

## Example Data Sets

In real applications of climatological data analysis we would hope to use much more data (e.g., all available January daily data, rather than data for just a single year) and would have a computer perform the calculations. This small data set is used in a number of examples in this book so that the calculations can be performed by hand, and a clearer understanding of procedures can be achieved.

**TABLE A.1** Daily Precipitation (in.) and Temperature (°F) Observations at Ithaca and Canandaigua, New York, for January 1987

Date	Ithaca			Canandaigua		
	Precipitation	Max Temp.	Min Temp.	Precipitation	Max Temp.	Min Temp.
1	0.00	33	19	0.00	34	28
2	0.07	32	25	0.04	36	28
3	1.11	30	22	0.84	30	26
4	0.00	29	−1	0.00	29	19
5	0.00	25	4	0.00	30	16
6	0.00	30	14	0.00	35	24
7	0.00	37	21	0.02	44	26
8	0.04	37	22	0.05	38	24
9	0.02	29	23	0.01	31	24
10	0.05	30	27	0.09	33	29
11	0.34	36	29	0.18	39	29
12	0.06	32	25	0.04	33	27
13	0.18	33	29	0.04	34	31
14	0.02	34	15	0.00	39	26
15	0.02	53	29	0.06	51	38
16	0.00	45	24	0.03	44	23
17	0.00	25	0	0.04	25	13
18	0.00	28	2	0.00	34	14
19	0.00	32	26	0.00	36	28
20	0.45	27	17	0.35	29	19
21	0.00	26	19	0.02	27	19
22	0.00	28	9	0.01	29	17
23	0.70	24	20	0.35	27	22
24	0.00	26	−6	0.08	24	2
25	0.00	9	−13	0.00	11	4
26	0.00	22	−13	0.00	21	5
27	0.00	17	−11	0.00	19	7

*Continued*

**TABLE A.1** Daily Precipitation (in.) and Temperature (°F) Observations at Ithaca and Canandaigua, New York, for January 1987—Cont'd

Date	Ithaca			Canandaigua		
	Precipitation	Max Temp.	Min Temp.	Precipitation	Max Temp.	Min Temp.
28	0.00	26	−4	0.00	26	8
29	0.01	27	−4	0.01	28	14
30	0.03	30	11	0.01	31	14
31	0.05	34	23	0.13	38	23
Sum/avg.	3.15	29.87	13.00	2.40	31.77	20.23
Std. dev.	0.243	7.71	13.62	0.168	7.86	8.81

**TABLE A.2** January Precipitation at Ithaca, New York, 1933–1982, Inches

1933	0.44	1945	2.74	1958	4.90	1970	1.03
1934	1.18	1946	1.13	1959	2.94	1971	1.11
1935	2.69	1947	2.50	1960	1.75	1972	1.35
1936	2.08	1948	1.72	1961	1.69	1973	1.44
1937	3.66	1949	2.27	1962	1.88	1974	1.84
1938	1.72	1950	2.82	1963	1.31	1975	1.69
1939	2.82	1951	1.98	1964	1.76	1976	3.00
1940	0.72	1952	2.44	1965	2.17	1977	1.36
1941	1.46	1953	2.53	1966	2.38	1978	6.37
1942	1.30	1954	2.00	1967	1.16	1979	4.55
1943	1.35	1955	1.12	1968	1.39	1980	0.52
1944	0.54	1956	2.13	1969	1.36	1981	0.87
		1957	1.36			1982	1.51

**TABLE A.3** June Climate Data for Guayaquil, Ecuador, 1951–1970 (Asterisks Indicate El Niño Years)

Year	Temperature (°C)	Precipitation (mm)	Pressure (mb)
1951*	26.1	43	1009.5
1952	24.5	10	1010.9
1953*	24.8	4	1010.7
1954	24.5	0	1011.2
1955	24.1	2	1011.9
1956	24.3	Missing	1011.2
1957*	26.4	31	1009.3
1958	24.9	0	1011.1
1959	23.7	0	1012.0
1960	23.5	0	1011.4

**TABLE A.3** June Climate Data for Guayaquil, Ecuador, 1951–1970 (Asterisks Indicate El Niño Years)—Cont’d

Year	Temperature (°C)	Precipitation (mm)	Pressure (mb)
1961	24.0	2	1010.9
1962	24.1	3	1011.5
1963	23.7	0	1011.0
1964	24.3	4	1011.2
1965*	26.6	15	1009.9
1966	24.6	2	1012.5
1967	24.8	0	1011.1
1968	24.4	1	1011.8
1969*	26.8	127	1009.3
1970	25.2	2	1010.6