13.2			15.7				
30	11.1		12.7		13.4							
31	11.3											
1-10 MEANS	11.06	10.47	11.83	13.50	14.59	13.88	16.00	15.02	15.33	14.68	13.90	12.70
SAMPLE SIZE	7	9	6	9	7	8	2	5	4	9	3	5
11-20 MEANS	10.61	10.76	11.70	13.30	12.98	14.12	14.83	15.50	15.43	14.30	13.46	12.84
SAMPLE SIZE	10	10	4	7	9	5	7	3	7	4	5	7
21-31 MEANS	10.84	12.10	12.86	13.20	13.29	14.14	14.36	15.47	15.47	14.30	13.38	13.18
SAMPLE SIZE	9	4	10	2	7	5	5	7	8	3	4	4
MONTHLY MEANS	10.81	10.88	12.32	13.39	13.56	14.02	14.83	15.33	15.43	14.51	13.54	12.88
SAMPLE SIZE	26	23	20	18	23	18	14	15	19	16	12	16
MAXIMUM VALUE	11.3	12.3	13.7	15.1	16.3	15.1	16.3	16.1	16.1	15.5	14.3	13.3
MINIMUM VALUE	10.3	9.1	11.3	12.1	11.3	12.5	13.5	14.5	14.5	12.7	13.0	12.5
RANGE	1.0	3.2	2.4	3.0	5.0	2.6	2.8	1.6	1.6	2.8	1.3	0.8
STANDARD DEV.	0.32	0.83	0.69	0.76	1.29	0.63	0.76	0.47	0.41	0.68	0.44	0.26
ANNUAL MIN	9.1				ANNUAL MEAN	13.46			ANNUAL MAX	16.3		

DAYS	PACIFIC GROVE				TEMPERATURE							YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
1	11.8	11.0	11.5	14.2	13.5	14.0	15.3	13.0	15.1	13.5	12.4	12.7			
2	10.3	10.9	11.4	14.3	13.1	14.0	15.5	12.4	15.9	14.0	12.9	13.0			
3	9.7	11.0	10.9	14.0	13.8	14.2	15.8	13.1	15.0	13.9	13.2	13.0			
4	9.9	10.6	11.0	13.9	14.7	11.6	16.3	12.8	14.3	13.0	14.0	13.7			
5	11.3	10.0	11.7	14.1	14.5	14.1	15.2	13.8	14.5	12.9	13.8	13.8			
6	11.0	9.2	11.8	14.8	14.5	13.1	15.2	14.3	13.1	13.9	13.0	14.0			
7	11.1	9.3	12.0	14.0	14.5	13.0	14.6	14.3	13.5	13.6	12.5	12.9			
8	10.8	9.0	12.0	14.0	14.0	13.0	14.8	14.8	14.0	14.1	12.5	12.9			
9	11.0	10.0	12.0	14.0	13.3	13.0	13.0	14.9	14.4	13.7	12.5	12.9			
10	11.1	9.9	12.0	14.0	12.5	13.1	12.0	14.8	14.8	14.0	12.1	13.0			
11	11.1	10.8	12.8	12.4	12.9	13.9	12.0	14.5	14.7	13.6	13.2	12.8			
12	10.3	10.9	13.0	12.0	12.5	13.2	11.8	15.6	14.7	13.4	12.4	12.3			
13	10.3	11.0	12.1	12.6	13.8	12.5	11.1	15.3	14.9	13.1	12.8	12.5			
14	11.0	11.0	11.8	12.0	12.5	13.1	12.0	14.3	15.0	13.8	12.5	12.0			
15	10.3	10.8	11.5	12.4	12.4	13.2	12.5	14.0	14.4	13.8	12.2	12.7			
16	10.4	11.0	11.9	12.1	13.0	13.3	13.8	13.6	14.0	13.0	12.0	13.7			
17	10.2	10.9	11.9	11.9	12.0	13.8	13.6	14.0	13.3	13.0	12.0	13.9			
18	10.4	11.5	12.0	11.4	11.5	13.6	14.0	14.0	13.6	16.0	12.0	13.9			
19	10.1	11.6	13.0	12.6	11.3	12.0	12.5	14.2	12.9	13.1	13.8	13.0			
20	10.2	11.6	12.8	13.1	13.0	11.8	12.9	13.6	13.6	13.0	13.1	13.1			
21	11.0	11.3	12.5	13.0	12.9	13.1	12.9	13.5	13.0	13.1	13.0	13.0			
22	11.1	11.7	13.0	13.7	12.1	13.0	12.8	13.9	14.0	13.0	13.1	13.0			
23	11.0	11.8	12.8	13.5	13.4	14.0	14.0	14.3	14.2	13.0	13.9	13.3			
24	11.1	11.5	12.9	12.6	12.3	13.8	13.6	14.2	12.5	12.9	13.9	13.4			
25	10.9	12.0	12.0	12.2	12.0	13.5	12.1	14.9	13.0	13.9	14.5	13.5			
26	11.3	11.3	12.2	12.1	12.5	14.3	12.0	14.7	13.1	13.1	13.0	13.2			
27	10.9	11.3	12.0	12.9	13.1	14.6	12.0	14.5	13.0	14.0	12.9	12.9			
28	10.9	11.4	12.8	13.2	13.6	14.6	12.2	14.2	14.0	14.2	12.1	13.4			
29	11.3	12.9	12.9	14.5	14.5	15.0	13.6	14.0	14.0	13.1	12.1	13.4			
30	10.9	12.8	12.8	14.1	13.5	15.0	13.6	14.0	14.0	13.0	12.1	13.3			
31	11.0	13.4	13.4	14.1	13.6	15.3	12.5	14.9	14.0	13.0	12.1	13.3			
1-10 MEANS	10.80	10.09	11.63	14.14	13.86	13.31	14.72	13.82	14.46	13.66	12.94	13.20			
SAMPLE SIZE	10	10	10	10	10	10	9	10	10	10	10	10			
11-20 MEANS	10.43	11.11	12.28	12.25	12.49	13.04	12.62	14.30	14.12	13.58	12.74	12.91			
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10			
21-31 MEANS	11.01	11.63	12.66	13.18	12.95	14.13	12.73	14.29	13.46	13.33	13.07	13.23			
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	10	11			
MONTHLY MEANS	10.75	10.89	12.21	13.19	13.10	13.49	13.29	14.14	14.01	13.52	12.92	13.12			
SAMPLE SIZE	31	28	31	30	31	30	30	31	30	31	30	31			
MAXIMUM VALUE	11.8	12.0	13.4	14.8	14.7	15.3	16.3	15.6	15.9	16.0	14.0	14.0			
MINIMUM VALUE	9.7	9.0	10.9	11.4	11.3	11.6	11.1	12.4	12.5	12.9	12.0	12.0			
RANGE	2.1	3.0	2.5	3.4	3.4	3.7	5.2	3.2	3.4	3.1	2.0	2.0			
STANDARD DEV.	0.47	0.82	0.63	0.95	0.96	0.94	1.38	0.71	0.82	0.63	0.62	0.51			
ANNUAL MIN	9.0	ANNUAL MEAN				12.89	ANNUAL MAX				16.3				

DAYS	GRANITE CANYON												TEMPERATURE				YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC								
1	11.7	11.6	9.8	10.9	12.3	9.3	12.6	11.3	11.7	12.3	13.1	14.2								
2	11.4	11.1	10.1	11.1	11.0	9.5	11.3	11.2	11.6	12.2	12.8	14.2								
3	11.5	11.3	9.8	11.0	10.9	10.2	11.3	11.2	11.9	12.4	13.6	14.2								
4	11.8	11.1	10.3	10.6	10.7	10.7	9.7	13.6	12.8	13.4	13.6	14.2								
5	11.2	10.8	10.7	10.1	10.2	10.3	9.7	13.6	12.8	13.4	13.6	14.2								
6	11.1	10.5	11.0	10.2	10.7	10.3	9.7	14.0	13.7	13.4	13.6	14.2								
7	11.1	10.5	11.0	10.2	10.7	10.3	9.7	14.0	13.7	13.4	13.6	14.2								
8	10.7	10.8	11.1	11.1	11.0	11.3	9.4	12.4	15.1	12.4	12.8	12.4								
9	10.9	11.1	11.2	11.3	11.3	10.6	9.4	12.4	15.1	12.4	12.8	12.4								
10	10.8	11.2	12.1	11.7	11.1	10.5	10.4	12.2	13.3	12.7	12.4	13.4								
11	10.1	11.4	12.0	10.2	10.5	10.6	10.9	11.9	12.0	13.7	13.1	13.4								
12	10.2	11.2	12.0	10.8	10.2	10.3	11.3	11.7	11.5	13.8	13.5	13.6								
13	10.6	11.1	11.4	11.5	10.5	9.8	11.0	11.8	11.8	13.5	12.6	13.6								
14	10.6	10.7	10.6	12.1	10.4	9.8	10.9	11.6	12.2	12.3	12.4	14.1								
15	10.5	10.8	9.9	12.2	10.3	9.9	10.5	11.6	12.3	12.5	12.7	13.9								
16	10.4	11.0	10.7	11.8	10.7	9.7	10.3	12.1	11.9	11.6	13.3	14.0								
17	10.4	10.7	11.2	12.2	10.5	9.7	10.7	12.8	11.8	11.5	13.3	14.0								
18	10.7	10.4	11.3	12.1	10.9	9.4	10.5	13.3	13.1	12.2	13.3	13.8								
19	11.1	10.7	11.9	11.6	9.9	9.4	10.2	13.1	12.2	12.8	14.0	13.8								
20	11.6	10.7	11.5	11.6	10.1	9.2	9.8	13.7	12.2	12.8	13.3	13.8								
21	11.8	10.8	11.2	11.5	10.1	9.4	9.5	13.9	11.8	13.6	13.2	13.7								
22	11.7	10.8	10.4	11.3	10.0	11.0	10.0	14.4	12.1	13.9	12.8	13.7								
23	11.4	10.5	10.3	11.7	10.1	10.3	10.9	14.5	12.1	14.4	12.8	13.7								
24	11.5	10.2	11.6	11.8	9.9	12.2	11.3	13.1	12.1	14.2	12.9	13.7								
25	11.2	10.7	11.9	12.3	9.7	13.0	11.5	13.1	12.5	14.1	12.7	13.8								
26	11.1	10.9	10.9	12.2	9.5	13.0	11.1	13.9	12.2	14.1	13.9	14.0								
27	11.2	10.8	10.7	12.6	9.4	12.6	11.0	14.2	12.1	13.6	13.2	14.1								
28	10.7	10.1	10.3	11.6	9.2	12.5	11.5	14.2	11.9	13.1	12.9	14.1								
29	10.7	11.2	11.2	11.8	9.1	13.5	11.3	13.7	12.4	12.6	13.4	13.5								
30	10.7	11.0	11.0	12.5	9.3	14.1	11.0	12.9	12.7	12.8	13.4	13.4								
31	11.0	10.8	10.8	12.5	9.5	11.2	11.2	11.8	13.1	13.1	13.3	13.4								
1-10 MEANS	11.29	11.07	10.63	10.71	10.98	10.90	10.41	12.27	12.88	12.63	12.88	13.58								
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10								
11-20 MEANS	10.62	10.87	11.25	11.61	10.40	9.78	10.61	12.36	12.10	12.58	13.13	13.83								
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10								
21-31 MEANS	11.18	10.60	10.94	11.93	9.62	12.36	10.94	13.56	12.19	13.59	13.11	13.75								
SAMPLE SIZE	11	8	11	10	11	10	11	11	11	11	10	11								
MONTHLY MEANS	11.04	10.86	10.94	11.42	10.31	11.01	10.66	12.76	12.39	12.95	13.04	13.72								
SAMPLE SIZE	31	28	31	30	31	30	31	31	30	31	30	31								
MAXIMUM VALUE	11.8	11.6	12.1	12.6	12.3	14.1	12.6	14.5	15.1	14.4	14.0	14.5								
MINIMUM VALUE	10.1	10.1	9.8	9.6	9.1	9.2	9.4	11.2	11.5	11.5	12.2	12.4								
RANGE	1.7	1.5	2.3	3.0	3.2	4.9	3.2	3.3	3.6	2.9	1.8	2.1								
STANDARD DEV.	0.50	0.35	0.67	0.78	0.70	1.47	0.73	1.02	0.77	0.80	0.42	0.45								
ANNUAL MIN	9.1					11.76			ANNUAL MAX		15.1									

DAYS	GRANITE CANYON				SALINITY				YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.65	33.70	33.83	33.72	33.79	34.39U	33.82	34.23	34.04	33.70	33.68	33.51
2	33.59	33.70	33.79	33.70	33.68	33.77	33.86	33.97	33.77	33.78	33.73	33.54
3	33.56	33.72	33.87	33.94	33.75	34.17	33.89	33.10	33.82	33.78	33.58	33.57
4	33.62	33.77	33.82	34.13	33.75	34.03	33.96	33.69	33.69	33.73	33.57	33.55
5	33.65	33.67	33.79	33.96	33.84	33.90	34.04	33.90	33.69	33.68	33.66	33.57
6	33.64	33.68	33.78	33.92	33.93	33.83	34.07	33.85	33.61	33.68	33.66	33.56
7	33.69	33.72	33.80	33.90	33.96	34.37U	33.85	33.92	33.61	33.67	33.62	33.55
8	33.77	33.69	33.72	33.93	33.87	34.02	34.08	33.92	33.68	33.66	33.64	33.60
9	33.81	33.49	33.66	33.87	33.76	34.11	34.36U	33.84	33.84	33.79	33.68	33.59
10	33.81	33.47	33.54	33.81	33.76	34.11	34.36U	33.87	33.77	33.60	33.62	33.60
11	33.89	33.53	33.44	33.93	34.01	33.98	34.00	33.90	33.82	33.57	33.61	33.76
12	33.88	33.55	33.50	34.09	34.17	33.94	33.86	33.74	33.81	33.64	33.64	33.57
13	33.84	33.62	33.58	33.94	33.99	33.95	33.93	33.85	33.83	33.67	33.66	33.55
14	33.83	33.79	33.74	33.79	34.27	34.01	34.12	33.88	33.71	33.87	33.66	33.72
15	33.83	33.69	33.80	33.86	33.89	34.29	34.22	33.84	33.79	33.82	33.50	33.50
16	33.87	33.69	33.77	33.83	33.86	34.01	34.05	33.93	33.66	33.77	33.89	33.61
17	33.93	33.74	33.61	33.83	33.86	34.07	34.38U	33.81	33.60	33.93	33.82	33.78
18	33.84	33.71	33.59	33.73	33.86	34.14	34.04	33.70	31.73U	34.01	33.80	33.55
19	33.76	33.73	33.73	33.99	34.20	34.11	33.98	34.16	33.61	33.94	33.94	33.70
20	33.63	33.77	33.52	34.14	33.96	34.11	33.25	33.72	33.59	33.65	33.64	33.56
21	33.61	33.76	33.67	33.77	34.25	34.14	34.10	33.84	33.59	33.74	33.60	33.54
22	33.67	34.00	33.74	33.75	34.12	33.97	34.03	33.76	33.61	33.95	33.75	33.68
23	33.58	33.77	33.94	33.76	34.23	33.94	34.00	33.73	33.99	33.70	33.57	33.55
24	33.67	33.72	33.63	33.74	34.10	33.86	33.98	33.62	33.62	33.51	33.61	33.67
25	33.85	33.81	33.51	33.64	34.05	33.70	34.06	33.63	33.63	33.47	33.64	33.63
26	33.79	33.71	33.66	33.60	34.16	33.77	34.03	33.77	33.64	33.51	33.58	33.59
27	33.67	33.78	33.78	33.62	34.10	33.82	33.92	34.09	33.70	33.70	33.53	33.58
28	33.85	33.73	33.84	33.84	34.47U	33.71	33.93	33.76	33.73	33.59	33.53	33.59
29	33.76	33.76	33.63	33.67	34.21	33.60	34.11	33.70	33.65	33.74	33.57	33.58
30	33.70	33.70	33.67	33.49	34.21	33.59	34.00	33.74	33.60	33.60	33.55	33.60
31	33.66	33.77	33.77	33.49	33.49	33.59	33.99	33.72	33.72	33.57	33.57	33.59
1-10 MEANS SAMPLE SIZE	33.66 10	33.64 10	33.76 10	33.89 10	33.81 9	34.02 7	33.98 8	33.96 10	33.75 10	33.73 10	33.64 10	33.56 10
11-20 MEANS SAMPLE SIZE	33.83 10	33.68 10	33.62 9	33.91 10	34.02 9	34.06 9	34.07 8	33.87 10	33.71 9	33.76 10	33.75 10	33.63 10
21-31 MEANS SAMPLE SIZE	33.71 11	33.79 7	33.71 10	33.69 10	34.16 9	33.81 10	34.01 10	33.83 11	33.68 9	33.64 11	33.60 9	33.60 11
MONTHLY MEANS SAMPLE SIZE	33.73 31	33.70 27	33.70 29	33.83 30	34.00 27	33.95 26	34.02 26	33.89 31	33.72 28	33.71 31	33.67 29	33.60 31
MAXIMUM VALUE	33.93	34.00	33.94	34.14	34.27	34.29	34.25	34.23	34.04	34.01	33.94	33.78
MINIMUM VALUE	33.55	33.47	33.44	33.49	33.67	33.59	33.82	33.70	33.59	33.47	33.53	33.50
RANGE	0.38	0.53	0.50	0.65	0.60	0.70	0.43	0.53	0.45	0.54	0.41	0.28
STANDARD DEV.	0.11	0.11	0.12	0.15	0.18	0.18	0.10	0.14	0.12	0.14	0.10	0.07
ANNUAL MIN	33.44				ANNUAL MEAN	33.79		ANNUAL MAX			34.29	

DAYS	GRANITE CANYON					SIGMA T				YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	25.60	25.65	25.07	25.80	25.59	25.590	25.56	26.12	25.90	25.52	25.35	24.99	
2	25.61	25.66	25.09	25.75	25.75	25.62	25.85	25.84	25.67	25.60	25.45	25.02	
3	25.56	25.61	25.04	25.95	25.86	25.37	25.91	25.94	25.69	25.70	25.33	25.02	
4	25.56	25.61	25.04	25.95	25.86	25.37	25.91	25.94	25.69	25.70	25.33	25.02	
5	25.50	25.72	25.95	26.21	25.93	25.79	26.25	25.42	25.40	25.49	25.36	25.17	
6	25.68	25.88	25.88	26.09	26.08	25.49	26.28	25.30	25.18	25.46	25.36	25.39	
7	25.87	25.84	25.84	26.06	26.02	25.96	26.36	25.66	25.47	25.44	25.44	25.23	
8	25.74	25.79	25.76	25.92	25.90	25.96	26.36	25.76	25.33	25.52	25.49	25.22	
9	25.81	25.84	25.84	25.92	25.90	25.96	26.36	25.76	25.33	25.52	25.49	25.22	
10	25.88	25.88	25.88	25.92	25.90	25.96	26.36	25.76	25.33	25.52	25.49	25.22	
11	25.88	25.88	25.88	25.92	25.90	25.96	26.36	25.76	25.33	25.52	25.49	25.22	
12	26.04	25.61	25.42	26.10	26.09	26.05	26.02	25.76	25.67	25.31	25.30	25.17	
13	25.94	25.68	25.60	25.86	26.08	26.17	25.94	25.73	25.72	25.47	25.31	25.17	
14	25.94	25.68	25.60	25.86	26.08	26.17	25.94	25.73	25.72	25.47	25.31	25.17	
15	25.95	25.79	25.87	25.63	26.31	26.21	26.11	25.79	25.55	25.65	25.47	25.18	
16	26.00	25.76	26.03	25.67	26.03	26.41	26.26	25.76	25.59	25.48	25.54	25.05	
17	26.05	25.85	25.87	25.72	25.98	26.23	26.16	25.74	25.57	25.71	25.47	25.11	
18	25.93	25.88	25.66	25.64	25.98	26.28	26.350	25.51	25.54	25.85	25.42	25.24	
19	25.79	25.84	25.62	25.58	26.34	26.38	26.12	25.33	23.840	25.86	25.44	25.05	
20	25.60	25.87	25.53	26.00	26.34	26.39	26.40	25.26	25.47	25.47	25.51	25.22	
21	25.55	25.85	25.70	25.73	26.35	26.38	26.33	25.31	25.46	25.39	25.14	25.12	
22	25.61	26.03	25.90	25.75	26.27	25.97	26.19	25.15	25.53	25.30	25.27	25.12	
23	25.60	25.91	26.07	25.68	26.33	25.71	26.02	25.10	25.49	25.40	25.46	25.23	
24	25.65	25.92	25.60	25.65	26.27	25.67	25.10	25.10	25.79	25.10	25.33	25.13	
25	25.84	25.90	25.45	25.48	26.26	25.39	25.93	25.58	25.50	24.99	25.34	25.22	
26	25.82	25.79	25.75	25.46	26.38	25.44	26.00	25.65	25.43	24.98	25.40	25.17	
27	25.70	25.97	25.86	25.46	26.35	25.56	25.93	25.35	25.56	25.27	25.27	25.07	
28	25.93	25.91	25.91	25.46	26.670	25.49	25.85	25.35	25.62	25.28	25.27	25.10	
29	25.86	25.86	25.67	25.46	26.48	25.21	26.03	25.43	25.62	25.39	25.21	25.19	
30	25.73	25.73	25.85	25.52	26.48	25.08	26.00	25.43	25.46	25.39	25.21	25.23	
31													
1-10 MEANS	25.68	25.70	25.87	25.96	25.84	26.01	26.07	25.73	25.45	25.48	25.37	25.16	
SAMPLE SIZE	10	10	10	10	9	7	8	10	10	10	10	10	
11-20 MEANS	25.93	25.77	25.67	25.82	26.13	26.24	26.14	25.64	25.59	25.51	25.40	25.16	
SAMPLE SIZE	10	10	9	10	9	9	8	10	9	10	10	10	
21-31 MEANS	25.74	25.91	25.78	25.58	26.35	25.59	26.02	25.37	25.54	25.22	25.29	25.16	
SAMPLE SIZE	11	7	10	10	9	10	10	11	9	11	9	9	
MONTHLY MEANS	25.78	25.78	25.78	25.79	26.11	25.93	26.07	25.57	25.52	25.40	25.35	25.16	
SAMPLE SIZE	31	27	29	30	27	26	26	31	28	31	29	31	
MAXIMUM VALUE	26.07	26.03	26.07	26.26	26.48	26.41	26.40	26.12	25.90	25.86	25.54	25.39	
MINIMUM VALUE	25.50	25.55	25.38	25.32	25.59	25.08	25.56	25.10	24.93	24.98	25.11	24.96	
RANGE	0.57	0.48	0.70	0.93	0.89	1.34	0.84	1.02	0.97	0.87	0.43	0.42	
STANDARD DEV.	0.17	0.13	0.21	0.24	0.25	0.40	0.19	0.26	0.19	0.23	0.12	0.11	
ANNUAL MIN	24.93			ANNUAL MEAN	25.69			ANNUAL MAX	26.48				

MORRO BAY

TEMPERATURE

YEAR 1989

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	11.7	11.7	11.1	11.7	12.8			16.1	14.4	15.6	13.3	12.8
2	11.1	10.0	11.7	12.2	13.3			13.9	13.9	13.9	13.3	12.8
3	11.0	11.7	11.7	11.7	12.8		13.9	13.9	13.9	12.8	13.3	12.8
4	11.1	12.2	11.1	12.2	12.8		16.1	15.0	13.9	12.8	13.3	12.8
5	11.7	12.2	11.1	12.2	12.8		15.6	13.9	13.9	13.3	13.3	12.8
6	11.7	11.1	11.7	12.8	12.8		13.9	13.3	13.9	13.3	13.3	12.8
7	11.1	10.6	11.7	12.8	12.8		14.4	14.4	14.4	14.4	13.3	12.8
8	11.1	10.6	11.7	12.8	12.2		13.9	14.4	14.4	14.4	12.8	12.8
9	11.1	10.6	11.1	12.2	13.3		13.9	14.4	14.4	14.4	12.8	13.3
10	11.1	11.1	12.2	12.8	13.3		13.3	13.3	13.3	14.4	13.3	13.3
11	10.0	11.1	12.2	12.8	13.3		15.0	13.3	14.4	14.4	14.4	13.3
12	10.0	11.1	12.2	12.8	13.3		15.6	13.9	13.9	13.9	12.8	13.3
13	10.0	11.1	11.7	12.8	13.3	12.2	15.6	13.9	13.9	13.9	13.3	12.8
14	10.0	11.1	11.7	12.8	13.3	14.4	15.6	13.9	13.9	13.9	12.8	13.3
15	10.0	11.1	11.7	12.8	13.3	12.8	14.4	13.9	13.3	13.3	12.8	13.3
16	10.0	11.1	11.7	13.3	14.4	13.3	16.7	15.0	13.3	12.8	12.8	13.3
17	10.0	11.1	11.7	12.8	13.3	13.9	14.4	14.4	13.3	13.3	13.3	13.3
18	9.4	12.2	11.7	13.3	14.4	12.8	14.4	15.6	13.3	13.3	14.4	15.6
19	8.9	11.7	11.7	13.3	13.3	12.8	14.4	15.0	13.3	13.3	12.8	13.3
20	8.3	12.8	12.2	13.9	12.8	12.8	14.4	15.0	13.3	13.3	12.8	13.3
21	10.0	12.2	11.1	13.9	13.3	13.9	13.9	15.0	13.3	13.3	13.3	13.3
22	10.6	11.7	12.2	13.3	14.4	14.4	13.3	15.6	13.3	13.3	13.3	13.3
23	10.6	12.2	11.7	12.8	14.4	12.8	13.3	15.6	14.4	14.4	13.9	12.8
24	9.4	12.2	12.2	14.4	12.8	12.2	12.8	17.8	14.4	14.4	13.9	12.8
25	9.4	12.2	11.7	12.8	13.3	12.2	12.8	15.6	15.0	15.0	13.9	12.8
26	11.1	12.2	12.8	13.3	14.4	14.4	13.9	15.0	13.9	13.9	13.3	13.3
27	11.1	12.2	12.2	12.8	15.0	13.9	13.3	15.6	13.9	13.9	12.8	13.3
28	11.1	11.7	12.8	12.8	14.4	13.9	13.3	16.7	12.8	12.8	12.8	12.8
29	10.6	11.1	12.2	13.3	14.4	13.9	13.3	16.7	13.3	13.3	13.3	12.8
30	11.1	11.1	12.2	13.3	13.3	13.9	13.3	16.7	13.3	13.3	13.3	12.8
31	11.7	12.2	12.2	13.3	13.3	13.9	13.3	16.7	13.3	13.3	13.3	12.8
1-10 MEANS	11.17	11.18	11.82	12.45	12.79		14.51	14.37	14.03	14.00	13.10	12.85
SAMPLE SIZE	10	10	10	10	8		8	9	4	10	10	10
11-20 MEANS	9.77	11.56	11.90	13.00		13.17	14.94	14.39		13.65	13.27	13.10
SAMPLE SIZE	10	10	10	10		7	10	10		10	10	10
21-31 MEANS	10.56	12.07	12.12	13.27		13.93	13.46	15.75		13.98	13.32	12.98
SAMPLE SIZE	11	8	11	10		10	9	10		11	10	11
MONTHLY MEANS	10.50	11.57	11.89	12.91	12.79	13.62	14.32	14.85	14.03	13.88	13.23	12.98
SAMPLE SIZE	31	28	31	30	8	17	27	29	4	31	30	31
MAXIMUM VALUE	11.7	12.8	12.8	14.4	13.3	15.0	16.7	17.8	14.4	15.6	14.4	13.3
MINIMUM VALUE	8.3	10.0	11.1	11.7	12.2	12.2	12.8	13.3	13.9	12.8	12.8	12.8
RANGE	3.4	2.8	1.7	2.7	1.1	2.8	3.9	4.5	0.5	2.8	1.6	0.5
STANDARD DEV.	0.86	0.67	0.49	0.60	0.29	0.87	1.00	1.12	0.25	0.71	0.44	0.24
ANNUAL MIN	8.3			ANNUAL MEAN		13.05		ANNUAL MAX		17.8		

PORT SAN LUIS

TEMPERATURE

YEAR 1989

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10.6	10.6	11.1		12.2	11.7		14.4	15.6		13.9	13.3
2			11.1	12.2	12.2			15.0	15.6	13.3	13.9	
3	10.6		11.1	12.2	12.2			14.4			13.9	
4	11.1			12.2	12.8	12.2	16.1		15.6	13.9		13.9
5				12.2	12.8	12.2	15.6		15.6	14.4	13.9	13.9
6			11.1	12.2		11.7	15.0	14.4	12.8	13.9	13.9	14.4
7		10.0	11.1		12.8	11.7						
8	11.1	10.0	11.1	12.2	12.8	11.7	14.4	15.0	21.1	15.0	13.9	
9	11.1	11.1	11.1	12.2	12.8			15.0	21.1	15.6	13.9	
10	11.1	11.1		12.8	12.8	12.2	14.4		21.7	14.4	13.9	14.4
11	10.6	11.1	11.1	13.3	11.7	12.2	15.6		20.0	14.4	13.9	
12	10.6	11.1	11.1	13.3		12.2	16.1		15.0	14.4	13.9	13.3
13		10.6	11.1			12.2	15.6		15.6	13.9	13.9	13.3
14			11.1	13.3		12.8	16.7		16.7	14.4	14.4	13.3
15			11.1		11.1	14.4		14.4	15.0		14.4	
16	10.0	11.1	11.1	12.8		14.4	15.0	14.4	13.9	15.0	13.9	13.3
17	10.0	10.0	11.1	12.8	10.6	14.4	16.1	15.0	13.9	15.0	13.9	13.3
18	10.0	10.0		12.8		11.7			13.9	15.0	13.9	13.9
19	10.0		12.2				14.4	15.0	14.4			
20		11.7	12.2	13.3		13.9	14.4	15.0		15.0	13.9	
21		11.1			10.0			15.0				
22		11.1	12.2		10.0	13.9	14.4	15.0	14.4	15.6	13.9	
23	10.0	11.1	12.2	12.2	10.0		14.4	16.1	14.4			
24	10.0	11.1		12.2	10.0	13.9	15.0	15.6	14.4	15.6	13.3	13.3
25	10.0	11.7		12.8	10.6		15.0		13.9	15.0	13.3	13.3
26	10.6			12.8		13.9			13.3			
27	10.6		11.1	12.2		14.4	14.4	13.3	13.3	14.4	13.9	
28			11.1		10.6	14.4		14.4		14.4		
29	10.6		11.1		12.2	14.4	13.3					
30	10.6		11.7									
31	10.6											
1-10 MEANS	10.90	10.15	11.10	12.30	12.54	11.87	15.34	14.52	15.67	14.35	13.90	13.88
SAMPLE SIZE	5	4	8	6	7	6	5	6	6	6	6	5
11-20 MEANS	10.29	11.00	11.28	12.94	11.55	13.04	15.65	14.76	16.26	14.74	14.07	13.48
SAMPLE SIZE	8	5	6	7	4	8	6	5	8	7	6	6
21-31 MEANS	10.34	11.34	11.59	12.58	10.57	14.07	14.33	14.93	13.94	15.00	13.60	13.50
SAMPLE SIZE	7	5	8	6	6	6	7	8	7	6	6	3
MONTHLY MEANS	10.46	10.88	11.33	12.63	11.61	12.99	15.05	14.75	15.32	14.70	13.86	13.63
SAMPLE SIZE	20	14	22	19	17	20	18	19	21	19	18	14
MAXIMUM VALUE	11.1	11.7	12.2	13.3	12.8	14.4	16.7	16.1	21.7	15.6	14.4	14.4
MINIMUM VALUE	10.0	10.0	11.1	12.2	10.0	11.7	13.3	13.3	12.8	13.3	13.3	13.3
RANGE	1.1	1.7	1.1	1.1	2.8	2.7	3.4	2.8	8.9	2.3	1.1	1.1
STANDARD DEV.	0.43	0.57	0.44	0.41	1.11	1.14	0.87	0.64	2.55	0.62	0.30	0.43
ANNUAL MIN	10.0					13.10						
ANNUAL MEAN												
ANNUAL MAX												
												21.7

DAYS	SANTA BARBARA				TEMPERATURE					YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	11.5	12.2	13.9		14.8		17.6	19.2		17.4		16.7	
2	11.7	12.2	13.9		14.8			19.4		17.2		15.6	
3	11.7	12.2	13.4	15.9	14.8	14.9		19.2		16.5		15.2	
4	11.7	12.2		15.9	14.8		19.5	18.1	18.1	16.2		15.0	
5	11.7	12.2		15.9	16.4			18.8		16.2	16.0	15.0	
6	11.7	12.2					20.3	18.6		17.2	16.0	15.0	
7		11.1	14.0	13.6		14.9			17.6			15.0	
8	11.5	11.7	14.3		16.2	15.8						15.0	
9	11.7	11.7	14.9	16.5	16.2		18.5					15.6	
10	11.1	11.7		16.6	16.2				17.8	18.0		15.6	
11	11.1	11.7	14.9	16.6					18.3	18.2		15.6	
12		11.7	14.2	16.6		16.6	16.6		18.3	18.2	16.1	15.6	
13	11.0	11.1	14.8	14.8	13.6		17.2		17.8	17.9	16.2	15.6	
14	11.1	11.1	14.8						17.6			15.6	
15	11.1	11.7	14.8									15.2	
16	11.1	11.9	14.8									15.0	
17	11.1	11.7	14.3			17.4		17.2				15.0	
18	11.7	11.7			15.3				16.8			15.0	
19	11.1	12.1	14.6	14.8	14.8	18.1	17.6	17.6	15.3	18.4	15.9	14.9	
20	12.1	12.8	13.9	15.0		19.2	18.2	17.6	15.3			15.0	
21	11.1	13.0		15.0	16.8			17.5	15.4	18.1	16.1	14.4	
22	12.2		13.9	15.5	18.6	19.2	19.0	17.6	15.4			15.0	
23		13.2		13.8		19.2	17.8					15.0	
24		13.0		13.8		19.2	18.2			18.1		15.0	
25		13.5	14.1	13.8		19.2	17.8	17.6	17.3			15.0	
26	12.2	13.9		14.2			18.5	17.4				15.0	
27	12.2	13.5		14.2			18.3	17.5		15.5	15.7	15.3	
28	12.2			14.1						15.5		15.0	
29	12.2		14.3									15.0	
30	12.2											14.9	
31			15.9				18.7						
1-10 MEANS	11.59	11.97	14.10	15.56	15.53	15.20	18.98	19.07	17.85	16.78	16.00	15.37	
SAMPLE SIZE	9	9	5	5	6	3	4	6	2	6	2	10	
11-20 MEANS	11.21	11.64	14.59	15.56	14.57	17.83	17.40	17.40	17.15	18.14	16.07	15.31	
SAMPLE SIZE	8	7	8	5	3	4	4	2	8	5	3	10	
21-31 MEANS	12.07	13.17	14.42	14.46	17.70	19.20	18.33	17.50	16.03	16.80	15.90	14.95	
SAMPLE SIZE	8	6	5	8	2	4	7	7	3	4	2	11	
MONTHLY MEANS	11.62	12.19	14.41	15.07	15.66	17.61	18.25	18.11	17.00	17.24	16.00	15.20	
SAMPLE SIZE	25	22	18	18	11	11	15	15	13	15	7	31	
MAXIMUM VALUE	12.3	13.5	15.9	16.6	18.6	19.2	20.3	19.4	18.3	18.4	16.2	16.7	
MINIMUM VALUE	11.0	11.1	13.4	13.6	13.6	14.9	16.6	17.2	15.3	15.5	15.7	14.4	
RANGE	1.3	2.4	2.5	3.0	5.0	4.3	3.7	2.2	3.0	2.9	0.5	2.3	
STANDARD DEV.	0.47	0.70	0.56	1.03	1.36	1.79	0.92	0.83	1.21	1.02	0.16	0.41	
ANNUAL MIN	11.0				ANNUAL MEAN				15.70				
ANNUAL MAX									ANNUAL MAX				
									20.3				

DAYS	POINT DUME			TEMPERATURE							YEAR 1989		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	12.0	12.9	13.7	13.5	13.8	14.3	16.6	18.1	17.3	16.4	16.5	16.0	
2	11.5	12.9	14.2	13.7	13.8	14.6	16.6	18.4	17.7	19.2	15.8	15.5	
3	11.5	12.6	14.2	13.7	14.5	15.2	17.7	18.2	16.0	17.4	16.0	15.4	
4	13.2	13.1	12.0	13.2	15.7		16.6	18.2	17.5	16.9	15.9	15.7	
5	13.2	11.5	12.6	14.3	15.4	16.4	16.0	18.6	16.5	16.9	16.0	15.7	
6	12.1	10.9	14.2	15.5	16.2	15.5	16.6	19.2	15.9	18.7	16.4	15.8	
7	11.7	9.8	14.2	15.8	16.1	15.2	17.8	18.5	16.1	19.1	17.1	16.3	
8	11.5	10.4	14.2	16.5	15.5	15.2	19.0	16.5	16.6	18.7	16.9	16.2	
9	12.1	11.5	13.7	16.5	16.8	15.2	19.4	18.2	14.9	19.2	17.1	16.1	
10	12.1	11.2	13.7	17.1	16.5	14.0	19.0	18.2	16.8	18.4	16.7	15.8	
11	12.1	11.2	13.7	16.3	13.5	14.3	18.4	16.6	17.6	18.1	16.3	15.8	
12	12.1	11.8	14.2	16.6	13.7	14.6	18.8	16.6	18.1	17.8	16.7	15.5	
13	12.1	11.5	13.7	16.8	13.0	14.5	18.0	17.0	18.3	18.6	16.8	15.4	
14	12.1	11.1	12.6	16.6	13.6	14.8	19.3	17.3	16.4	16.8	16.8	15.3	
15	12.1	12.0	13.7	16.4	13.7	15.6	18.7	18.1	16.8	16.6	15.8	15.4	
16	12.1	12.0	13.7	16.6	13.7	17.1	18.7	19.1	17.0	16.3	16.4	15.7	
17	11.9	11.7	12.6	17.1	14.8	17.2	19.0	19.3	16.9	16.0	15.9	15.3	
18	12.1	11.5	13.1	15.4	15.0	17.5	19.1	15.3	15.3	16.6	16.5	15.2	
19	12.1	12.0	13.7	14.8	15.4	18.8	19.0	14.8	14.4	16.3	16.8	15.9	
20	12.1	12.1	13.7	14.8	15.4	17.5	18.8	14.5	16.1	17.0	17.3	15.9	
21	12.1	12.6	13.1	14.8	13.8	17.6	19.9	17.0	16.4	17.0	16.9	15.8	
22	12.1	12.6	14.2	13.7	12.7	17.7	20.0	14.4	17.0	18.0	16.9	15.9	
23	12.6	12.7	14.2	13.7	12.5	18.2	20.0	14.0	17.0	17.5	16.7	15.5	
24	11.9	12.7	14.2	12.6	12.1	18.8	18.7	15.2	17.9	17.5	17.5	15.7	
25	11.8	12.6	14.2	12.6	12.5	18.9	18.7	16.1	18.5	17.5	17.7	15.3	
26	11.5	12.6	13.2	12.6	17.7	18.9	16.9	16.9	17.8	13.3	17.3	15.5	
27	12.1	13.7	13.7	13.2	13.8	17.1	17.2	15.9	17.8	12.9	15.4	15.5	
28	12.1	13.8	14.2	13.1	14.2	17.6	19.8	16.2	17.9	15.8	16.0	15.5	
29	12.3		14.2	13.6	12.6	14.4	19.1	16.6	16.6	14.5	15.8	15.2	
30	12.6		14.2	14.4	13.6	15.1	18.1	16.9	13.0	14.7	15.9	14.9	
31	12.4		14.2	13.7	13.7		17.7	17.3	15.3	15.3		15.3	
1-10 MEANS SAMPLE SIZE	12.09 10	11.68 10	13.67 10	14.86 10	15.43 10	15.07 9	17.53 10	18.21 10	16.53 10	18.09 10	16.44 10	15.85 10	
11-20 MEANS SAMPLE SIZE	11.99 10	11.69 10	13.47 10	16.14 10	14.18 10	16.19 10	18.78 10	16.86 10	16.89 10	17.01 10	16.54 10	15.54 10	
21-31 MEANS SAMPLE SIZE	12.14 11	12.91 8	13.96 11	13.43 10	13.56 11	17.43 10	18.74 11	16.05 11	16.99 10	15.82 11	16.61 10	15.46 11	
MONTHLY MEANS SAMPLE SIZE	12.07 31	12.04 28	13.71 31	14.81 30	14.36 31	16.27 29	18.36 31	17.01 31	16.80 30	16.94 31	16.53 30	15.61 31	
MAXIMUM VALUE	13.2	13.8	14.2	17.1	17.7	18.9	20.0	19.3	18.5	19.2	17.7	16.3	
MINIMUM VALUE	11.2	9.8	12.0	12.6	12.1	14.0	16.0	14.0	13.0	12.9	15.4	14.9	
RANGE	2.0	4.0	2.2	4.5	5.6	4.9	4.0	5.3	5.5	6.3	2.3	1.4	
STANDARD DEV.	0.43	0.93	0.61	1.50	1.41	1.64	1.13	1.48	1.24	1.60	0.58	0.32	
ANNUAL MIN	9.8			ANNUAL MEAN	15.38		ANNUAL MAX	20.0					

DAYS	SANTA MONICA				TEMPERATURE					YEAR 1989		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12.8	13.9			18.3	17.8		22.2	19.4	19.4	15.6	
2	12.5	12.2		16.4	18.9		20.8	21.7	19.4	18.9	16.1	16.7
3			12.8	17.8		17.8	20.0	21.7	20.3	18.3	16.7	16.7
4	12.8	11.9	13.3	18.3	18.3	17.2	20.0	21.1	18.9	18.9	17.2	16.7
5	12.8	11.7	13.3	17.8	17.8	17.2			19.4	19.4	16.7	16.7
6	12.8	11.7	14.4	17.8	18.3	17.8	19.7	20.6	19.4	20.6	17.5	
7	12.8	11.7	14.7	17.8	18.3	18.3	20.0	21.1	20.0	19.4	17.5	16.7
8	13.3			17.8		18.3	20.6	21.1	20.0	19.4		
9		11.1	15.0	17.2	17.8	18.3	20.6	21.1	20.0	19.4		16.7
10	12.8	11.7	15.0	17.2	17.8	18.6	20.6	21.1	19.4	19.4	17.2	16.1
11	12.8	11.7	15.0	17.5	16.1		21.1	20.8	18.9	19.4	17.2	16.1
12	11.7	11.1				18.3	21.9	21.1	18.9	19.4	17.8	16.1
13	11.1	11.4	15.0	17.2	17.2	18.3	20.6	20.0	19.2	19.2	16.4	
14	11.7	11.7	15.0	17.2	17.8	18.3	20.6	20.0	18.3	18.3	16.7	16.1
15	11.7	11.7	15.0	17.5	17.8	18.3	20.6	20.6	19.2	18.3	17.2	16.1
16	12.2	12.2	16.1	17.5	17.8	18.3	20.0	20.6	19.2	18.6	17.8	16.1
17	12.8	12.2		17.2	17.8	19.2	20.0	20.6	17.8	18.6	17.8	15.6
18						18.9	20.0	19.4	18.9		17.2	
19						18.6	20.0	20.0	18.3	18.3	17.8	16.1
20	12.2	12.2	16.4	17.2	17.8		21.7	21.1	18.9	18.3		
21	12.2	12.2	15.6	16.7	17.5	18.6	21.1	18.3	20.6	18.3	17.2	15.6
22	11.7	12.2	16.1	16.7			21.1	18.3	21.1		16.7	
23	11.7	12.8			16.1	18.9	21.1					
24	11.7				16.1	18.3	21.1					
25					16.7	18.6	21.1					
26			15.8	17.2	16.7	18.9	21.1	18.3	18.3	18.3	16.7	
27	12.2	12.8	16.4		16.7				20.0	17.2	16.7	
28	12.2	13.9		17.8	18.6		22.2	17.8	20.0	16.1	15.6	
29			16.1					19.4	20.0			
30								20.0				
31												
1-10 MEANS SAMPLE SIZE	12.83 6	12.08 6	13.70 5	17.65 6	18.32 6	17.68 6	20.10 5	21.40 6	19.54 7	19.27 7	16.53 6	16.70 5
11-20 MEANS SAMPLE SIZE	12.05 8	11.63 6	15.23 6	17.37 7	17.42 6	18.56 7	20.68 8	20.62 5	18.42 6	18.97 6	17.32 6	16.00 7
21-31 MEANS SAMPLE SIZE	12.00 5	12.68 6	16.07 7	17.12 5	17.07 7	18.65 5	21.38 6	18.76 7	19.92 6	17.75 6	17.12 5	15.85 4
MONTHLY MEANS SAMPLE SIZE	12.28 19	12.13 18	15.13 18	17.39 18	17.57 19	18.29 18	20.75 19	20.16 18	19.31 19	18.69 19	16.98 17	16.18 16
MAXIMUM VALUE	13.3	13.9	16.4	18.3	18.9	19.2	22.2	22.2	21.1	20.6	17.8	16.7
MINIMUM VALUE	11.1	11.1	12.8	16.4	16.1	17.2	19.7	17.8	17.8	16.1	15.6	15.6
RANGE	2.2	2.8	3.6	1.9	2.8	2.0	2.5	4.4	3.3	4.5	2.2	1.1
STANDARD DEV.	0.56	0.80	1.10	0.47	0.86	0.56	0.70	1.34	0.90	0.95	0.63	0.43
ANNUAL MIN	11.1			ANNUAL MEAN		17.07		ANNUAL MAX		22.2		

DAYS	BALBOA	TEMPERATURE												YEAR 1989	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	12.8	13.6	13.9	13.9	15.6	15.0	18.9	17.8	21.7	13.5	18.9	16.1	17.5		
2	12.8	13.9	13.9	13.9	15.6	15.6	18.3	17.8	21.4	18.1	19.5	16.1	17.2		
3	12.8	13.9	13.9	13.9	15.6	15.6	18.3	17.8	21.4	18.1	19.5	16.1	17.2		
4	12.8	13.9	13.9	13.9	15.6	15.6	18.3	17.8	21.4	18.1	19.5	16.1	17.2		
5	13.3	12.8	13.9	13.9	16.1	16.7	18.3	16.1	20.6	18.1	18.9	17.7	17.2		
6	13.1	12.0	13.9	13.9	16.1	16.7	18.3	16.1	20.6	18.1	18.9	17.7	17.2		
7	12.9	12.0	13.9	13.9	16.1	16.7	18.3	16.1	20.6	18.1	18.9	17.7	17.2		
8	12.9	12.0	13.9	13.9	16.1	16.7	18.3	16.1	20.6	18.1	18.9	17.7	17.2		
9	12.7	12.0	13.9	13.9	16.1	16.7	18.3	16.1	20.6	18.1	18.9	17.7	17.2		
10	12.7	12.0	13.9	13.9	16.1	16.7	18.3	16.1	20.6	18.1	18.9	17.7	17.2		
11	12.8	12.6	13.7	13.7	18.6	18.3	18.3	21.1	18.2	18.3	19.5	16.7	16.7		
12	12.8	12.6	13.7	13.7	18.6	18.3	18.3	21.1	18.2	18.3	19.5	16.7	16.7		
13	12.2	12.8	13.9	13.9	18.4	17.7	17.5	20.7	19.0	18.9	17.5	17.8	16.9		
14	12.2	12.8	13.9	13.9	18.4	17.7	17.5	20.7	19.0	18.9	17.5	17.8	16.9		
15	12.0	12.2	13.9	13.9	17.2	17.8	18.3	18.9	19.7	18.6	16.6	17.8	16.3		
16	12.0	12.2	13.9	13.9	17.2	17.8	18.3	18.9	19.7	18.6	16.6	17.8	16.3		
17	12.2	12.8	13.9	13.9	17.2	17.8	18.3	18.9	19.7	18.6	16.6	17.8	16.3		
18	12.2	12.8	13.9	13.9	17.2	17.8	18.3	18.9	19.7	18.6	16.6	17.8	16.3		
19	12.8	12.8	14.4	14.4	17.4	18.3	18.9	21.3	18.1	21.1	17.8	17.8	15.7		
20	12.8	12.8	14.4	14.4	17.4	18.3	18.9	21.3	18.1	21.1	17.8	17.8	15.7		
21	13.1	12.8	14.4	14.4	17.4	18.3	18.9	21.3	18.1	21.1	17.8	17.8	15.7		
22	13.1	12.8	14.4	14.4	17.4	18.3	18.9	21.3	18.1	21.1	17.8	17.8	15.7		
23	13.3	12.8	14.4	14.4	17.4	18.3	18.9	21.3	18.1	21.1	17.8	17.8	15.7		
24	13.3	12.8	14.4	14.4	17.4	18.3	18.9	21.3	18.1	21.1	17.8	17.8	15.7		
25	13.3	12.8	14.4	14.4	17.4	18.3	18.9	21.3	18.1	21.1	17.8	17.8	15.7		
26	12.7	13.3	13.9	13.9	15.0	16.7	19.5	21.1	18.9	18.6	18.9	18.3	16.7		
27	12.8	13.3	13.9	13.9	15.0	16.7	19.5	21.1	18.9	18.6	18.9	18.3	16.7		
28	13.1	13.3	13.9	13.9	15.0	16.7	19.5	21.1	18.9	18.6	18.9	18.3	16.7		
29	13.1	13.3	13.9	13.9	15.0	16.7	19.5	21.1	18.9	18.6	18.9	18.3	16.7		
30	13.1	13.3	13.9	13.9	15.0	16.7	19.5	21.1	18.9	18.6	18.9	18.3	16.7		
31	13.3	13.3	14.4	14.4	16.1	17.8	13.9	21.1	18.3	17.8	16.4	17.7	16.4		
1-10 MEANS	12.65	12.83	13.47	16.78	17.01	18.13	18.13	18.68	20.33	18.35	19.25	16.72	17.16		
SAMPLE SIZE	10	10	10	10	10	10	10	8	10	10	10	10	9		
11-20 MEANS	12.42	12.66	13.97	17.84	17.68	18.29	18.29	20.68	18.70	18.62	17.94	17.83	16.68		
SAMPLE SIZE	10	10	10	10	10	10	10	9	10	10	10	10	10		
21-31 MEANS	13.13	13.11	15.39	15.98	17.11	18.29	18.29	21.14	18.42	17.95	17.26	18.15	16.58		
SAMPLE SIZE	11	8	11	10	11	10	10	11	11	10	11	10	10		
MONTHLY MEANS	12.75	12.85	14.31	16.87	17.26	18.24	18.24	20.29	19.13	18.31	18.12	17.57	16.79		
SAMPLE SIZE	31	28	31	30	31	30	30	28	31	30	31	30	29		
MAXIMUM VALUE	13.3	13.9	17.2	18.6	18.3	20.0	22.2	22.2	21.7	21.1	20.0	18.3	17.5		
MINIMUM VALUE	11.7	12.0	12.8	15.0	15.0	13.9	16.1	16.1	17.5	15.6	15.0	16.1	16.1		
RANGE	1.6	1.9	4.4	3.6	3.3	6.1	6.1	6.1	4.2	5.5	5.0	2.2	1.4		
STANDARD DEV.	0.46	0.58	1.16	1.23	0.92	1.39	1.39	1.58	1.20	1.11	1.27	0.74	0.31		
ANNUAL MIN	11.7			ANNUAL MEAN	16.87				ANNUAL MAX	22.2					

DAYS	BALBOA			SALINITY				YEAR 1989				
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.31	33.87	33.47	33.45	33.54	33.75	33.50	33.77	33.52	33.49	33.62	33.71
2	33.45	33.53	33.47	33.46	33.60	33.64	33.51	33.64	33.52	33.51	33.45	33.73
3	33.53	33.53	33.46	33.51	33.79	33.72	33.57	33.52	33.52	33.54	33.48	33.66
4	33.59	33.28	33.58	33.50	33.53	33.69	33.53	33.66	33.61	33.55	33.70	33.64
5	33.19	33.63	33.42	33.33	33.56	33.62	33.68	33.63	33.78	33.58	33.56	33.65
6	33.20	33.61	33.42	33.30	33.36	33.76	33.52	33.49	33.48	33.56	33.61	33.84
7	33.26	33.66	33.49	33.50	33.39	33.69	33.63	33.69	33.54	33.56	33.69	33.63
8	33.40	33.47	33.49	33.64	33.62	33.84	33.62	33.78	33.69	33.53	33.59	33.62
9	33.50	33.41	33.49	33.35	33.60	33.62	33.49	33.58	33.49	33.59	33.62	33.68
10	33.59	33.42	33.51	33.49	33.64	33.58	33.49	33.50	33.47	33.58	33.60	33.64
11	33.50	33.41	33.53	33.52	33.58	33.67	33.76	33.53	33.65	33.55	33.58	33.54
12	33.52	33.26	33.53	33.52	33.58	33.67	33.65	33.54	33.51	33.54	33.82	33.74
13	33.72	33.33	33.66	33.72	33.58	34.09	33.50	33.59	33.49	33.56	33.70	33.66
14	33.50	33.31	33.67	33.64	33.77	33.63	33.61	33.49	33.49	33.33	33.59	33.56
15	33.46	33.36	33.56	33.55	33.61	33.62	33.65	33.51	33.50	33.39	33.59	33.56
16	33.80	33.36	33.55	33.54	33.63	33.60	33.87	33.52	33.52	33.40	33.61	33.63
17	33.71	33.39	33.61	33.53	33.74	33.67	33.52	33.52	33.65	33.41	33.61	33.63
18	33.61	33.36	33.53	33.51	33.63	33.68	33.73	33.55	33.52	33.42	33.63	33.65
19	33.51	33.36	33.51	33.57	33.61	33.49	33.65	33.65	33.59	33.42	33.66	33.60
20	33.60	33.34	33.40	33.51	33.60	33.49	33.48	33.49	33.42	33.52	33.71	33.59
21	33.51	33.31	33.45	33.53	33.57	33.48	33.80	33.47	33.38	33.45	33.68	33.65
22	33.51	33.44	33.44	33.62	33.55	33.88	33.69	33.57	33.30	33.53	33.68	33.59
23	33.55	33.38	33.46	33.53	33.55	33.51	33.51	33.50	33.71	33.56	33.82	33.62
24	33.52	33.62	33.52	33.56	33.57	33.68	33.62	33.50	33.43	33.40	33.74	33.60
25	33.57	33.37	32.91	33.79	33.56	33.48	33.61	33.52	33.40	33.38	33.68	33.61
26	33.52	33.43	32.91	33.54	33.57	33.49	33.55	33.51	33.41	33.40	33.76	33.69
27	33.51	33.41	33.49	33.60	33.58	33.48	33.66	33.56	33.44	33.40	33.76	33.69
28	33.51	33.48	33.51	33.54	33.63	33.51	33.52	33.54	33.43	33.56	33.71	33.54
29	33.51	33.48	33.51	33.59	33.58	33.49	33.49	33.51	33.43	33.56	33.81	33.58
30	33.54	33.54	33.51	33.66	33.63	33.84	33.62	33.45	33.62	33.59	33.81	33.58
31	33.54	33.54	33.58	33.54	33.64	33.49	33.49	33.46	33.44	33.44	33.59	33.59
1-10 MEANS	33.39	33.53	33.47	33.52	33.60	33.69	33.56	33.63	33.56	33.55	33.59	33.68
SAMPLE SIZE	10	10	9	10	10	10	10	10	10	10	10	10
11-20 MEANS	33.59	33.35	33.58	33.57	33.64	33.65	33.64	33.55	33.53	33.45	33.65	33.67
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	8	10
21-31 MEANS	33.53	33.46	33.39	33.60	33.58	33.58	33.60	33.51	33.48	33.48	33.73	33.61
SAMPLE SIZE	11	8	11	10	11	10	11	11	8	11	10	11
MONTHLY MEANS	33.50	33.44	33.48	33.56	33.61	33.64	33.60	33.56	33.53	33.49	33.66	33.65
SAMPLE SIZE	31	28	30	30	31	30	31	31	28	31	28	31
MAXIMUM VALDE	33.80	33.87	33.76	33.79	33.79	34.09	33.87	33.78	33.78	33.59	33.82	33.84
MINIMUM VALDE	33.19	33.26	32.91	33.45	33.53	33.48	33.48	33.45	33.38	33.33	33.45	33.54
RANGE	0.61	0.61	0.85	0.34	0.26	0.61	0.39	0.33	0.40	0.26	0.37	0.30
STANDARD DEV.	0.13	0.14	0.17	0.07	0.06	0.14	0.10	0.08	0.10	0.07	0.09	0.06
ANNUAL MIN	32.91			ANNUAL MEAN		33.56		ANNUAL MAX		34.09		

DAYS	BALBOA					SIGMA T					YEAR 1989				
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
1	25.12	25.40	25.03	24.65	24.85	24.09	24.17	23.37	23.76	23.89	24.66	24.41			
2	25.23	25.07	25.09	24.65	24.76	24.16	24.18	23.35	24.12	23.76	24.53	24.49			
3	25.29	25.07	25.02	24.69	24.40	24.22	24.03	23.28	23.91	23.78	24.52	24.44			
4	25.19	24.88	25.08	24.57	24.46	24.20	23.28	23.26	23.92	23.94	24.59	24.42			
5	24.93	25.37	25.13	24.60	24.48	24.14	24.71	23.56	24.31	23.96	24.54	24.43			
6	24.98	25.43	25.08	24.65	24.22	24.25	23.92	23.45	23.89	23.87	24.66	24.58			
7	25.09	25.55	25.08	24.17	24.12	24.46	24.05	23.84	24.46	24.02	24.46	24.42			
8	25.31	25.40	25.26	24.16	24.78	24.43	23.79	24.04	24.20	23.77	24.39	24.46			
9	25.55	25.35	25.26	24.09	24.13	24.27	23.18	24.16	24.04	23.69	24.53	24.54			
10	25.46	25.32	25.18	24.04	24.16	24.16	23.52	23.77	24.22	23.81	24.51	24.54			
11	25.27	25.24	25.11	24.01	24.28	24.10	23.55	23.77	24.29	23.94	24.38	24.63			
12	25.29	25.09	25.19	24.07	24.50	24.45	23.55	23.08	24.06	24.08	24.58	24.62			
13	25.56	25.14	25.17	24.19	24.28	24.70	23.99	23.94	23.89	24.29	24.56	24.59			
14	25.39	25.24	25.18	24.13	24.45	24.15	23.99	23.87	23.97	23.85	24.59	24.59			
15	25.62	25.16	25.25	24.36	24.26	24.14	24.09	23.70	23.72	23.97	24.55	24.55			
16	25.16	25.16	25.09	24.60	24.27	24.13	23.74	23.90	23.76	24.10	24.27	24.55			
17	25.55	25.19	25.13	24.20	24.23	24.03	23.29	24.12	23.44	24.10	24.26	24.53			
18	25.47	25.16	24.97	24.28	24.15	24.04	23.39	24.02	23.99	24.26	24.15	24.53			
19	25.28	25.15	24.95	24.10	24.20	23.89	23.28	24.29	23.97	24.26	24.17	24.51			
20	25.35	25.15	24.90	24.18	24.25	24.04	23.15	24.17	24.37	24.19	24.21	24.50			
21	25.18	25.12	24.90	24.20	24.37	23.60	23.15	24.03	24.59	24.01	24.19	24.50			
22	25.22	25.12	24.92	24.66	24.47	23.91	23.17	24.23	24.61	24.00	24.39	24.50			
23	25.21	25.18	24.79	24.60	24.61	23.63	23.03	24.25	24.14	23.90	24.39	24.53			
24	25.19	25.26	24.47	24.48	24.74	23.89	23.42	24.05	24.00	24.30	24.53	24.53			
25	25.33	25.07	24.59	24.04	24.48	23.73	23.56	23.92	24.00	23.83	24.23	24.52			
26	25.31	25.12	24.59	24.85	24.37	23.89	23.50	23.88	24.00	24.72	24.19	24.52			
27	25.28	25.16	24.81	24.89	24.16	23.89	23.45	23.92	23.83	24.61	24.37	24.58			
28	25.22	25.16	24.82	24.78	24.27	24.06	23.42	24.08	23.86	24.39	24.37	24.53			
29	25.22	25.16	24.82	24.50	24.38	25.04	23.32	24.06	24.00	24.62	24.31	24.53			
30	25.24	25.16	24.95	24.70	24.27	25.31	23.42	24.01	24.27	24.57	24.43	24.64			
31	25.20	25.13	25.01	24.70	24.28	25.04	23.32	23.87	24.46	24.46	24.64	24.64			
1-10 MEANS	25.21	25.29	25.13	24.43	24.43	24.24	24.00	23.62	24.08	23.85	24.50	24.47			
SAMPLE SIZE	10	10	9	10	10	10	8	10	10	10	10	9			
11-20 MEANS	25.42	25.18	25.09	24.21	24.31	24.17	23.56	23.99	23.99	24.10	24.28	24.57			
SAMPLE SIZE	10	10	10	10	10	10	9	10	10	10	8	10			
21-31 MEANS	25.23	25.17	24.64	24.67	24.40	24.10	23.39	24.03	24.16	24.28	24.26	24.55			
SAMPLE SIZE	11	8	11	10	11	10	11	11	8	11	10	10			
MONTHLY MEANS	25.28	25.22	24.94	24.44	24.38	24.17	23.62	23.88	24.07	24.08	24.35	24.53			
SAMPLE SIZE	31	28	30	30	31	30	28	31	28	31	28	29			
MAXIMUM VALUE	25.62	25.55	25.26	25.04	24.85	25.31	24.71	24.29	24.61	24.72	24.66	24.65			
MINIMUM VALUE	24.93	24.88	24.27	24.01	24.12	23.60	23.03	23.26	23.44	23.69	24.15	24.41			
RANGE	0.69	0.67	0.99	1.03	0.73	1.71	1.68	1.03	1.17	1.04	0.51	0.24			
STANDARD DEV.	0.16	0.14	0.29	0.29	0.20	0.36	0.41	0.29	0.26	0.28	0.16	0.07			
ANNUAL MIN	23.03					24.41	ANNUAL MAX					25.62			
ANNUAL MEAN						24.41	ANNUAL MEAN					24.41			
ANNUAL MAX						25.62	ANNUAL MAX					25.62			

SAN CLEMENTE

TEMPERATURE

YEAR 1989

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13.0	13.1	13.2	18.2	16.5	18.3	16.0	21.8		18.7	16.5	16.9
2	13.0	13.5		17.4	16.9	18.5	17.4	20.4		20.1	17.5	17.0
3	13.5	14.0		17.1	16.8	17.9	19.0	22.0		18.7	17.6	17.1
4	13.4	13.6	13.2	18.0	17.6	18.2	18.4	22.6	19.2	19.8	17.5	
5	12.4	13.3	13.2	18.0	18.0	18.9	18.9	22.8	19.9	19.8	18.3	16.4
6	13.0	11.3	14.2	17.5	17.2	19.0	18.9	22.4	19.3	19.7	17.4	
7	11.9	10.8	14.9	18.0	17.6	17.4	19.2	21.5	19.3	19.2	17.6	16.4
8	11.9	11.5	14.5	18.1	17.5	17.4	21.5	21.3	19.3	17.7	18.0	17.5
9	13.7		14.5	18.4	17.6	17.5	19.4	20.4	18.8	19.2	17.0	16.8
10	13.0		15.0	18.2	17.5	17.4	20.7	20.0	17.7	18.0	17.1	16.6
11	13.0	12.9	14.5	20.6	17.5	17.5	21.3	20.4	18.3	17.9	17.2	16.4
12	12.8	12.7	14.7	19.1	17.6	17.6	22.0	19.9	18.5	19.1	17.1	17.0
13	12.8	12.7	13.8	19.4	17.6	18.1	19.2	20.1	19.3	17.8	17.1	15.4
14	12.8	12.7	14.3	18.4	17.5	18.3	19.5	19.9	19.9	17.8	18.0	15.5
15	12.2	14.3	14.3	17.8	17.1	19.1	20.2	20.9	19.4	17.9	18.0	15.8
16	12.8	13.4	14.5	17.5	17.3	19.1	20.2	20.5	20.0	18.4	18.4	16.0
17	12.8	13.0	15.5	17.2	17.8	19.1	19.0	19.6	20.5	17.9	18.3	15.4
18	12.8	12.9	15.0	17.1	17.8	18.5	21.4	19.8	20.4	18.3	18.4	15.0
19	12.8	13.1	14.9	17.0	17.8	19.3	21.5	20.0	18.3	18.8	20.3	15.7
20	12.8	13.2	15.4	17.5	18.4	18.2	22.3	19.8	18.3	18.6	18.6	15.6
21	13.0	13.5	15.6	17.8	18.3	18.2	22.7	20.0	18.1	18.5	18.2	15.8
22	13.6	13.8	15.3	17.0	18.2	19.9	22.1	20.5	18.3	18.9	18.9	16.0
23	13.0	14.3	15.3	17.0	18.2	20.1	22.1	19.9	19.6	19.6	18.9	15.7
24	13.5		15.6	17.0	16.1	19.3	20.5	19.9	18.2	18.6	18.0	15.8
25	13.5	14.1	15.6	16.9	16.1	21.4	20.4	18.8	19.8	17.6	18.4	15.5
26	13.6	14.2	15.5	16.3	16.8	20.4	20.3	19.9	19.8	17.6	18.4	15.8
27	13.0	14.5	15.6	16.0	17.0	18.8	20.3	19.1	18.5	19.0	16.8	15.9
28	13.0	14.5	15.6	16.0	17.0	18.8	20.3	19.6	19.5	16.5	16.5	15.3
29	12.9	15.5	15.6	15.5	17.9	15.6	20.9	18.8	20.1	18.0	16.8	15.3
30	13.1	15.5	15.6	15.6	18.2	15.9	20.9	19.5	19.5	18.0	16.6	15.3
31	13.1	17.1	17.1	15.6	18.0	15.9	21.0	19.3	19.5	15.9	16.6	15.8
1-10 MEANS	12.88	12.51	14.09	17.91	17.39	18.05	18.94	21.52	19.16	19.09	17.45	16.84
SAMPLE SIZE	10	8	8	10	10	10	10	10	10	10	10	10
11-20 MEANS	12.76	13.09	14.69	18.16	17.73	18.48	20.81	20.09	19.29	18.25	18.14	15.80
SAMPLE SIZE	10	10	10	10	9	10	10	10	10	10	10	9
21-31 MEANS	13.06	14.17	15.78	16.58	17.45	18.60	21.02	19.51	19.00	17.96	17.62	15.69
SAMPLE SIZE	11	7	11	9	11	10	11	11	8	11	10	10
MONTHLY MEANS	12.91	13.21	14.94	17.58	17.51	18.38	20.28	20.35	19.16	18.42	17.74	16.07
SAMPLE SIZE	31	25	29	29	30	30	31	31	25	31	30	27
MAXIMUM VALUE	13.7	14.8	17.1	20.6	18.6	21.4	23.3	22.8	20.5	20.1	20.3	17.5
MINIMUM VALUE	11.9	10.8	13.2	15.6	16.1	15.2	16.0	18.8	17.7	15.9	16.5	15.0
RANGE	1.8	4.0	3.9	5.0	2.5	6.2	7.3	4.0	2.8	4.2	3.8	2.5
STANDARD DEV.	0.42	1.00	0.94	1.06	0.65	1.27	1.55	1.09	0.80	1.04	0.83	0.65
ANNUAL MIN	10.8					17.21			ANNUAL MAX	23.3		

DAYS	SAN CLEMENTE					SALINITY					YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	33.38	33.54	33.53	33.64	33.61	33.66	33.56	33.71		33.66	33.75	33.78		
2	33.44	33.31		33.55	33.59	33.66	33.56	33.62		33.51	33.52	33.87		
3	33.53	33.57		33.50	33.58	33.66	33.62	33.63			33.53	33.68		
4	33.42	33.07	33.49	33.49	33.59	33.68	33.56	33.68	33.74					
5		33.03		33.54		33.69	33.57	33.73			33.52	33.70		
6	33.21	33.74	33.52	33.87	33.59	33.68	33.64	33.63			33.62	33.61		
7	33.38	33.56	33.52	33.85	33.64	33.68	33.60	33.81			33.57	33.74		
8	33.43	33.57	33.57	33.76	33.60	33.76	33.62	33.63	33.76		33.60			
9	33.46	33.55	33.55	33.59	33.50	33.66	33.62	33.61	33.71		33.58	33.72		
10	33.41	33.54	33.54	33.54	33.55	33.63	33.66	33.65	33.72		33.54	33.67		
11	33.31	33.41	33.52	33.57	33.53	33.63	33.63	33.65	33.73		33.58	33.73		
12	33.34	33.47	33.51	33.58	33.54	33.69	33.83	33.58	33.73		33.63	33.63		
13	33.49	33.47	33.53	33.72	33.62	33.94	33.85	33.58	33.83		33.64	33.62		
14	33.44	33.47	33.51	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
15	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
16	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
17	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
18	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
19	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
20	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
21	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
22	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
23	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
24	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
25	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
26	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
27	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
28	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
29	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
30	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
31	33.44	33.47	33.53	33.72	33.66	33.65	33.65	33.62	33.84		33.64	33.72		
1-10 MEANS	33.42	33.42	33.53	33.61	33.61	33.68	33.60	33.67	33.59	33.57	33.60	33.74		
SAMPLE SIZE	9	8	7	10	9	10	10	10	7	7	10	7		
11-20 MEANS	33.57	33.49	33.56	33.63	33.67	33.70	33.73	33.60	33.54	33.57	33.66	33.67		
SAMPLE SIZE	10	10	10	10	9	10	10	10	10	10	10	9		
21-31 MEANS	33.58	33.49	33.46	33.66	33.64	33.66	33.64	33.60	33.51	33.53	33.73	33.61		
SAMPLE SIZE	11	7	11	9	11	8	10	11	9	11	9	10		
MONTHLY MEANS	33.53	33.47	33.52	33.63	33.64	33.68	33.66	33.62	33.54	33.55	33.66	33.66		
SAMPLE SIZE	30	25	28	29	29	28	30	31	26	28	26	26		
MAXIMUM VALUE	33.82	33.74	33.66	33.87	33.82	33.94	34.00	33.93	33.76	33.68	33.82	33.87		
MINIMUM VALUE	33.21	33.03	32.98	33.49	33.57	33.59	33.56	33.51	33.23	33.43	33.52	33.56		
RANGE	0.61	0.71	0.68	0.38	0.25	0.35	0.44	0.42	0.53	0.25	0.30	0.31		
STANDARD DEV.	0.11	0.15	0.12	0.10	0.06	0.07	0.09	0.09	0.11	0.05	0.08	0.07		
ANNUAL MIN	32.98			ANNUAL MEAN		33.60		ANNUAL MAX			34.00			

SAN CLEMENTE

SIGMA T

YEAR 1989

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	25.14	25.24	25.21	24.18	24.57	24.17	24.64	23.29	24.07	24.67	24.60	
2	25.19	24.98		24.31	24.46	24.12	23.32	23.61	23.60	24.26	24.65	
3	25.15	25.08		24.34	24.47	24.27	23.97	23.61		24.24	24.48	
4	25.09	24.78	25.18	24.07	24.29	24.04	24.07	23.05		24.29		
5		25.00		24.16	24.22	24.22	23.95	23.03	24.01	24.13	24.66	
6		25.01	25.00	24.53	24.39	24.01	24.01	23.07	23.85	24.31	24.69	
7		25.35	25.69	24.39	24.33	24.41	23.90	23.45	23.66	24.35		
8		25.12	25.54	24.15	24.32	24.47	23.31	23.37	24.00	24.40		
9		25.39		24.07	24.30	24.37	23.87	23.60	23.93	24.40		
10		24.85		24.13	24.25	24.38	23.56	23.73	24.21	24.44		
11		25.24	25.20	24.96	24.36	24.35	23.37	23.63	24.08	24.58		
12		25.24	25.24	24.91	24.20	24.21	23.19	23.71	24.15	24.16	24.59	
13		25.28	25.22	24.09	24.33	24.21	23.86	23.85	23.99	24.38	24.63	
14		25.42	25.27	24.97	24.34	24.39	23.86	23.74	24.20	24.42	24.83	
15		25.41	24.94	24.34	24.46	23.97	23.95	23.42	23.68	24.18	24.23	24.80
16		25.38	25.13	24.36	24.52	23.97	23.56	23.50	23.68	24.14	24.23	24.81
17		25.32	24.75	24.51	24.28	23.98	24.03	23.87	23.60	24.19	24.22	24.81
18		25.30	25.24	24.52		24.15	23.50	23.82	23.84	24.11	24.22	24.91
19		25.36	24.96	24.43	24.27	24.05	23.36	23.66	23.85	24.16	24.78	
20		25.35	25.32	24.35	24.13	24.18	22.85	23.72	24.02	24.05	24.13	
21		25.31	25.12	24.35	24.17	24.18	23.04	23.65	24.06	24.04	24.24	
22		25.14	25.05	24.53	24.18		23.23	23.51	24.04	23.85	24.32	
23		25.24	24.97	24.63	24.17	23.70	23.19	23.66	23.75	24.68		
24		25.22		24.41	24.60	23.96	23.66	23.67	23.90	24.41	24.76	
25		25.30	24.99	24.67	24.65	23.40	23.62	23.95	23.97	24.32	24.74	
26		25.33	24.96	24.31	24.58	23.64	23.62	23.88	23.67	24.30	24.08	24.83
27		25.52	24.88	24.71	24.47	23.03	23.62	23.99	23.98	23.88	24.56	24.69
28		25.26	24.92	24.67	24.42	24.03	23.61	23.73	23.76	24.50	24.61	
29		25.27		24.64	24.52	24.48	23.52	24.08	23.59	24.16	24.60	24.80
30		25.25	24.45	24.76	24.14	24.91	23.46	24.10	23.73	24.64	24.66	24.78
31		25.24	24.35	24.76	24.37		23.45	24.13	23.73	24.64	24.72	
1-10 MEANS SAMPLE SIZE	25.18	25.26	25.01	24.23	24.37	24.25	23.96	23.34	23.91	23.87	24.33	24.61
11-20 MEANS SAMPLE SIZE	25.34	25.20	24.93	24.18	24.32	24.16	23.58	23.67	23.83	24.12	24.21	24.77
21-31 MEANS SAMPLE SIZE	25.28	24.98	24.61	24.58	24.36	24.04	23.44	23.82	23.83	24.15	24.42	24.75
MONTHLY MEANS SAMPLE SIZE	25.27	25.16	24.82	24.32	24.35	24.16	23.66	23.62	23.85	24.07	24.32	24.72
MAXIMUM VALDE	25.52	25.74	25.21	24.76	24.65	24.91	24.64	24.13	24.21	24.64	24.67	24.91
MINIMUM VALDE	25.01	24.78	24.31	23.49	24.13	23.40	22.85	23.03	23.59	23.60	23.78	24.48
RANGE	0.51	0.96	0.91	1.27	0.52	1.51	1.79	1.10	0.63	1.04	0.90	0.43
STANDARD DEV.	0.11	0.24	0.23	0.29	0.14	0.29	0.40	0.29	0.19	0.25	0.20	0.11
ANNUAL MIN	22.85											
ANNUAL MEAN	24.36											
ANNUAL MAX	25.74											

DAYS	SCRIPPS PIER				SURFACE TEMPERATURE							YEAR 1989		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	13.0	13.3	14.2	16.0	17.1	18.3	18.7	21.2	19.9	18.9	17.1	16.5		
2	13.0	13.5	14.3	16.2	16.8	17.7	18.9	21.3	19.6	19.6	17.1	16.5		
3	12.7	13.5	14.3	17.0	17.6	17.5	18.9	21.8	19.4	19.8	17.1	16.2		
4	13.1	13.6	13.6	17.4	15.8	17.2	18.8	22.0	17.4	19.8	16.8	15.9		
5	13.3	12.3	13.7	18.1	16.1	17.5	17.5	22.5	16.4	19.6	16.0	16.1		
6	12.8	12.7	14.1	19.1	16.1	18.2	16.7	22.8	17.6	19.8	15.8	15.7		
7	14.8	12.6	14.4	18.6	16.7	18.5	18.3	22.8	16.9	20.0	16.8	16.0		
8	12.6	12.5	14.6	18.1	17.1	18.1	20.1	20.1	17.8	19.0	16.3	16.4		
9	12.6	12.6	14.3	18.2	16.8	17.4	20.1	20.0	18.4	19.6	16.8	16.4		
10	12.6	13.0	14.5	18.1	17.6	16.7	20.3	20.4	18.3	20.0	16.7	15.9		
11	12.6	12.8	14.4	18.7	17.5	17.3	20.3	20.6	18.3	19.7	17.2	15.7		
12	12.1	12.2	14.2	17.9	17.6	17.5	20.8	21.0	19.3	19.4	17.0	15.3		
13	12.1	12.1	13.3	18.1	17.6	17.2	20.7	21.1	20.6	18.7	17.1	15.3		
14	12.4	12.5	13.3	18.1	17.6	17.2	20.7	21.1	20.6	18.7	17.1	15.3		
15	12.0	12.6	14.4	17.3	18.0	17.8	21.0	22.1	20.3	18.6	17.2	15.8		
16	12.0	12.8	14.6	17.3	18.0	17.8	21.0	22.1	20.3	18.6	17.2	15.8		
17	12.6	13.0	14.8	17.2	18.1	18.2	21.0	21.6	20.4	18.5	17.6	16.0		
18	12.7	12.8	14.7	17.7	18.5	19.1	21.0	20.9	20.0	18.7	17.3	15.4		
19	12.5	12.9	14.4	17.7	18.5	19.2	21.0	20.9	19.1	19.0	17.1	15.3		
20	13.2	13.1	14.6	17.7	18.0	19.6	20.5	21.0	19.0	19.4	17.5	15.9		
21	13.2	13.3	15.8	18.2	18.8	19.8	20.2	21.1	20.1	18.9	17.7	15.9		
22	12.8	13.7	15.5	17.7	19.0	19.5	21.3	21.1	20.1	19.0	17.8	15.9		
23	13.1	14.1	15.2	17.7	18.8	19.5	22.0	21.0	19.6	19.6	18.0	15.6		
24	12.9	14.2	15.1	17.2	18.4	19.6	21.9	21.0	20.1	19.6	18.0	15.6		
25	13.0	14.0	15.3	17.2	17.3	19.5	19.3	20.2	19.8	18.9	17.6	15.8		
26	12.9	14.1	14.4	17.4	16.0	19.8	18.8	20.3	19.8	17.6	17.6	15.7		
27	12.8	14.2	14.5	16.0	17.5	20.0	19.8	20.4	20.3	17.6	17.2	15.9		
28	13.0	13.9	15.2	16.8	17.1	19.0	21.1	20.4	20.4	17.5	16.7	15.6		
29	13.1	16.2	16.2	17.6	17.7	18.0	21.3	20.4	19.8	17.6	16.5	15.4		
30	13.2	16.1	16.1	16.8	17.7	17.6	21.9	20.4	19.9	17.4	16.7	15.5		
31	13.6	16.0	16.0	18.0	18.0	17.6	21.0	18.5	21.0	17.3	16.7	15.2		
1-10 MEANS	12.85	12.91	14.12	17.68	16.77	17.71	18.89	21.49	18.17	19.61	16.64	16.16		
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10		
11-20 MEANS	12.42	12.68	14.27	17.81	17.91	18.08	20.65	21.22	19.63	18.97	17.26	15.57		
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10		
21-31 MEANS	13.05	13.94	15.39	17.26	17.75	19.23	20.78	20.39	20.03	18.22	17.35	15.67		
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	10	11		
MONTHLY MEANS	12.78	13.12	14.62	17.58	17.49	18.34	20.13	21.01	19.28	18.91	17.08	15.80		
SAMPLE SIZE	31	28	31	30	31	30	31	31	30	31	30	31		
MAXIMUM VALUE	13.6	14.2	16.2	19.1	19.0	20.0	22.0	22.8	21.0	20.0	18.0	16.5		
MINIMUM VALUE	12.0	12.1	13.3	16.0	15.8	16.7	16.7	18.5	16.4	17.3	15.8	15.2		
RANGE	1.6	2.1	2.9	3.1	3.2	3.3	5.3	4.3	4.6	2.7	2.2	1.3		
STANDARD DEV.	0.39	0.64	0.77	0.74	0.84	1.00	1.27	0.93	1.15	0.82	0.52	0.36		
ANNUAL MIN	12.0													
ANNUAL MEAN						17.18								
ANNUAL MAX														
					</									

DAYS	SCRIPPS PIER				SURFACE SALINITY					YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	33.44	33.52	33.51	33.58	33.63	33.67	33.61	33.67	33.56	33.56	33.63	33.58	
2	33.46	33.49	33.52	33.57	33.62	33.66	33.69	33.66	33.56	33.63	33.56	33.59	
3	33.47	33.50	33.54	33.58	33.62	33.66	33.66	33.72	33.57	33.60	33.55	33.67	
4	33.46	33.48	33.52	33.56	33.60	33.64	33.62	33.69	33.51	33.58	33.57	33.63	
5	33.47	33.41	33.54	33.55	33.60	33.64	33.57	33.70	33.47	33.57	33.50	33.57	
6	33.48	33.48	33.52	33.55	33.61	33.66	33.59	33.73	33.46	33.56	33.54	33.64	
7	33.48	33.50	33.54	33.58	33.62	33.66	33.64	33.71	33.45	33.55	33.51	33.57	
8	33.50	33.50	33.54	33.58	33.63	33.68	33.67	33.61	33.48	33.55	33.52	33.56	
9	33.47	33.51	33.53	33.57	33.61	33.69	33.67	33.61	33.48	33.59	33.53	33.57	
10	33.47	33.48	33.52	33.57	33.64	33.68	33.66	33.62	33.52	33.59	33.55	33.58	
11	33.50	33.54	33.54	33.58	33.65	33.70	33.66	33.60	33.51	33.60	33.54	33.66	
12	33.50	33.56	33.57	33.58	33.65	33.67	33.67	33.67	33.61	33.57	33.55	33.64	
13	33.53	33.53	33.58	33.60	33.63	33.67	33.69	33.61	33.55	33.53	33.56	33.58	
14	33.54	33.53	33.55	33.59	33.64	33.64	33.68	33.62	33.54	33.59	33.54	33.57	
15	33.56	33.53	33.54	33.60	33.63	33.65	33.65	33.70	33.51	33.61	33.57	33.57	
16	33.51	33.53	33.56	33.58	33.65	33.67	33.67	33.64	33.58	33.59	33.56	33.58	
17	33.51	33.51	33.63	33.59	33.65	33.65	33.68	33.62	33.59	33.62	33.56	33.61	
18	33.51	33.54	33.60	33.60	33.64	33.68	33.67	33.62	33.58	33.58	33.61	33.58	
19	33.51	33.55	33.58	33.60	33.66	33.64	33.70	33.67	33.60	33.61	33.67	33.62	
20	33.51	33.55	33.58	33.60	33.66	33.64	33.70	33.67	33.60	33.61	33.67	33.62	
21	33.53	33.50	33.53	33.59	33.67	33.65	33.63	33.76	33.58	33.60	33.62	33.59	
22	33.53	33.52	33.59	33.61	33.69	33.66	33.66	33.67	33.56	33.58	33.72	33.60	
23	33.49	33.52	33.54	33.64	33.65	33.68	33.68	33.67	33.55	33.60	33.68	33.58	
24	33.50	33.50	33.59	33.63	33.64	33.68	33.70	33.65	33.58	33.58	33.74	33.58	
25	33.50	33.50	33.59	33.63	33.64	33.71	33.64	33.58	33.55	33.58	33.67	33.61	
26	33.52	33.51	33.55	33.65	33.65	33.70	33.63	33.57	33.53	33.56	33.68	33.60	
27	33.49	33.52	33.51	33.63	33.66	33.68	33.62	33.62	33.55	33.55	33.67	33.57	
28	33.49	33.52	33.55	33.64	33.66	33.65	33.66	33.66	33.53	33.55	33.62	33.56	
29	33.49	33.55	33.55	33.64	33.65	33.61	33.71	33.61	33.50	33.58	33.61	33.56	
30	33.48	33.50	33.56	33.62	33.65	33.61	33.71	33.61	33.50	33.59	33.61	33.54	
31	33.47	33.47	33.56	33.62	33.67	33.61	33.65	33.56	33.50	33.61	33.61	33.57	
1-10 MEANS	33.47	33.48	33.53	33.56	33.61	33.67	33.63	33.67	33.50	33.58	33.54	33.60	
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	9	
11-20 MEANS	33.52	33.53	33.57	33.59	33.64	33.67	33.67	33.64	33.56	33.59	33.58	33.60	
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10	
21-31 MEANS	33.50	33.51	33.57	33.62	33.66	33.66	33.66	33.63	33.54	33.58	33.68	33.59	
SAMPLE SIZE	11	8	11	10	11	10	10	11	10	11	10	11	
MONTHLY MEANS	33.50	33.51	33.56	33.59	33.64	33.67	33.65	33.65	33.53	33.58	33.60	33.59	
SAMPLE SIZE	31	28	31	30	31	30	30	31	30	31	30	30	
MAXIMUM VALUE	33.56	33.56	33.64	33.65	33.69	33.71	33.71	33.76	33.61	33.63	33.82	33.67	
MINIMUM VALUE	33.44	33.41	33.51	33.53	33.59	33.61	33.57	33.56	33.45	33.53	33.50	33.54	
RANGE	0.12	0.15	0.13	0.12	0.10	0.10	0.14	0.20	0.16	0.10	0.32	0.13	
STANDARD DEV.	0.03	0.03	0.03	0.03	0.02	0.02	0.03	0.05	0.04	0.02	0.08	0.03	
ANNUAL MIN	33.41				ANNUAL MEAN	33.59			ANNUAL MAX	33.82			

DAYS	JAN	FEB	MAR	APR	MAY	JUN	SIGMA T			OCT	YEAR 1989		
							SURFACE	JUL	AUG	SEP	NOV	DEC	
1	25.19	25.19	24.99	24.66	24.44	24.18	24.04	23.43	23.69	23.95	24.44	24.54	
2	25.20	25.12	24.99	24.60	24.49	24.31	24.05	23.39	23.77	23.82	24.39	24.55	
3	25.25	25.15	25.15	24.42	24.31	24.37	23.87	23.30	23.83	23.75	24.68	24.68	
4	25.18	25.20	25.14	24.32	24.31	24.45	23.02	23.22	24.28	23.73	24.42	24.72	
5	25.15	25.30	25.14	24.65	24.59	24.39	23.09	23.03	24.48	23.78	24.59	24.63	
6	25.25	25.28	25.05	23.88	24.66	24.50	23.49	23.03	24.19	23.72	24.67	24.77	
7	25.26	25.29	24.97	24.01	24.53	24.15	23.12	23.01	24.35	23.66	24.42	24.65	
8	25.32	25.33	24.93	24.12	24.44	24.22	23.70	23.70	24.16	23.91	24.54	24.55	
9	25.32	25.32	25.00	24.11	24.48	24.41	23.72	23.70	24.00	23.79	24.43	24.67	
10	25.29	25.32	24.94	24.15	24.31	24.38	23.67	23.60	24.04	23.69	24.46	24.72	
11	25.29	25.36	24.97	24.01	24.35	24.32	23.66	23.55	24.07	23.77	24.36	24.87	
12	25.41	25.26	25.22	24.26	24.36	24.38	23.61	23.53	23.81	23.85	24.39	24.87	
13	25.41	25.22	25.22	24.26	24.36	24.38	23.61	23.53	23.81	23.85	24.39	24.87	
14	25.36	25.33	25.23	24.11	24.30	24.35	23.58	23.45	23.50	23.87	24.38	24.89	
15	25.36	25.33	25.23	24.11	24.30	24.35	23.58	23.45	23.50	23.87	24.38	24.89	
16	25.47	25.39	24.93	24.37	24.22	24.31	23.73	23.20	23.70	24.05	24.32	24.65	
17	25.32	25.35	24.91	24.38	24.21	24.31	23.55	23.30	23.58	24.07	24.32	24.72	
18	25.30	25.28	24.98	24.27	24.30	23.67	23.49	23.47	23.69	24.04	24.34	24.81	
19	25.35	25.32	24.92	24.27	24.11	23.83	23.51	23.41	23.94	24.02	24.32	24.81	
20	25.20	25.25	24.95	24.27	24.06	23.79	23.62	23.48	23.84	23.96	24.36	24.71	
21	25.21	25.17	24.70	24.14	24.01	23.89	23.67	23.52	23.84	23.98	24.29	24.69	
22	25.29	25.10	24.78	24.27	24.07	23.87	23.22	23.48	23.76	23.95	24.34	24.74	
23	25.23	25.02	24.84	24.28	24.01	23.87	23.22	23.48	23.76	23.95	24.34	24.74	
24	25.24	24.99	24.90	24.42	24.07	23.86	23.25	23.47	23.65	23.78	24.31	24.75	
25	25.23	25.03	24.82	24.42	24.40	23.91	23.91	23.63	23.71	23.96	24.35	24.72	
26	25.27	25.02	24.95	24.38	24.71	23.82	24.03	23.59	23.69	24.27	24.36	24.74	
27	25.29	24.99	24.95	24.69	24.37	23.76	23.45	23.61	23.58	24.26	24.45	24.67	
28	25.22	25.06	24.81	24.52	24.46	23.99	23.39	23.61	23.54	24.28	24.53	24.73	
29	25.20	24.59	24.33	24.33	24.31	24.21	23.39	23.61	23.68	24.28	24.73	24.76	
30	25.18	24.62	24.31	24.50	24.31	24.31	23.27	23.73	23.35	24.34	24.52	24.75	
31	25.09	24.64	24.25	24.25	24.25	24.31	23.47	24.05	23.35	24.38	24.52	24.83	
1-10 MEANS	25.24	25.23	25.03	24.24	24.50	24.33	24.00	23.35	24.08	23.78	24.48	24.64	
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	9	
11-20 MEANS	25.36	25.32	25.02	24.24	24.25	24.23	23.58	23.40	23.76	23.95	24.36	24.77	
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10	
21-31 MEANS	25.22	25.05	24.79	24.40	24.30	23.94	23.50	23.62	23.64	24.13	24.42	24.73	
SAMPLE SIZE	11	8	11	10	11	10	10	11	10	11	10	11	
MONTHLY MEANS	25.27	25.21	24.94	24.29	24.35	24.16	23.69	23.46	23.83	23.96	24.42	24.72	
SAMPLE SIZE	31	28	31	30	31	30	30	31	30	31	30	30	
MAXIMUM VALUE	25.47	25.45	25.23	24.69	24.73	24.58	24.49	24.05	24.48	24.38	24.73	24.87	
MINIMUM VALUE	25.09	24.99	24.59	23.88	24.00	23.76	23.22	23.01	23.35	23.66	24.27	24.54	
RANGE	0.38	0.47	0.65	0.81	0.73	0.82	1.27	1.03	1.13	0.71	0.46	0.33	
STANDARD DEV.	0.09	0.13	0.16	0.19	0.19	0.25	0.31	0.22	0.27	0.20	0.11	0.08	
ANNUAL MIN	23.01			ANNUAL MEAN		24.36		ANNUAL MAX		25.47			

DAYS	SCRIPPS PIER				BOTTOM SALINITY				YEAR 1989			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.42	33.47	33.53	33.55	33.61	33.64	33.70	33.57	33.48	33.49	33.57	33.56
2	33.31	33.38	33.53	33.55	33.59	33.65	33.57	33.62	33.50	33.56	33.55	33.58
3	33.45	33.47	33.53	33.57	33.59	33.65	33.59	33.68	33.49	33.57	33.56	33.56
4	33.45	33.46	33.54	33.56	33.61	33.65	33.53	33.53	33.50	33.57	33.55	33.57
5	33.46	33.40	33.55	33.56	33.60	33.65	33.53	33.57	33.44	33.51	33.46	33.59
6	33.46	33.46	33.54	33.55	33.60	33.65	33.56	33.57	33.44	33.54	33.50	33.57
7	33.47	33.49	33.54	33.61	33.61	33.70	33.57	33.69	33.44	33.49	33.50	33.54
8	33.47	33.50	33.54	33.52	33.61	33.65	33.62	33.62	33.44	33.48	33.50	33.55
9	33.46	33.51	33.54	33.54	33.60	33.67	33.63	33.56	33.45	33.57	33.51	33.55
10	33.46	33.50	33.55	33.55	33.60	33.67	33.63	33.55	33.46	33.58	33.51	33.55
11	33.46	33.50	33.55	33.55	33.64	33.68	33.66	33.59	33.45	33.52	33.52	33.55
12	33.50	33.52	33.57	33.58	33.66	33.67	33.67	33.59	33.54	33.53	33.52	33.56
13	33.50	33.51	33.57	33.58	33.65	33.67	33.65	33.58	33.54	33.53	33.53	33.56
14	33.50	33.51	33.57	33.59	33.61	33.67	33.59	33.57	33.53	33.54	33.53	33.56
15	33.53	33.52	33.58	33.59	33.62	33.62	33.57	33.56	33.55	33.54	33.55	33.56
16	33.53	33.52	33.58	33.59	33.62	33.63	33.56	33.46	33.45	33.56	33.56	33.56
17	33.51	33.54	33.55	33.56	33.62	33.62	33.56	33.46	33.45	33.45	33.55	33.57
18	33.51	33.51	33.57	33.57	33.62	33.62	33.56	33.45	33.45	33.48	33.56	33.57
19	33.51	33.50	33.57	33.57	33.67	33.65	33.56	33.49	33.51	33.50	33.57	33.59
20	33.51	33.51	33.58	33.55	33.67	33.70	33.60	33.49	33.52	33.50	33.57	33.58
21	33.52	33.53	33.58	33.59	33.66	33.66	33.57	33.52	33.52	33.57	33.52	33.58
22	33.51	33.51	33.58	33.59	33.66	33.66	33.57	33.57	33.53	33.56	33.52	33.57
23	33.50	33.51	33.58	33.59	33.66	33.66	33.57	33.57	33.53	33.58	33.52	33.57
24	33.49	33.51	33.51	33.62	33.64	33.66	33.60	33.57	33.51	33.56	33.51	33.57
25	33.51	33.51	33.50	33.65	33.65	33.66	33.61	33.57	33.50	33.54	33.55	33.58
26	33.52	33.52	33.54	33.61	33.66	33.69	33.63	33.58	33.49	33.54	33.62	33.58
27	33.52	33.52	33.54	33.61	33.66	33.69	33.63	33.58	33.50	33.54	33.57	33.57
28	33.46	33.51	33.55	33.62	33.64	33.64	33.52	33.59	33.50	33.53	33.57	33.54
29	33.46	33.58	33.54	33.58	33.65	33.55	33.58	33.60	33.51	33.53	33.57	33.54
30	33.47	33.55	33.55	33.60	33.65	33.55	33.59	33.44	33.48	33.56	33.60	33.56
31	33.46	33.54	33.54	33.60	33.66	33.66	33.59	33.46	33.57	33.57	33.60	33.56
1-10 MEANS	33.44	33.46	33.54	33.56	33.60	33.66	33.59	33.60	33.46	33.54	33.52	33.56
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10
11-20 MEANS	33.51	33.52	33.55	33.57	33.65	33.65	33.64	33.54	33.53	33.51	33.55	33.56
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10
21-31 MEANS	33.49	33.51	33.55	33.60	33.65	33.64	33.62	33.54	33.52	33.56	33.61	33.57
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	10	11
MONTHLY MEANS	33.48	33.50	33.55	33.58	33.63	33.65	33.62	33.56	33.50	33.54	33.56	33.57
SAMPLE SIZE	31	28	31	30	31	30	31	31	30	31	30	30
MAXIMUM VALDE	33.53	33.54	33.59	33.65	33.69	33.70	33.70	33.69	33.58	33.60	33.65	33.59
MINIMUM VALDE	33.31	33.38	33.48	33.52	33.59	33.55	33.52	33.43	33.44	33.45	33.46	33.54
RANGE	0.22	0.16	0.11	0.13	0.10	0.15	0.18	0.26	0.14	0.15	0.19	0.05
STANDARD DEV.	0.04	0.03	0.02	0.03	0.02	0.03	0.04	0.06	0.04	0.04	0.04	0.02
ANNUAL MIN	33.31					33.56			ANNUAL MAX		33.70	
ANNUAL MEAN												

SIGMA T

SCRIPTS PIER

JAN

DAYS

JAN

FEB

MAR

APR

MAY

JUN

JUL

AUG

SEP

OCT

NOV

DEC

1	25.17	25.15	25.01	25.11	24.61	24.40	24.10	24.05	24.47	24.17	24.46	24.53
2	25.00	24.99	24.99	24.68	24.73	24.31	24.44	23.58	24.41	23.79	24.43	24.54
3	25.25	25.11	25.17	24.39	24.84	24.34	24.24	23.54	24.29	23.70	24.46	24.57
4	25.16	25.14	25.14	24.39	24.50	24.43	24.73	24.00	24.50	23.78	24.50	24.63
5	25.14	25.11	24.36	25.19	24.34	24.34	24.84	23.67	24.55	23.98	24.59	24.66
6	25.16	25.30	25.08	24.14	24.87	24.19	24.50	23.72	24.48	23.96	24.57	24.69
7	25.28	25.32	25.10	24.70	24.70	24.18	24.10	23.00	24.43	24.14	24.50	24.63
8	25.31	25.33	25.00	24.14	24.61	24.24	23.71	23.58	24.43	23.78	24.46	24.47
9	25.34	25.32	24.95	24.25	24.72	24.40	23.74	23.87	24.23	23.73	24.49	24.63
10	25.28	25.26	25.11	24.11	24.51	24.61	23.80	23.94	24.05	23.71	24.49	24.63
11	25.26	25.27	24.94	24.26	24.61	24.43	23.66	23.58	24.11	23.52	24.45	24.68
12	25.39	25.35	25.00	24.26	24.58	24.70	23.62	23.50	23.86	23.97	24.40	24.80
13	25.39	25.39	25.19	24.19	24.53	24.47	23.55	23.44	23.73	23.88	24.39	24.78
14	25.37	25.41	25.22	24.17	24.47	24.47	23.07	23.46	23.77	24.26	24.36	24.76
15	25.43	25.33	24.96	24.49	24.50	24.24	23.48	23.51	23.55	24.08	24.36	24.64
16	25.45	25.34	24.96	24.69	24.49	24.18	23.74	23.13	24.37	24.00	24.32	24.66
17	25.32	25.34	24.90	24.70	24.51	24.29	23.58	24.76	23.50	24.44	24.21	24.72
18	25.31	25.30	24.99	24.53	24.46	24.15	23.65	24.60	23.95	24.60	24.32	24.79
19	25.32	25.04	24.49	24.34	24.44	24.03	24.70	24.60	23.71	24.44	24.32	24.72
20	25.20	24.94	24.35	24.21	24.21	23.84	23.95	24.36	24.32	23.95	24.01	24.66
21	25.18	25.09	24.45	24.21	24.21	23.82	24.15	24.47	24.12	23.96	24.03	24.70
22	25.23	24.96	24.29	24.20	24.20	23.85	23.40	24.40	23.74	23.93	24.19	24.68
23	25.30	25.02	24.83	24.36	24.25	23.52	23.18	24.20	23.92	23.90	24.22	24.68
24	25.21	24.99	24.76	24.43	24.53	23.85	23.46	23.85	23.66	23.51	24.29	24.67
25	25.22	25.08	24.76	24.43	24.68	23.87	23.32	23.70	23.56	23.52	24.31	24.97
26	25.28	25.10	24.92	24.46	24.68	23.87	23.16	23.59	23.87	24.26	24.34	24.66
27	25.31	25.02	24.85	24.64	24.93	23.82	23.72	23.58	23.97	24.03	24.59	24.74
28	25.04	25.04	24.81	24.72	24.93	24.03	23.76	23.61	23.92	24.29	24.51	24.74
29	25.16	24.86	24.51	24.72	24.50	24.03	23.89	23.75	23.68	24.39	24.51	24.75
30	25.15	24.56	24.56	24.56	24.50	24.75	23.93	23.75	23.58	24.41	24.56	24.75
31	25.08	24.58	24.58	24.42	24.42	24.12	24.12	24.65	24.35	24.35	24.56	24.57
1-10 MEANS	25.22	25.07	24.43	24.73	24.34	24.10	24.22	23.70	24.38	23.91	24.49	24.60
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	9
11-20 MEANS	25.34	25.01	24.38	24.47	24.28	23.80	23.90	23.89	24.16	24.27	24.72	24.72
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10
21-31 MEANS	25.20	25.07	24.82	24.53	24.49	24.02	23.85	24.04	23.82	24.14	24.34	24.69
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	10	11
MONTHLY MEANS	25.25	25.21	24.96	24.44	24.56	24.22	23.95	23.88	24.03	24.07	24.36	24.67
SAMPLE SIZE	31	28	31	30	31	30	31	31	30	31	30	30
MAXIMUM VALUE	25.45	25.41	25.22	25.11	25.19	24.75	24.84	24.76	24.55	24.60	24.59	24.80
MINIMUM VALUE	25.08	24.99	24.58	24.11	24.20	23.82	23.18	23.00	23.50	23.70	23.85	24.47
RANGE	0.37	0.42	0.64	0.99	0.99	0.93	1.66	1.76	1.05	0.90	0.74	0.32
STANDARD DEV.	0.09	0.13	0.17	0.25	0.22	0.28	0.41	0.49	0.33	0.24	0.18	0.08
ANNUAL MIN	23.00											
ANNUAL MEAN	24.47											
ANNUAL MAX	25.45											