

## 三朝温泉地の気候について（第10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10報として，ひきつづき 1986年 4月 1日から 1987年 3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

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## On climatology in Misasa spa (tenth report)

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Climatological data of the last 12 months (1986. 4. 1-1987. 3. 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). (1986)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17			
January																				
February																				
March																				
April																				
7.4	10.5	13.3	11.5	12.7	13.5	8.0	10.6	14.8	14.8	11.7	13.7	9.5	12.4	14.8	16.1	9.4	15.0			
May																				
18.2	13.1	14.6	16.0	20.4	15.1	18.9	23.1	23.2	15.6	17.8	13.6	15.8	21.5	19.9	18.7	12.8	18.1			
June																				
21.7	22.0	20.4	21.8	21.5	20.0	16.3	19.8	25.4	21.0	21.0	21.2	20.6	24.3	23.8	24.0	19.0	21.8			
July																				
18.2	18.0	18.1	19.8	21.3	19.1	18.5	19.5	19.8	23.2	19.6	24.3	24.6	21.5	25.5	23.9	24.4	28.5			
August																				
29.8	29.5		25.3	25.7	25.9	25.7	24.8	26.9	29.2	27.0	29.0	28.6	30.0	30.7	30.2	27.7	27.6			
September																				
	26.1	25.0	24.6	23.9	23.5	25.0	24.9	24.0	22.5	24.4	21.8	23.0	21.0	21.0	20.6	22.1	19.4			
October																				
20.5	21.6	18.4	16.7	16.2	15.2	17.3	17.6	14.6	13.7	17.2	17.4	15.7	15.3	12.8	14.4	14.4	12.1			
November																				
8.5	11.2		12.6	9.3	7.1	11.3	11.9	9.1	9.6	10.1	8.3	6.5	10.7	13.3	11.8	10.0	5.7			
December																				
6.1	6.1	5.7	9.3	6.1	4.5	7.5	6.4	0.5	11.1	6.3	3.2	0.5	5.9	9.6	8.9	4.9	5.0			

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
14.5	14.1	18.7	13.8	13.2	11.7	14.8	16.3	19.5	25.1	20.7	12.8	14.9	14.3		16.3	13.9
20.4	16.5	15.4	17.3	17.2	12.1	17.0	22.9	20.1	17.1	18.6	21.4	17.9	17.6	20.5	18.4	17.8
23.0	25.7	22.0	22.5	19.6	21.9	19.1	24.2	23.9	19.8	20.7	24.2	23.2	22.4		21.9	21.8
27.3	28.2	26.3	25.5	24.3	27.5	20.5	23.7	23.3	28.0	28.5	28.5	29.1	29.8	30.1	26.7	23.9
27.1	27.1	29.1	28.7	27.9	27.8	24.1	24.7	26.7	29.2	28.5	28.1	29.2	25.9	24.1	26.9	27.5
20.8	17.8	19.2	20.7	27.8	21.3	18.0	19.7	18.8	17.1	14.4	19.5	17.6	17.4		19.2	21.4
9.7	9.5	12.8	13.4	13.7	12.5	10.5	10.3	13.4	12.1	12.1	9.2	11.2	6.9	7.0	10.8	13.8
6.6	7.4	8.2	8.9	5.6	7.8	5.3	10.9	13.9	4.6	4.1	4.8	6.4	2.2		6.6	8.5
5.4	8.7	4.7	5.7	2.6	0.6	0.7	3.9	8.3	5.2	3.8	3.3	0.9	3.2	12.2	4.1	5.4

Table 2. Daily Maximum Temperature (°C). (1986)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17			
January																				
February																				
March																				
April																				
14.4	17.9	20.9	13.7	14.3	18.1	10.7	20.2	16.8	19.7	16.7	13.9	14.8	19.6	23.9	18.3	12.7	22.7			
May																				
19.6	15.5	17.2	23.4	25.5	16.9	25.1	29.8	26.6	20.3	22.0	18.2	21.1	26.4	21.1	21.8	17.1	22.9			
June																				
25.2	26.6	27.7	25.1	26.7	21.4	21.3	26.3	26.4	26.9	25.3	25.4	27.2	29.1	29.0	28.2	22.7	24.5			
July																				
19.2	20.2	19.3	26.2	23.0	21.2	20.5	23.5	27.9	23.8	22.5	27.4	27.4	27.5	29.5	28.1	26.5	33.2			
August																				
35.2	33.0		29.7	29.1	28.0	28.5	30.3	34.6	34.9	31.5	34.8	34.4	35.6	34.7	34.7	32.5	32.9			
September																				
31.4	32.6	28.8	27.4	30.0	27.6	29.4	28.0	27.4	23.7	28.6	26.5	25.4	25.1	26.7	25.8	28.3	21.3			
October																				
23.8	24.0	19.3	22.6	19.2	23.2	23.2	20.7	21.7	21.8	21.9	19.9	18.1	19.4	22.3	22.6	23.4	13.0			
November																				
20.3	20.4	21.8	16.4	15.0	18.5	20.7	15.0	14.1	15.6	17.8	10.9	16.1	13.3	19.6	12.6	11.8	13.7			
December																				
8.8	14.2	16.8	11.7	12.2	17.7	14.0	11.6	14.8	13.3	13.5	15.5	17.6	16.7	13.1	11.8	8.5	10.6			

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
16.4	18.9	24.1	18.5	14.3	13.4	18.6	25.2	27.4	28.9	24.8	19.9	18.1	22.0		21.2	18.8
30.5	20.4	18.0	21.7	19.9	19.6	24.0	30.2	22.3	20.8	25.5	25.3	20.8	18.2	27.0	23.0	22.3
27.6	27.8	25.7	26.7	25.9	26.6	21.6	26.3	29.0	22.5	26.5	27.5	27.4	24.4		25.8	25.9
28.9	31.7	28.1	28.8	29.0	31.3	22.5	26.7	29.5	32.0	33.4	33.2	34.7	34.7	35.0	31.1	27.6
31.3	32.3	33.6	33.7	35.1	30.1	25.9	29.2	32.8	33.1	32.2	29.9	34.1	31.7	30.0	31.3	32.2
26.2	21.1	22.9	24.9	31.8	24.0	27.7	26.3	23.7	25.4	27.2	23.2	19.7	22.1		25.1	26.2
12.3	14.9	19.0	18.5	21.0	18.6	16.5	17.2	21.1	18.8	17.3	19.8	16.6	12.9	17.3	17.9	19.4
15.4	15.9	13.0	14.2	17.6	16.0	16.6	18.8	14.3	8.0	11.1	11.2	7.7	10.4		13.2	15.0
16.0	12.4	7.2	12.9	11.4	6.4	10.5	13.2	11.5	9.6	8.6	5.0	7.4	9.3	16.7	9.9	12.0

Table 3. Daily Minimum Temperature (°C). (1986)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17			
January																				
February																				
March																				
April																				
-1.0	-1.3	2.5	10.0	3.0	0.9	-1.4	-1.2	12.0	13.1	3.7	1.0	-1.6	-0.5	1.0	10.5	1.4	0.9			
May																				
14.6	12.6	12.2	10.6	8.8	10.7	8.8	9.5	10.7	6.9	10.5	9.9	6.2	8.0	12.1	8.5	8.6	5.9			
June																				
13.1	13.4	15.1	12.7	16.5	16.2	11.2	9.3	13.0	12.4	13.3	11.4	7.3	12.0	16.6	18.2	17.6	19.4			
July																				
16.7	15.5	15.2	14.0	17.9	17.5	17.1	15.0	18.7	20.1	16.7	19.2	20.0	20.1	18.4	22.3	22.1	21.4			
August																				
20.0	21.2		16.5	20.3	19.2	17.9	15.8	19.4	19.4	18.8	21.9	20.7	21.5	24.1	22.2	22.3	20.8			
September																				
17.8	19.3	20.6	20.2	18.2	18.6	18.4	20.0	19.8	18.2	19.1	17.9	19.7	16.0	14.6	16.7	15.6	18.8			
October																				
15.4	15.5	12.9	12.6	12.0	10.8	12.4	11.1	10.0	8.9	12.1	11.5	13.5	10.2	7.6	9.1	8.4	9.5			
November																				
3.8	5.5	4.2	9.2	1.9	1.0	5.8	4.8	3.1	6.8	4.6	3.8	2.1	8.7	9.9	8.4	5.9	3.6			
December																				
2.5	0.9	0.5	5.3	2.3	2.0	4.9	0.8	-1.4	0.3	1.8	1.6	-1.6	2.4	4.9	5.9	3.9	-0.7			

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
11.4	10.9	13.4	4.8	11.3	8.9	6.3	5.5	9.3	12.9	13.0	9.5	7.2	2.9		8.7	5.3
7.5	16.3	13.9	9.7	9.6	7.6	4.8	10.9	7.2	5.0	4.9	13.4	16.9	15.8	15.4	10.1	10.1
17.5	17.1	17.9	15.5	17.4	16.7	18.2	20.3	19.2	18.0	14.4	18.0	22.5	18.2		18.3	15.7
20.2	19.3	23.0	20.6	22.4	22.0	20.0	17.2	20.0	19.7	21.4	21.0	20.6	21.5	20.8	20.6	19.3
22.3	20.8	20.4	21.7	22.9	22.3	21.7	21.3	20.7	22.3	23.1	23.2	20.8	17.7	17.8	21.2	20.6
15.5	13.7	17.3	16.6	18.9	14.1	11.3	12.1	11.4	9.3	11.3	15.6	15.1	15.9		13.5	16.4
7.0	6.4	6.2	8.9	4.8	9.6	5.3	5.6	8.2	6.8	7.1	7.1	8.0	4.5	1.5	6.2	9.0
2.5	3.0	3.3	5.1	1.7	3.5	1.8	7.2	8.0	3.9	0.5	-0.7	0.5	0.0		2.6	4.1
-1.0	2.5	-0.6	1.7	-0.9	-0.3	-1.6	1.4	3.6	3.6	2.7	0.2	0.2	0.7	5.9	1.4	1.6

Table 4. Daily Amount of Precipitation (mm). (1986)

1	2	3	4	5	6	7	8	9	10	上旬計	11	12	13	14	15	16	17	
January																		
February																		
March																		
April																		
0.0	0.0	0.0	2.5	0.5	0.0	0.0	0.0	8.0	9.5	20.5	0.5	0.0	0.0	0.0	1.0	0.0	0.0	
May																		
3.0	1.0	4.0	2.5	0.0	15.5	0.0	0.0	0.0	0.0	26.0	3.5	0.0	0.0	20.0	0.0	9.0	0.0	
June																		
0.0	0.0	0.0	0.0	4.5	0.0	0.5	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	2.0	11.0	24.0	
July																		
0.0	0.0	0.5	0.0	17.0	2.5	0.0	0.0	34.5	28.5	65.5	40.5	48.0	26.0	23.0	8.0	22.0	0.0	
August																		
0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	4.0	0.0	0.0	
September																		
0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	20.0	25.5	0.5	0.0	0.5	0.0	0.0	0.0	28.0	
October																		
1.0	0.0	1.5	8.0	11.5	0.0	13.5	0.0	0.0	5.5	41.0	4.5	50.5	35.0	0.0	0.0	4.5	11.0	
November																		
0.0	0.0	0.0	2.5	0.0	0.0	0.0	3.0	0.5	0.0	6.0	11.0	0.0	2.0	0.0	0.5	0.5	0.0	
December																		
0.0	0.0	0.0	12.5	4.5	0.0	6.0	0.0	0.0	0.0	23.0	0.0	0.0	0.0	15.5	43.5	2.5	0.0	

18	19	20	中旬計	21	22	23	24	25	26	27	28	29	30	31	下旬計	月平均
3.5	4.0	0.0	9.0	1.0	51.5	0.0	0.0	0.0	0.0	8.5	2.0	0.0	0.0		63.0	92.5
0.0	18.5	13.0	64.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	25.5	0.5	44.0	134.0
0.0	0.0	0.0	37.0	0.0	0.0	29.5	16.5	2.0	1.0	0.0	18.5	27.0	6.5		101.0	143
2.0	0.0	28.5	198.0	24.5	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.5	319.5
0.0	0.0	0.0	7.0	19.5	7.0	22.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	50.0	57.0
0.0	2.0	15.5	46.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.5	2.5	13.5		20.0	92.0
4.0	5.0	0.0	114.5	0.0	28.0	0.0	4.0	0.0	0.0	1.0	0.0	3.0	1.5	0.0	37.5	193.0
0.0	0.0	0.0	14.0	0.0	0.0	0.0	2.0	10.5	17.5	0.0	0.0	45.5	0.0		75.5	95.5
4.0	19.5	0.5	85.5	0.0	26.5	0.0	0.0	1.5	1.5	6.5	11.5	12.0	0.0	0.0	59.5	168.0

Table 5. Wind Direction at 9 AM. (1986)

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

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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SSE	CALM	CALM	S	NE	CALM	SW	CALM	CALM	WSW	ENE	CALM	WSW	SSW	
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CALM	W	N	W	ENE	SW	SW	NE	WSW	E	WSW	SSW	CALM	NE	ENE
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ENE	CALM	E	N	NNE	CALM	W	ESE	WNW	CALM	WSW	CALM	NE	ENE	
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SSE	NE	SW	NE	SW	CALM	CALM	SW	N	CALM	SW	WSW	SW	WSW	S
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SW	SW	ENE	SSW	CALM	E	CALM	CALM	SSE	S	S	S	WSW	SE	S
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WSW	SW	SE	SSW	ENE	SSE	SW	CALM	WSW	SSW	CALM	CALM	ENE	WSW	
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CALM	SW	CALM	WSW	WSW	CALM	WSW	ENE	CALM	NE	CALM	NE	CALM	WSW	SSE
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NE	CALM	CALM	CALM	SE	CALM	CALM	NE	WSW	SW	ENE	ENE	CALM	NNE	
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CALM	WNW	WSW	SW	ENE	CALM	NE	E	NNE	CALM	ESE	E	NNE	NE	SW
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Table 6. Wind Speed at 9 AM. (1986)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
January															
February															
March															
April															
0.3	0.3	0.7	0.2	0.8	3.3	3.1	0.2	1.0	1.3	1.1	1.3	0.1	0.3	3.9	1.6
May															
0.9	0.3	1.6	0.6	1.6	0.5	1.0	0.7	2.1	1.7	1.1	1.2	2.7	2.4	2.9	0.4
June															
0.9	1.7	0.0	0.9	0.8	0.4	0.0	0.2	0.9	1.7	2.9	1.2	0.9	1.2	2.4	0.8
July															
0.7	0.7	0.8	0.9	0.8	0.6	0.8	1.2	0.0	1.1	1.0	0.8	0.3	2.3	1.9	0.0
August															
1.6	0.8		0.6	1.0	1.2	1.1	1.3	1.0	1.3	1.9	1.9	3.0	1.9	3.0	0.5
September															
	0.8	0.3	0.4	0.9	0.1	1.2	1.1	0.0	0.0	0.4	0.6	0.3	0.4	0.7	0.8
October															
0.1	2.4	0.9	0.9	0.0	0.5	1.0	1.0	0.7	0.5	3.6	2.0	0.0	0.3	0.2	0.3
November															
0.8	0.3		0.4	0.0	0.5	0.8	0.1	0.1	1.2	0.7	0.2	1.1	1.5	0.5	0.4
December															
0.5	0.0	0.5	4.5	0.3	0.1	2.7	1.4	0.0	2.5	0.2	0.0	0.1	0.6	0.6	0.1

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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1.9	0.1	0.0	1.8	0.3	0.0	0.8	0.2	0.5	4.9	2.9	0.0	1.6	0.9	
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0.0	0.8	1.0	0.7	0.7	0.6	0.5	1.8	0.8	1.6	0.7	2.3	0.0	1.9	0.8
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1.1	0.1	0.8	0.7	1.1	0.2	0.6	0.4	0.6	0.5	0.7	0.2	1.5	1.1	
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1.7	0.4	1.5	1.6	0.2	0.3	0.2	1.6	0.4	0.2	0.5	0.3	0.6	0.4	2.3
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0.7	0.7	0.7	1.1	0.1	1.5	0.1	0.2	0.8	1.1	1.3	3.0	5.9	0.8	0.6
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1.0	1.4	0.5	0.5	3.0	0.8	0.4	0.7	0.4	1.2	0.2	0.1	0.6	0.8	
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1.0	0.2	0.1	1.6	1.1	0.4	1.3	0.6	0.3	1.6	0.0	1.9	0.0	0.3	0.3
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0.7	0.0	0.1	0.0	0.3	0.1	0.2	1.4	1.0	0.6	0.7	1.9	0.2	1.8	
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0.3	0.7	2.6	1.1	1.5	0.0	1.0	0.5	0.7	0.0	0.9	2.0	0.2	0.5	1.6
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Table 7. Daily Weather (1986)

: ○ 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	9	6	2	3			
☉	○	⊖	⊖	⊖	○	⊖	⊖	○	●	☉	○	6	13	7	1	4			
○	☉	⊖	●	☉	☉	☉	⊖	☉	●	●		6	9	7	2	6			
☉	●	☉	●	○	○	○	⊖	⊖	⊖	⊖	⊖	8	5	13		5			
○	○	☉	●	☉	⊖	○	○	☉	○	⊖	⊖	16	11	3		1			
●	☉	☉	○	○	○	○	○	☉	☉	☉		13	1	13		3			
○	○	●	☉	☉	○	☉	☉	☉	☉	☉	○	9	1	15		6			
☉	○	○	○	☉	●	●	☉	○	●	☉		12	2	13		3			
☉	☉	*	☉	☉	☉	☉	☉	●	☉	☉	☉	4		24		2	1		

Table 8. Daily Humidity (%) at 9 AM (1986)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17			
January																				
February																				
March																				
April																				
55.2	40.5	36.2	86.3	59.4	30.2	36.8	37.3	61.6	86.2	53.0	64.0	32.5	38.0	37.8	56.0	42.5	35.0			
May																				
45.4	84.3	82.1	71.5	45.2	85.9	55.4	36.8	30.0	45.4	58.2	86.3	55.7	41.0	68.9	41.8	80.0	43.0			
June																				
59.5	60.5	62.2	55.2	65.1	65.7	80.6	37.4	37.4	57.8	54.4	50.1	39.8	34.9	45.4	48.2	78.0	83.7			
July																				
83.6	80.5	67.4	59.0	85.1	83.4	77.7	66.8	85.4	83.3	77.2	76.6	82.9	80.7	64.8	81.0	78.8	54.3			
August																				
49.7	51.1		45.5	58.7	54.7	51.8	54.1	55.5	48.9	52.2	54.5	49.7	41.9	46.5	44.4	64.6	58.5			
September																				
	54.9	73.2	74.5	64.9	61.0	56.0	63.0	64.6	84.3	66.3	70.8	65.2	74.5	63.8	69.9	62.5	84.4			
October																				
67.4	49.4	56.9	76.4	85.9	85.4	74.6	52.8	73.6	79.8	70.2	50.5	79.7	83.7	86.4	79.1	79.3	76.4			
November																				
85.4	84.4		77.8	75.5	87.2	76.7	82.9	81.7	80.2	81.3	79.4	81.3	82.6	84.0	80.3	55.1	84.7			
December																				
80.2	80.8	84.1	53.1	85.7	87.2	60.5	73.5	87.6	43.4	73.6	86.7	87.1	87.3	83.5	79.2	82.8	83.3			

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
82.3	76.9	49.0	51.4	83.9	86.2	66.8	45.9	46.3	40.8	58.9	81.9	58.4	38.2		60.7	55.0
49.3	85.2	84.4	63.6	61.4	73.6	33.0	31.2	65.8	33.5	30.8	48.2	85.0	81.2	53.8	54.3	58.7
57.1	41.8	59.2	53.8	84.6	64.2	85.0	80.8	71.3	84.9	61.9	67.8	84.6	81.7		76.7	61.6
54.8	61.2	74.7	71.0	79.4	73.0	83.1	65.0	73.4	58.4	62.5	55.3	57.5	53.4	50.0	64.6	70.9
63.0	61.0	56.5	54.1	66.8	57.9	82.7	75.0	61.7	58.3	55.8	52.0	50.1	41.4	51.1	59.3	55.2
65.6	75.7	84.0	71.6	53.6	63.5	69.0	69.7	70.1	71.5	84.0	73.0	85.7	85.1		72.5	70.1
73.4	85.8	67.8	76.2	67.6	81.0	71.4	80.1	82.4	79.2	85.3	75.4	82.3	87.4	80.9	79.4	75.3
87.2	82.6	81.8	79.9	87.1	85.1	86.8	85.4	84.6	80.5	82.0	69.6	84.8	86.9		83.3	81.5
86.4	65.9	47.5	79.0	76.6	86.7	86.9	86.5	83.8	85.0	83.0	82.7	86.4	84.9	54.7	81.6	78.1

Table 9. Daily Duration of Sunshine (hours). (1986)

1	2	3	4	5	6	7	8	9	10	上旬計	11	12	13	14	15	16	17			
January																				
February																				
March																				
April																				
11.1	10.9	7.9	0.5	9.1	9.5	9.7	9.9	0.6	3.2	72.4	5.1	11.4	11.5	10.9	0.1	9.4	10.1			
May																				
0.1	0.7	4.7	9.7	11.8	0.8	11.9	11.9	6.9	11.6	70.1	2.7	12.0	10.9	0.2	11.1	5.7	12.1			
June																				
11.0	10.3	6.5	10.5	8.3	4.5	7.2	12.1	11.1	12.0	93.5	12.1	12.3	9.8	8.2	7.3	0.0	0.0			
July																				
0.0	2.0	2.4	8.4	0.0	0.0	0.7	5.1	2.5	0.2	21.3	2.3	1.2	6.2	6.0	1.7	0.0	9.1			
August																				
12.5	12.7	10.3	9.9	9.1	10.1	10.3	12.5	11.8	11.7	110.9	8.8	10.2	11.8	7.8	10.0	11.6	10.7			
September																				
8.8	11.8	6.7	1.2	10.8	2.0	9.7	8.0	3.0	0.0	62.0	7.5	0.6	0.9	8.8	6.8	10.0	0.0			
October																				
0.0	0.0	2.9	3.6	2.1	7.2	4.7	0.5	8.1	5.0	34.1	5.0	0.8	2.4	9.9	9.5	4.6	0.3			
November																				
5.7	9.2	4.1	3.3	6.0	9.6	3.8	3.4	2.4	2.6	50.1	0.0	6.9	0.0	4.5	0.0	3.0	4.7			
December																				
0.0	1.2	5.0	2.2	0.2	7.4	0.0	0.8	7.9	0.5	25.2	7.3	7.8	1.9	0.0	0.0	0.0	2.5			

18	19	20	中旬計	21	22	23	24	25	26	27	28	29	30	31	下旬計	月平均
0.8	5.0	7.4	71.7	0.2	0.0	9.2	11.5	10.3	9.8	3.8	5.5	10.1	10.3		70.7	214.8
10.7	0.0	0.0	65.4	10.6	8.9	12.2	10.6	9.0	11.8	11.6	8.7	0.0	1.8	10.2	95.4	230.9
2.5	0.4	9.2	61.8	0.0	7.9	0.0	0.0	0.0	0.0	12.1	0.0	0.0	0.0		20.0	175.3
11.4	9.9	0.4	48.2	4.7	9.3	0.7	11.4	9.0	10.9	12.4	12.8	12.0	12.0	12.6	107.8	177.3
7.8	12.0	9.3	100	5.0	2.6	0.1	9.2	12.2	10.1	10.0	6.0	10.6	11.3	11.6	88.7	299.6
7.5	0.0	0.5	42.6	1.9	10.5	11.4	10.9	10.4	9.9	10.5	3.8	0.3	4.7		74.3	178.9
2.5	3.6	9.8	48.4	6.0	0.4	7.1	2.6	4.1	2.2	5.5	3.2	2.1	2.5	9.8	45.5	128
5.3	3.2	1.4	29.0	8.7	4.1	7.6	0.0	0.0	0.3	4.2	2.5	0.0	5.6		33.2	112.3
0.0	2.8	1.0	23.3	2.8	0.0	1.8	1.1	0.7	0.2	0.6	0.7	5.5	2.2	1.7	17.3	65.8

Table 1. Daily Atmospheric Temperature at 9 AM (°C). (1987)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17			
January																				
6.1	3.4	10.6			6.4	2.5	7.0	4.3	3.4	5.5	0.5	3.6	-0.6	-2.1	1.8	3.4	10.4			
February																				
-0.1	2.7	0.6	1.4	1.9	4.2	4.2	1.0	2.2	4.7	2.3	15.4	7.9	4.4	10.2	3.4	1.4	2.6			
March																				
0.8	0.3	1.0	3.7	7.6	8.3	2.1	2.0	4.7	4.0	3.5	3.6	4.1	8.9	10.6	4.4	3.3	5.1			

Table 2. Daily Maximum Temperature (°C) (1987)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17			
January																				
9.1	12.3	14.6	7.2	4.7	8.7	11.2	11.0	10.6	6.2	9.5	2.1	9.9	2.3	5.7	10.2	12.2	12.3			
February																				
5.0	5.6	4.3	4.9	9.3	12.5	15.3	13.3	19.9	20.5	11.0	19.9	19.1	13.1	10.7	6.8	7.5	5.5			
March																				
3.0	3.5	10.4	12.1	18.6	10.0	4.4	6.9	5.7	8.7	8.3	9.1	12.0	13.3	11.3	13.5	8.2	8.8			

Table 3. Daily Minimum Temperature (°C) (1987)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17			
January																				
3.0	2.6	5.0	3.0	1.8	3.0	1.6	0.1	0.9	0.3	2.1	-2.6	-2.7	-1.8	-4.0	-0.6	-0.6	3.5			
February																				
-2.6	-2.7	-0.4	-0.5	0.6	1.9	0.7	-1.7	-1.8	0.5	-0.7	9.3	5.0	1.9	3.0	-1.0	-0.9	-1.3			
March																				
-0.8	-1.5	-2.2	-0.9	3.7	4.4	0.4	0.2	1.7	1.4	0.6	1.5	-0.5	4.1	2.2	0.5	0.1	2.0			



Table 4. Daily Amount of Precipitation (mm). (1987)

1	2	3	4	5	6	7	8	9	10	上旬計	11	12	13	14	15	16	17	
January																		
0.0	2.5	4.5	2.5	1.5	12.5	0.0	3.5	7.0	16.5	50.5	1.5	2.5	8.0	9.0	0.0	0.0	0.0	
February																		
12.0	0.0	8.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	0.0	21.0	0.0	1.5	4.5	0.0	11.5	
March																		
36.5	3.5	0.0	0.0	0.0	0.0	17.5	0.0	0.0	0.0	57.5	1.5	0.0	4.5	10.0	0.0	0.5	4.5	

Table 5. Wind Direction at 9 A.M. (1987)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
January															
ENE	ENE	CALM			WSW	NE	WSW	NE	WSW	CALM	ENE	SW	CALM	NE	NE
February															
CALM	SSE	WSW	SSW	NE	ENE	E	CALM	CALM	ESE	NNE	NE	CALM	WSW	NE	ENE
March															
CALM	SW	NNE	CALM	ESE	SW	ENE	ENE	CALM	E	ENE	SSW	WSW	NE	SW	CALM

Table 6. Wind Speed at 9 A.M. (1987)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
January															
0.6	0.5	0.2			0.5	1.0	3.7	0.8	1.7	0.6	0.7	1.0	0.3	1.1	1.9
February															
0.0	1.5	3.9	1.3	0.6	0.5	0.3	0.1	0.1	0.3	1.2	1.7	0.2	2.6	0.3	0.7
March															
0.5	0.5	1.3	0.1	0.5	0.7	2.1	0.8	0.3	0.6	0.6	0.5	2.1	0.5	0.7	0.0

18	19	20	中旬計	21	22	23	24	25	26	27	28	29	30	31	下旬計	月総計
0.0	12.0	1.5	34.5	0.0	0.0	7.0	23.0	28.5	5.0	0.0	0.0	0.0	6.5	7.5	77.5	162.5
11.0	0.5	0.0	50.0	0.0	2.0	0.0	6.5	4.0	2.5	0.0	4.0				19.0	92.0
0.0	19.0	7.5	47.5	0.0	0.0	21.5	6.0	4.5	0.5							

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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WSW	SE	CALM	CALM	CALM	ENE	SSW	ENE	CALM	CALM	CALM	NE	CALM	CALM	CALM
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NE	CALM	ENE	CALM	SSE	CALM	E	NE	WSW	WSW	CALM	CALM			
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ENE	SW	CALM	CALM	SE	CALM	CALM	CALM	WSW	CALM					
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17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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3.8	0.6	0.4	0.1	0.0	1.1	1.5	1.3	0.0	0.0	0.0	1.9	0.4	0.1	0.3
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1.4	0.1	1.9	0.2	0.4	0.2	0.4	0.7	2.8	2.1	0.1	0.0			
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0.7	1.8	0.2	0.2	0.2	0.0	0.0	0.2	4.5	0.1					
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Table 7. Daily Weather (1987)

: ○ 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																		
*	*	○	○	⊙	⊙	○	⊙	○	⊙	○	○	●	●	○	⊙	⊙	⊙	⊙

Table 8. Daily Humidity (%) at 9 A.M. (1987)

1	2	3	4	5	6	7	8	9	10	上旬平均	11	12	13	14	15	16	17
January																	
54.4	71.9	74.7			82.7	85.7	47.3	80.5	81.8	72.4	73.0	57.6	54.5	80.6	82.8	78.7	40.6
February																	
84.7	58.4	41.7	56.9	85.5	73.5	85.5	87.1	71.2	68.8	71.3	49.1	83.7	72.3	48.4	85.1	85.8	75.5
March																	
82.2	79.1	82.3	71.5	67.5	68.3	56.5	85.2	76.3	43.7	71.3	84.8	71.6	74.2	86.6	74.2	81.5	76.8

Table 9. Daily Duration of Sunshine (hours). (1987)

1	2	3	4	5	6	7	8	9	10	上旬計	11	12	13	14	15	16	17
January																	
0.0	0.0	3.1	0.5	0.0	0.8	6.0	4.1	1.0	1.8	17.3	0.0	2.6	1.7	2.9	8.1	6.3	3.1
February																	
5.6	0.9	5.0	1.6	4.4	5.7	5.5	9.2	9.3	9.4	56.6	0.5	0.0	9.7	0.2	3.1	2.3	0.0
March																	
2.4	3.6	8.8	7.0	10.2	0.1	0.0	8.7	0.0	6.0	46.8	0.4	10.1	0.0	0.0	7.9	1.5	0.0

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

20	21	22	23	24	25	26	27	28	29	30	31	○	⊕	☉	⊕	●	*	△
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*	☉	○	☉	*	*	*	☉	○	○	☉	*	7		13		1	9	
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○	○	☉	○	○	☉	*	*	*				10	3	8		2	5	
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☉	⊕	☉	●	☉	☉	○	☉	○	☉	☉	○	9	2	15		3	2	
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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
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71.5	71.7	82.4	69.3	85.2	86.7	54.2	83.5	85.0	83.1	85.1	77.3	83.7	75.4	86.4	80.5	74.1
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86.0	50.8	72.1	70.9	69.0	78.3	86.9	56.1	75.9	81.9	69.7	81.7				74.9	72.4
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56.0	71.1	64.6	74.1	71.5	73.6	84.3	84.6	42.3	65.2						70.3	71.9
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18	19	20	中旬計	21	22	23	24	25	26	27	28	29	30	31	下旬計	月総計
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4.6	0.0	0.5	29.8	5.2	8.2	0.6	0.0	0.0	6.6	3.0	5.2	8.7	1.1	1.3	39.9	87.0
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3.1	1.9	8.5	29.3	7.3	3.3	5.3	4.1	0.5	4.9	6.8	7.0				39.2	125.1
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3.6	6.6	4.7	34.8	10.9	6.6	0.0	0.2	3.3	7.7							
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