

◎統計と資料

三朝温泉地の気候について (第21報)

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我々は1956年以降, 三朝温泉地の気候について観察を行っている。今回は1998年1月1日から1998年12月末日までの1年間の気象観察資料を報告する。機器の故障により, 記録の一部に欠落部分があることをお断りしておく。

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On climatology in Misasa spa (twenty-1st report)

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Climatological data of the last 12 months (1998.1.1.-1998.12.31) 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). (1998)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17		
January																			
4.7	3.5	0.5	7.6	2.2	4.5	2.4	3.5	4.5	0.9	3.4	6.2	3.5	1.6	3.7	4.5	6.9	1.8		
February																			
1.2	-0.9	0.6	1.1	1.2	3.6	1.6	4.6	0.9	3.4	1.7	0.8	13.7	7.9	10.5	4.3	1.5	5.1		
March																			
6.4	2.6	4.5	5.4	5.2	4.5	6.4	3.4	6.5	6.6	5.2	4.9	9.8	7.1	11.6	3.0	3.4	4.3		
April																			
6.6	5.2	6.8	9.6	15.0	12.9	12.5	12.2	12.9	13.2	10.7	15.6	23.1	23.2	15.1	14.3	13.3	15.2		
May																			
23.4					24.3	21.6	20.4	16.6	16.2		14.1	20.0	16.8	17.0	17.3	18.4	25.7		
June																			
22.1		23.1	18.7	17.7	17.8	17.8	24.1	21.8	19.8		18.5	20.4	19.9	21.6	17.6	20.9	21.9		
July																			
28.1	29.6	28.5	30.2	26.4	25.9	28.7	27.3	29.2	27.3	28.1	22.2	21.2	21.1	22.2	25.0	22.3	25.7		
August																			
26.9	27.5	29.8	28.9	28.2	28.9	28.5	27.2	24.3	25.8	27.6	28.8	29.2	25.1	27.3	26.4	29.7	26.9		
September																			
22.5	22.7	22.5	21.8	22.1	22.6	22.6	23.7	22.8	23.0	22.6	22.9	24.5	24.0	23.8	23.6	22.0	21.1		
October																			
28.8	20.5	20.7	17.9	17.3	20.0	19.7	18.4	16.6	15.7	19.6	18.0	18.2	17.8	22.1	23.9	18.1	18.2		
November																			
13.4	11.6	14.0	15.2	13.4	14.1	13.4	12.9	13.4	9.8	13.1	8.2	11.7	10.5	13.1	11.7	12.3	14.6		
December																			
7.2	8.6	6.7	6.1	7.5	8.0	7.5	7.8	4.3	4.3	6.8	6.6	4.1	1.4	4.1	7.2	4.8	5.5		

18	19	20	中旬 平均	21	22	23	24	25	26	27	28	29	30	31	下旬 平均	月 平均
6.7	0.1	1.0	3.6	3.9	1.1	2.7	-2.8		0.4	1.3	1.3	0.6	0.4	4.1		
5.4	3.2	11.6	6.4	7.4	5.7	2.3	6.8	7.4	7.3	3.9	7.0				6.0	4.7
3.8	13.5	11.4	7.3	6.5	4.3	4.8	6.7	7.8	8.7	12.6	11.5	13.1	13.8	11.6	9.2	7.2
15.6	15.9	18.6	17.0	19.3	23.8	21.6	21.9	15.3	13.4	14.3	17.1	23.1	18.9		18.9	15.5
19.1	19.0	19.8	18.7	21.0	23.1	22.4	20.8	16.5	15.7	20.4	23.6	23.4	21.3	19.1	20.7	
21.6	22.0	22.0	20.6	19.3	18.7	18.4	21.0	26.3	25.9	27.8	23.7	25.1	24.8		23.1	
24.8	26.7	26.1	23.7	24.5	22.0	26.5	25.5	28.5	26.4	28.1	26.7	23.7	24.4	26.4	25.7	25.8
26.2		26.3		25.4	26.2	26.4	27.2	28.1	24.8	25.4	21.6	22.3	23.2	23.0	24.9	
19.9	25.1	28.6	23.6	28.4	23.7	19.9	21.6	15.5	20.3	19.5	19.6	21.0	24.0		21.4	22.5
14.7	16.2	12.9	18.0	14.3	16.6	14.5	14.6	16.2	13.3	14.6	14.5	15.2	15.3	14.8	14.9	17.5
6.9	7.7	5.5	10.2	7.2	4.8	6.6	5.5	8.4	5.1	8.0	11.2	3.4	6.0		6.6	10.0
2.2	3.6	9.7	4.9	4.6	3.1	6.7	6.3	5.0	8.2	2.1	5.6	5.1	2.5	3.7	4.8	5.5

Table 2. Daily Maximum Temperature (°C). (1998)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17			
January																				
8.1	11.0	14.8	9.7	8.4	5.5	10.4	5.3	8.5	9.6	9.1	7.1	6.6	8.3	9.4	6.1	8.3	11.4			
February																				
6.2	12.0	12.4	6.0	6.1	11.1	10.3	5.2	6.3	5.3	8.1	13.2	21.2	18.6	17.4	7.5	11.4	7.8			
March																				
7.6	12.5	15.5	14.9	9.3	15.5	9.5	13.3	15.2	8.9	12.2	15.1	13.6	14.2	17.7	7.7	10.8	13.3			
April																				
7.0	8.0	14.3	19.9	22.5	15.9	12.9	15.8	14.1	21.3	15.1	23.5	28.0	25.2	19.0	18.1	19.7	25.2			
May																				
27.8	29.3	21.8	20.3	26.8	29.5	26.2	20.9	23.1	20.2	24.6	16.1	24.8	17.8	22.3	24.4	21.1	27.6			
June																				
29.2	19.2	26.9	19.5	19.1	19.4	21.0	27.9	23.5	22.8	22.8	21.4	27.2	23.6	25.6	24.2	26.4	27.2			
July																				
31.7	31.4	34.9	34.3	30.3	32.0	32.1	36.1	34.1	29.8	32.6	24.5	22.3	22.9	27.0	31.5	29.8	29.3			
August																				
31.6	31.1	34.2	32.6	33.6	34.4	30.5	29.2	29.6	30.1	31.7	34.9	35.3	26.3	31.9	31.0	35.6	30.0			
September																				
25.8	28.4	28.3	28.9	30.2	27.6	31.2	31.2	30.1	29.5	29.1	31.0	30.2	29.5	35.0	26.3	24.0	21.2			
October																				
32.6	23.9	25.4	24.0	25.8	28.9	20.9	22.0	24.4	25.9	25.4	25.2	22.4	23.0	28.2	26.3	18.8	19.8			
November																				
18.6	20.9	20.6	21.6	15.8	17.3	20.4	21.1	21.4	13.1	19.1	17.7	15.0	17.9	22.3	23.4	22.3	15.7			
December																				
13.2	10.2	10.9	15.1	14.8	11.8	12.2	11.4	8.6	10.8	11.9	7.7	12.0	16.2	17.5	13.5	15.7	13.4			

18	19	20	中旬 平均	21	22	23	24	25	26	27	28	29	30	31	下旬 平均	月 平均
8.9	3.7	5.9	7.5	6.6	7.2	5.6	0.7	5.3	6.3	6.3	5.4	5.5	10.4	9.1	6.2	7.6
9.9	18.1	16.7	14.1	10.4	10.1	11.3	9.8	9.3	8.3	15.2	8.5				10.3	10.9
15.0	17.2	15.8	14.0	10.2	9.1	12.5	15.3	17.0	19.2	16.6	19.7	23.7	22.1	15.4	16.4	14.3
21.1	25.1	28.6	23.3	27.2	25.9	22.4	25.1	19.3	17.8	20.7	25.7	27.2	24.5		23.6	20.7
22.0	24.6	28.0	22.8	28.6	30.8	32.8	26.9	19.8	22.5	25.1	30.6	26.9	24.3	25.4	26.7	24.8
27.8	26.7	27.3	25.7	21.0	20.1	20.5	24.9	31.0	30.1	29.0	25.0	27.1	30.0		25.8	24.8
30.0	26.8	30.2	27.4	32.4	29.6	28.7	31.7	31.9	29.3	31.8	27.6	27.0	27.4	31.9	29.9	30.0
30.3	30.7	32.5	31.8	31.3	32.7	34.7	31.1	30.6	30.5	28.2	27.8	27.8	27.2	27.5	29.9	31.1
24.4	30.5	33.7	28.6	29.6	23.8	22.9	22.4	20.8	24.9	24.5	25.2	25.7	27.5		24.7	27.5
20.2	21.5	17.6	22.3	21.8	19.7	17.4	21.6	22.0	19.6	16.5	21.5	22.2	21.7	22.7	20.6	22.7
9.1	9.9	8.8	16.2	10.7	7.8	13.5	15.1	9.5	14.9	15.8	12.8	15.8	12.0		12.8	16.0
14.9	18.8	12.8	14.2	12.1	16.7	14.0	9.2	12.5	9.3	14.0	11.8	13.9	11.2	3.9	11.7	12.6

Table 3. Daily Minimum Temperature (°C). (1998)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17		
January																			
0.6	0.2	-1.2	1.5	0.7	1.2	1.7	1.6	-0.8	-1.5	0.4	3.9	0.4	0.5	2.6	4.4	3.8	0.4		
February																			
-1.8	-3.5	-1.9	-0.2	-1.0	-0.5	-1.3	-0.3	-0.7	0.3	-1.1	-2.7	9.6	4.9	5.1	-0.7	-1.8	3.6		
March																			
2.6	-0.6	-1.1	1.8	4.5	0.1	3.1	-1.5	1.3	2.1	1.2	2.3	5.5	2.1	1.9	0.3	-1.3	0.7		
April																			
3.3	3.0	-0.5	0.5	4.9	12.0	11.3	9.7	10.8	9.0	6.4	8.0	9.9	19.0	13.2	8.9	7.3	8.4		
May																			
11.3	21.8	12.9	10.0	8.8	17.8	20.3	14.7	12.4	13.2	14.3	12.2	15.7	12.7	10.2	7.1	14.9	17.0		
June																			
9.5	15.1	17.7	15.9	14.7	14.9	13.7	13.0	18.3	18.1	15.1	14.3	13.0	18.3	17.7	16.2	13.2	16.4		
July																			
22.0	22.6	21.9	22.0	22.4	20.7	21.9	22.0	22.8	23.1	22.1	19.9	20.1	19.2	18.4	19.3	21.3	21.0		
August																			
23.0	24.9	23.7	23.6	22.8	23.2	25.0	23.6	22.8	23.1	23.6	23.1	24.9	23.2	21.8	23.9	26.3	24.5		
September																			
20.0	19.4	17.4	17.4	16.3	19.5	18.2	18.2	17.3	18.0	18.2	19.3	19.8	17.4	17.1	22.5	14.9	14.3		
October																			
21.2	17.9	14.3	12.8	12.3	14.8	16.0	15.2	13.1	11.8	14.9	13.4	15.6	16.7	19.2	18.6	17.7	15.6		
November																			
10.4	9.0	8.6	8.4	10.1	8.7	10.6	10.4	9.5	8.6	9.4	4.8	7.2	6.8	8.1	8.1	7.5	7.3		
December																			
4.5	5.7	4.1	2.4	5.0	3.8	2.5	1.1	2.3	0.6	3.2	0.7	0.7	-0.1	1.9	4.6	3.8	3.8		

18	19	20	中旬 平均	21	22	23	24	25	26	27	28	29	30	31	下旬 平均	月 平均
3.6	-2.3	-1.9	1.5	-1.8	-1.8	0.6	-3.7	-2.7	-3.0	0.5	0.6	-1.6	-3.2	1.4	-1.4	0.2
0.3	-1.3	10.4	2.7	5.4	0.1	-2.1	6.2	6.5	2.6	0.3	4.5				2.9	1.4
-2.0	2.1	5.2	1.7	4.0	1.0	-0.7	2.3	3.7	1.4	10.4	7.1	5.2	4.7	5.3	4.0	2.4
10.7	8.7	9.9	10.4	13.1	14.9	19.2	18.8	12.0	9.0	7.6	8.9	14.5	11.7		12.9	9.9
16.6	12.8	9.8	12.9	8.5	13.2	14.3	15.9	13.3	10.8	9.6	12.0	19.1	11.8	7.7	12.4	13.2
17.8	18.8	17.1	16.2	17.6	17.2	17.0	17.3	21.1	23.7	23.4	22.3	21.4	18.7		19.9	17.1
17.6	20.5	21.9	19.9	22.2	21.2	20.6	20.9	23.0	23.1	24.9	23.0	22.5	22.4	22.5	22.4	21.5
23.1	24.2	21.2	23.6	21.0	21.2	21.0	23.9	22.3	21.5	21.8	20.5	19.2	20.9	20.1	21.2	22.7
18.7	21.2	23.9	18.9	23.0	18.6	18.8	10.0	13.4	16.8	16.9	18.8	19.3	21.2		17.7	18.2
12.8	12.7	11.2	15.3	12.2	12.9	12.8	11.1	11.2	10.1	13.0	11.9	11.7	11.4	12.2	11.8	14.0
3.8	3.7	1.3	5.8	4.9	3.6	4.9	2.7	6.8	3.7	3.9	5.0	1.3	2.8		3.9	6.4
1.7	1.8	5.4	2.4	1.6	0.5	6.2	4.6	4.0	1.5	0.8	3.0	1.8	1.0	0.6	2.3	2.6

Table 4. Daily Amount of Precipitation (mm). (1998)

1	2	3	4	5	6	7	8	9	10	上旬計	11	12	13	14	15	16	17		
January																			
2.0	1.5	0.0	5.5	2.5	1.0	0.0	29.5	11.0	0.0	53.0	8.5	38.0	9.0	5.0	69.5	7.5	6.0		
February																			
0.5	0.0	2.5	14.5	0.0	0.5	0.0	3.0	11.0	9.0	41.0	0.5	1.0	0.0	12.0	15.5	0.0	0.5		
March																			
10.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	10.5	2.5	5.0	0.0	0.0	28.5	3.0	0.0		
April																			
63.0	23.5	0.0	0.0	1.0	16.5	3.5	1.0	12.5	0.0	121.0	0.0	0.0	0.0	4.0	1.0	0.0	6.0		
May																			
0.0	3.5	19.5	0.0	0.0	0.0	9.5	26.5	0.0	1.0	60.0	18.5	9.5	0.0	0.0	0.0	7.0	0.0		
June																			
0.0	31.0	0.0	0.0	0.0	0.5	0.0	0.0	4.0	5.0	40.5	2.0	0.0	11.0	2.0	10.0	0.0	0.0		
July																			
0.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	105.5	1.0	10.0	0.0	0.5	12.5	0.0		
August																			
0.0	1.0	8.5	0.0	0.0	0.0	3.0	5.0	13.5	0.0	31.0	0.0	0.0	13.5	0.0	0.5	0.0	0.5		
September																			
October																			
November																			
0.0	0.0	0.0	1.0	0.0	0.0	3.0	0.0	7.0	7.0	18.0	0.0	5.0	0.0	0.0	0.0	1.0	4.0		
December																			
0.0	15.0	0.0	0.0	2.0	3.0	1.0	1.5	0.5	0.0	23.0	2.0	0.0	0.0	0.5	1.5	0.0	0.0		

18	19	20	中旬計	21	22	23	24	25	26	27	28	29	30	31	下旬計	月計
44.5	0.5	0.0	188.5	0.5	0.5	6.0	3.5	11.0	2.0	4.0	8.5	7.0	2.5	1.0	46.5	288.0
0.0	0.0	16.5	46.0	13.5	0.0	1.5	12.5	20.5	15.0	0.5	4.0				67.5	154.5
0.0	0.5	8.5	48.0	0.0	12.0	0.0	0.0	0.0	0.5	8.5	0.0	0.0	0.0	0.0	21.0	79.5
3.5	0.0	0.0	14.5	0.0	0.0	1.5	23.5	9.0	2.0	0.0	0.0	0.0	0.0		36.0	171.5
1.5	0.0	0.0	36.5	0.0	0.0	0.0	2.0	26.0	0.0	0.0	3.5	2.0	4.5	0.0	38.0	134.5
0.0	16.5	0.0	41.5	10.0	5.0	0.0	3.5	6.0	0.0	11.0	21.0	1.0	0.0		57.5	139.5
0.0	7.0	0.0	136.5	0.5	7.5	0.0	0.0	0.0	1.0	5.5	18.5	7.5	3.5	0.5	44.5	192.5
1.0	0.0	0.0	15.5	0.0	0.0	0.0	5.0	1.0	0.0	10.0	7.5	0.0	10.0	0.5	34.0	80.5
0.0	0.0	0.0	10.0	2.0	2.5	0.0	2.0	7.5	0.0	3.0	0.5	0.0	0.5		18.0	46.0
0.0	0.0	7.0	11.0	0.0	0.0	2.0	5.0	0.0	0.0	0.0	2.0	1.0	0.0	14.0	24.0	58.0

Table 5. Wind Direction at 9 AM. (1998)

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

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

Table 6. Wind Speed at 9 AM. (1998)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
January															
0.2	0.2	0.0	1.2	0.8	1.7	0.1	0.6	0.2	0.5	1.0	0.6	1.2	0.5	1.3	0.9
February															
0.3	0.4	0.3	1.4	0.5	0.9	0.2	3.7	0.0	2.8	1.1	1.5	0.1	2.6	0.6	0.0
March															
1.8	0.2	0.0	0.0	0.2	0.1	1.4	0.1	0.1	3.9	0.2	1.6	0.0	3.9	1.4	1.0
April															
4.1	0.5	0.2	0.1	0.2	0.0	0.3	1.1	0.1	0.1	0.0	1.9	2.7	0.2	0.0	0.9
May															
3.7					0.4	1.1	0.6	0.5	0.5	0.1	0.5	0.4	1.2	1.9	1.6
June															
0.4		1.7	1.6	0.7	1.1	1.0	1.8	1.0	0.4	1.4	0.4	0.3	1.1	0.4	0.3
July															
0.1	1.4	1.3	2.1	0.5	0.3	1.1	0.3	0.5	0.6	0.3	2.4	1.5	0.9	0.2	0.6
August															
0.1	0.3	0.6	0.1	0.6	0.0	0.6	1.0	0.9	0.9	0.3	0.1	0.1	0.5	0.4	1.2
September															
0.3	0.1	0.5	0.2	0.5	0.3	1.3	0.1	0.1	0.4	0.9	0.2	1.1	0.2	0.4	3.3
October															
2.1	0.8	1.6	0.2	0.3	0.7	0.0	0.3	1.3	0.1	0.3	0.8	0.2	0.2	1.1	0.2
November															
0.2	0.4	0.0	0.2	1.5	2.7	1.4	0.1	0.3	0.4	0.7	0.6	0.5	1.5	0.1	0.5
December															
0.1	1.7	0.0	1.2	0.2	0.5	0.3	3.0	0.0	0.3	7.0	0.0	0.1	0.1	1.1	0.0

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0.6	0.6	4.1	2.8	4.5	0.6	0.0	5.3		0.5	0.4	0.4	0.6	0.7	0.7
1.4	3.2	0.7	1.0	1.2	1.8	1.4	0.0	0.0	0.2	0.1	0.0			
0.0	0.2	3.1	0.1	0.1	0.8	0.0	0.0	0.2	0.6	0.5	0.2	0.0	0.0	0.1
0.2	0.0	0.2	0.7	0.6	1.1	1.2	0.0	0.6	1.4	1.1	1.2	0.3	2.6	
6.9	0.3	0.2	0.6	1.7	0.1	0.2	0.4	0.0	0.4	1.7	1.2	0.2	0.6	0.3
2.6	0.8	0.3	0.9	0.1	1.9	0.0	0.1	4.0	0.8	0.7	0.0	0.5	0.1	
0.6	1.6	1.9	0.2	0.8	0.3	1.4	0.8	0.2	1.5	2.0	0.3	0.5	0.4	0.6
1.0	0.0		0.8	0.6	1.2	0.1	1.0	2.4	0.3	0.1	0.2	0.3	1.7	0.4
0.8	0.2	1.7	2.9	2.7	0.3	0.0	0.2	0.9	0.1	0.1	0.0	0.1	1.4	
0.2	4.9	0.0	0.0	0.1	0.3	0.4	0.1	1.2	0.0	0.4	1.2	0.4	0.3	0.8
0.2	6.8	3.0	0.4	2.2	0.4	1.3	1.3	0.2	0.0	0.0	0.7	0.1	0.0	
0.0	0.0	0.4	1.8	0.0	2.4	0.0	0.5	1.0	1.5	0.1	0.0	0.0	1.0	1.5

Table 7. Daily Weather (1998) : ○ Clear days, ⊙ Fine days, ◎ Cloudy 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																		
◎	●	◎	○	◎	●	●	⊙	◎	⊙	◎	⊙	○	⊙	⊙	⊙	⊙	○	○

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

20	21	22	23	24	25	26	27	28	29	30	31	○	⊕	⊙	⊕	●	*	△
⊕	⊙	*	⊙	*	⊙	⊕	⊙	●	⊙	○	⊙	2	6	13	0	7	3	0
●	●	⊙	⊕	●	●	⊙	○	●				6	6	8	0	7	1	0
●	⊙	●	⊕	⊙	⊙	⊕	●	⊕	⊕	○	⊙	5	8	12	0	5	1	0
⊕	⊙	⊕	●	⊙	●	⊙	⊕	⊕	⊕	○		2	14	7	0	7	0	0
○	○	⊕	⊕	⊙	●	⊙	⊕	⊕	⊙	⊙	⊕	2	14	8	1	6	0	0
⊕	●	⊙	⊙	⊙	⊙	⊙	⊙	●	⊕	⊕		0	9	13	0	8	0	0
⊙	⊙	⊙	⊕	⊕	⊙	⊙	⊙	⊙	⊙	⊙	⊕	0	11	17	0	3	0	0
⊕	⊕	⊕	⊕	⊙	⊕	⊕	⊕	●	⊙	⊙	⊙	3	10	14	2	2	0	0
○	⊕	●	⊙	⊙	●	⊙	⊙	●	⊙	⊙		2	11	13	0	4	0	0
⊙	⊙	⊙	⊙	⊕	⊕	⊙	●	⊕	○	⊕	⊕	2	11	12	1	5	0	0
⊙	⊕	⊙	⊕	○	●	○	⊙	⊙	○	⊙		4	11	12	0	3	0	0
⊙	⊕	⊕	⊕	⊙	⊙	●	⊕	⊙	⊕	⊙	*	4	11	10	1	4	1	0
計												32	122	139	5	61	6	0

Table 8. Daily Humidity (%) at 9 AM. (1998)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17		
January																			
84.2	88.2	88.4	88.7	77.3	65.8	88.3	88.1	86.8	87.9	84.4	72.2	87.9	88.3	83.4	85.6	75.3	89.1		
February																			
87.9	87.5	89.2	85.9	78.2	83.1	82.8	56.2	88.7	83.8	82.3	88.8	61.7	87.0	85.3	86.7	87.0	61.6		
March																			
75.8	87.5	83.8	87.9	86.3	78.7	42.2	58.4	53.8	50.8	70.5	87.6	74.2	84.9	39.8	82.1	83.3	89.2		
April																			
50.7	83.2	58.0	56.9	61.5	86.6	86.6	78.5	86.8	70.3	71.9	70.2	29.5	56.7	85.0	86.7	62.3	62.4		
May																			
41.5					57.9	85.9	85.8	48.7	62.0		82.3	85.0	80.4	72.1	52.3	79.5	49.0		
June																			
45.7		60.6	66.3	75.1	66.1	66.3	49.4	75.2	86.7		85.7	62.1	86.9	82.2	86.2	51.6	65.8		
July																			
57.6	46.8	43.3	44.1	75.5	62.5	59.9	62.7	52.5	75.6	58.1	84.5	80.9	82.9	68.8	73.2	85.1	62.5		
August																			
76.9	75.9	59.4	72.5	58.0	71.4	72.2	70.2	86.3	77.4	72.0	58.0	73.4	85.2	71.3	85.9	60.1	81.5		
September																			
82.2	79.8	72.3	73.3	67.1	78.2	71.9	73.4	72.1	69.1	73.9	76.4	68.9	69.1	74.9	86.2	71.4	61.5		
October																			
61.5	85.4	66.9	83.1	73.6	80.4	87.2	85.8	87.3	74.6	78.6	80.4	81.7	88.3	85.5	75.2	86.4	87.1		
November																			
78.1	87.8	86.7	80.3	57.0	50.7	86.5	86.1	79.8	86.8	78.0	87.9	88.7	86.3	81.6	88.6	83.6	87.7		
December																			
89.1	86.9	88.2	88.3	88.2	87.4	89.2	49.6	78.2	85.8	83.1	51.0	83.8	88.4	89.0	86.8	88.3	87.9		

18	19	20	中旬 平均	21	22	23	24	25	26	27	28	29	30	31	下旬 平均	月 平均
87.6	49.6	53.0	77.2	61.0	84.3	85.7	74.3		84.1	88.6	88.4	83.7	84.3	78.7		
46.2	72.8	87.3	76.4	64.3	50.4	79.7	88.5	84.3	88.3	89.0	87.5				79.0	79.2
66.2	25.6	82.9	71.6	66.0	86.6	78.1	68.6	70.1	66.4	86.5	85.5	70.6	49.5	60.5	71.7	71.3
73.8	64.2	55.6	64.6	64.8	39.7	67.4	77.9	85.6	68.0	64.7	65.4	58.8	60.9		65.3	67.3
82.5	67.4	49.7	70.0	48.3	53.4	57.1	76.3	85.6	68.1	58.2	53.5	67.7	76.4	47.3	62.9	
69.7	86.6	67.6	74.4	82.7	85.3	78.6	86.8	61.0	69.8	57.0	85.4	63.7	61.6		73.2	
62.8	60.8	67.9	72.9	82.6	85.8	64.5	71.7	58.3	66.5	63.3	84.6	85.2	84.7	73.3	74.6	68.5
79.8		60.1		66.4	71.9	71.3	63.5	57.2	68.8	78.7	86.4	82.3	82.2	76.0	74.1	
87.3	77.8	50.0	72.4	52.3	85.6	86.3	86.3	86.7	78.8	77.8	85.5	79.9	71.0		79.0	75.1
84.4	84.4	80.9	83.4	81.7	77.6	85.0	86.8	83.3	85.3	87.0	87.3	85.4	83.3	87.2	84.5	82.2
44.9	54.0	79.6	78.3	59.8	88.6	87.3	86.7	87.7	88.8	88.8	60.6	87.0	82.4		81.8	79.4
89.3	87.2	56.4	80.8	88.9	85.7	86.4	67.6	88.2	75.9	89.8	89.6	90.1	89.1	87.3	85.3	83.1

Table 9. Daily Duration of Sunshine (hours). (1998)

1	2	3	4	5	6	7	8	9	10	上旬計	11	12	13	14	15	16	17		
January																			
0.0	3.8	7.3	0.3	4.5	0.4	1.7	0.0	1.7	0.1	19.8	0.0	0.6	3.5	0.0	0.0	0.9	5.4		
February																			
1.0	7.2	3.5	0.0	4.5	5.4	6.3	1.8	5.1	0.0	34.8	9.8	4.2	8.0	0.0	0.9	5.9	2.9		
March																			
0.1	9.5	8.8	7.0	0.7	7.0	5.0	10.2	8.6	4.9	61.8	1.6	0.4	6.7	9.2	0.8	6.8	4.2		
April																			
0.0	1.0	11.1	11.1	6.8	0.0	0.0	1.5	0.0	11.0	42.5	11.1	9.7	2.0	0.2	3.7	9.2	7.9		
May																			
10.3	7.7	1.8	11.7	9.5	11.7	1.2	0.2	10.7	4.8	69.6	0.1	0.5	2.1	9.6	11.3	0.0	10.9		
June																			
11.0	1.0	8.9	2.9	1.6	5.0	6.8	7.8	3.2	3.0	51.2	3.9	11.9	2.1	4.7	5.1	11.3	11.6		
July																			
6.2	6.9	11.3	10.3	8.2	11.2	10.8	9.8	9.5	2.9	87.1	0.0	1.9	6.0	9.4	8.5	6.4	10.4		
August																			
5.3	5.8	11.2	10.1	10.6	8.9	2.8	5.6	7.4	7.8	75.5	11.6	9.0	0.0	8.3	4.7	8.5	3.2		
September																			
1.9	8.5	9.6	7.7	8.9	4.5	8.4	10.5	10.3	10.4	80.7	7.1	10.1	9.6	10.0	1.3	4.0	0.6		
October																			
7.3	4.5	9.4	7.4	10.5	7.8	0.0	2.7	7.7	5.7	63.0	8.0	0.0	1.1	5.8	0.5	0.0	0.0		
November																			
1.6	4.4	8.5	0.4	1.4	5.0	3.0	8.8	5.7	2.0	40.8	7.1	1.9	1.9	8.8	8.7	5.9	2.8		
December																			
1.8	0.0	0.2	3.6	2.8	0.8	0.0	5.2	1.1	5.3	20.8	1.0	7.2	7.4	5.4	3.3	7.5	3.8		

18	19	20	中旬計	21	22	23	24	25	26	27	28	29	30	31	下旬計	月計
0.0	3.9	6.9	21.2	2.2	4.2	0.0	1.7	6.0	4.4	1.1	0.8	2.2	7.6	0.7	30.9	71.9
7.7	8.5	0.0	47.9	0.0	3.5	6.3	0.0	0.2	0.0	9.1	1.7				20.8	103.5
10.8	6.5	0.0	47.0	4.8	2.4	9.0	7.0	8.1	9.0	0.0	9.7	9.4	10.3	2.8	72.5	181.3
7.5	10.9	11.1	73.3	5.5	8.3	0.0	2.4	0.0	9.3	10.0	11.2	10.6	10.9		68.2	184.0
3.4	10.3	11.8	60.0	12.0	11.8	10.2	3.9	0.0	10.5	12.1	9.2	8.4	4.5	11.0	93.6	223.2
9.2	0.7	11.8	72.3	1.1	0.8	3.5	2.5	7.3	1.1	0.7	0.0	9.2	11.4		37.6	161.1
12.1	0.0	9.7	64.4	4.1	6.6	8.3	8.5	7.9	1.0	5.8	4.2	3.5	5.9	10.7	66.5	218.0
3.9	7.9	9.3	66.4	10.2	7.1	10.1	6.6	8.3	7.2	3.1	6.2	7.5	5.0	7.1	78.4	220.3
1.4	5.5	10.8	60.4	6.3	0.0	0.3	0.0	1.4	5.6	6.3	5.2	2.9	0.3		28.3	169.4
2.9	6.0	0.5	24.8	2.9	4.2	0.0	7.1	8.8	1.6	0.0	5.9	8.4	3.7	6.6	49.2	137.0
5.9	3.8	0.5	47.3	1.2	0.0	3.1	4.7	0.1	7.9	0.1	1.2	8.4	0.0		26.7	114.8
7.6	6.5	2.9	52.6	5.6	7.2	2.7	0.7	4.4	0.1	3.7	2.4	2.8	4.6	0.5	34.7	108.1

Table 10. Daily Atmospheric Pressure 9 AM (mb). (1998)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17		
January																			
1008.6	1011.4	1013.9	1004.7	1011.6	1011.6	1016.8	1007.8	1012.4	1014.7	1011.4	1011.8	1008.1	1016.8	1016.0	1002.8	1007.8	1013.8		
February																			
1018.1	1015.2	1012.4	1013.7	1012.7	1011.6	1009.9	999.5	1010.1	1007.5	1011.1	1014.7	1005.7	1011.8	1003.8	1007.6	1012.9	1017.9		
March																			
1007.9	1014.7	1013.5	1013.6	1010.4	1009.4	1013.5	1016.2	1008.5	1013.5	1012.1	1008.3	998.0	999.7	999.9	1004.4	1009.5	1012.4		
April																			
1011.5	1006.6	1015.2	1016.5	1015.7	1009.2	1007.2	1005.7	1003.5	1008.4	1010.0	1009.5	1007.3	999.8	1002.4	1003.0	1008.4	1004.9		
May																			
1010.3					1010.4	1009.1	1003.7	1008.9	1008.8		1010.2	1001.3	1005.2	1007.3	1008.5	1005.3	1003.4		
June																			
1001.7		994.0	1002.8	1005.5	1004.5	1004.3	1004.6	1006.3	1000.4		1004.3	1004.7	997.8	991.8	997.0	1000.0	998.8		
July																			
1001.7	1001.2	1002.7	1004.5	1005.4	1006.1	1004.9	1002.4	999.9	998.7	1002.8	996.3	999.7	1002.6	1003.6	1000.1	995.3	994.0		
August																			
1000.8	1001.3	1004.1	1004.0	1002.6	1000.7	1001.5	1002.4	1000.8	1001.1	1001.9	1000.5	1000.1	999.5	1000.0	1000.6	998.9	997.6		
September																			
1001.0	1001.5	1002.5	1002.6	1001.7	1000.8	999.8	1001.5	1003.9	1006.1	1002.1	1005.6	1005.0	1006.2	1003.4	999.0	991.4	1001.8		
October																			
993.3	1000.2	1006.7	1011.4	1013.2	1008.8	1004.2	1002.4	1007.8	1011.2	1005.9	1015.9	1015.3	1010.9	1005.1	1001.7	1005.1	999.5		
November																			
1008.8	1007.9	1012.7	1008.8	1014.5	1014.0	1006.5	1006.0	1003.2	1008.1	1009.1	1009.3	1010.0	1010.2	1010.0	1011.3	1006.4	995.5		
December																			
1009.1	1012.2	1014.0	1012.7	1013.6	1018.3	1012.9	1012.8	1017.3	1020.8	1014.4	1015.9	1019.4	1015.9	1011.4	1009.9	1010.2	1013.8		

18	19	20	中旬 平均	21	22	23	24	25	26	27	28	29	30	31	下旬 平均	月 平均
999.6	1008.2	1014.1	1009.9	1011.3	1015.1	1006.9	1006.6		1012.8	1016.7	1015.2	1018.2	1017.5	1015.3		
1025.2	1021.5	1005.8	1012.7	1010.2	1018.1	1016.4	1009.3	1006.2	1007.0	1010.3	1004.4				1010.2	1011.3
1019.9	1010.4	1000.3	1006.3	1009.9	1013.7	1018.0	1014.3	1011.2	1017.5	1006.3	1010.8	1013.0	1011.5	1009.5	1012.3	1010.2
1004.3	1008.2	1011.6	1005.9	1012.4	1008.1	1003.4	998.4	999.2	1007.5	1011.4	1012.1	1009.7	1013.0		1007.5	1007.8
1004.8	1005.8	1008.6	1006.0	1010.3	1008.8	1007.4	1001.6	997.0	1002.2	1007.0	1006.4	1000.9	999.6	1004.5	1004.6	
999.7	994.5	1002.6	999.1	1003.5	1003.4	1006.4	1006.3	1005.7	1003.6	1002.7	1001.6	1000.0	1001.7		1003.5	
996.9	991.3	993.3	997.3	996.7	998.6	999.0	1000.0	998.7	996.0	994.2	996.7	997.8	999.5	1002.3	998.1	999.4
1002.1		1002.5		1003.9	1004.7	1004.0	999.9	997.4	998.7	997.9	998.9	999.6	999.3	1000.5	1000.4	
1005.4	1004.2	1004.2	1002.6	998.6	997.8	1006.7	1005.1	1007.6	1008.9	1010.1	1010.1	1008.1	1001.9		1005.5	1003.4
997.7	1006.6	1015.1	1007.3	1012.2	1011.8	1012.3	1010.4	1011.4	1011.2	1009.4	1009.3	1007.4	1007.2	1008.0	1010.1	1007.8
1008.8	1013.2	1012.8	1008.8	1013.7	1011.4	1013.2	1011.7	1014.8	1017.7	1011.6	1008.1	1012.9	1009.8		1012.5	1010.1
1015.5	1007.7	1008.1	1012.8	1012.9	1009.4	1007.3	1012.3	1012.7	1010.8	1011.6	1016.4	1013.1	1011.4	1011.5	1011.8	1013.0