

◎統計と資料

三朝温泉地の気候について (第13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13報として, ひきつづき1989年1月1日から1989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。

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On climatology in Misasa spa (thirteenth report)

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Climatological data of the last 12 months (1989. 1. 1—1989. 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). (1989)

1	2	3	4	5	6	7	8	9	10	上旬	11	12	13	14	15	16	17			
January																				
5.4	0.4	5.2	5.3	2.0	-3.3	6.3	11.9	10.0	7.2	5.0	3.6	6.3	1.3	3.3	1.2	-1.1	1.1			
February																				
4.6	-0.6	0.9	1.3	0.5	1.3	1.9	4.9	7.9	0.7	2.3	5.0	0.8	1.7	1.4	3.2	8.1	8.4			
March																				
8.5	5.3	15.2	14.3	5.9	3.3	4.5	3.6	1.4	3.4	6.5	6.5	8.7	11.3	10.3	7.3	6.1	6.0			
April																				
16.4	10.8	17.7	11.9	9.4	10.8	15.4	13.5	13.4	15.1	13.4	6.3	9.4	13.2	13.4	14.4	18.0	14.1			
May																				
14.7	15.4	23.0	19.1	22.9	17.9	14.8	18.5	22.0	19.7	18.8	14.5	15.7	16.1	18.1	13.9	19.5	15.4			
June																				
24.4	21.1	23.6	25.7	22.0	24.2	23.5	20.8	17.0	16.7	21.9	16.7	18.0	23.4	24.4	23.9	20.2	21.7			
July																				
18.7	18.6	18.9	17.8	19.4	19.1	23.1	26.5	24.2	21.4	20.8	23.6	22.2	21.5	21.5	26.3	22.8	27.1			
August																				
24.3	25.2	24.2	27.1	23.9	24.0	24.8	26.4	27.3	26.6	25.4	24.6	26.4	27.4	23.5	23.7	21.3	24.7			
September																				
23.3	20.1	20.5	21.9	21.4	19.8	22.8	24.9	26.3	26.0	22.7	25.3	25.0	21.9	26.5	25.5	22.6	25.4			
October																				
16.2	16.1	17.6	16.4	15.9	17.9	17.3	12.7	12.0	13.0	15.5	14.5	17.7	17.5	16.8	15.6	14.6	10.3			
November																				
14.3	12.2	8.2	14.7	13.1	20.7	17.4	15.6	17.0	11.8	14.5	10.8	11.7	14.3	7.7	8.3	10.0	10.9			
December																				
4.4	7.3	7.3	8.5	6.8	7.4	8.3	6.2	4.6	2.2	6.3	8.7	7.7	4.6	6.4	3.8	5.2	3.8			

18	19	20	中旬	21	22	23	24	25	26	27	28	29	30	31	下旬	月
1.6	13.3	14.7	4.53	6.1	6.2	3.3	5.4	1.2	4.5	2.7	0.0	-0.2	-0.2	1.2	2.75	4.11
6.2	3.9	3.6	4.23	6.5	4.6	3.5	4.9	6.7	4.9	-0.6	12.6				5.39	3.99
8.2	4.1	4.8	7.33	6.4	5.8	6.6	8.9	8.5	7.6	6.3	6.3	6.9	10.6	12.9	7.89	7.25
21.1	16.1	19.0	14.5	17.2	21.4	17.3	12.3	12.4	14.3	18.6	11.7	12.2	18.0		15.5	14.5
15.9	20.4	21.6	17.1	20.9	20.7	17.2	22.4	19.6	12.5	21.3	19.9	19.1	16.6	23.5	19.4	18.4
20.8	18.7	20.7	20.9	20.4	20.8	22.2	23.2	21.2	25.1	23.7	18.9	23.6	20.5		22.0	21.6
27.4	30.7	29.9	25.3	29.4	28.8	28.5	29.6	29.7	28.4	29.5	30.0	27.8		28.4		
25.7	25.8	28.7	25.2	29.8	29.8	29.9	23.9	26.4	25.7	22.1	24.0	24.6	25.6	25.8	26.1	25.6
27.4	20.4	20.4	24.0	18.7	18.8	19.0	19.2	20.0	17.6	22.8	19.3	17.6	16.8		19.0	21.9
11.2	12.6	14.0	14.5	11.0	11.0	12.6	9.3	10.9	14.2	15.2			9.7	17.3		
9.1	5.0	7.3	9.5	5.7	6.3	8.8	7.9	6.8	5.6	6.0	8.1	3.1	5.5		6.4	10.1
6.7	2.9	0.6	5.0	6.8	4.2	6.0	4.6	3.4	7.2	4.1	1.8	3.7	2.4	1.4	4.1	5.1

Table 2. Daily Maximum Temperature (°C). (1989)

1	2	3	4	5	6	7	8	9	10	上旬	11	12	13	14	15	16	17			
January																				
9.2	13.0	9.0	6.2	9.0	11.4	13.3	15.2	12.4	12.8	11.1	8.0	8.8	6.7	7.9	5.0	11.2	13.0			
February																				
6.2	5.6	2.3	5.5	10.2	12.0	10.9	7.4	8.8	4.7	7.4	7.3	5.0	7.7	8.4	13.8	15.4	10.2			
March																				
16.5	15.9	17.8	18.2	8.0	11.9	8.1	5.2	8.2	12.5	12.2	12.5	17.1	14.9	16.6	12.2	12.7	8.7			
April																				
21.8	22.6	22.8	15.6	18.3	18.9	24.4	16.7	17.9	20.4	19.9	12.4	14.5	20.0	22.4	19.2	20.6	20.8			
May																				
18.6	21.6	26.4	27.2	28.8	19.1	21.2	25.1	23.8	24.3	23.6	16.7	17.1	18.1	21.0	21.2	24.5	16.9			
June																				
30.1	25.6	27.9	32.9	24.9	27.7	29.9	22.1	20.1	17.3	25.8	21.0	24.0	28.6	26.3	26.1	22.8	26.4			
July																				
23.2	20.5	21.5	20.6	21.6	24.3	28.1	32.8	28.0	23.6	24.4	27.9	27.6	22.6	25.0	30.1	26.5	31.8			
August																				
26.8	27.3	33.1	28.9	24.5	24.7	27.3	30.6	31.3	28.5	28.3	30.4	33.9	32.5	28.7	25.8	25.0	29.4			
September																				
26.8	25.1	26.5	27.2	23.6	23.4	24.8	30.6	31.3	29.0	26.8	28.6	30.6	27.8	30.6	32.0	24.4	32.3			
October																				
23.6	24.6	20.5	22.0	22.1	23.1	20.5	17.8	20.3	19.8	21.4	17.5	23.4	23.8	20.6	22.8	20.9	13.2			
November																				
16.5	18.2	21.4	23.3	24.1	24.4	21.5	22.6	18.1	19.4	21.0	18.8	19.9	16.4	10.9	10.4	13.6	13.8			
December																				
	12.6	18.0	21.5	18.2	9.7	14.7	7.3	6.1	12.4		11.9	8.3	10.3	10.4	9.3	14.7	14.1			

18	19	20	中旬	21	22	23	24	25	26	27	28	29	30	31	下旬	月
9.2	17.1	17.8	10.5	10.6	7.8	7.2	8.1	10.4	9.0	7.3	1.7	5.8	10.8	12.9	8.3	9.9
7.3	8.3	15.7	9.9	7.9	5.8	8.6	8.0	8.4	7.1	14.3	16.1				9.5	8.9
9.7	11.2	10.1	12.5	10.6	7.7	9.9	13.3	10.0	11.5	15.8	8.7	14.8	18.7	19.1	12.7	12.5
22.6	24.3	26.2	20.3	27.3	24.0	18.2	13.8	16.3	22.4	25.0	13.7	20.0	21.2		20.2	20.1
21.7	20.7	24.3	20.2	25.6	27.0	23.0	27.0	23.2	19.0	25.8	23.5	22.4	22.1	28.8	24.3	22.7
23.4	21.2	20.9	24.1	23.1	27.5	24.8	28.8	26.8	29.2	29.6	22.2	26.6	24.2		26.3	25.4
32.0	34.8	35.1	29.3	33.2	32.4	34.7	34.1	33.1	30.1	34.7	32.3	33.4	35.4	33.1	33.3	29.1
29.2	30.9	35.0	30.1	34.1	34.7	34.4	29.1	28.9	31.0	22.2	28.8	32.8	31.3	31.0	30.7	29.7
28.5	21.8	23.6	28.0	23.7	22.2	22.6	26.5	29.1	23.3	26.7	26.1	23.1	23.4		24.6	26.5
18.6	17.9	18.6	19.7	19.6	20.8	16.4	19.7	24.3	24.7	22.3	22.3	18.6	22.0	22.7	21.2	20.8
16.6	10.6	13.4	14.4	16.7	15.9	14.7	14.1	16.1	16.7	16.7	14.3	5.6	7.8		13.8	16.4
11.5	3.9	7.5	10.2	12.5	13.5	11.2	13.1	13.7	12.2	6.4	8.7	9.6	8.6			

Table 3. Daily Minimum Temperature (°C). (1989)

1	2	3	4	5	6	7	8	9	10	上旬	11	12	13	14	15	16	17
January																	
3.2	-0.9	0.8	2.3	-2.6	-4.2	3.4	10.4	8.8	3.9	2.5	1.5	3.6	0.6	1.3	-1.8	-3.4	-1.0
February																	
0.8	-1.0	-0.4	0.0	-1.4	-1.7	0.3	0.9	4.7	0.6	0.3	-0.2	0.4	-0.2	-1.0	-2.4	6.3	6.9
March																	
2.1	-1.2	12.5	6.1	0.5	-1.1	0.2	-0.1	-2.1	-2.2	1.5	-0.7	-0.2	7.6	3.6	2.2	0.6	3.4
April																	
3.7	0.5	8.2	3.0	-0.2	0.3	3.6	10.0	5.6	8.2	4.3	4.0	3.2	5.1	2.8	11.9	9.4	6.1
May																	
11.4	10.1	9.5	7.3	13.1	14.5	10.9	8.1	12.6	10.8	10.8	13.9	13.6	13.2	9.6	7.8	7.5	13.7
June																	
10.2	11.1	11.3	13.3	17.9	13.8	12.0	12.9	15.3	14.6	13.2	10.0	6.9	12.1	16.8	19.0	18.2	16.4
July																	
17.8	17.6	17.5	15.8	15.7	17.2	15.5	16.5	22.3	20.5	17.6	19.3	20.9	20.0	19.2	18.9	21.0	19.8
August																	
22.8	22.4	22.6	20.6	20.2	22.1	22.4	20.2	21.9	20.2	21.5	18.0	19.3	21.8	21.3	19.4	21.1	19.7
September																	
20.3	19.8	19.9	16.1	17.7	18.0	20.4	21.1	21.0	21.8	19.6	20.8	19.7	21.0	23.4	22.8	20.3	18.8
October																	
11.2	10.0	13.6	14.0	10.8	15.3	11.0	7.9	5.5	6.2	10.5	13.8	13.7	13.5	11.6	10.6	12.1	8.7
November																	
11.5	5.2	1.9	10.1	8.0	19.0	15.4	14.1	12.8	8.8	10.7	8.0	7.6	10.3	6.9	7.0	7.2	6.4
December																	
	-0.9	5.2	6.0	4.3	3.4	3.7	1.2	1.4	0.8		1.2	4.7	3.2	1.4	1.5	1.2	2.1

18	19	20	中旬	21	22	23	24	25	26	27	28	29	30	31	下旬	月
-1.3	9.2	7.5	1.6	5.3	2.8	2.7	0.9	-0.9	0.7	-0.9	-1.1	-1.3	-2.3	-1.9	0.4	1.5
3.8	-1.3	-1.9	1.0	5.7	1.8	1.3	3.7	5.4	-0.5	-2.4	4.0				2.3	1.1
-0.3	-1.7	-1.9	1.3	3.6	3.7	2.8	4.0	5.3	0.8	0.3	2.7	-0.4	1.3	8.5	2.9	1.9
7.3	7.7	9.3	6.6	5.6	13.5	13.7	10.2	4.6	3.9	6.7	2.7	0.1	3.2		6.4	5.8
12.4	11.5	15.0	11.8	12.0	9.2	14.0	12.7	15.5	8.8	7.7	10.7	10.2	8.9	7.1	10.6	11.0
15.3	13.9	12.3	14.1	12.8	13.6	17.5	19.9	20.4	18.9	17.8	17.6	14.8	16.6		17.0	14.8
19.9	22.0	22.6	20.3	22.4	22.1	19.8	21.6	25.4	27.3	25.2	26.7	22.4	22.1	20.7	23.2	20.5
20.2	19.2	21.2	20.1	22.7	23.7	22.7	22.0	21.8	21.5	20.3	19.5	17.8	21.7	20.4	21.3	21.0
21.7	16.5	15.2	20.0	13.5	16.7	13.7	13.3	13.5	13.1	13.6	15.6	14.0	11.5		13.8	17.8
8.0	8.1	7.0	10.7	4.9	5.2	5.6	3.4	4.2	6.1	11.2	12.3	6.5	4.3	7.8	6.5	9.1
4.5	3.7	2.6	6.4	2.5	2.4	7.3	3.8	3.1	2.5	2.5	2.2	1.9	2.3		3.0	6.7
3.1	1.8	-0.9	1.9	4.1	1.2	0.9	0.5	2.7	3.5	1.3	0.5	1.4	0.7			

Table 4. Daily Amount of Precipitation (mm). (1989)

1	2	3	4	5	6	7	8	9	10	上旬	11	12	13	14	15	16	17
January																	
0.5	0.0	0.0	0.5	0.0	0.0	5.5	12.0	0.0	0.0	18.5	21.5	32.5	7.0	25.0	1.5	0.0	0.0
February																	
1.5	19.0	13.5	2.0	0.0	0.5	0.0	11.5	34.5	32.5	115.0	0.0	4.0	3.5	0.0	0.0	11.0	23.5
March																	
0.0	0.0	0.0	41.5	8.0	0.5	28.0	23.0	0.5	0.0	101.5	0.0	0.0	5.5	0.0	0.5	3.5	4.5
April																	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	0.0	4.5	18.0	12.5	2.5	0.0	0.5	5.0	5.0	0.5
May																	
2.5	0.0	0.0	0.0	0.0	7.5	4.5	0.0	0.0	2.5	17.0	29.5	0.0	0.0	1.5	6.5	0.0	7.0
June																	
0.0	0.0	0.0	0.0	1.0	0.0	0.0	10.5	16.5	23.5	51.5	1.0	0.0	0.0	0.0	2.0	18.0	0.0
July																	
0.0	2.0	9.5	0.0	0.0	0.0	0.0	0.0	24.5	5.0	41.0	6.0	52.0	24.0	0.0	1.5	13.0	0.0
August																	
3.0	17.0	0.0	0.0	1.5	5.0	6.0	0.0	0.0	0.0	32.5	0.0	0.0	8.5	32.0	8.0	9.0	0.0
September																	
2.0	2.5	21.5	36.5	25.5	14.0	10.5	7.5	6.5	4.0	130.5	7.5	4.5	4.0	5.0	6.5	3.0	2.0
October																	
3.5	3.5	3.5	3.0	29.5	17.0	7.5	8.0	6.5	4.5	86.5	4.5	5.5	4.0	4.0	3.5	3.0	4.5
November																	
1.0	2.5	2.0	1.5	1.5	1.5	2.0	2.5	6.5	16.5	37.5	16.0	14.0	39.0	18.0	16.0	1.0	0.0
December																	
	0.0	0.0	0.0	0.0	0.5	5.0	38.0	7.5	0.5		0.0	9.5	0.5	8.0	8.0	0.0	0.0

18	19	20	中旬	21	22	23	24	25	26	27	28	29	30	31	下旬	月
7.0	9.5	13.5	117.5	2.0	0.0	23.5	4.0	0.0	1.5	10.5	16.0	0.5	0.0	0.0	58.0	194.0
26.0	0.0	0.0	68.0	2.5	2.0	1.5	13.5	46.0	18.5	0.0	0.0				84.0	267.0
0.0	0.0	0.0	14.0	4.5	6.5	0.0	5.5	8.0	0.0	0.0	12.5	0.0	0.0	0.0	37.0	152.5
0.0	0.0	0.0	26.0	0.0	0.0	0.5	4.5	0.0	0.0	0.5	0.5	0.0	0.5		6.5	50.5
3.0	21.0	0.0	68.5	1.5	0.0	1.0	0.0	9.0	15.0	0.0	0.0	0.0	0.0	0.0	26.5	112.0
25.0	1.0	0.0	47.0	0.0	0.0	0.0	6.5	0.0	0.0	15.5	2.5	0.0	0.0		24.5	123.0
0.0	0.0	0.0	96.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.0	139.5
0.0	0.0	0.0	57.5	0.0	0.0	2.5	7.0	0.5	0.5	59.0	28.0	8.5	4.0	2.0	112.0	202.0
1.0	7.5	17.0	58.0	13.0	9.5	9.5	8.0	6.5	5.5	4.0	5.0	4.5	3.5		69.0	257.5
7.0	6.0	6.0	48.0	5.5	4.5	4.0	4.0	3.0	3.0	2.0	2.0	1.5	1.0	1.0	31.5	166.0
0.0	1.0	0.0	105.0	0.0	0.0	3.0	3.0	0.0	0.0	0.0	2.5	0.0	0.0		8.5	151.0
20.0	1.0	1.5	48.5	1.0	0.0	6.0	0.5	0.0	3.0	0.5	0.0	0.0	5.0	7.5	23.5	

Table 5. Wind Speed at 9 AM. (1989)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
January															
0.6	1.3	0.0	1.5	0.2	0.3	1.5	0.0	0.1	0.5	1.0	1.4	0.6	0.1	0.0	0.1
February															
0.6	0.0	0.4	0.0	0.0	0.6	0.1	0.0	0.0	0.0	0.5	0.0	0.2	0.0	1.4	0.6
March															
0.7	1.2	3.7	2.8	1.7	0.3	0.2	1.8	0.1	0.2	0.9	1.7	0.0	0.7	0.2	1.0
April															
4.4	0.1	0.0	3.6	0.3	1.5	0.6	0.0	0.6	0.5	1.4	0.6	1.8	0.2	1.4	5.3
May															
0.7	0.8	2.8	0.1	1.2	1.7	1.3	0.1	1.4	0.6	0.9	0.0	0.2	6.5	0.2	0.8
June															
0.3	0.5	0.4	0.2	1.9	1.1	0.5	1.2	0.1	1.4	1.1	1.5	1.5	3.0	4.2	1.1
July															
0.5	0.2	0.2	0.5	0.8	0.6	2.2	1.2	0.7	0.6	0.1	0.8	1.1	1.0	0.9	1.1
August															
1.1	0.7	0.2	1.6	0.8	0.3	0.1	0.6	1.0	0.7	0.5	0.1	0.7	0.0	1.3	1.0
September															
1.2	1.0	0.3	0.7	0.2	0.2	0.2	1.3	0.2	0.2	1.7	0.6	2.0	0.5	1.8	0.8
October															
0.1	0.0	1.4	0.3	0.2	0.6	1.8	1.5	0.3	0.7	0.2	0.8	0.5	0.3	0.5	1.3
November															
4.4	0.5	0.9	0.2	0.4	0.9	0.8	1.3	0.8	0.1	0.4	1.1	0.0	0.7	0.1	1.6
December															
0.0	1.4	0.3	0.9	0.1	1.7	2.3	2.4	1.7	0.1	1.6	0.0	0.1	1.1	0.2	0.5

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0.0	1.2	0.1	0.3	0.0	1.5	0.2	0.2	0.5	1.3	3.5	0.0	0.0	0.2	0.8
2.2	1.8	0.0	0.3	0.3	1.4	0.1	0.0	0.0	2.1	0.0	1.4			
2.0	1.5	0.0	0.6	0.9	0.9	0.6	1.3	1.0	0.8	0.0	0.8	0.0	0.4	2.0
1.3	2.1	1.0	0.4	0.5	2.0	1.5	0.7	2.4	0.5	1.6	3.1	0.3	0.3	
0.0	1.3	3.1	0.6	0.9	0.3	0.0	1.1	0.6	0.1	0.1	0.8	0.6	2.2	0.6
1.0	1.5	0.8	0.8	1.3	0.0	0.5	0.2	2.2	1.1	0.6	0.0	0.9	0.1	
1.8	0.5	2.0	2.0	2.9	0.8	1.8	2.2	3.3	1.8	1.3	2.2	1.4		1.6
0.4	1.9	1.7	1.6	2.0	1.5	1.4	0.2	0.5	0.6	3.9	1.4	0.2	2.5	2.0
1.0	1.2	0.8	1.7	1.1	1.5	2.9	0.6	1.1	0.9	1.0	0.2	0.0	0.3	
2.5	0.1	1.2	0.7	0.5	2.3	0.0	0.4	0.7	0.8	0.2			0.5	1.6
0.7	0.0	3.7	1.2	0.4	0.1	0.2	0.0	0.0	0.2	1.1	2.6	0.3	2.6	
0.2	0.6	0.2	1.1	0.1	0.4	0.4	0.0	0.0	0.2	0.6	0.4	0.3	0.7	1.1

Table 6. Wind Direction at 9 AM. (1989)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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January

E	NE	CALM	ENE	CALM	E	NE	CALM	CALM	WSW	ENE	ENE	ENE	CALM	CALM	CALM
---	----	------	-----	------	---	----	------	------	-----	-----	-----	-----	------	------	------

February

NE	CALM	ESE	CALM	CALM	ENE	CALM	CALM	CALM	CALM	SSE	CALM	CALM	CALM	SE	E
----	------	-----	------	------	-----	------	------	------	------	-----	------	------	------	----	---

March

SSE	ESE	SSW	W	NE	CALM	CALM	NNE	CALM	CALM	ENE	ENE	CALM	ENE	CALM	E
-----	-----	-----	---	----	------	------	-----	------	------	-----	-----	------	-----	------	---

April

WSW	CALM	CALM	ENE	CALM	SSW	E	CALM	SSE	NE	WSW	S	SW	CALM	WSW	WSW
-----	------	------	-----	------	-----	---	------	-----	----	-----	---	----	------	-----	-----

May

SW	SW	WSW	CALM	SSW	SW	NNE	CALM	W	SW	WSW	CALM	CALM	WSW	NW	NW
----	----	-----	------	-----	----	-----	------	---	----	-----	------	------	-----	----	----

June

WNW	CALM	CALM	CALM	SSW	WSW	ENE	NE	CALM	NE	NNE	SW	SSW	SE	SE	NE
-----	------	------	------	-----	-----	-----	----	------	----	-----	----	-----	----	----	----

July

NE	CALM	CALM	CALM	WSW	SW	SW	WSW	NNW	CALM	CALM	SW	NNE	WSW	SW	ENE
----	------	------	------	-----	----	----	-----	-----	------	------	----	-----	-----	----	-----

August

WSW	SW	CALM	SW	WNW	CALM	CALM	SW	WSW	SSW	SSW	CALM	WNW	CALM	WSW	WSW
-----	----	------	----	-----	------	------	----	-----	-----	-----	------	-----	------	-----	-----

September

NE	E	ENE	SSE	WSW	CALM	CALM	ESE	CALM	CALM	SW	SSE	WSW	CALM	NNE	N
----	---	-----	-----	-----	------	------	-----	------	------	----	-----	-----	------	-----	---

October

CALM	CALM	WSW	ENE	CALM	ENE	ENE	NE	CALM	E	W	SW	ENE	CALM	SSE	NE
------	------	-----	-----	------	-----	-----	----	------	---	---	----	-----	------	-----	----

November

WSW	ESE	E	CALM	E	E	NW	WSW	ENE	CALM	SSE	E	CALM	NE	CALM	WSW
-----	-----	---	------	---	---	----	-----	-----	------	-----	---	------	----	------	-----

December

ENE	NE	CALM	E	CALM	WSW	E	SW	WSW	CALM	ENE	CALM	CALM	ESE	CALM	WSW
-----	----	------	---	------	-----	---	----	-----	------	-----	------	------	-----	------	-----

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CALM	NE	CALM	SSW	CALM	ENE	CALM	CALM	ENE	NE	WSW	CALM	CALM	E	ENE
------	----	------	-----	------	-----	------	------	-----	----	-----	------	------	---	-----

NE	NE	CALM	CALM	ESE	NE	CALM	CALM	CALM	E	CALM	WNW			
----	----	------	------	-----	----	------	------	------	---	------	-----	--	--	--

SW	SW	CALM	SSW	WSW	SW	ENE	W	NNW	S	CALM	ESE	CALM	CALM	SSW
----	----	------	-----	-----	----	-----	---	-----	---	------	-----	------	------	-----

SE	SW	WSW	CALM	SW	SSE	SW	NE	E	E	NNW	ENE	SW	CALM	
----	----	-----	------	----	-----	----	----	---	---	-----	-----	----	------	--

CALM	ENE	SE	SW	SW	NNW	CALM	WSW	SW	CALM	CALM	NNW	CALM	ENE	WNW
------	-----	----	----	----	-----	------	-----	----	------	------	-----	------	-----	-----

SE	WSW	WSW	NE	SW	CALM	W	CALM	N	N	NNE	CALM	WSW	CALM	
----	-----	-----	----	----	------	---	------	---	---	-----	------	-----	------	--

E	WSW	SSE	SW	WSW	W	W	S	S	W	SW	SSW	SSE		SW
---	-----	-----	----	-----	---	---	---	---	---	----	-----	-----	--	----

N	ENE	SW	SSE	E	ESE	SSW	CALM	CALM	E	NE	ESE	CALM	SSE	WNW
---	-----	----	-----	---	-----	-----	------	------	---	----	-----	------	-----	-----

WSW	SW	WSW	ENE	SW	NW	ENE	S	NE	SW	W	CALM	CALM	CALM	
-----	----	-----	-----	----	----	-----	---	----	----	---	------	------	------	--

WSW	CALM	NE	WSW	SSW	CALM	CALM	SE	ENE	SE	CALM			SE	SW
-----	------	----	-----	-----	------	------	----	-----	----	------	--	--	----	----

SSW	CALM	SW	NE	CALM	CALM	CALM	CALM	CALM	ESE	ENE	SW	N	WNW	
-----	------	----	----	------	------	------	------	------	-----	-----	----	---	-----	--

E	SW	NNE	NE	CALM	NE	CALM	CALM	CALM	CALM	W	ENE	NNE	NE	N
---	----	-----	----	------	----	------	------	------	------	---	-----	-----	----	---

Table 7. Daily Weather (1989)

: ○ 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, △ Hai

20	21	22	23	24	25	26	27	28	29	30	31	☉	⊕	☉	⊕	●	*	△
●	☉	☉	●	☉	○	☉	☉	*	☉	○	○	9	1	12	0	7	2	0
○	●	●	☉	●	●	●	○	⊕				6	0	6	2	10	4	0
○	☉	●	☉	☉	☉	○	☉	●	○	⊕	☉	12	1	13	1	4	0	0
○	○	○	☉	●	○	○	⊕	○	○	○		21	0	4	1	4	0	0
☉	☉	⊕	☉	○	☉	●	○	○	⊕	○	○	13	0	8	4	6	0	0
○	☉	⊕	☉	●	☉	○	☉	●	○	☉		10	0	10	4	6	0	0
○	○	○	○	○	○	☉	○	☉	○	○	○	15	0	12	0	4	0	0
○	○	○	○	○	○	☉	●	○	○	○	☉	14	0	12	3	2	0	0
☉	☉	●	●	○	○	○	○	●	☉	☉		9	0	11	0	10	0	0
☉	○	○	⊕	○	⊕	⊕	○	○	☉	⊕	○	15	3	7	1	5	0	0
☉	○	☉	☉	⊕	○	○	○	●	●	☉		11	0	9	2	7	0	1
○	⊕	☉	☉	☉	○	☉	☉	○	☉	○	*	10	1	14	1	2	2	1

Table 8. Daily Humidity (%) at 9 AM (1989)

1	2	3	4	5	6	7	8	9	10	上旬	11	12	13	14	15	16	17	
January																		
88.0	93.3	89.3	57.0	83.8	92.4	61.0	91.8	90.5	92.9	84.0	90.8	84.4	91.9	86.4	90.7	93.0	93.3	
February																		
79.4	91.2	91.0	93.3	93.2	90.5	90.6	89.8	90.5	87.6	89.7	55.5	91.4	89.0	92.9	77.3	93.0	85.6	
March																		
76.4	58.3	54.4	80.1	63.1	80.2	81.8	59.9	79.3	78.8	71.2	67.5	58.3	78.5	82.8	80.9	65.2	56.8	
April																		
28.3	51.3	51.4	43.7	47.8	46.2	46.0	88.6	69.3	67.6	54.0	85.1	70.9	57.4	45.0	87.4	56.4	47.7	
May																		
82.9	69.8	24.4	52.6	42.4	77.0	87.0	60.0	48.0	66.3	61.0	89.8	86.1	73.4	25.3	67.7	28.2	88.7	
June																		
31.0	47.7	44.4	43.3	57.6	48.1	42.9	57.5	88.5	88.2	54.9	65.7	55.1	42.8	48.7	56.7	88.3	66.6	
July																		
73.6	88.6	87.7	84.7	66.1	76.5	66.9	57.1	85.6	88.0	77.5	76.8	88.4	87.5	75.4	64.2	86.0	60.3	
August																		
86.3	82.6	86.7	71.8	76.7	88.4	82.8	76.7	70.9	68.0	79.1	60.8	60.9	61.5	87.9	78.6	87.6	72.9	
September																		
74.9	89.2	88.9	69.0	73.2	89.4	88.1	79.8	73.3	77.6	80.3	78.8	75.9	88.4	83.3	84.9	82.3	75.9	
October																		
87.5	83.2	85.0	89.1	83.9	81.2	73.8	83.6	82.7	84.6	83.5	89.5	79.4	81.2	89.7	84.2	86.4	86.6	
November																		
69.7	78.0	75.4	69.5	80.0	64.1	89.1	90.7	89.7	82.9	78.9	88.0	84.4	90.2	79.1	89.1	89.9	80.6	
December																		
75.0	60.3	86.7	79.1	92.4	92.1	71.6	81.0	69.6	91.1	79.9	71.5	91.2	86.8	88.7	90.9	84.6	90.5	

18	19	20	中旬	21	22	23	24	25	26	27	28	29	30	31	下旬	月
78.6	80.6	79.5	86.9	92.2	55.2	91.7	75.2	93.4	77.4	54.6	90.3	91.3	91.4	89.9	82.1	84.3
85.5	88.1	87.9	84.6	90.4	74.3	73.1	91.1	91.8	66.0	92.7	56.4				79.5	84.6
42.9	71.8	75.5	68.0	79.0	86.8	59.6	61.9	69.0	48.0	79.4	83.5	72.3	53.0	54.3	67.9	69.0
23.5	65.3	49.5	58.8	38.7	45.9	77.2	88.5	55.2	49.1	44.4	42.3	25.9	37.3		50.5	54.4
85.7	51.9	66.3	66.3	68.8	60.0	76.8	59.6	67.8	86.8	46.3	64.8	55.7	49.5	36.2	61.1	62.8
75.4	71.8	50.4	62.2	52.0	63.1	70.3	86.2	75.7	56.8	71.3	89.5	55.8	72.4		69.3	62.1
62.1	53.8	56.0	71.1	58.1	55.0	51.7	49.7	54.5	60.0	60.9	51.2	63.8		56.7		
63.2	61.9	55.8	69.1	54.0	51.8	52.9	85.7	70.5	68.9	87.6	79.3	73.1	65.7	56.3	67.8	72.0
61.3	87.3	71.9	79.0	65.7	85.8	82.5	74.6	78.0	73.6	55.5	87.2	80.5	74.2		75.8	78.4
79.0	78.6	89.6	84.4	78.9	89.0	88.0	87.6	70.6	81.8	84.2			77.8	52.4		
92.5	68.9	70.6	83.3	90.2	92.0	84.1	91.6	90.3	92.5	89.1	72.5	78.4	48.7		82.9	81.7
91.3	65.6	91.5	85.3	91.2	92.3	89.2	88.4	91.6	84.4	80.3	87.4	86.2	91.7	87.1	88.2	84.5

Table 9. Daily Duration of Sunshine (hours). (1989)

1	2	3	4	5	6	7	8	9	10	上旬	11	12	13	14	15	16	17
January																	
0.7	7.9	0.0	0.0	5.5	5.5	0.0	0.0	0.5	5.2	25.3	0.0	0.0	1.7	0.6	1.1	5.6	8.4
February																	
0.2	5.0	0.5	4.0	7.0	5.8	7.4	0.0	0.0	0.0	29.9	4.2	1.6	6.8	2.6	7.0	0.0	0.0
March																	
0.2	9.3	5.2	0.0	4.9	6.3	2.4	3.0	7.1	10.4	48.8	5.0	7.5	1.3	8.9	4.0	7.8	3.9
April																	
9.0	9.9	9.2	10.7	11.2	10.9	10.2	2.3	9.5	7.1	90.0	3.1	8.3	11.4	8.9	0.9	3.3	11.2
May																	
5.8	9.1	11.2	11.4	8.9	1.5	7.5	10.6	7.4	7.2	80.6	0.0	0.2	4.1	10.5	10.4	9.1	0.0
June																	
12.1	12.0	12.1	11.1	3.5	11.1	10.8	7.7	0.6	0.3	81.3	10.1	12.3	10.9	9.4	9.7	0.6	10.7
July																	
6.1	0.3	0.8	2.6	4.3	7.1	12.2	11.7	2.5	0.6	48.2	4.2	0.1	3.9	6.0	10.3	4.5	8.5
August																	
3.6	2.5	7.4	8.4	0.7	0.0	3.2	10.5	9.9	7.1	53.3	10.7	11.1	6.2	7.1	2.2	0.5	10.7
September																	
0.0	0.0	6.1	10.0	0.8	0.8	1.1	7.3	7.2	4.6	37.9	6.3	8.4	2.5	3.6	7.2	0.8	9.0
October																	
10.6	8.0	1.6	3.8	8.9	2.7	6.5	4.7	9.2	5.6	61.6	0.5	7.4	6.5	3.5	8.0	0.7	0.0
November																	
0.1	8.6	6.5	7.8	6.6	2.6	0.1	0.9	0.0	7.0	40.2	8.7	4.7	0.0	0.0	0.0	0.3	2.3
December																	
	1.4	7.9	7.9	7.7	0.0	5.1	0.1	0.2	6.8		0.0	0.0	4.8	2.0	0.7	6.2	3.3

18	19	20	中旬	21	22	23	24	25	26	27	28	29	30	31	下旬	月
0.3	0.0	0.1	17.8	3.5	3.7	0.0	1.0	4.7	0.0	3.6	0.4	6.1	9.3	6.9	39.2	82.3
0.0	3.8	6.1	32.1	0.0	0.0	4.8	0.0	0.0	1.6	10.2	3.6				20.2	82.2
7.7	9.8	8.0	63.9	7.3	1.9	7.5	0.6	4.5	10.8	6.1	1.2	10.6	11.0	5.6	67.1	179.8
10.8	9.5	11.0	78.4	11.2	6.6	0.6	0.2	9.8	9.8	6.2	9.2	11.7	7.9		73.2	241.6
8.5	0.0	9.9	52.7	9.8	8.7	8.8	11.0	6.4	5.3	12.0	7.9	11.0	11.3	12.2	104.4	237.7
4.3	3.4	6.6	78.0	10.6	9.1	4.2	3.3	4.4	10.4	5.7	1.6	10.6	9.3		69.2	228.5
11.3	11.3	11.2	71.3	9.6	7.7	11.9	12.1	10.8	0.6	7.5	8.3	8.0	12.0	10.3	98.8	218.3
10.2	10.0	11.4	80.1	10.2	11.5	8.2	5.7	5.9	6.3	0.0	7.5	10.9	5.7	9.9	81.8	215.2
2.2	0.0	4.4	44.4	7.5	0.8	5.4	10.5	7.7	9.8	8.1	1.9	6.2	9.6		67.5	149.8
9.3	1.2	6.1	43.2	9.0	10.2	0.8	9.7	10.1	9.4	7.4	2.4	4.8	9.2	3.8	76.8	181.6
4.2	4.0	4.2	28.4	8.5	3.4	1.0	3.3	4.6	8.3	6.2	0.8	0.6	4.4		41.1	109.7
2.1	0.0	0.6	19.7	3.6	2.1	5.3	2.6	5.9	1.1	2.5	3.5	3.4	4.8	0.0	34.8	

Table 10. Daily Atmospheric Pressure at 9 AM (mb) (1989)

1	2	3	4	5	6	7	8	9	10	上旬	11	12	13	14	15	16	17
January																	
1016.0	1017.2	1015.1	1019.8	1023.3	1020.7	1015.5	1005.6	1009.3	1012.8	1015.5	1011.4	1012.3	1016.5	1012.8	1018.7	1021.1	1024.1
February																	
1006.2	1009.1	1012.7	1018.1	1020.1	1015.8	1018.3	1010.9	1003.0	1001.8	1011.6	1010.1	1011.9	1012.3	1019.6	1018.9	1011.5	1010.9
March																	
1018.8	1022.8	1013.5	999.5	1005.0	1007.1	1006.5	1013.2	1015.7	1017.9	1012.0	1015.5	1013.2	1006.4	1001.9	1006.1	1012.0	1012.4
April																	
1003.7	1006.4	1000.5	1008.2	1007.2	1010.5	1009.5	1006.6	1008.5	1005.3	1006.6	1009.1	1013.7	1015.5	1011.6	1002.2	993.5	1006.3
May																	
1005.1	1007.1	1005.1	1008.6	1007.9	1005.7	1002.3	1002.6	1002.0	1008.1	1005.5	1001.6	1001.5	1001.3	998.8	1006.6	1009.7	1008.8
June																	
1009.2	1010.2	1010.4	1008.9	1003.3	1001.6	1006.7	1006.9	998.6	1002.9	1005.9	1008.0	1010.7	1006.9	1004.6	997.9	997.6	996.0
July																	
1004.8	1005.6	1005.7	1007.1	1006.6	1004.0	1003.6	1004.5	1001.3	1003.7	1004.7	1003.6	1001.0	1001.7	1007.6	1006.9	1005.3	1004.2
August																	
998.7	998.3	1000.7	1002.2	1000.1	995.7	997.3	1001.4	1001.8	1002.3	999.9	1001.1	999.9	1000.0	1002.1	1002.5	1002.4	1002.7
September																	
1033.3	1001.0	996.4	1000.0	1003.2	1005.3	1006.8	1007.6	1005.4	1004.3	1003.3	1002.1	1001.1	1002.2	1005.6	1007.4	1011.7	1008.5
October																	
1009.5	1011.3	1012.5	1011.2	1010.4	1008.4	1007.1	1007.3	1016.2	1016.0	1011.0	1012.4	1010.7	1009.4	1011.9	1011.4	1005.0	1007.7
November																	
1000.4	1014.2	1015.2	1016.3	1015.3	1012.8	1014.2	1012.0	1007.5	1013.5	1012.1	1016.5	1017.8	1011.1	1018.1	1018.3	1017.2	1012.2
December																	
1017.6	1013.0	1011.0	1006.9	1009.1	1009.4	1005.6	1004.7	1011.1	1020.2	1010.9	1017.9	1018.0	1020.8	1008.6	1014.5	1013.5	1015.7

18	19	20	中旬	21	22	23	24	25	26	27	28	29	30	31	下旬	月
1021.1	1011.1	1001.9	1015.1	1011.5	1016.9	1004.3	1008.9	1016.1	1013.0	1009.3	1015.7	1021.7	1020.7	1015.7	1014.0	1014.9
1008.2	1017.2	1013.9	1013.5	1013.9	1020.2	1023.6	1014.0	1008.5	1014.2	1024.0	1015.7				1016.8	1014.0
1013.4	1012.3	1013.1	1010.6	1013.3	1016.4	1018.5	1008.5	1008.0	1011.7	1004.6	1001.7	1009.1	1014.5	1006.2	1010.2	1010.9
1009.0	1012.7	1010.6	1008.4	1008.9	1005.6	1001.4	1000.8	1008.6	1009.5	1007.5	1017.3	1015.9	1010.9		1008.6	1007.9
1010.9	1012.0	1009.4	1006.1	1005.8	1004.5	1001.0	1003.2	1003.3	1003.0	1004.5	1006.0	1005.9	1009.0	1007.7	1004.9	1005.5
997.9	1002.9	1004.8	1002.7	1007.1	1007.0	1002.3	998.6	1000.9	1004.3	1002.9	997.8	1001.2	1001.6		1002.4	1003.7
1006.1	1008.2	1009.0	1005.4	1009.1	1007.4	1005.7	1003.6	999.6	999.8	1001.6	1000.9	1003.6		1001.3		
1003.2	1004.9	1006.0	1002.5	1007.2	1007.8	1006.9	1007.1	1006.5	1004.1	989.5	999.7	1003.6	997.7	1001.3	1002.9	1001.8
1003.2	1003.3	1006.8	1005.2	1009.4	1003.7	1010.5	1010.8	1007.7	1011.5	1007.5	1005.5	1010.7	1011.3		1008.9	1005.8
1015.1	1010.4	1012.5	1010.7	1015.9	1013.5	1008.6	1014.8	1012.6	1012.3	1012.7			1012.9	1005.9		
1009.1	1010.1	1017.2	1014.8	1020.2	1017.3	1015.5	1017.7	1017.8	1018.7	1014.1	1008.3	1010.7	1014.5		1015.5	1014.1
1020.1	1025.0	1018.7	1017.3	1016.6	1013.9	1012.2	1009.9	1011.1	1008.3	1011.4	1012.8	1008.7	1006.8	1010.3	1011.1	1013.1