

◎統計と資料

三朝温泉地の気候について (第12報)

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われわれは1956年以降, 三朝温泉地の気候要素について観測を行ってきているが, 今回は第12報として, ひきつづき1988年1月1日から1988年12月末日までの1カ年の気象観測の資料を報告することとした。なお1985年4月1日以降は自動記録装置が備えられたので, 今回の資料はすべてこの自動記録装置によるものである。

文 献

1. 的場邦和, 八幡隆昭, 江沢英光, 井上妙子: 三朝温泉地の気候について, -過去10年間の集計-岡大温研報, 36:31-36, 1966.
2. 井上妙子, 池上忠興, 森永寛: 三朝温泉地の気候について (第2報), 岡大温研報, 39:43-59, 1970.
3. 井上妙子, 森永寛: 三朝温泉地の気候について (第3報), 岡大温研報, 41:13-33, 1972.
4. 井上妙子, 森永寛: 三朝温泉地の気候について (第4報), 岡大温研報, 45:47-67, 1976.
5. 井上妙子, 森永寛: 三朝温泉地の気候について (第5報), 岡大温研報, 48:55-75, 1979.
6. 井上妙子, 谷崎勝朗, 森永寛: 三朝温泉地の気候について (第6報), 岡大温研報, 52:71-91, 1982.
7. 井上妙子, 谷崎勝朗, 森永寛: 三朝温泉地の気候について (第7報), 岡大温研報, 55:15-37, 1984.
8. 井上妙子, 谷崎勝朗, 森永寛: 三朝温泉地の気候について (第8報), 環境病態研報告, 57:67-97, 1986.
9. 松原扶美恵, 周藤眞康, 谷崎勝朗: 三朝温泉地の気候について (第9報), 環境病態研報告, 58:41-65, 1987.
10. 松原扶美恵, 周藤眞康, 谷崎勝朗: 三朝温泉地の気候について (第10報), 環境病態研報告, 59:105-129, 1988.
11. 松原扶美恵, 遠藤裕井, 周藤眞康, 谷崎勝朗: 三朝温泉地の気候について (第11報), 環境病態研報告, 60:111-135, 1989.

On climatology in Misasa spa (twelfth report)

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Climatological data of the last 12 months (1988. 1.1-1988. 12. 31) obtained by the climate autorecording system at the Misasa Medical Branch in Misasa spa, Tottori-Ken, Japan, are presented.

Table 1. Daily Atmospheric Temperature at 9 AM (°C). (1988)

1	2	3	4	5	6	7	8	9	10	上旬	11	12	13	14	15	16	17			
January																				
0.0	8.3	6.9	6.5	3.3	2.3	1.3	5.1	5.0	-0.1	3.9	0.6	-0.7	1.1	2.7	8.0	5.5	3.1			
February																				
1.8	7.2	-3.8	-0.5	11.1	5.3	-1.3	-0.5	1.0	0.2	2.1	0.1	1.9	1.9	2.1	0.2	0.3	0.3			
March																				
4.3	4.6	0.4	0.3	1.5	0.8	1.3	2.1	1.2	5.2	2.2	10.9	8.7	8.1	9.2	5.3	2.9	1.0			
April																				
5.7	7.1	11.6	9.1	16.4		8.2	6.3				12.0	16.1	14.2	16.6	13.0	12.7				
May																				
24.9	19.1				14.7	15.2	11.7	14.0	14.6		16.5	16.0	18.3	19.0	14.3	17.6	21.0			
June																				
18.8	19.9	20.4	21.9	21.0	24.7	24.8	24.9	18.1	18.8	21.3	22.4	21.4	23.8	25.4	24.1	25.3	24.1			
July																				
20.2	23.3	25.3	20.3	21.2	21.3	27.4	28.3	29.3	29.4	24.6	22.8	23.8	22.9	23.4	24.5	23.1	24.0			
August																				
	24.4	22.2	26.1	29.8	29.6	27.8	28.3	28.1	23.7		25.6	28.6	22.9	25.5	28.5	25.5	28.3			
September																				
22.7	23.1	24.1	22.5	21.4	22.8	22.6	22.0	23.1	23.4	22.8	20.0	24.0	21.0	21.7	22.2	22.4	22.0			
October																				
19.9	16.1	15.7	17.3	15.4	17.7	17.5	18.4	15.3	16.2	17.0	14.1	16.5	11.4	13.9	15.9	14.3	15.8			
November																				
8.7	13.2	9.7	8.3	11.4	7.9	10.0	7.1	7.6	11.0	9.5	7.0	9.8	15.3	13.2	8.1	10.0	8.9			
December																				
4.7	5.1	1.9	6.1	6.0	1.8	4.2	7.7	9.0	4.7	5.1	4.0	3.5	6.1	12.2	0.6	-0.5	0.2			

18	19	20	中旬	21	22	23	24	25	26	27	28	29	30	31	下旬	月
2.1	1.0	1.9	2.5	10.2	9.4	2.1	-0.1	1.9	3.1	0.9	4.0	4.2	1.1	4.7	4.2	3.5
0.1	0.7	2.1	1.0	1.1	-0.3	2.9	2.9	2.1	2.7	3.7	2.7	2.3			2.2	1.7
4.7	7.6	7.4	6.6	6.8	8.6	7.9	7.4	5.5	6.1	6.4	5.2	6.0	8.7	9.1	7.1	5.3
15.3	11.9	13.5		13.6	14.7	12.3	11.7	16.4	19.2	18.3	19.2	15.0	19.6		16.0	
22.0	20.8	23.6	18.9	18.3	16.0	12.3	13.9	19.0	16.4	22.0	22.2	22.8	17.1	19.6	18.1	
22.5	24.2	23.2	23.6	22.6	22.1	25.3	20.7	21.6	20.3	20.4	20.9	22.2	22.3		21.8	22.2
22.0	24.0	27.1	23.8	22.7	23.6	23.7	23.9	23.2	24.9	24.3	22.8	20.6	22.2	20.5	22.9	23.8
26.2	24.2	25.3	26.1	26.7	29.0	26.6	25.1	23.3	22.7	23.3	24.7	25.1	22.5	23.5	27.3	
20.9	25.0	20.1	21.9	21.0	22.4	19.9	19.9	19.3	19.3	20.0	18.7	19.8	19.6		20.0	21.6
15.4	13.8	12.9	14.4	16.8	15.8	12.3	12.0	16.3	13.9	12.8	12.9	7.4	11.8	9.6	12.9	14.8
9.2	7.9	4.5	9.4	6.3	7.2	12.9	7.2	2.8	5.3	5.1	4.3	3.9	5.1		6.0	7.5
1.2	2.9	5.3	3.6	4.9	2.9	0.5	5.5	4.5	2.7	1.5	2.9	2.0	-0.7	1.3	2.5	3.7

Table 2. Daily Maximum Temperature (°C). (1988)

1	2	3	4	5	6	7	8	9	10	上旬	11	12	13	14	15	16	17			
January																				
14.5	9.9	12.7	8.0	6.6	8.1	8.2	10.5	6.7	3.7	8.9	4.9	7.5	12.9	17.2	8.8	13.7	7.6			
February																				
9.7	8.7	-1.7	6.7	15.4	7.5	2.7	4.2	4.6	3.0	6.1	3.7	7.8	8.4	9.3	2.4	3.6	5.8			
March																				
7.0	8.3	3.1	5.7	7.0	7.5	3.8	7.0	8.8	13.3	7.1	15.8	14.6	18.0	19.4	9.5	5.2	4.8			
April																				
14.0	14.0	15.0	16.6	19.7		8.9	7.5	13.3	17.0		20.8	17.5	18.9	16.8	17.0	22.6	25.0			
May																				
29.8	24.4				22.6	15.3	14.7	19.5	18.0		21.1	20.7	22.3	23.6	17.5	24.1	25.2			
June																				
21.0	20.4	20.9	25.5	26.9	29.9	28.4	25.1	21.7	24.5	24.4	27.0	26.2	29.1	30.8	28.4	28.7	27.8			
July																				
24.9	28.3	27.1	21.6	26.1	26.1	34.6	33.9	36.2	31.3	29.0	27.8	26.3	28.9	26.5	29.5	24.3	27.7			
August																				
31.2	29.5	29.7	33.7	33.8	33.7	33.0	33.7	32.6	29.2	32.0	32.6	33.1	29.3	33.2	33.8	28.4	31.3			
September																				
27.7	27.8	27.0	29.0	25.0	24.3	26.2	27.3	28.8	28.1	27.1	25.8	26.9	26.8	25.1	26.9	22.7	26.6			
October																				
24.6	23.0	24.8	22.6	20.9	21.2	22.4	21.4	22.4	22.5	22.6	24.9	18.5	14.7	20.6	22.5	22.8	18.5			
November																				
19.8	17.5	13.7	16.0	15.0	18.9	17.6	17.2	20.7	11.0	16.7	11.0	20.1	21.1	14.9	15.7	18.4	12.8			
December																				
12.3	12.8	15.6	13.9	8.5	13.5	17.5	19.6	14.5	6.5	13.5	7.9	14.4	16.4	13.4	4.2	1.6	2.1			

18	19	20	中旬	21	22	23	24	25	26	27	28	29	30	31	下旬	月
4.6	9.9	15.0	10.2	15.0	14.6	9.8	2.4	7.7	7.7	7.8	10.1	12.2	10.6	6.0	9.4	9.5
1.6	7.1	7.2	5.7	4.0	11.4	5.8	8.0	8.7	8.7	5.3	9.6	8.4			7.8	6.4
12.2	12.2	10.5	12.2	10.4	12.7	12.4	11.7	8.0	7.4	10.7	15.2	11.7	10.1	12.2	11.1	10.2
17.0	22.3	18.4	19.6	17.9	17.1	17.6	16.8	20.3	24.5	24.2	26.0	18.8	27.5		21.1	
28.8	29.1	26.6	23.9	19.1	16.2	16.5	19.7	23.0	22.5	27.6	26.9	24.9	20.9	26.5	22.2	
28.1	29.2	26.6	28.2	25.3	29.1	26.1	26.3	22.2	23.0	21.5	23.9	24.1	23.4		24.5	25.7
24.3	29.1	29.3	27.3	26.9	29.2	26.6	24.2	24.4	27.8	28.0	23.5	23.3	26.1	26.5	26.0	27.4
32.3	28.5	29.8	31.2	32.5	31.8	30.7	25.4	24.3	25.0	27.6	28.8	28.7	29.5	29.6	28.5	30.5
28.5	29.0	26.9	26.5	26.5	26.2	27.5	20.0	20.1	21.0	24.7	25.7	25.3	22.3		23.9	25.8
22.3	20.6	22.9	20.8	22.7	21.8	21.7	14.5	20.2	20.9	22.4	13.2	14.3	14.9	14.8	18.3	20.5
13.8	9.8	10.0	14.7	15.1	16.5	16.3	10.3	6.1	7.6	5.2	11.0	7.6	10.7		10.6	14.0
10.4	9.2	11.6	9.1	10.4	6.2	11.0	9.0	7.1	6.6	11.8	4.7	4.0	11.2	11.0	8.4	10.3

Table 3. Daily Minimum Temperature (°C). (1988)

1	2	3	4	5	6	7	8	9	10	上旬	11	12	13	14	15	16	17	
January																		
-0.8	6.5	2.5	2.0	2.2	-1.9	-2.3	3.5	0.5	-0.9	1.1	-1.2	-2.1	-1.1	-1.4	6.7	4.7	1.2	
February																		
-1.1	-3.2	-4.3	-3.2	3.3	1.3	-2.7	-1.5	-1.0	-1.0	-1.4	-0.5	-0.7	-1.0	-1.7	0.2	-0.3	-1.0	
March																		
3.2	1.9	-0.9	-1.7	-1.4	-1.7	-0.9	-1.9	-2.3	0.2	-0.6	0.2	3.4	1.1	4.3	2.1	1.6	0.7	
April																		
-1.1	2.6	3.4	1.8	3.6		4.4	2.2	-0.1	-1.3		1.9	10.7	6.7	3.7	1.7	1.0	6.4	
May																		
15.2	7.1				4.9	10.0	6.3	3.7	13.3		14.4	7.3	7.5	8.0	12.7	8.4	9.9	
June																		
16.3	16.5	17.3	15.9	13.5	12.1	14.6	16.6	16.0	13.7	15.2	11.5	17.8	17.3	14.8	15.9	17.5	16.5	
July																		
18.0	18.3	21.3	19.3	18.3	18.7	18.2	22.0	21.9	21.6	19.7	21.8	21.4	22.5	22.8	22.6	21.6	21.2	
August																		
20.9	18.5	14.9	22.1	23.8	22.3	20.9	21.1	21.4	21.4	20.7	21.8	22.4	21.7	22.3	22.7	22.3	21.0	
September																		
17.9	17.2	17.1	18.7	20.1	20.9	20.4	18.3	16.6	19.8	18.7	19.2	19.9	16.6	15.7	18.9	20.3	17.3	
October																		
13.4	11.8	10.8	11.5	11.1	14.5	11.5	12.0	10.7	9.5	11.7	7.2	12.9	8.4	8.1	9.2	10.1	13.2	
November																		
2.8	-6.2	6.2	3.5	7.0	2.4	4.9	1.7	1.7	5.5	4.2	5.4	2.9	6.9	5.2	3.5	3.2	7.2	
December																		
2.7	0.4	-1.0	1.7	2.6	-1.2	-0.7	3.6	4.0	1.0	1.3	0.1	-0.9	1.8	-0.8	-1.6	-2.0	-4.1	

18	19	20	中旬	21	22	23	24	25	26	27	28	29	30	31	下旬	月
1.7	-1.2	-1.3	0.6	-0.8	6.7	-1.9	-3.5	-0.1	0.2	-1.8	-0.8	-1.0	-1.2	0.6	-0.4	0.4
-1.0	-1.9	-2.2	-1.0	-0.3	-2.4	2.2	-0.9	-1.3	0.7	0.5	-0.2	-0.8			-0.3	-0.9
0.7	0.6	2.2	1.6	2.6	6.9	3.1	0.5	1.7	4.4	-1.3	-2.7	3.7	5.6	-0.3	2.2	1.1
9.6	5.6	9.5	5.7	9.8	6.3	1.9	2.5	4.2	5.3	7.9	7.3	14.5	11.4		7.1	
10.5	12.0	15.1	10.6	16.1	11.4	10.9	9.3	9.8	12.5	11.0	14.8	13.0	10.7	9.6	11.7	
16.2	13.1	16.8	15.7	15.4	13.7	18.5	19.2	19.4	18.3	19.4	19.3	18.2	18.9		18.0	16.3
21.5	20.2	22.3	21.8	21.9	21.7	22.5	22.3	21.7	21.7	21.7	20.1	19.8	19.3	16.3	20.8	20.8
21.9	21.2	20.0	21.7	20.8	24.1	23.2	23.3	22.4	19.9	19.4	20.0	17.3	14.7	16.3	20.1	20.8
15.5	19.5	17.1	18.0	16.4	16.9	15.0	17.4	17.4	17.7	16.8	14.2	16.2	17.4		16.5	17.7
10.8	7.4	5.7	9.3	11.9	7.8	6.5	10.0	12.6	8.9	6.8	8.9	7.0	7.4	4.5	8.4	9.7
6.2	1.6	1.4	4.3	2.6	4.2	3.5	1.8	0.9	0.0	-0.8	1.1	3.1	3.6		2.0	3.5
-1.7	2.1	0.5	-0.7	2.2	1.9	-0.8	-0.2	1.4	1.2	-1.0	2.2	1.2	-1.8	-1.2	0.5	0.4

Table 4. Daily Amount of Precipitation (mm). (1988)

1	2	3	4	5	6	7	8	9	10	上旬	11	12	13	14	15	16	17	
January																		
0	9.0	2.0	23.5	13.5	0	2.5	0.5	1.0	8.0	60	1.0	0.5	0	0	5.5	1.0	5.0	
February																		
0.5	2.0	24.0	1.0	1.5	4.5	8.5	5.0	1.5	28.5	77	0	0	0	15.0	12.5	22.0	10.0	
March																		
8.5	0.5	20.5	1.5	0	0	5.5	0.5	4.5	0.5	42	1.5	7.0	0	14.5	13.0	0	7.5	
April																		
0	0	0	0	0		20.5	21.0	0	0		0	8.5	14.0	0.5	0	0	0	
May																		
0	0				0	33.0	0	0	2.0		25.0	7.5	0	0	4.5	0	0	
June																		
4.0	43.5	29.0	0	0	0	0	14.0	4.0	0	130.5	0	0.5	0	0	0	0	0	
July																		
0.5	0	9.5	1.5	0	0	0	0	0	0	11.5	14.5	19.5	102.5	52.0	13.0	4.5	0	
August																		
0	0	0	0	0	0	0	0	0	2.5	2.5	0	6.5	2.0	0.5	7.5	6.5	49.5	
September																		
0	0	6.5	1.0	47.0	24.5	7.0	0	0	1.0	87.0	14.5	0.5	0	0	0.5	32.0	3.5	
October																		
0	0	0	0	59.5	6.0	0	0	0	0	65.5	0	5.0	17.0	0	0	0	0	
November																		
0	3.0	6.0	0	0.5	0	0	0	0	5.0	14.5	0.5	0	0	2.0	0	5.5	0	
December																		
0.5	7.5	0	0	1.0	0	0	0	5.5	0.5	15.0	0	0	0	0	0	25.0	7.5	

18	19	20	中旬	21	22	23	24	25	26	27	28	29	30	31	下旬	月
4.0	0	0	21.5	5.5	2.0	0.5	0	0	0	0	0	0	0	2.0	10	91.5
29.5	3.0	1.0	93	7.5	0	11.5	0	0	0	1.5	0	0.5			21	191
2.0	0	0	45.5	5.5	15.0	0.5	0	6.0	25.0	0	0	0	0	0	52	139.5
14.0	0	0	37.0	0	0	0	0	1.0	0	0	0	23.0	0		24.0	
0	0	2.5	39.5	1.0	23.5	16.0	0	0	0	6.5	0	0	0	0	47	
0	0	1.5	2.0	0	0	10.5	9.0	0.5	1.5	8.0	5.0	12.5	28.5		75.5	208.0
2.5	0	104.0	312.5	9.0	0	26.0	3.0	4.0	6.5	3.5	2.5	0	0	0	54.5	378.5
10.5	3.5	0	86.5	0	4.0	4.0	50.5	35.0	12.0	0	0	0	0	0	105.5	194.5
0	0	8.0	59.0	0	0	0	29.5	21.5	6.0	0.5	0	0	0.5		58.0	204.0
0	0	0	22.0	0	0	0	5.0	3.5	0	0	38.5	28.5	2.5	2.0	80.0	167.5
8.5	2.5	1.0	20.0	5.0	0	0.5	1.0	0.5	0.5	8.5	2.5	23.5	3.5		45.5	80.0
0	1.0	0	33.5	1.0	14.0	0	0.5	10.5	1.5	0	13.5	0	0	0	41.0	89.5

Table 5. Wind Direction at 9AM. (1988)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
January															
ENE	CALM	CALM	NE	N	ENE	N	ENE	WSW	CALM	CALM	ENE	CALM	NE	CALM	CALM
February															
S	W	WSW	SSE	SE	CALM	WSW	CALM	SSW	CALM	CALM	NE	E	ENE	CALM	CALM
March															
CALM	NNE	CALM	SW	NE	CALM	WSW	SSE	CALM	CALM	ESE	CALM	CALM	ENE	NNE	ESE
April															
CALM	CALM	E	WSW	W		ENE	NE			CALM	SW	SE	WSW	SSW	CALM
May															
W	ENE				SW	NNE	SSE	SW	NNE	CALM	NE	SW	CALM	WSW	SW
June															
CALM	E	SW	W	WSW	CALM	SSW	WSW	WSW	NE	CALM	CALM	N	CALM	SW	CALM
July															
SW	WSW	SSW	NNE	NNE	WSW	ENE	NE	CALM	N	ENE	CALM	ENE	NE	NE	CALM
August															
	NW	SW	NE	SSW	WSW	CALM	SSW	ENE	CALM	SSW	SW	ENE	WSW	SSW	W
September															
SSW	SW	SW	SW	ENE	SW	ENE	E	SW	NW	CALM	CALM	SW	WSW	WSW	NE
October															
SW	CALM	ENE	WSW	NE	CALM	ENE	E	CALM	WSW	SW	NE	WSW	CALM	SE	CALM
November															
SE	WSW	NE	SSE	NE	SSE	CALM	SSE	ENE	W	WSW	SSW	SW	S	E	ENE
December															
ENE	ENE	E	CALM	WSW	ENE	ENE	NE	CALM	WSW	CALM	E	ENE	WSW	SSW	SW

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
E	NE	CALM	SW	S	SW	WSW	WSW	WSW	CALM	SE	ENE	SE	ENE	WSW
CALM	CALM	CALM	CALM	ENE	SSW	CALM	CALM	CALM	W	N	SSW	ENE		
CALM	WSW	CALM	ENE	CALM	CALM	CALM	E	CALM	NE	CALM	E	WSW	E	NE
	SSE	CALM	SW	SW	WSW	SSW	SW	SW	SW	W	SW	SW	CALM	
CALM	CALM	CALM	N	WSW	W	WNW	ENE	ENE	SW	WNW	ENE	S	NNE	CALM
SW	ENE	ESE	SSW	NE	SW	N	N	NE	ESE	CALM	SW	SW	ENE	
WNW	SW	CALM	CALM	WSW	SW	ESE	CALM	SW	WSW	SW	NE	NE	NE	CALM
WNW	E	WSW	SSW	ENE	SW	SW	S	E	WSW	CALM	WNW	CALM	ENE	ENE
NE	SW	ESE	WSW	SE	WSW	SSW	WSW	NE	WSW	CALM	NE	CALM	CALM	
CALM	CALM	S	ENE	CALM	CALM	S	NNE	CALM	CALM	SSE	N	NE	SW	CALM
CALM	CALM	NE	NNE	CALM	CALM	E	WSW	WSW	SW	W	ENE	CALM	ENE	
NNE	ENE	ENE	NE	CALM	CALM	ENE	ENE	NE	CALM	ENE	SSW	CALM	CALM	CALM

Table 6. Wind Speed at 9 AM. (1988)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
January															
1.2	0	0	0.9	0.6	0.4	0.4	1.8	5.5	0.5	0	0.8	0.1	2.5	0.6	0.1
February															
0.5	2.5	3.4	0.5	1.9	0.2	4.1	0.1	0.5	0	0	1.0	0.2	0.6	0	0
March															
0.1	0.7	0	0.6	0.5	0.2	4.6	0.5	0.3	0.4	2.1	0	0.2	0.9	1.9	2.5
April															
0.1	0.0	2.0	2.4	5.1		2.0	1.2			0	4.0	1.1	4.2	1.7	0.3
May															
1.6	1.9				0.9	0.7	0.7	2.3	1.0	0.3	0.8	4.1	0.0	0.8	0.7
June															
0.2	1.7	0.2	0.4	1.2	0.2	0.6	0.4	0.5	1.4	0.2	0.2	0.5	0.2	0.9	0.3
July															
0.4	1.3	0.5	0.5	0.8	0.2	0.5	1.1	0.1	1.3	1.7	0.2	1.3	1.6	1.0	0.2
August															
	1.4	0.5	0.8	1.9	1.5	0.3	0.2	0.3	0.2	0.5	1.0	0.8	0.8	0.8	2.3
September															
0.3	0.8	1.4	0.6	1.3	1.0	0.2	1.0	1.1	0.3	0	0.3	1.0	0.3	0.4	1.8
October															
1.0	0.1	0.2	1.3	0.5	0	1.2	1.4	0.2	1.2	0.3	1.7	1.1	0.2	0.8	0.2
November															
0.6	1.1	1.1	0.4	2.1	0.3	0	0.5	0.9	0.9	3.8	1.3	6.3	0.8	0.5	2.3
December															
0.9	0.4	0.7	0.1	3.8	0.8	1.3	2.2	0	1.7	0	0.9	1.4	7.4	1.0	2.5

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0.9	1.2	0.2	0.2	3.6	0.4	4.4	3.7	1.3	0.2	0.5	0.5	0.3	0.5	4.4
0	0	0.2	0.2	0.5	0.7	0	0.1	0.1	0.4	0.5	0.8	0.9		
0.2	1.1	0.2	3.0	0.2	0	0.6	2.6	0.1	1.7	0.2	0.8	0.8	2.2	1.0
	3.4	0.4	0.9	1.4	1.0	0.3	1.0	0.8	3.6	2.8	0.9	0.9	0.2	
0.2	0.0	0.1	1.2	1.0	0.9	2.1	1.7	2.2	0.5	0.5	1.0	0.7	1.1	0.0
0.6	0.3	0.6	0.7	1.4	1.8	1.5	1.1	1.2	1.4	0.1	0.6	1.0	0.2	
0.7	0.7	0.3	0.3	0.8	1.1	0.3	0.1	0.9	0.9	0.4	1.9	2.1	1.0	0.3
1.4	0.3	0.3	0.8	0.5	1.1	0.8	0.2	0.5	1.0	0.2	0.4	0.3	0.5	0.6
1.0	0.7	1.0	3.5	0.7	1.2	0.5	0.9	2.2	1.1	0	1.8	0.2	0	
0.2	0	0.4	0.9	0	0.1	0.4	1.8	0.2	0	0.4	1.5	0.9	1.0	0.5
0.1	0.1	1.9	1.6	0	0.1	2.9	1.6	3.9	5.7	1.3	0.6	0.2	0.2	
1.6	1.1	1.4	1.9	0.1	0.2	0.6	0.7	0.9	0.1	1.1	0.8	0	0	0.2

Table 7. Daily Weather (1988)

: ○ Clear days, ⊙ Fine days,

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
January																		
○	●	●	●	●	○	⊙	⊙	●	*	*	⊙	○	○	●	○	⊙	●	⊙
February																		
*	⊙	*	○	⊙	⊙	*	*	*	*	⊙	⊙	⊙	⊙	*	*	⊙	*	⊙
March																		
●	⊙	*	*	⊙	⊙	*	⊙	○	○	○	⊙	○	⊙	⊙	⊙	*	●	⊙
April																		
⊙	⊙	○	○	○	⊙	⊙	●	○	○	○	⊙	○	⊙	○	○	○	⊙	○
May																		
○	○	⊙	⊙	○	⊙	●	⊙	○	●	⊙	⊙	○	⊙	●	○	○	⊙	⊙
June																		
●	●	⊙	○	⊙	⊙	○	⊙	●	⊙	○	⊙	○	⊙	○	⊙	⊙	○	○
July																		
⊙	⊙	○	●	⊙	⊙	○	⊙	○	○	●	⊙	●	⊙	⊙	⊙	⊙	⊙	⊙
August																		
○	○	○	⊙	○	○	○	○	○	○	⊙	○	○	○	⊙	⊙	○	○	●
September																		
○	○	○	○	●	⊙	⊙	○	○	⊙	●	○	○	⊙	○	●	⊙	○	○
October																		
○	○	⊙	⊙	⊙	●	○	○	○	○	○	●	⊙	○	○	○	⊙	⊙	○
November																		
○	○	⊙	○	⊙	○	⊙	⊙	⊙	●	⊙	○	○	○	○	○	⊙	○	⊙
December																		
⊙	⊙	○	⊙	⊙	○	⊙	○	●	○	⊙	○	⊙	⊙	*	*	⊙	○	⊙

☉ Cloudy days, ⊕ Slightly cloudy days, ● Rainy days, * Snowy days, △ Hail

20	21	22	23	24	25	26	27	28	29	30	31	☉	⊕	☉	⊕	●	*	△
☉	☉	☉	*	*	☉	☉	☉	●	☉	☉	☉	10	0	9	0	8	4	0
☉	☉	☉	●	⊕	⊕	⊕	●	☉	☉			4	0	14	0	2	9	0
☉	☉	☉	●	☉	●	●	☉	☉	☉	☉	☉	10	0	12	0	5	4	0
☉	⊕	☉	☉	☉	⊕	☉	⊕	☉	●	☉		16	1	7	4	2	0	0
☉	☉	●	●	⊕	☉	☉	☉	☉	☉	☉	☉	11	2	12	1	5	0	0
☉	☉	⊕	⊕	●	●	☉	●	☉	☉	☉		8	4	9	3	6	0	0
☉	●	☉	●	●	☉	☉	☉	●	☉	☉	☉	6	0	14	3	8	0	0
☉	☉	☉	☉	●	●	☉	☉	☉	☉	☉	☉	23	0	5	0	3	0	0
●	☉	☉	☉	●	●	●	☉	☉	☉	☉		16	0	7	0	7	0	0
☉	☉	☉	☉	☉	☉	☉	☉	☉	●	☉	●	17	0	10	0	4	0	0
☉	☉	☉	☉	☉	☉	☉	●	☉	△	☉		14	2	10	1	2	0	1
⊕	☉	●	⊕	☉	☉	☉	☉	●	☉	☉	☉	9	3	11	3	3	2	0

Table 8. Daily Humidity (%) at 9 AM. (1988)

1	2	3	4	5	6	7	8	9	10	上旬	11	12	13	14	15	16	17	
January																		
78.0	83.0	82.5	84.9	79.3	76.4	75.1	82.9	39.4	82.6	76.4	83.1	81.9	83.2	68.9	83.1	82.6	83.6	
February																		
80.3	41.0	83.0	72.2	41.5	83.5	68.7	80.0	69.7	83.4	70.3	80.9	83.6	81.6	77.6	81.1	82.1	76.2	
March																		
83.6	83.5	82.0	77.7	81.7	79.4	77.4	57.9	83.0	78.5	78.5	40.1	78.1	68.2	59.5	75.2	44.0	82.9	
April																		
50.1	62.5	47.0	53.8	30.0		59.9	83.4				47.0	54.1	72.9	37.8	48.8	45.2		
May																		
41.5	30.4				46.6	81.8	61.4	55.5	81.0		88.8	77.0	38.8	41.3	90.3	49.4	46.3	
June																		
84.6	64.8	88.4	54.5	64.5	45.4	37.9	65.3	87.8	72.7	66.6	57.7	78.5	63.4	49.1	63.8	62.6	62.8	
July																		
86.0	72.0	76.7	88.9	79.1	74.5	53.8	69.2	56.1	60.5	71.7	81.4	85.9	90.9	90.3	90.4	88.7	75.8	
August																		
	77.4	63.5	75.0	53.2	56.3	66.6	63.6	61.2	83.4		79.2	65.2	87.9	85.2	61.0	77.6	57.5	
September																		
76.3	71.5	73.5	73.5	90.6	90.3	88.2	83.7	77.5	77.7	80.3	90.7	73.0	83.1	79.4	85.0	89.3	80.7	
October																		
74.0	79.7	84.5	76.6	81.2	91.2	70.8	56.7	86.0	80.3	78.1	72.9	90.5	63.6	67.6	71.7	79.7	83.2	
November																		
91.9	82.0	87.8	86.2	82.2	85.4	88.6	83.3	79.9	79.5	84.7	69.1	76.3	73.3	66.0	89.3	70.4	92.0	
December																		
91.9	91.7	93.1	93.3	55.3	81.7	87.3	82.8	86.7	46.2	81.0	74.3	82.9	74.2	48.7	82.6	58.5	92.5	

18	19	20	中旬	21	22	23	24	25	26	27	28	29	30	31	下旬	月
82.2	79.5	83.1	81.1	57.2	82.9	45.1	44.5	63.8	52.6	72.8	64.1	70.7	83.9	44.6	62.0	73.2
82.9	82.3	77.7	80.6	81.5	67.1	84.4	84.0	73.8	75.6	82.9	68.4	77.5			77.2	76.0
83.4	74.2	41.3	64.7	46.5	82.9	69.8	43.4	82.7	77.4	46.3	52.4	81.5	51.2	43.4	61.6	68.3
74.8	51.0	72.5		72.0	40.1	28.4	53.8	38.8	28.1	39.6	46.6	92.0	66.6		50.6	
51.3	66.4	40.3	59.0	87.7	91.6	86.7	64.4	53.6	76.5	49.4	61.6	51.3	60.2	62.4	67.8	
72.4	47.7	67.4	62.5	72.8	60.3	49.4	90.2	87.9	83.8	90.4	88.4	75.5	91.1		79.0	69.4
89.7	73.2	74.7	84.1	90.0	79.3	90.1	88.7	88.8	79.3	82.1	87.5	83.2	71.5	81.0	83.8	79.9
82.6	90.2	80.9	76.7	76.8	69.2	77.6	89.1	89.5	90.2	81.7	80.0	59.2	68.1	66.9	77.1	
77.1	71.6	88.8	81.9	75.0	68.5	77.4	90.2	88.5	90.1	78.4	79.7	79.6	87.7		81.5	81.2
88.8	82.5	72.3	77.3	86.2	83.7	84.7	78.9	83.2	90.8	84.3	85.7	87.7	51.5	91.9	82.6	79.3
89.6	70.5	86.4	78.3	93.3	92.4	42.9	62.0	71.0	50.7	60.1	92.0	92.3	89.9		74.7	79.2
93.3	88.5	90.8	78.6	93.4	91.2	92.0	87.8	73.9	90.3	93.8	90.3	85.0	93.5	93.0	89.4	83.0

Table 9. Daily Duration of Sunshine (hours). (1988)

1	2	3	4	5	6	7	8	9	10	上旬	11	12	13	14	15	16	17			
January																				
8.3	0	3.8	0	0	5.8	0	1.4	3.4	1.4	24.1	0.4	0.1	7.9	8.5	0	4.4	0.8			
February																				
4.7	1.0	0	5.4	0.8	1.4	1.3	1.5	2.1	1.0	19.2	0	2.8	1.7	4.2	0.1	1.2	4.0			
March																				
0	0	0.5	4.1	1.7	2.0	0.9	6.3	6.5	8.7	30.7	3.3	0.1	7.9	0.7	1.6	0.1	0			
April																				
9.5	7.0	10.0	10.3	6.2		1.2	0	10.9	9.6		11.1	0	9.3	3.6	11.3	10.8	10.0			
May																				
					11.2	0	5.3	11.1	0		0.2	0	11.1	3.7	0	12.1	9.8			
June																				
July																				
August																				
7.1	11.5	11.9	9.4	9.9	10.9	10.4	11.4	7.4	3.7	93.6	8.9	8.1	5.1	9.2	9.5	6.7	9.2			
September																				
8.9	8.4	8.4	7.6	2.1	1.4	4.5	8.7	10.5	3.0	63.5	1.6	5.3	7.9	3.9	6.5	0	6.1			
October																				
9.3	8.5	7.5	6.9	1.9	1.9	9.9	5.6	6.7	9.4	67.6	9.0	0	4.5	9.4	9.0	8.1	0			
November																				
9.6	4.9	0.6	7.5	0.1	9.5	3.7	9.5	9.5	0.7	55.6	3.5	9.3	8.6	2.0	6.3	3.2	0.3			
December																				
6.0	4.8	7.5	2.4	4.0	8.0	8.0	7.1	0.2	4.0	52.0	2.4	6.1	6.4	0.7	3.4	1.1	0.3			

18	19	20	中旬	21	22	23	24	25	26	27	28	29	30	31	下旬	月
0	4.8	8.9	35.8	0	0.9	2.7	3.1	5.6	3.9	1.7	3.5	3.9	7.4	1.4	34.1	94.0
0.6	6.2	0.9	21.7	0.4	9.9	0	3.3	4.9	0.2	0	6.3	0			25.0	65.9
6.5	1.3	5.8	27.3	0.1	0.7	3.3	7.7	0	0	9.2	3.3	3.6	1.0	8.0	36.9	94.9
1.8	10.9	7.2	76.0	2.0	0.7	11.3	9.5	7.2	11.3	9.3	11.2	0	8.8		71.3	
7.0	5.2	8.3	77.2	7.9	6.9	7.5	0	0.1	2.4	7.6	5.4	8.3	8.9	8.6	63.5	234.3
10.9	5.2	5.8	53.2	7.2	8.3	7.9	0	0.2	0.2	5.4	7.5	6.5	1.9		45.1	161.8
5.8	8.5	7.6	61.9	3.5	8.9	8.6	0	5.6	6.1	9.4	0	2.3	2.1	3.8	50.3	179.8
2.0	0.8	0.7	36.7	4.5	6.5	1.3	3.6	2.2	6.4	0.9	6.0	0	2.7		34.1	126.4
7.2	0.8	1.5	29.9	2.7	0.7	7.8	0	0	0	5.2	0	0	7.8	3.1	27.3	109.2

Table 10. Daily Atmospheric Pressure at 9 AM (mb). (1988)

1	2	3	4	5	6	7	8	9	10	上旬	11	12	13	14	15	16	17
1028.4	1024.0	1029.3	1024.4	1025.5	1028.1	1023.6	1017.5	1020.8	1026.4	1024.8	1029.2	1028.2	1028.1	1026.9	1023.2	1021.7	1022.2
1022.4	1014.3	1016.1	1019.7	1012.6	1010.4	1018.2	1022.3	1023.6	1025.7	1018.5	1029.2	1023.3	1024.9	1024.3	1024.3	1026.7	1027.4
1019.8	1018.7	1020.2	1026.7	1025.3	1024.9	1021.6	1024.2	1024.6	1029.1	1023.5	1023.3	1009.3	1017.3	1015.2	1015.5	1026.8	1021.2
1025.5	1022.7	1020.9	1021.5	1019.4		1013.3	1009.1				1021.3	1014.7	1007.3	1004.7	1012.5	1017.2	
1001.9	1008.4				1009.0	1002.8	1007.1	1012.6	1009.2		1005.0	1000.3	1005.1	1008.0	1005.9	1010.5	1006.5
1007.4	1000.5	995.2	997.2	1006.9	1008.1	1006.8	1001.4	997.1	1000.1	1002.1	1000.9	997.9	999.6	999.6	1001.7	999.4	1003.0
1001.5	1002.3	999.4	1004.4	1005.1	1004.4	1000.6	999.7	1000.2	1001.1	1001.9	1004.8	1005.7	1004.7	1002.4	1000.9	1001.4	1002.2
	1003.6	1001.4	1000.2	1004.8	1007.6	1007.0	1007.2	1006.9	1004.1		1000.0	998.6	999.9	1000.8	1001.5	998.5	1001.5
1002.8	1002.5	1004.8	1006.8	1005.3	999.3	1002.4	1007.2	1009.2	1006.3	1004.7	1000.5	997.2	1006.7	1007.5	1003.6	1000.0	1008.6
1010.2	1008.8	1009.3	1012.4	1008.2	999.4	1003.2	1005.9	1010.4	1015.1	1008.3	1012.1	1004.5	1006.6	1009.0	1009.6	1013.1	1009.5
1016.9	1009.5	1009.0	1014.6	1009.5	1013.6	1012.2	1017.9	1014.1	1009.5	1012.7	1010.8	1007.4	1004.4	1005.9	1012.8	1010.6	1011.6
1013.3	1018.8	1017.7	1012.6	1006.3	1014.3	1016.1	1016.1	1011.2	1013.9	1014.0	1014.6	1016.8	1015.9	1008.7	1010.1	1008.7	1015.1

18	19	20	中旬	21	22	23	24	25	26	27	28	29	30	31	下旬	月
1022.9	1028.3	1026.1	1025.7	1018.8	1009.8	1010.5	1016.6	1020.2	1021.5	1021.4	1023.1	1018.8	1023.9	1020.9	1020.6	1023.7
1022.8	1031.3	1028.6	1026.3	1033.1	1034.4	1025.7	1028.0	1030.5	1029.7	1025.5	1027.5	1027.7			1029.1	1024.6
1019.1	1022.7	1029.5	1020.0	1023.2	1009.3	1020.1	1027.3	1021.6	1015.9	1023.6	1023.5	1020.8	1021.4	1024.5	1021.0	1021.5
998.9	1002.2	1004.6		1003.7	1002.4	1002.6	1003.1	1009.3	1012.0	1011.3	1009.2	998.4	999.9		1005.2	
1007.0	1006.5	1002.7	1005.8	998.8	996.8	999.2	1010.2	1008.2	1009.5	1006.6	1007.8	1007.9	1012.1	1010.7	1006.2	
1005.1	1004.5	1003.2	1001.5	1004.3	1005.4	1001.9	997.1	998.6	1001.0	1001.8	1003.2	1001.5	991.5		1000.6	1001.4
1002.2	1003.7	1000.5	1002.9	999.3	999.8	998.8	1000.2	1001.8	1001.0	1001.1	1003.3	1005.8	1004.6	1003.5	1001.7	1002.2
1001.9	1000.0	999.8	1000.3	998.5	997.5	998.6	1001.8	1004.8	1005.2	1003.0	998.8	1000.2	1002.8	1003.2	1001.3	
1013.1	1011.1	1008.6	1005.7	1010.5	1011.6	1010.4	1006.4	998.2	999.3	1001.6	1005.5	1011.1	1010.8		1006.5	1005.6
1009.1	1015.3	1015.3	1010.4	1010.5	1012.6	1015.7	1010.7	1006.4	1012.1	1013.2	1009.6	1008.5	1010.4	1015.2	1011.4	1010.0
1005.4	1015.1	1014.3	1009.8	1016.2	1016.5	1010.1	1004.8	1005.6	1002.5	1001.9	1006.7	1010.9	1013.1		1008.8	1010.4
1017.8	1015.1	1012.7	1013.6	1011.9	1018.1	1019.4	1012.4	1011.6	1014.6	1012.3	1014.5	1020.2	1020.1	1021.1	1016.0	1014.5